AMTC
HEERLE



2024
2025

MEASURING INSTRUMENTS

CATALOGUE NO. 207

INSIZE

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

QUALITY | INNOVATION | SERVICE | VALUE



The products with this mark are INSIZE PLUS brand, otherwise the products are INSIZE brand.

INSIZE is our standard quality

INSIZE PLUS is our premium quality

INSPECTION CERTIFICATE

The products with this mark are supplied with manufacturer inspection certificate.

INSIZE Inspection Certificate

Product name	Digital Caliper	Traceable to	USA NIST No.821/279484-10
Code No.	1108-150		Germany DKD No.D-K-15190-01-00
Measuring range	0-150mm / 0-6"	Inspector	
Resolution	0.01mm / 0.0005"		
Serial No.	0910120004	Judgement	Passed
Standard temperature	20°C / 68°F		

Unit: inch

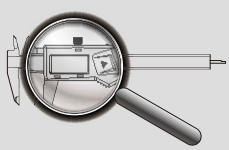
Measuring Length	Permissible Error	Error	
		External	Internal
0.4 DIA	+0.0005 -0.0010	/	0.0005
2	±0.0010	-0.0005	/
4		-0.0005	/
6		-0.0010	/
8	±0.0015	/	/
10		/	/
12		/	/

Unit: mm

Measuring Length	Permissible Error	Error	
		External	Internal
Φ10	+0.01 -0.02	/	0.01
50	±0.02	-0.01	/
100		-0.01	/
150		-0.02	/
200	±0.03	/	/
250		/	/
300		/	/

VIDEO

Please scan QR code to watch the videos of products.



How to search:

1. Search for products according to category in PRODUCT INDEX (next 6 pages)
2. Search for products in CODE NO. INDEX (page 823-828)
3. Search for products in APPLICATION INDEX OF MEASURING TOOLS (page 829-835)

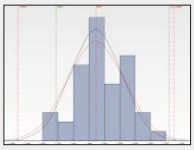
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SYSTEM CERTIFICATION ISO 9001 SGS UKAS QUALITY MANAGEMENT 005

PRODUCT INDEX

1 DATA OUTPUT AND SOFTWARE PAGE 1-17



DATA MANAGEMENT SOFTWARES



DATA OUTPUT CABLES

2 CALIPERS PAGE 18-64



CALIPERS

3 DEPTH MEASURMENT PAGE 65-79



DEPTH GAGES



DEPTH GAGES



DEPTH MICROMETERS

4 HEIGHT MEASURMENT PAGE 80-88



DIGITAL HEIGHT GAGES



HEIGHT GAGES

5 COMPARISON INSTRUMENTS PAGE 89-93



CARBON FIBER COMPARISON GAGES



INTERNAL AND EXTERNAL DIAMETER COMPARISON INSTRUMENTS



OUTSIDE DIAMETER MEASURING STANDS

6 MICROMETERS PAGE 94-156



HIGH PRECISION DIGITAL MICROMETERS/SNAP GAGES



OUTSIDE MICROMETERS



3-WIRES



MICROMETER HEADS

7 BORE DIAMETER, CIRCUMFERENCE MEASUREMENT PAGE 157-184



INSIDE MICROMETERS



INSIDE MICROMETERS



THREE POINTS INTERNAL MICROMETERS



BORE PLUG GAGES



BORE GAGES



TELESCOPING GAGE SETS



CIRCUMFERENCE TAPES

8 ARC RADIUS MEASUREMENT PAGE 185-192



LARGE DIAMETER GAGES



OUTSIDE DIAMETER VARIATION MEASURING INSTRUMENTS



OUTSIDE DIAMETER MEASURING INSTRUMENTS



DIGITAL RADIUS GAGES



DIGITAL ARC RADIUS CALIPERS



DIGITAL RADIUS CALIPERS

PRODUCT INDEX

9 CHAMFER MEASUREMENT PAGE 193-195


DIGITAL CHAMFER GAGES


DIGITAL CHAMFER GAGES

10 INDICATORS, LINEAR GAGES, DIAL INDICATOR STANDS PAGE 196-246


DIAL TEST INDICATORS


INDICATORS


LINEAR GAGES AND DISPLAY UNITS


MAGNETIC STANDS


DIAL INDICATOR STANDS (NON-MAGNETIC)

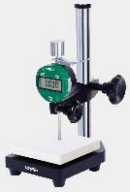

DIAL INDICATOR STANDS

11 INDICATING MEASURING INSTRUMENTS PAGE 247-267


INTERNAL CALIPER GAGES


EXTERNAL CALIPER GAGES


THICKNESS GAGES


RUBBER THICKNESS GAGES


TUBE THICKNESS GAGES


SNAP GAGES


STEP AND GAP GAGES


MINI DIGITAL HEIGHT GAGES


HEIGHT GAGES


CRANKSHAFT TESTERS


KEYWAY GAGES

12 PETROLEUM PIPE THREAD MEASUREMENT PAGE 268-282


THREAD PITCH MEASURING INSTRUMENTS


THREAD TAPER MEASURING INSTRUMENTS


THREAD HEIGHT MEASURING INSTRUMENTS


THREAD CREST DIAMETER MEASURING INSTRUMENTS


GROOVE DIAMETER MEASURING INSTRUMENTS


GROOVE WIDTH MEASURING INSTRUMENTS


THREAD GAGES FOR PETROLEUM EQUIPMENT

13 STANDARDS AND GAGE BLOCKS PAGE 283-333


GAGE BLOCKS


CMM CHECK MASTERS


ANGLE GAGE BLOCKS


TAPER GAGES


PIN GAGES


CYLINDER GAGES


ADJUSTABLE SNAP GAGES


SETTING RINGS


PLAIN PLUG GAGES


MEASURING BALLS


THREADED HOLE LOCATION GAGES


THREAD DEPTH GAGES


THREAD RING GAGES


THREAD PLUG GAGES

PRODUCT INDEX

14 ANGLE, STRAIGHTNESS, FLATNESS MEASURMENT — PAGE 334-351


ANGLE METERS


PROTRACTORS


GRANITE SQUARES


PERPENDICULARITY TESTERS


SQUARES


STRAIGHT EDGES


STRAIGHT EDGES


STRAIGHTNESS/ FLATNESS GAGES


OPTICAL FLATS

15 CONCENTRICITY AND RUNOUT TESTERS — PAGE 352-360


CONCENTRICITY GAGES


BENCH CENTERS


SHANK RUNOUT TESTERS

16 SIMPLE MEASURING TOOLS — PAGE 361-399


FEELER GAGES


PITCH GAGES


RADIUS GAGES


TAPER SLOT GAGES


TAPER BORE GAGES


WELDING GAGES


INSIDE/OUTSIDE CALIPERS


MEASURING TAPES


MEASURING WHEELS


STEEL RULES


COMBINATION SQUARES


T-BEVELS


SCRIBING CALIPERS


PRECISION SCREWDRIVER SETS

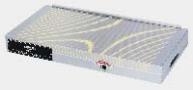

LED FLASHLIGHTS


MEASURING TOOL SETS

17 SET-UP TOOLS — PAGE 400-425


GRANITE SURFACE PLATES

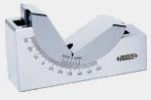

V-BLOCKS


PERMANENT MAGNETIC CHUCKS


PARALLELS


PARALLEL/SQUARE SETS


ANGLE PLATE SETS


ADJUSTABLE ANGLE BLOCKS


RIGHT ANGLE PLATES


SINE BARS


PRECISION VISES


STAGES

PRODUCT INDEX

18 ON-MACHINE MEASUREMENT — PAGE 426-439


INFRARED TRANSMISSION PROBES FOR CNC MACHINE TOOLS


VIDEO MEASURING INSTRUMENT FOR MACHINE TOOLS


TRIGGER-TYPE 3D PROBES


CENTERING INDICATORS


EDGE FINDERS


EDGE FINDERS FOR EDM


ZERO SETTERS WITH CABLE


ZERO SETTERS


ZERO SETTERS

19 LEVELS — PAGE 440-453


LEVELS


CROSS-LINE LASER LEVELS


SELF-LEVELING ROTARY LASERS

20 — PAGE 454-468


LINEAR SCALES


SCALES


AIR GAGES AND DISPLAYS


LASER SCAN MICROMETERS


SPECTROMETERS

21 FLAW DETECTORS — PAGE 469-473


DIGITAL ULTRASONIC FLAW DETECTORS


PORTABLE MAGNETIC POWDER FLAW DETECTORS


RECHARGEABLE UV FLAW DETECTION LIGHTS


PENETRATION STANDARD TEST BLOCKS

22 CMM — PAGE 474-490


CMM


MEASURING ARMS


STYLI FOR CMM


GAGE BLOCK STANDS FOR CMM


CERAMIC BALL GAGES


JIG SETS FOR CMM

23 TOOL PRESETTERS, PROFILE PROJECTORS, QUICK MEASUREMENT SYSTEMS, VISION MEASURING SYSTEMS — PAGE 491-524


TOOL PRESETTERS


PROFILE PROJECTORS


QUICK MEASUREMENT SYSTEMS


VISION MEASURING SYSTEMS

25 VIDEOSCOPES — PAGE 596-612


VIDEOSCOPES


RIGID BORESCOPES

PRODUCT INDEX

24 MICROSCOPES, MAGNIFIERS PAGE 525-595


TOOLMAKER MICROSCOPES


DIGITAL MICROSCOPES


MICROSCOPES


MAGNIFIERS


TELESCOPING INSPECTION MIRRORS

26 COATING INSPECTION PAGE 613-628


COATING THICKNESS GAGES


SURFACE PROFILE GAGES


WET FILM GAGES


GLOSS METERS


COLORIMETERS


PENCIL HARDNESS TESTERS


CROSS CUT ADHESION TESTERS


DIGITAL ADHESION TESTERS


ROTATIONAL ABRASION TESTERS


PAINT FILM FLEXIBILITY TESTERS


IMPACT TESTERS

27 PORTABLE INSTRUMENTS PAGE 629-659


ULTRASONIC THICKNESS GAGES


TACHOMETERS


STROBOSCOPES


VIBRATION PENS


DIGITAL MULTIMETERS


DIGITAL AC/DC CLAMP METERS


VOLTAGE TESTERS


PORTABLE CONDUCTIVITY/TDS METERS


PORTABLE pH METERS


LASER DISTANCE METERS


REFRACTOMETERS


DIGITAL STOPWATCHES


STROKE COUNTERS


DIGITAL MOISTURE METERS


DIFFERENTIAL PRESSURE MANOMETERS


ANEMOMETERS


BOURDON TUBE PRESSURE GAGES


SOUND LEVEL METERS


LIGHT METERS


GAS DETECTORS


TESLAMETERS


LASER BELT TENSION METERS

PRODUCT INDEX

28 TEMPERATURE AND HUMIDITY MEASUREMENT — PAGE 660-668


INFRARED THERMAL IMAGING CAMERAS


INFRARED THERMOMETERS



THERMOHYGRO METERS


THERMOHYGROMETERS

29 ROUNDNESS, PROFILE AND ROUGHNESS TESTERS — PAGE 669-695


ROUNDNESS MEASURING MACHINES


PRECISION AIR FLOATING ROTARY TABLES


SURFACE PROFILE MEASURING MACHINES


ROUGHNESS TESTERS


SURFACE ROUGHNESS SPECIMENS

30 HARDNESS TESTERS — PAGE 696-749


HARDNESS TESTERS


CONCRETE STRENGTH TESTERS

31 METALLOGRAPHY PREPARATION — PAGE 750-764

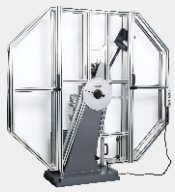

CUTTING MACHINES


GRINDERS AND POLISHERS


MOUNTING PRESSES

32 TESTING MACHINES, FORCE GAGES — PAGE 765-777


UNIVERSAL TESTING MACHINES


IMPACT TESTING MACHINES


DIGITAL SPRING TESTERS



FORCE GAGES


DIAL TENSION GAGES

33 TORQUE TESTERS TORQUE WRENCHES — PAGE 778-801



TORQUE TESTERS


TORQUE SCREWDRIVERS


TORQUE WRENCHES


TORQUE ADAPTERS


TORQUE MULTIPLIERS

34 SCALES — PAGE 802-818


SCALES


WEIGHTS

35 SALT SPRAY TESTERS, TEMPERATURE AND HUMIDITY TESTERS — PAGE 819-822

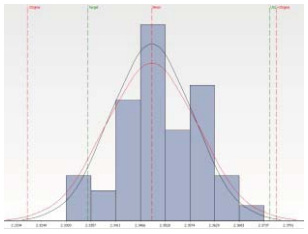

SALT SPRAY TESTERS


TEMPERATURE AND HUMIDITY TESTERS

INSIZE

DATA OUTPUT AND SOFTWARE

01



Data Management Softwares
Page 2-3



Wireless Data Transmission Systems
Page 4-7

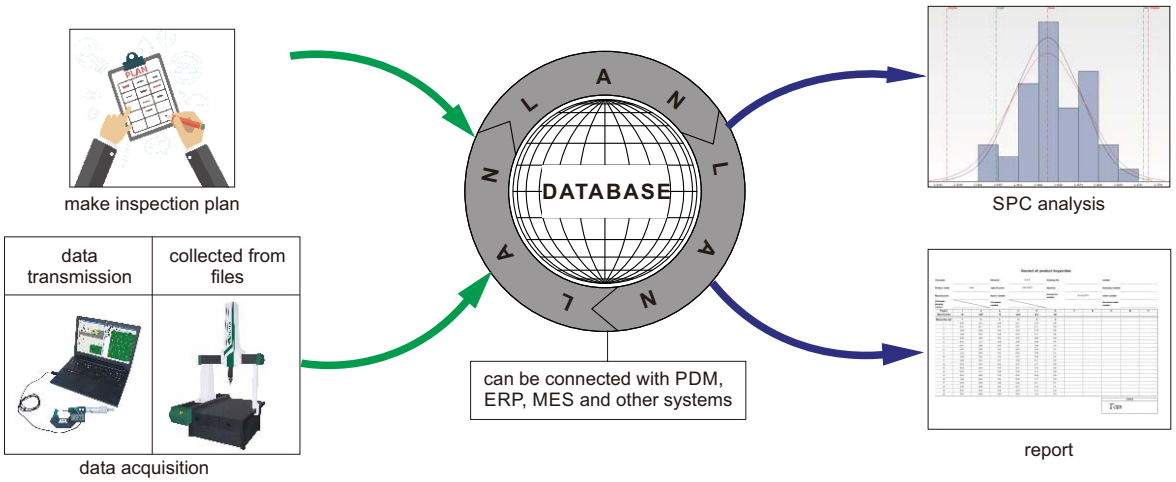


Data Output Cables
Page 8-17

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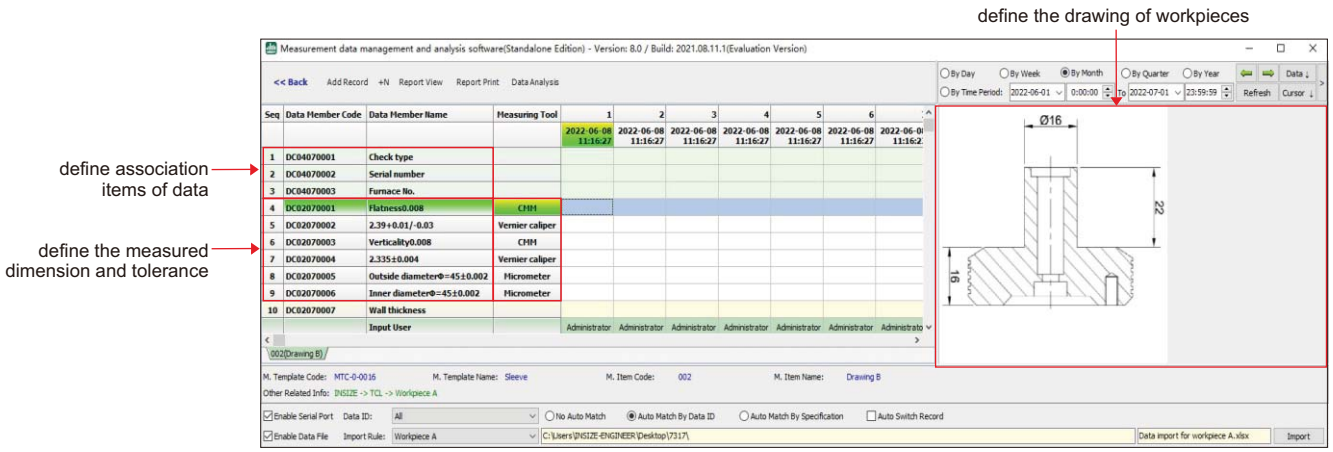
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MEASUREMENT DATA MANAGEMENT AND ANALYSIS SOFTWARE CODE 7317

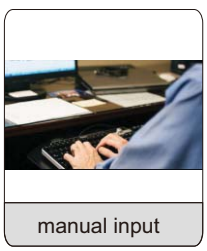


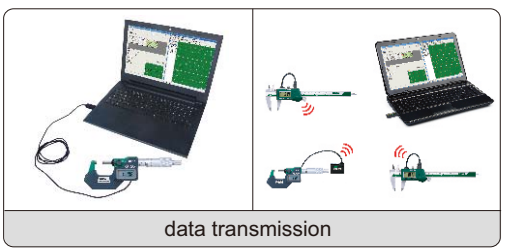
Make inspection plan

- Define the dimensions, tolerances, control range and other parameters of workpieces



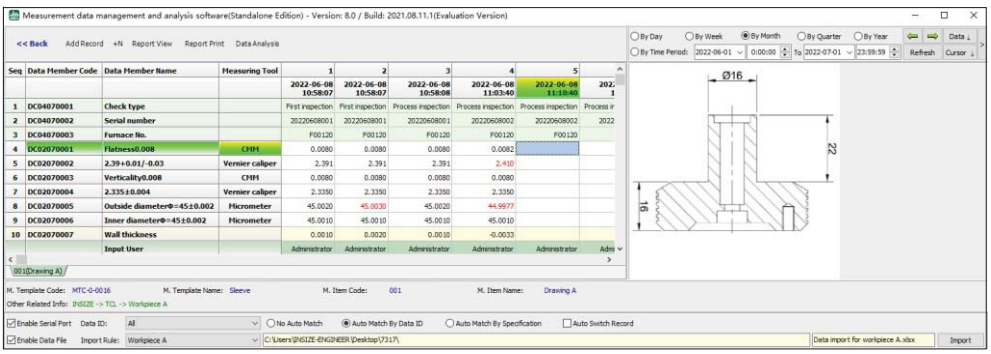
Data acquisition


manual input


data transmission


collected from files


screen capture


measurement interface

To be continued

Continued from previous page

SPC

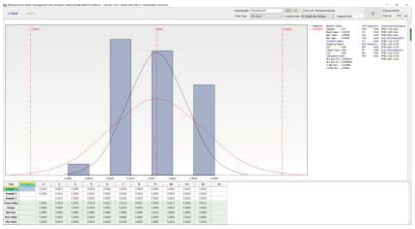
- Provide variety of quality analysis control charts

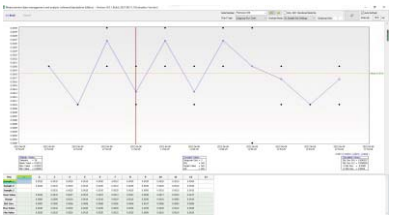

Xbar-R control chart


I-MR control chart

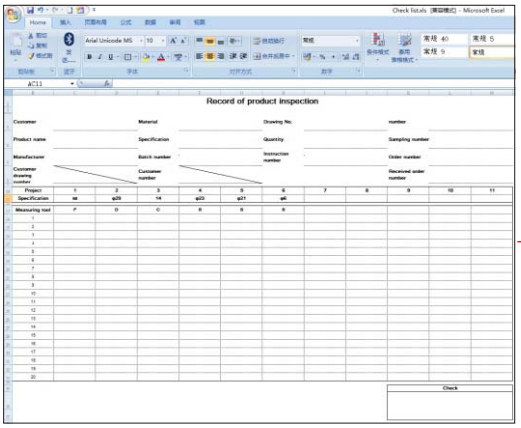

run control chart

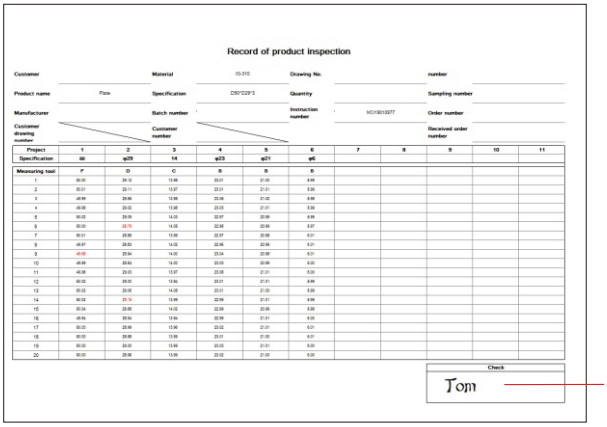

Xbar-S control chart


CPK control chart


subgroup run chart

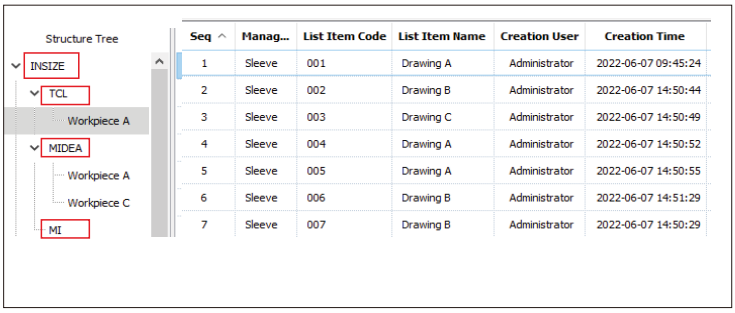
Report


report template

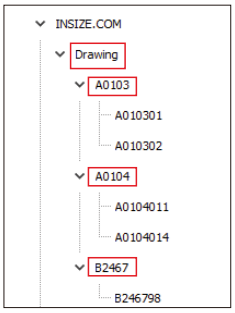


generate report

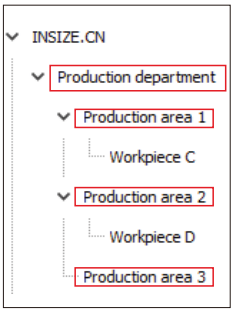
Management of inspection plan



management by customers



management by drawings



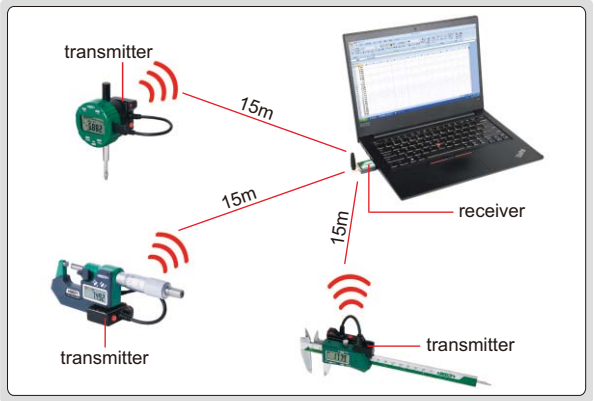
management by departments

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1

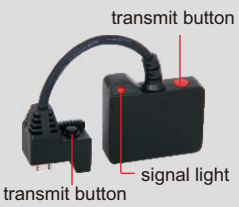
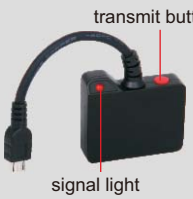
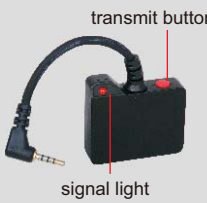
WIRELESS DATA TRANSMISSION SYSTEM

- Through wireless transmission, the measurement data can be transmitted to computers or mobile phones
- Wireless zigbee protocol, conforming to IEEE802, 2.4GHz band
- Transmission distance is 15 meter (under the condition of no obstruction and no electromagnetic interference)



Transmitter

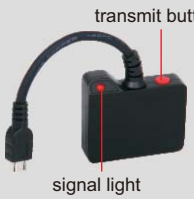
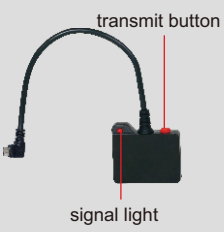
- Connecting to digital measuring tools such as calipers, micrometers and indicators
- CR2032 battery

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-21	transmitter for digital calipers			▪ Press the transmit button on the plug of cable, can also press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-22	transmitter for large digital calipers			▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-30	transmitter for digital micrometers			▪ Press the "data" button of digital micrometer, can also press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once, at the same time, the signal light on the digital micrometer flashes once
7315-31	transmitter for digital micrometers			▪ Press the "data" button of digital micrometer ▪ Data is transmitted once, the signal light on the digital micrometer flashes once

To be continued

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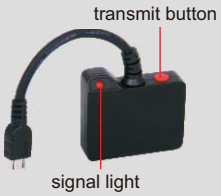
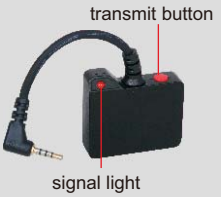
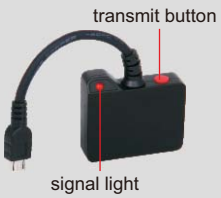
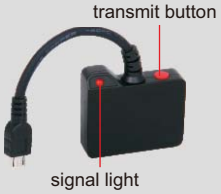
Continued from previous page

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-50M	transmitter for digital indicators		 for **2108, 2138, 2139** series digital indicators	▪ Press the "DATA" button of digital indicator, can also press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once, at the same time, the signal light on digital indicator flashes once
			 for other digital indicators	▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-51	transmitter for digital indicators		 for **2108, 2138, 2139** series digital indicators 	▪ Press the "DATA" button of digital indicator ▪ Data is transmitted once, the signal light on digital indicator flashes once
7315-60	transmitter for high precision digital indicators			▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once

To be continued

1

Continued from previous page

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-3350	transmitter for digital micrometers			▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-1150	transmitter for digital height gages			▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-1151	transmitter for digital height gages			▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-2771	transmitter for digital protractor			▪ Press the transmit button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once

Receiver (keyboard signal)

- For computers and mobile phones
- Recognized as HID keyboard device, the transmitted data is recognized by computers or mobile phones as keyboard input data and press enter, such as 12.34↙. No need to install drivers and softwares
- Data can be transmitted to excel, word, txt etc.
- For any softwares which can receive keyboard signal

Code	Product	Description	Remark
7315-3		single channel receiver	connected with 1 transmitter only
7315-6		multichannel receiver	connected with 6 transmitters, each channel has status indicator
7315-7			

To be continued

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Continued from previous page

Code	Product	Description	Remark
7315-8	micro USB port 	multichannel receiver	connected with 6 transmitters, each channel has status indicator
7315-9	lightning port 		

Receiver (text format, virtual com port)

- For computers with windows system
- Text format virtual com port, converted to keyboard format with supplied software
- Supplied with Excel directional input software
- Measurement data can be transmitted to excel, word, txt etc. and any software which receives keyboard signal

Code	Product	Description	Remark
7315-2		multichannel receiver	connected with maximum 16 transmitters, each of them has unique identification code

Excel directional input software

- Supplied with **7315-2** receiver
- The measurement data of multiple measuring tools can be transmitted to the designated area of excel, which facilitates data management and improves efficiency

Excel directional input software (included in **7315-2**), application example 1

Set the display area of caliper at B4-B9,
the readings of caliper are displayed at B4, B5...B9.
Set the display area of micrometer at C4-C9,
the readings of micrometer are displayed at C4, C5... C9.
Set the display area of height gage at D4-D9,
the readings of height gage are displayed at D4, D5... D9.

	A	B	C	D
1	Project	Length	Width	Height
2	Dimension and Tolerance	50±0.05	24±0.01	10+0.05/-0.06
3	Measuring tool	Caliper	Micrometer	Height gage
4	1	50.02	24.004	9.98
5	2	50.01	24.010	10.01
6	3	49.99	23.990	10.02
7	4	50.00	23.996	9.99
8	5	50.04	24.000	10.01
9	6	Channel 1	Channel 2	Channel 3

serial of workpieces

the next data display area is indicated in green

Excel directional input software (included in **7315-2**), application example 2

Set the display area of micrometer at B4-C9, data input is from the left to the right,
the readings of micrometer are displayed at B4, C4, B5, C5... B9, C9.
Set the display area of caliper at D4-D9,
the readings of caliper are displayed at D4, D5... D9.
Set the display area of depth gage at E4-E9,
the readings of depth gage are displayed at E4, E5... E9.

	A	B	C	D	E
1	Project	External diameter1	External diameter2	Length	Depth
2	Dimension and Tolerance	Φ23+0.01/-0.02	Φ21+0.01/-0.02	50±0.04	28±0.05
3	Measuring tool	Micrometer	Micrometer	Caliper	Depth gage
4	1	23.010	21.008	49.98	28.01
5	2	23.010	21.000	49.98	27.98
6	3	22.999	21.000	50	28
7	4	23.007	20.998	50	28
8	5	23.000	20.985	50.01	28.01
9	6	23.008	Channel 1	Channel 2	Channel 3

serial of workpieces

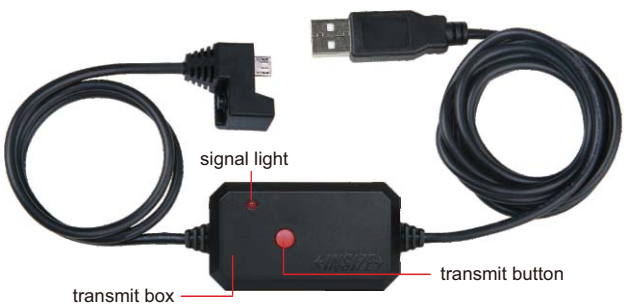
the next data display area is indicated in green

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1

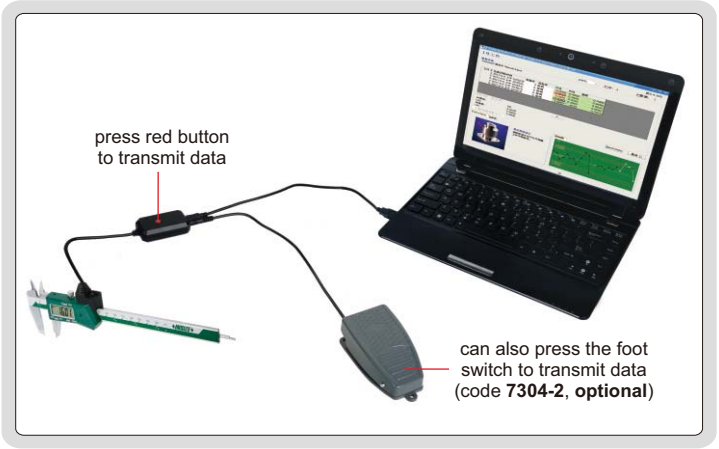
DATA OUTPUT CABLES (TEXT FORMAT, VIRTUAL COM PORT)

1) Data output cables with transmit box

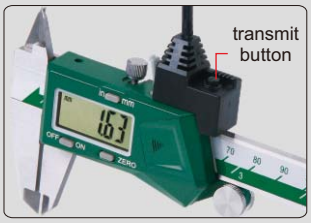
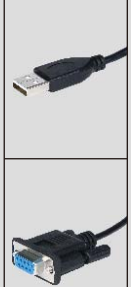
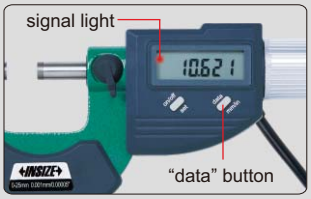
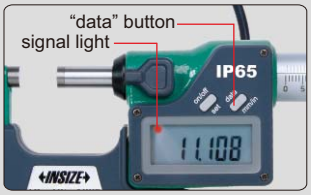


7305-21

application



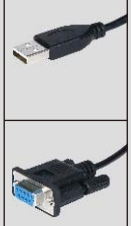
Single transmit (can be switched to continuous transmit)

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-21 **7305-R21**	cable for digital calipers (length 3m)				▪ Press the transmit button on the plug of cable, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-22 **7305-R22**	cable for large digital calipers (length 2.5m)				▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-30 **7305-R30**	cable for digital micrometers (length 2.5m)			 	▪ Press the "data" button of digital micrometer, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once
7305-31 **7305-R31**	cable for digital micrometers (length 2.5m)			 	▪ Press the "data" button of digital micrometer, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once

To be continued

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Continued from previous page

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-50M **7305-R50M**	cable for digital gages (length 2.5m)				▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-1150 **7305-R1150**	cable for digital height gages (length 2.5m)				▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once



7305-40M

Continuous transmit (can be switched to single transmit)

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-40M	cable for digital indicators (length 2.5m)			 for **2108**, **2138**, **2139** series digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the “DATA” button of digital indicator, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once Note: long press transmit button to zero the digital indicators; software of data transmit is included
				 for other digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once Note: long press transmit button to zero the digital indicators; software of data transmit is included

To be continued

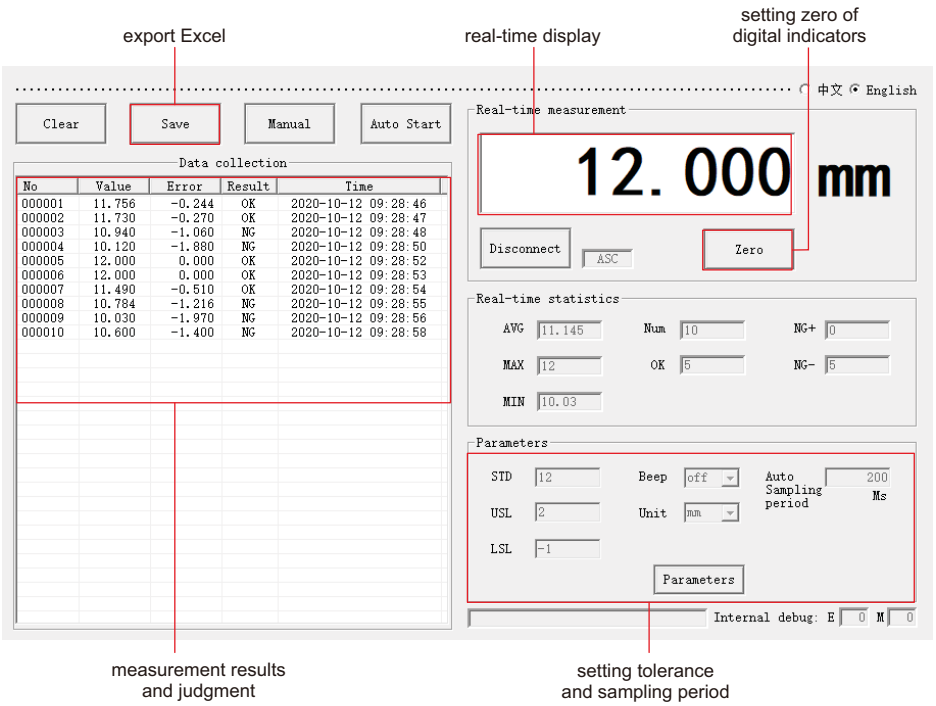
1

Continued from previous page

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-R40M	cable for digital indicators (length 2.5m)			 for **2108**, **2138**, **2139** series digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the “DATA” button of digital indicator, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once Note: long press transmit button to zero the digital indicators; software of data transmit is included
				 for other digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once Note: long press transmit button to zero the digital indicators; software of data transmit is included

Software (included in 7305-40M and 7305-R40M)

- Real-time display
- Tolerance setting, automatic judgment, out-of-tolerance alarm
- Real time statistics: max, min, average, Go/No-Go number
- Can save results as Excel



To be continued

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Continued from previous page

communication protocol

- Baud: 9600bps
  Data bit: 8
  Stop bit 1
  Check bit: None
  No flow control

- Data output format

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10

+or- Data section (floating point) CR

Data format example
Display Output
1.234 ➡ +0001.234↙
-1.234 ➡ -0001.234↙

- Data output format with ID number

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21

ID number Blank +or- Data section (floating point) CR

Data format example
Display Output
1.234 ➡ 4109210605 +0001.234↙
-1.234 ➡ 4109210605 -0001.234↙

- The data transmission mode can be switched: single or continuous;
  The data output format can be switched: with ID number or without ID number;
  Data of digital indicators can be transmitted by instruction;
  The digital indicators can be zeroed by instruction

- Pin definition of RS232 plug:



⑤④③②①
⑨⑧⑦⑥

Pin No.	Symbol	Description
2	TXD	Data OUT
3	RXD	Data IN
4	VDD	+5V Power
5	GND	Ground

2) Data output cables without transmit box



7305-G3350

application



Single transmit

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-G60	cable for high precision digital indicators (length 3m)				▪ Press the "DATA" button of high precision digital indicator
7305-G3350	cable for digital micrometers (length 3m)				▪ Press the "DATA" button of digital micrometer

communication protocol

- Baud: 9600bps
  Data bit: 8
  Stop bit 1
  Check bit: None
  No flow control

- Data output format

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10

+or- Data section (floating point) CR

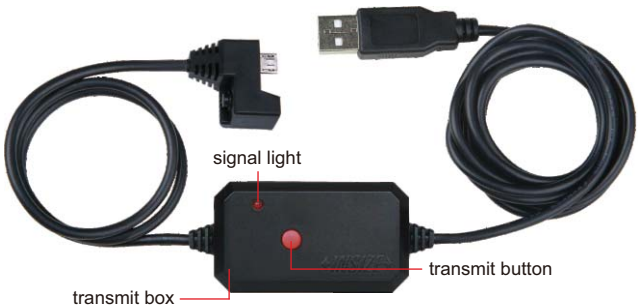
Data format example
Display Output
1.234 ➡ +0001.234↙
-1.234 ➡ -0001.234↙

- Data of high precision digital indicators can be transmitted by instruction;
  The high precision digital indicators can be zeroed by instruction

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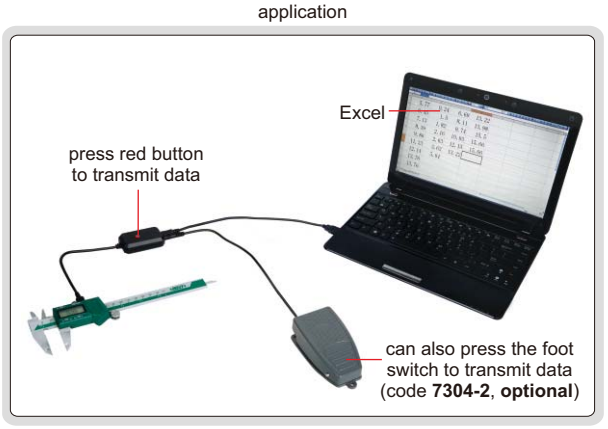
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DATA OUTPUT CABLES (KEYBOARD FORMAT)

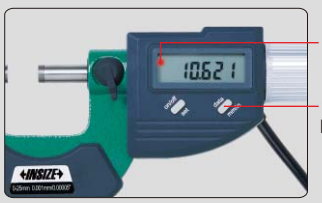


7302-21

application



- Recognized as HID keyboard device by computer, no need to install drivers and softwares
- Data can be transmitted to Excel, Word, txt and other files (press transmit button, which is recognized by the computer as keyboard input data and press enter, such as 12.34↙)
- For any softwares which can receive keyboard signal
- Optional accessory: foot switch (code: **7304-2**), hub (code: **7324-HUB4**, **7324-HUB7**), extension cables (code: **7325-ADD5**, **7325-ADD10**)

Code	Description	Plug	Connecting with measuring tool	Transmit data
7302-21	cable for digital calipers (length 3m)			▪ Press the transmit button on the plug of cable, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7302-22	cable for large digital calipers (length 2.5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7302-30	cable for digital micrometers (length 2.5m)		 	▪ Press the "data" button of digital micrometer, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once
7302-31	cable for digital micrometers (length 2.5m)		 	▪ Press the "data" button of digital micrometer, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once

To be continued

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Continued from the previous page

Code	Description	Plug	Connecting with measuring tool	Transmit data
7302-50M	cable for digital gages (length 2.5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7302-40M	cable for digital indicators (length 2.5m)		 for **2108**, **2138**, **2139** series digital indicators	▪ Press the "DATA" button of digital indicator, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once Note: long press transmit button to zero the digital indicators
			 for other digital indicators	▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once Note: long press transmit button to zero the digital indicators
7302-60	cable for high precision digital indicators (length 2.5m)			▪ Press the "DATA" button of high precision digital indicator, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7302-3350	cable for digital micrometers (length 2.5m)			▪ Press the "DATA" button of digital micrometer, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7302-1151	cable for digital height gages (length 2.5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7302-SPC7	cable for digital height gages (length 2.5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once

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1

INTERFACE BOX AND DATA OUTPUT CABLES



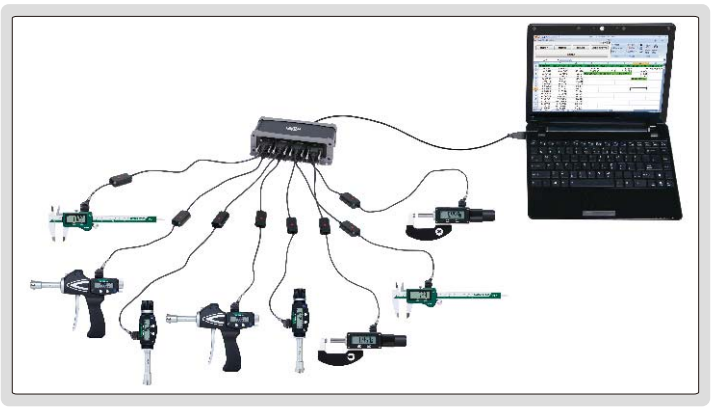
8-channel interface box
7210-2



data output cable
7305-R40M

- The interface box can be connected to digital measuring tools, such as calipers, micrometers, indicators (**7305-R** series data output cables are needed)
- The interface box is supplied with Excel directional input software
- The interface box can be connected with 8 data output cables, each of them has unique identification code

application



INTERFACE BOX SPECIFICATION

Code	**7210-2**
Quantity of digital measuring tools to be connected	8 pcs
Output port	USB (virtual serial signal)

Excel directional input software

- Supplied with **7210-2** interface box
- The measurement data of multiple measuring tools can be transmitted to the designated area of Excel, which is convenient for data management and improves efficiency

Excel directional input software
application example 1

Set the display area of caliper at B4-B9,
the readings of caliper are displayed at B4, B5...B9.
Set the display area of micrometer at C4-C9,
the readings of micrometer are displayed at C4, C5... C9.
Set the display area of height gage at D4-D9,
the readings of height gage are displayed at D4, D5... D9.

	A	B	C	D
1	Project	Length	Width	Height
2	Dimension and Tolerance	50±0.05	24±0.01	10+0.05/-0.06
3	Measuring tool	Caliper	Micrometer	Height gage
4	1	50.02	24.004	9.98
5	2	50.01	24.010	10.01
6	3	49.99	23.990	10.02
7	4	50.00	23.996	9.99
8	5	50.04	24.000	10.01
9	6	Channel 1	Channel 2	Channel 3

serial of workpieces

the next data display area is indicated in green

Excel directional input software
application example 2

Set the display area of micrometer at B4-C9, data input is from the left to the right,
the readings of micrometer are displayed at B4, C4, B5, C5... B9, C9.
Set the display area of caliper at D4-D9,
the readings of caliper are displayed at D4, D5... D9.
Set the display area of depth gage at E4-E9,
the readings of depth gage are displayed at E4, E5... E9.

	A	B	C	D	E
1	Project	External diameter1	External diameter2	Length	Depth
2	Dimension and Tolerance	Φ23+0.01/-0.02	Φ21+0.01/-0.02	50±0.04	28±0.05
3	Measuring tool	Micrometer	Micrometer	Caliper	Depth gage
4	1	23.010	21.008	49.98	28.01
5	2	23.010	21.000	49.98	27.98
6	3	22.999	21.000	50	28
7	4	23.007	20.998	50	28
8	5	23.000	20.985	50.01	28.01
9	6	23.008	Channel 1	Channel 2	Channel 3

serial of workpieces

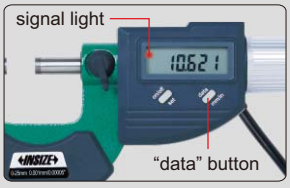
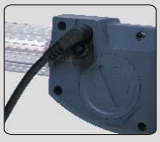
the next data display area is indicated in green

To be continued

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DATA OUTPUT CABLE SPECIFICATION

Code	Description	Plug to measuring tool	Connecting with measuring tool	Transmit data
7305-R21	cable for digital calipers (length 3m)			▪ Press the transmit button on the plug of cable, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R22	cable for large digital calipers (length 2.5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R30	cable for digital micrometers (length 2.5m)		  back	▪ Press the "data" button of digital micrometer, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once
7305-R40M	cable for digital indicators (length 2.5m)		 for **2108, 2138, 2139** series digital indicators	▪ Press the "DATA" button of digital indicator, can also press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once
			 for other digital indicators	▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R50M	cable for digital gages (length 2.5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R1150	cable for digital height gages (length 2. 5m)			▪ Press the transmit button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once

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1

DISPLAY UNIT
CODE 7106-1A

REFER TO PAGE 229 FOR DETAILS



connected with digital indicator



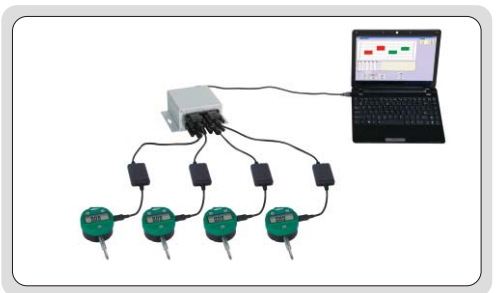
MULTICHANNEL INTERFACE BOXES

REFER TO PAGE 230 FOR DETAILS



7107-1

connected with digital indicators



HUBS

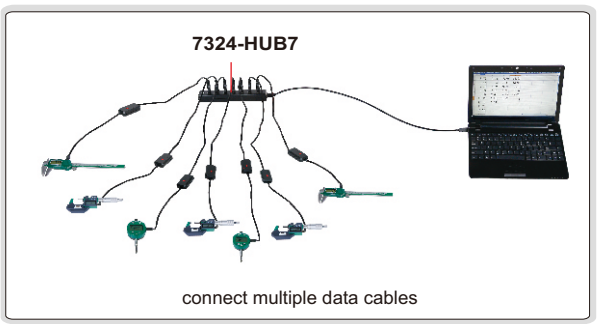


7324-HUB4



7324-HUB7

application



connect multiple data cables

- For USB plug data cable

Code	Description	Applicable products
7324-HUB4	4-channel hub (length 0.2m, USB computer plug)	**7302** series data cables
7324-HUB7	7-channel hub (length 1m, USB computer plug)	**7305** series data cables (USB plug)

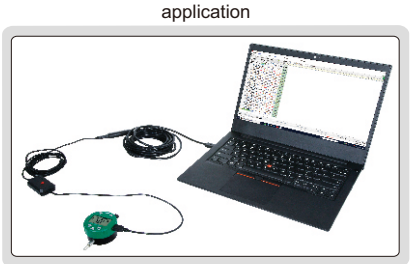
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EXTENSION CABLES



7325-ADD5

application



Code	Description	Applicable products
7325-ADD5	data extension cable (length 5m, USB plug)	**7302** series data cables **7305** series data cables (USB plug)
7325-ADD10	data extension cable (length 10m, USB plug)	

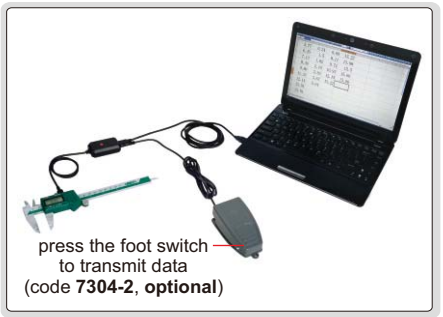
FOOT SWITCH

- For data transmission



7304-2

application



Code	Description	Applicable products
7304-2	data transmission foot switch with cable (length 2m)	**7302** series data cables **7305** series data cables

OK/NG INPUT SWITCHES



7327-FS



7327-SW

application



- Used with **7317** software, output OK or NG
- USB plug, length 1.5m

Code	Description
7327-FS	foot switch for OK/NG input
7327-SW	hand switch for OK/NG input

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02 CALIPERS

INSIZE



Digital Calipers
Page 19-26



Dial Calipers
Page 26



Vernier Calipers
Page 26-29



Depth Base Attachments
Page 29



Caliper/Height Gage Checkers
Page 30



Caliper End Grinding Machines
Page 30



Accessory Sets For Digital Calipers
Page 31-32



Large Digital Calipers
Page 32-35



Large Vernier Calipers
Page 35-37



Special Purpose Calipers
Page 38-64

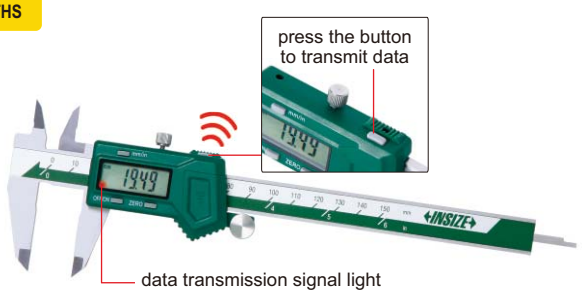
AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

WIRELESS DIGITAL CALIPERS

ATTENTION: THE WORKING LIFE OF A BATTERY IS ABOUT 3-5 MONTHS

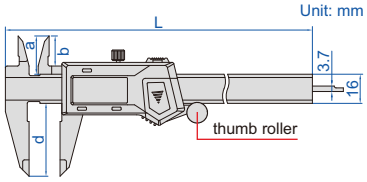
INSPECTION CERTIFICATE

VIDEO

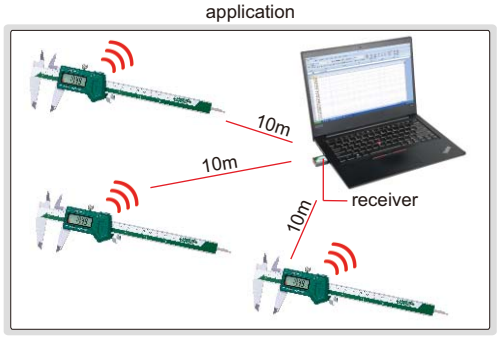


1113-150

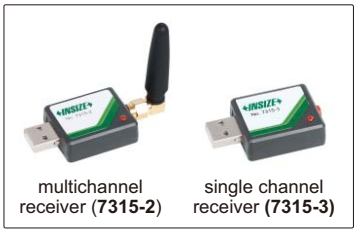
- Non waterproof
- Built-in wireless data transmission module, Zigbee signal
- Transmission distance is 10 meter (under the condition of no obstruction and no electromagnetic interference)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, data transmission
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: receiver (code **7315-2/3/6/7/8/9**)



application



receiver (**optional**)



(mm)

Code	Range	Accuracy	Thumb roller	L	a	b	d
1113-150*	0-150mm/0-6"	±0.03mm	with	236	21	16	40
1113-200*	0-200mm/0-8"	±0.03mm	with	286	24	19	50
1113-300*	0-300mm/0-12"	±0.03mm	with	400	25	20.5	60
1113-150W*	0-150mm/0-6"	±0.03mm	without	236	21	16	40
1113-200W*	0-200mm/0-8"	±0.03mm	without	286	24	19	50
1113-300W*	0-300mm/0-12"	±0.03mm	without	400	25	20.5	60

*Supplied with manufacturer inspection certificate

IP67 WATERPROOF DIGITAL CALIPERS

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

ATTENTION: NO DATA OUTPUT

IP67 WATERPROOF

INSPECTION CERTIFICATE

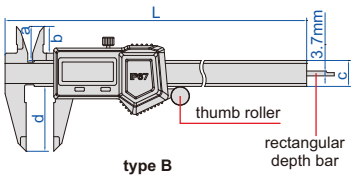


1118-150B

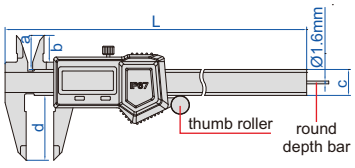


1118-150R

- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch, ABS/REL, hold
- Battery CR2032
- Meet DIN862
- Made of stainless steel



type B



type R

Code	Range	Accuracy	Thumb roller	Type	L	a	b	c	d
1118-150B*	0-150mm/0-6"	±0.03mm	with	B	236mm	21mm	16mm	16mm	40mm
1118-200B*	0-200mm/0-8"	±0.03mm	with	B	286mm	24mm	19mm	16mm	50mm
1118-300B*	0-300mm/0-12"	±0.03mm	with	B	400mm	25mm	20.5mm	16mm	60mm
1118-150BW*	0-150mm/0-6"	±0.03mm	without	B	236mm	21mm	16mm	16mm	40mm
1118-200BW*	0-200mm/0-8"	±0.03mm	without	B	286mm	24mm	19mm	16mm	50mm
1118-300BW*	0-300mm/0-12"	±0.03mm	without	B	400mm	25mm	20.5mm	16mm	60mm
1118-150R*	0-150mm/0-6"	±0.03mm	with	R	236mm	21mm	16mm	16mm	40mm
1118-150RW*	0-150mm/0-6"	±0.03mm	without	R	236mm	21mm	16mm	16mm	40mm

*Supplied with manufacturer inspection certificate

2

IP67 WATERPROOF DIGITAL CALIPERS

ATTENTION: NO DATA OUTPUT

IP67 WATERPROOF

INSPECTION CERTIFICATE

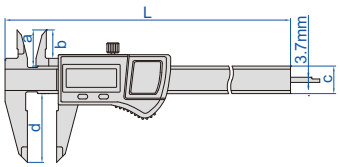
- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch
- Battery CR2032
- Automatic power off
- Meet DIN862
- Made of stainless steel



1115-150

Code	Range	Accuracy	L	a	b	c	d
1115-150 *	0-150mm/0-6"	±0.03mm	235mm	20mm	15mm	16mm	40mm
1115-200 *	0-200mm/0-8"	±0.03mm	287mm	24mm	19mm	16mm	50mm
1115-300 *	0-300mm/0-12"	±0.03mm	388mm	26mm	21mm	16mm	60mm

*Supplied with manufacturer inspection certificate



DIGITAL CALIPERS (ABSOLUTE SYSTEM)

DATA OUTPUT

INSPECTION CERTIFICATE

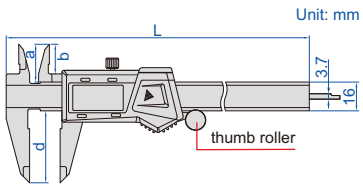
- Non waterproof
- Absolute system, low power consumption, long battery life
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, mm/inch, ORIGIN, ZERO/ABS
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: wireless transmitter, code **7315-22** page 4, data output cable (keyboard format), code **7302-22** page 12



1103-150

Code	Range	Accuracy	Thumb roller	L	a	b	d
1103-150*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16.5mm	40mm
1103-200*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19.5mm	50mm
1103-300*	0-300mm/0-12"	±0.03mm	with	400mm	26mm	21.5mm	60mm
1103-150W*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16.5mm	40mm
1103-200W*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19.5mm	50mm
1103-300W*	0-300mm/0-12"	±0.03mm	without	400mm	26mm	21.5mm	60mm

*Supplied with manufacturer inspection certificate



DIGITAL CALIPERS (FRACTION READING)

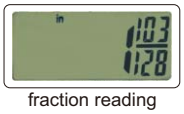
ATTENTION: NO DATA OUTPUT

INSPECTION CERTIFICATE

- Non waterproof
- Resolution: 0.01mm, 0.0005", 1/128"
- Buttons: unit (mm/in/fraction), ABS, on/off, zero
- Absolute and incremental measurement
- Battery CR2032, automatic power off
- Meet DIN862
- Made of stainless steel



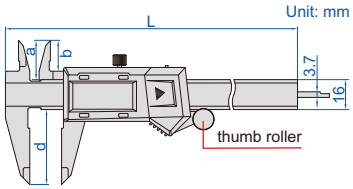
1102-150



fraction reading

Code	Range	Accuracy	Thumb roller	L	a	b	d
1102-150*	0-150mm/0-6"	±0.03mm	with	234mm	20mm	15mm	40mm
1102-200*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	50mm
1102-300*	0-300mm/0-12"	±0.03mm	with	390mm	26mm	21.5mm	60mm
1102-150W*	0-150mm/0-6"	±0.03mm	without	234mm	20mm	15mm	40mm
1102-200W*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	50mm
1102-300W*	0-300mm/0-12"	±0.03mm	without	390mm	26mm	21.5mm	60mm

*Supplied with manufacturer inspection certificate



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DIGITAL CALIPERS

ATTENTION: NO DATA OUTPUT

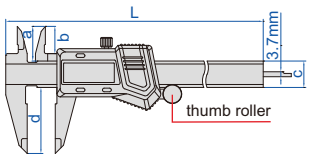
INSPECTION CERTIFICATE

- Non waterproof
- Zinc alloy housing for digital unit
- Resolution: 0.01mm/0.0005"
- Buttons: zero, on/off, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Meet DIN862
- Made of stainless steel



1114-150A

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1114-150A*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm
1114-200A*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	16mm	50mm
1114-300A*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	17mm	60mm
1114-150AW*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm
1114-200AW*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	16mm	50mm
1114-300AW*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	17mm	60mm



*Supplied with manufacturer inspection certificate

DIGITAL CALIPERS (STANDARD TYPE)

DATA OUTPUT

INSPECTION CERTIFICATE

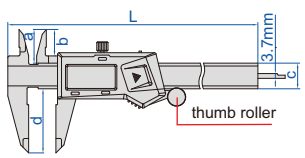
POPULAR MODEL

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable (code **7315-21** page 4**, 7302-21** page 12)



1108-150

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1108-150*	0-150mm/0-6"	±0.02mm	with	236mm	21mm	16mm	16mm	40mm
1108-200*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	16mm	50mm
1108-250*	0-250mm/0-10"	±0.03mm	with	350mm	25mm	20.5mm	16mm	60mm
1108-300*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	16mm	60mm
1108-150W*	0-150mm/0-6"	±0.02mm	without	236mm	21mm	16mm	16mm	40mm
1108-200W*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	16mm	50mm
1108-300W*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	16mm	60mm



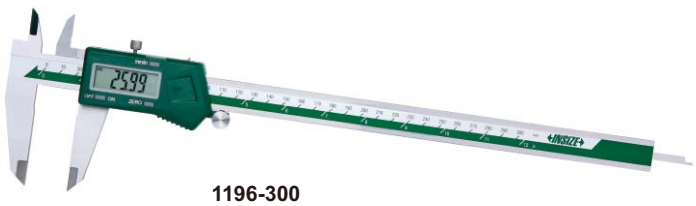
*Supplied with manufacturer inspection certificate

HEAVY DUTY 300mm DIGITAL CALIPERS

DATA OUTPUT

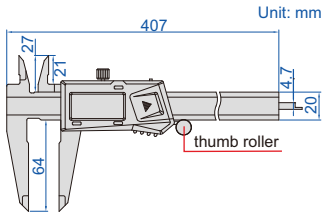
INSPECTION CERTIFICATE

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable (code **7315-22** page 4, **7302-22** page 12)



1196-300

Code	Range	Thumb roller	Accuracy
1196-300*	0-300mm/0-12"	with	±0.03mm
1196-300W*	0-300mm/0-12"	without	±0.03mm



*Supplied with manufacturer inspection certificate

METRIC DIGITAL CALIPERS

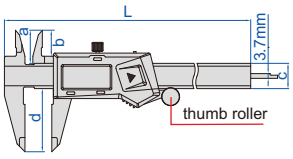
INSPECTION CERTIFICATE | LOCK READING WITH "HOLD" BUTTON | DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm
- Buttons: on/off, zero, hold
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable (code **7315-21** page 4, **7302-21** page 12)



1109-150

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1109-150*	0-150mm	±0.03mm	with	236mm	21mm	16mm	16mm	40mm
1109-200*	0-200mm	±0.03mm	with	286mm	24mm	19mm	16mm	50mm
1109-300*	0-300mm	±0.03mm	with	400mm	25mm	20.5mm	16mm	60mm
1109-150W*	0-150mm	±0.03mm	without	236mm	21mm	16mm	16mm	40mm
1109-200W*	0-200mm	±0.03mm	without	286mm	24mm	19mm	16mm	50mm
1109-300W*	0-300mm	±0.03mm	without	400mm	25mm	20.5mm	16mm	60mm



*Supplied with manufacturer inspection certificate

DIGITAL CALIPERS WITH ROUND DEPTH BAR

INSPECTION CERTIFICATE | DATA OUTPUT

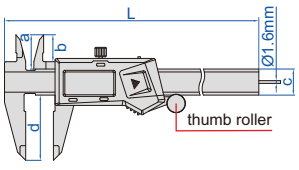


1119-150



round depth bar Ø1.6mm

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Meet DIN862
- Made of stainless steel



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1119-150*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm
1119-150W*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1119-150WL*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm
1119-150WWL*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm

*Supplied with manufacturer inspection certificate

DATA OUTPUT INSPECTION CERTIFICATE

LEFT HAND DIGITAL CALIPERS

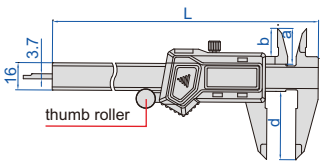
- Non waterproof
- Designed for left handed users
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable (code **7315-22** page 4, **7302-22** page 12)



1130-150

Code	Range	Accuracy	Thumb roller	L	a	b	d
1130-150*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	40mm
1130-200*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	50mm
1130-300*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	60mm
1130-150W*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	40mm
1130-200W*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	50mm
1130-300W*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	60mm

Unit: mm



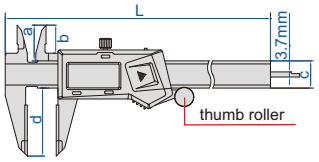
*Supplied with manufacturer inspection certificate

DATA OUTPUT INSPECTION CERTIFICATE

DIGITAL CALIPERS WITH CERAMIC TIPPED JAWS



1193-150



- Non waterproof
- Ceramic tipped jaws for outside measurement, extremely wear-resistant, non-magnetic and non electric conductive
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, made of stainless steel
- Meet DIN862

ceramic tipped jaws



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1193-150*	0-150mm/0-6"	±0.03mm	with	235mm	21mm	16.5mm	16mm	40mm
1193-200*	0-200mm/0-8"	±0.03mm	with	287mm	24mm	20mm	16mm	50mm
1193-300*	0-300mm/0-12"	±0.03mm	with	390mm	26mm	21.5mm	16mm	60mm
1193-150W*	0-150mm/0-6"	±0.03mm	without	235mm	21mm	16.5mm	16mm	40mm
1193-200W*	0-200mm/0-8"	±0.03mm	without	297mm	24mm	20mm	16mm	50mm
1193-300W*	0-300mm/0-12"	±0.03mm	without	390mm	26mm	21.5mm	16mm	60mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

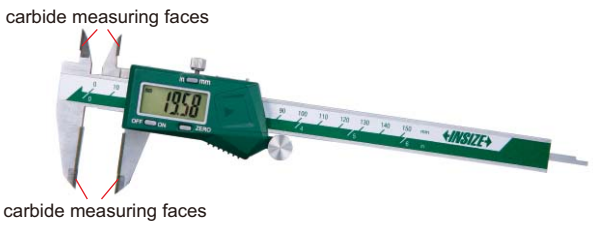
Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1193-150WL*	0-150mm/0-6"	±0.03mm	with	235mm	21mm	16.5mm	16mm	40mm
1193-200WL*	0-200mm/0-8"	±0.03mm	with	287mm	24mm	20mm	16mm	50mm
1193-300WL*	0-300mm/0-12"	±0.03mm	with	390mm	26mm	21.5mm	16mm	60mm
1193-150WWL*	0-150mm/0-6"	±0.03mm	without	235mm	21mm	16.5mm	16mm	40mm
1193-200WWL*	0-200mm/0-8"	±0.03mm	without	297mm	24mm	20mm	16mm	50mm
1193-300WWL*	0-300mm/0-12"	±0.03mm	without	390mm	26mm	21.5mm	16mm	60mm

*Supplied with manufacturer inspection certificate

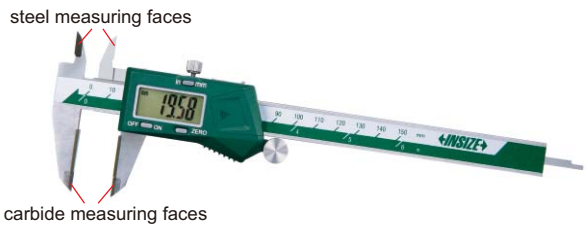
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DIGITAL CALIPERS WITH CARBIDE TIPPED JAWS

INSPECTION CERTIFICATE



1110-150A

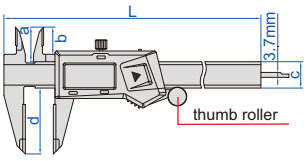


1110-150B

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Meet DIN862
- Made of stainless steel



1110-150C



Non waterproof, with data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	Thumb roller	L	a	b	c	d	Remark
1110-150A*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm	carbide tipped upper and lower jaws
1110-200A*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	16mm	50mm	carbide tipped upper and lower jaws
1110-300A*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	16mm	60mm	carbide tipped upper and lower jaws
1110-150AW*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm	carbide tipped upper and lower jaws
1110-200AW*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	16mm	50mm	carbide tipped upper and lower jaws
1110-300AW*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	16mm	60mm	carbide tipped upper and lower jaws
1110-150B*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm	carbide tipped lower jaws
1110-200B*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	16mm	50mm	carbide tipped lower jaws
1110-300B*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	16mm	60mm	carbide tipped lower jaws
1110-150BW*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm	carbide tipped lower jaws
1110-200BW*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	16mm	50mm	carbide tipped lower jaws
1110-300BW*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	16mm	60mm	carbide tipped lower jaws

Non waterproof, built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	Thumb roller	L	a	b	c	d	Remark
1110-150AWL*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm	carbide tipped upper and lower jaws
1110-200AWL*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	16mm	50mm	carbide tipped upper and lower jaws
1110-300AWL*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	16mm	60mm	carbide tipped upper and lower jaws
1110-150AWWL*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm	carbide tipped upper and lower jaws
1110-200AWWL*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	16mm	50mm	carbide tipped upper and lower jaws
1110-300AWWL*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	16mm	60mm	carbide tipped upper and lower jaws
1110-150BWL*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm	carbide tipped lower jaws
1110-200BWL*	0-200mm/0-8"	±0.03mm	with	286mm	24mm	19mm	16mm	50mm	carbide tipped lower jaws
1110-300BWL*	0-300mm/0-12"	±0.03mm	with	400mm	25mm	20.5mm	16mm	60mm	carbide tipped lower jaws
1110-150BWWL*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm	carbide tipped lower jaws
1110-200BWWL*	0-200mm/0-8"	±0.03mm	without	286mm	24mm	19mm	16mm	50mm	carbide tipped lower jaws
1110-300BWWL*	0-300mm/0-12"	±0.03mm	without	400mm	25mm	20.5mm	16mm	60mm	carbide tipped lower jaws

IP67 dust/waterproof, without data interface

Code	Range	Accuracy	Thumb roller	L	a	b	c	d	Remark
1110-150C*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm	carbide tipped upper and lower jaws
1110-150D*	0-150mm/0-6"	±0.03mm	with	236mm	21mm	16mm	16mm	40mm	carbide tipped lower jaws
1110-150CW*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm	carbide tipped upper and lower jaws
1110-150DW*	0-150mm/0-6"	±0.03mm	without	236mm	21mm	16mm	16mm	40mm	carbide tipped lower jaws

*Supplied with manufacturer inspection certificate

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DIGITAL CALIPERS

DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



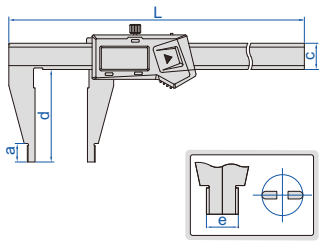
1170-300

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	a	c	d	e	L
1170-200	0-200mm/0-8"	±0.03mm	12mm	17mm	60mm	10mm	314mm
1170-306	0-300mm/0-12"	±0.04mm	12mm	17mm	60mm	10mm	420mm
1170-300	0-300mm/0-12"	±0.06mm	12mm	17mm	90mm	10mm	420mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	a	c	d	e	L
1170-200WL	0-200mm/0-8"	±0.03mm	12mm	17mm	60mm	10mm	314mm
1170-306WL	0-300mm/0-12"	±0.04mm	12mm	17mm	60mm	10mm	420mm
1170-300WL	0-300mm/0-12"	±0.06mm	12mm	17mm	90mm	10mm	420mm



DIGITAL CALIPERS

DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



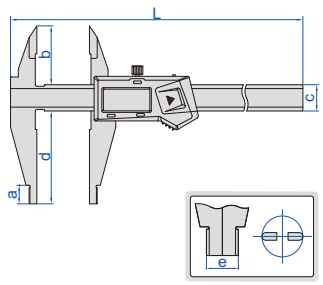
1171-300

With data interface (data output cable code 7315-21 page 4**, 7302-21** page 12, **optional)**

Code	Range	Accuracy	a	b	c	d	e	L
1171-200	0-200mm/0-8"	±0.03mm	12mm	38mm	17mm	60mm	10mm	320mm
1171-250	0-250mm/0-10"	±0.03mm	12mm	38mm	17mm	60mm	10mm	365mm
1171-306	0-300mm/0-12"	±0.04mm	12mm	38mm	17mm	60mm	10mm	420mm
1171-300	0-300mm/0-12"	±0.06mm	12mm	38mm	17mm	90mm	10mm	420mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	a	b	c	d	e	L
1171-200WL	0-200mm/0-8"	±0.03mm	12mm	38mm	17mm	60mm	10mm	320mm
1171-250WL	0-250mm/0-10"	±0.03mm	12mm	38mm	17mm	60mm	10mm	365mm
1171-306WL	0-300mm/0-12"	±0.04mm	12mm	38mm	17mm	60mm	10mm	420mm
1171-300WL	0-300mm/0-12"	±0.06mm	12mm	38mm	17mm	90mm	10mm	420mm



MINI DIGITAL CALIPERS

ATTENTION: NO DATA OUTPUT

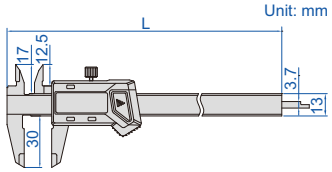
- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: zero, mm/inch, on/off
- Automatic power off, move the digital unit to turn on power
- Battery LR44
- Meet DIN862
- Made of stainless steel



1111-100A

Code	Range	Accuracy	L
1111-75A	0-75mm/0-3"	±0.02mm	144mm
1111-100A	0-100mm/0-4"	±0.02mm	170mm

Unit: mm



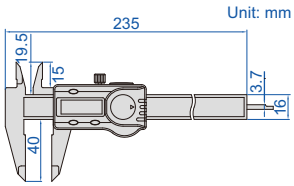
PLASTIC DIGITAL CALIPER

ATTENTION: NO DATA OUTPUT

- Non waterproof
- Made of hard plastic, non-magnetic and non electric conductive
- Prevent workpieces from scratching by calipers
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off



1139-150



Code	Range	Accuracy
1139-150	0-150mm/0-6"	±0.1mm

DIAL CALIPERS

SHOCK PROOF

INSPECTION CERTIFICATE

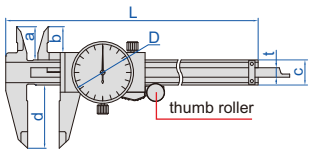
- Shockproof dial indicator
- Made of stainless steel



1312-150A

Dial indicator graduation: 0.02mm (mm)

Code	Range	Accuracy	Thumb roller	L	a	b	c	d	D	t
1312-150A*	0-150mm	±0.03mm	with	235	21	16.5	16	40	Ø39	6.5
1312-200A*	0-200mm	±0.03mm	with	288	24	19	16	48	Ø39	6.5
1312-300A*	0-300mm	±0.03mm	with	410	28	22	20	62	Ø44.5	7.5
1312-100AW*	0-100mm	±0.02mm	without	165	18	13	13	30	Ø32	6



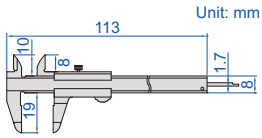
Dial indicator graduation: 0.01mm (mm)

Code	Range	Accuracy	Thumb roller	L	a	b	c	d	D	t
1311-150A*	0-150mm	±0.03mm	with	235	21	16.5	16	40	Ø39	6.5
1311-200A*	0-200mm	±0.03mm	with	288	24	19	16	48	Ø39	6.5
1311-300A*	0-300mm	±0.03mm	with	410	28	22	20	62	Ø44.5	7.5

*Supplied with manufacturer inspection certificate

MINI VERNIER CALIPERS

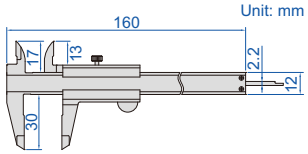
- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface





1204-70

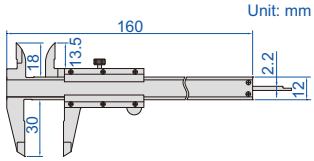
Code	Range	Graduation	Accuracy
1204-70	0-70mm	0.05mm	±0.05mm





1203-1003

Code	Range	Graduation	Accuracy
1203-1003	0-100mm	0.05mm	±0.05mm





1201-1003

Code	Range	Graduation	Accuracy
1201-1003	0-100mm	0.05mm	±0.05mm

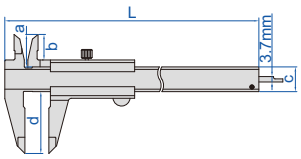
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VERNIER CALIPERS

POPULAR MODEL



1205-150S



Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	L	a	b	c	d
1205-150S	0-150mm/0-6"	±0.05mm	235	20.5	15.5	16	40
1205-200S	0-200mm/0-8"	±0.05mm	290	23.5	19	17	50
1205-250S	0-250mm/0-10"	±0.05mm	364	27.5	22	20	64
1205-300S	0-300mm/0-12"	±0.05mm	414	27.5	22	20	64

Graduation 0.05mm (mm)

Code	Range	Accuracy	L	a	b	c	d
1205-1503S	0-150mm	±0.05mm	235	20.5	15.5	16	40
1205-2003S	0-200mm	±0.05mm	290	23.5	19	17	50
1205-2503S	0-250mm	±0.05mm	350	26	21.5	16	60
1205-3003S	0-300mm	±0.05mm	414	27.5	22	20	64

Graduation 0.02mm/0.001" (mm)

Code	Range	Accuracy	L	a	b	c	d
1205-1502S	0-150mm/0-6"	±0.03mm	235	20.5	15.5	16	40
1205-2002S	0-200mm/0-8"	±0.03mm	290	23.5	19	17	50
1205-2502S	0-250mm/0-10"	±0.03mm	364	27.5	22	20	64
1205-3002S	0-300mm/0-12"	±0.03mm	414	27.5	22	20	64

Graduation 0.02mm (mm)

Code	Range	Accuracy	L	a	b	c	d
1205-1501S	0-150mm	±0.03mm	235	20.5	15.5	16	40
1205-2001S	0-200mm	±0.03mm	290	23.5	19	17	50
1205-2501S	0-250mm	±0.03mm	350	26	21.5	16	60
1205-3001S	0-300mm	±0.03mm	414	27.5	22	20	64

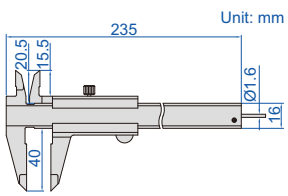
- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface

VERNIER CALIPER WITH ROUND DEPTH BAR

- Graduation 0.05mm/1/128"
- Round depth bar
- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface



1202-150



Code	Range	Accuracy
1202-150	0-150mm/0-6"	±0.05mm

VERNIER CALIPERS WITH FINE ADJUSTMENT

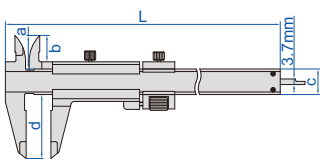
- Graduation 0.02mm/0.001"
- With fine adjustment
- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface



1233-130

(mm)

Code	Range	Accuracy	L	a	b	c	d
1233-130	0-130mm/0-5"	±0.03mm	230	20.5	16.5	16	40
1233-180	0-180mm/0-7"	±0.03mm	295	23.5	19	16	50
1233-280	0-280mm/0-11"	±0.03mm	410	26	20	20	60



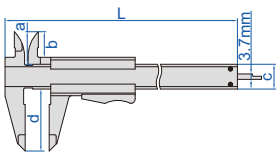
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VERNIER CALIPERS WITH THUMB CLAMP

- Meet DIN862
- With thumb clamp
- Made of stainless steel
- Satin chrome plated reading surface



1223-150



Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	L	a	b	c	d
1223-150	0-150mm/0-6"	±0.05mm	230	20.5	16.5	16	40
1223-200	0-200mm/0-8"	±0.05mm	295	23.5	19	16	50

Graduation 0.02mm/0.001" (mm)

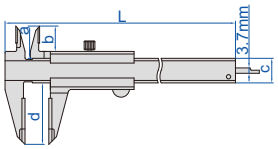
Code	Range	Accuracy	L	a	b	c	d
1223-1502	0-150mm/0-6"	±0.03mm	230	20.5	16.5	16	40
1223-2002	0-200mm/0-8"	±0.03mm	295	23.5	19	16	50

VERNIER CALIPERS WITH CARBIDE TIPPED JAWS

- Carbide tipped jaws for inside and outside measurements
- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface



1238-150



Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	L	a	b	c	d
1238-150	0-150mm/0-6"	±0.05mm	230	21	16.5	16	40
1238-200	0-200mm/0-8"	±0.05mm	295	24	19	16	50
1238-300	0-300mm/0-12"	±0.05mm	410	25	20	16	60

Graduation 0.02mm/0.001" (mm)

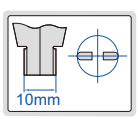
Code	Range	Accuracy	L	a	b	c	d
1238-1502	0-150mm/0-6"	±0.03mm	230	21	16.5	16	40
1238-2002	0-200mm/0-8"	±0.03mm	295	24	19	16	50
1238-3002	0-300mm/0-12"	±0.03mm	410	25	20	16	60

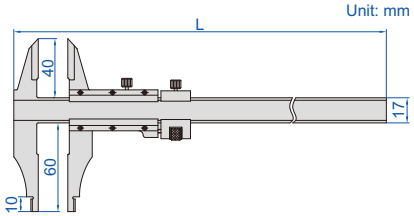
VERNIER CALIPERS



1217-3001

- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface





Code	Range	Graduation	Accuracy	L
1217-2503	0-250mm	0.05mm	±0.05mm	360mm
1217-3001	0-300mm	0.02mm	±0.03mm	410mm

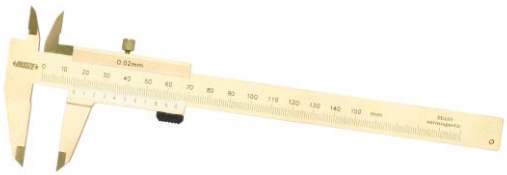
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VERNIER CALIPERS (ANTI MAGNETIC)

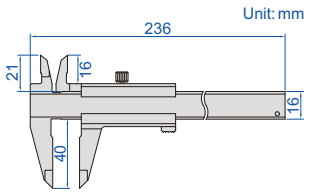
ATTENTION: NOT HARDENED

PURE COPPER

- Suitable for magnetic parts
- Made of pure copper



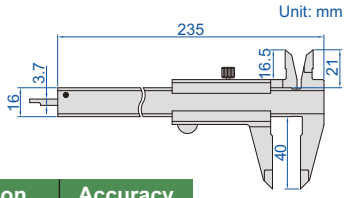
1224-150A



Code	Range	Graduation	Accuracy
1224-150A	0-150mm	0.02mm	±0.05mm
1224-1501A	0-150mm	0.05mm	±0.05mm

LEFT HAND VERNIER CALIPERS

- Designed for left handed users
- Made of stainless steel
- Satin chrome plated reading surface





1239-1502

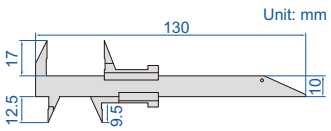
Code	Range	Graduation	Accuracy
1239-150	0-150mm/0-6"	0.05mm/1/128"	±0.05mm
1239-1503	0-150mm	0.05mm	±0.05mm
1239-1502	0-150mm/0-6"	0.02mm/0.001"	±0.03mm
1239-1501	0-150mm	0.02mm	±0.03mm

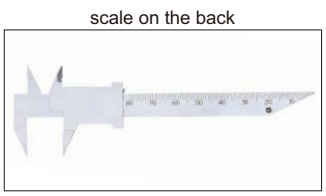
TEETH VERNIER CALIPER



1226-70

- Used for teeth
- Made of stainless steel

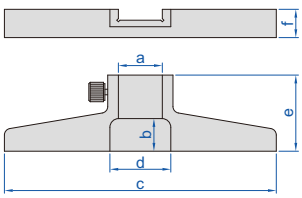




Code	Range	Graduation	Accuracy
1226-70	0-70mm	0.1mm	±0.1mm

DEPTH BASE ATTACHMENTS







6140



6140-16B

- To increase the stability of depth measurement
- Suitable for digital calipers and dial calipers
- Made of stainless steel

(mm)

Code	a	b	c	d	e	f	Type	Application
6140	16.5	9	75	18	30	6	narrow base (f=6)	suitable for calipers with beam width (w) 16mm
6140-300A	20	15	125	22	34	9	narrow base (f=9)	suitable for calipers with beam width (w) 20mm
6140-16B	16	12.5	75	24.5	30	11	wide base (f=11), high stability	suitable for calipers with beam width (w) 16mm
6140-300B	20	15	125	28	35	13	wide base (f=13), high stability	suitable for calipers with beam width (w) 20mm

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2

CALIPER INSPECTION GAGE BLOCK AND RING GAGE SETS

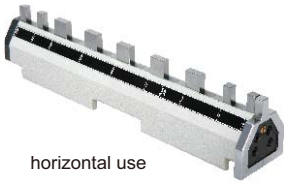
REFER TO PAGE 290 FOR DETAILS



4176-30

CALIPER/HEIGHT GAGE CHECKERS

REFER TO PAGE 296 FOR DETAILS



horizontal use



vertical use

6884-300

CALIPER END GRINDING MACHINE CODE 6309

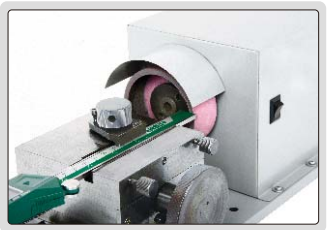
VIDEO

- Used for grinding the depth measuring surface of the end of calipers



on/off

application



SPECIFICATION

Power supply	220V, 50/60Hz
Dimension (L×W×H)	370×200×160mm
Weight	15kg

CALIPER/MICROMETER LAPPING MACHINE CODE 6318

REFER TO PAGE 152 FOR DETAILS

- For lapping measuring surfaces of caliper lower jaws



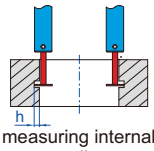
lapping measuring surfaces of caliper lower jaws



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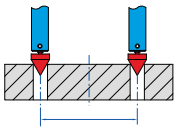
ACCESSORY SET FOR DIGITAL CALIPERS CODE 6144





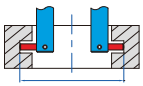
measuring internal groove diameter (h≤3.5mm)





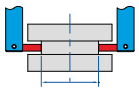
measuring center distance





spherical points for groove diameter (inside hole) measurement

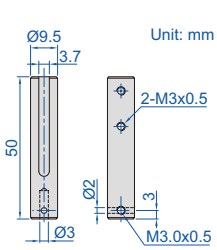


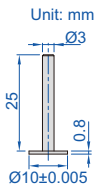


flat points for external groove diameter measurement

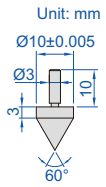


6144

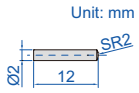




disk points (stainless steel)



conical points (stainless steel)



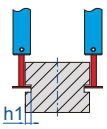
spherical/flat points (stainless steel)

- Suitable for 0-150mm/0-6" and 0-200mm/0-8" digital calipers (thickness of lower jaws≤3.7mm)

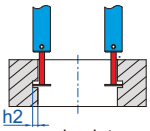
Code
6144

ACCESSORY SET FOR LARGE DIGITAL CALIPERS CODE 6145-500



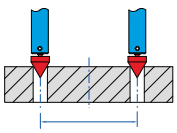


measuring external groove diameter (h1≤7mm)



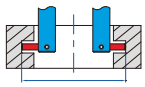
measuring internal groove diameter (h2≤7mm)





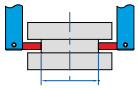
measuring center distance





spherical points for groove diameter (inside hole) measurement

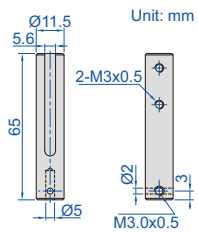


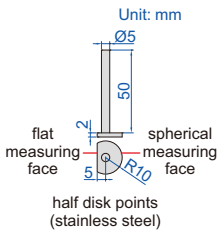


flat points for external groove diameter measurement

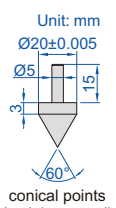


6145-500

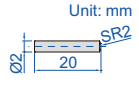




half disk points (stainless steel)



conical points (stainless steel)



spherical/flat points (stainless steel)

- Suitable for 0-500mm/0-20" and 0-600mm/0-24" digital calipers (thickness of lower jaws≤5.6mm)

Code
6145-500

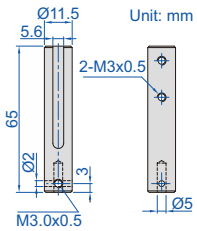
2

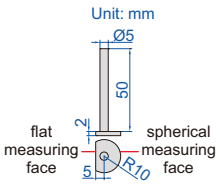
ACCESSORY SET FOR LARGE DIGITAL CALIPERS (WITH SIDE POINTS) CODE 6146-500B

VIDEO

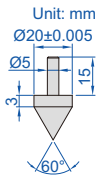


6146-500B

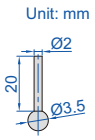




half disk points (stainless steel)

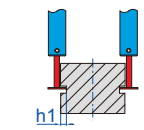


conical points (stainless steel)

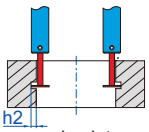


ball points (stainless steel)



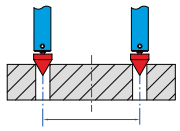


measuring external groove diameter (h1≤7mm)



measuring internal groove diameter (h2≤7mm)

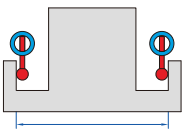




measuring center distance







measuring slot width

- Suitable for 0-500mm/0-20" and 0-600mm/0-24" digital calipers (thickness of lower jaws≤5.6mm)

Code
6146-500B

IP65 WATERPROOF DIGITAL CALIPERS

IP65 WATERPROOF

DATA OUTPUT



1173-601

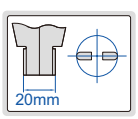
- IP65 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Automatic power off
- Made of stainless steel

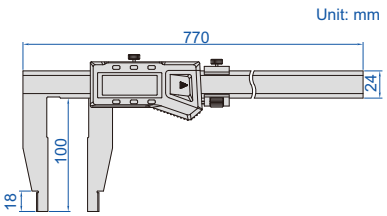
With data interface (data output cable code 7302-1104, wireless transmitter code 7315-1104, optional)

Code	Range	Accuracy
1173-601	0-600mm/0-24"	±0.05mm

Built in bluetooth

Code	Range	Accuracy
1173-601WL	0-600mm/0-24"	±0.05mm





DIGITAL CALIPERS

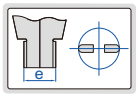
DATA OUTPUT

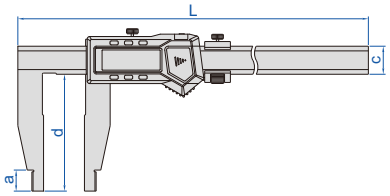
POPULAR MODEL



1106-501

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Made of stainless steel





With data interface

Code	Range	Accuracy	a	c	d	e	L	Data output cable (optional)
1106-301	0-300mm/0-12"	±0.05mm	18mm	24mm	100mm	20mm	420mm	**7315-22** page 4, **7302-22** page 12
1106-302	0-300mm/0-12"	±0.05mm	18mm	24mm	150mm	20mm	420mm	**7315-22** page 4, **7302-22** page 12
1106-451	0-450mm/0-18"	±0.05mm	18mm	24mm	100mm	20mm	625mm	**7315-22** page 4, **7302-22** page 12
1106-501	0-500mm/0-20"	±0.05mm	18mm	24mm	100mm	20mm	675mm	**7315-22** page 4, **7302-22** page 12
1106-502	0-500mm/0-20"	±0.06mm	18mm	24mm	150mm	20mm	675mm	**7315-22** page 4, **7302-22** page 12
1106-503	0-500mm/0-20"	±0.06mm	24mm	31mm	200mm	20mm	675mm	**7315-22** page 4, **7302-22** page 12
1106-505	0-500mm/0-20"	±0.08mm	24mm	42mm	300mm	20mm	675mm	**7315-22** page 4, **7302-22** page 12
1106-601	0-600mm/0-24"	±0.05mm	18mm	24mm	100mm	20mm	770mm	**7315-22** page 4, **7302-22** page 12
1106-602	0-600mm/0-24"	±0.06mm	18mm	24mm	150mm	20mm	770mm	**7315-22** page 4, **7302-22** page 12
1106-603	0-600mm/0-24"	±0.06mm	24mm	31mm	200mm	20mm	770mm	**7315-22** page 4, **7302-22** page 12
1106-802	0-800mm/0-32"	±0.07mm	24mm	31mm	150mm	20mm	1025mm	**7315-22** page 4, **7302-22** page 12
1106-1002	0-1000mm/0-40"	±0.08mm	24mm	31mm	150mm	20mm	1220mm	**7315-22** page 4, **7302-22** page 12
1106-1003	0-1000mm/0-40"	±0.08mm	24mm	31mm	200mm	20mm	1220mm	**7315-22** page 4, **7302-22** page 12
1106-1005	0-1000mm/0-40"	±0.10mm	24mm	42mm	300mm	20mm	1220mm	**7315-20B**, **7302-SPC1A**
1106-1502	0-1500mm/0-60"	±0.11mm	24mm	42mm	150mm	20mm	1780mm	**7315-20B**, **7302-SPC1A**
1106-1503	0-1500mm/0-60"	±0.12mm	24mm	42mm	200mm	20mm	1780mm	**7315-20B**, **7302-SPC1A**
1106-2002	0-2000mm/0-80"	±0.14mm	24mm	42mm	150mm	20mm	2290mm	**7315-20B**, **7302-SPC1A**
1106-2003	0-2000mm/0-80"	±0.14mm	24mm	42mm	200mm	20mm	2290mm	**7315-20B**, **7302-SPC1A**
1106-2502	0-2500mm/0-100"	±0.22mm	24mm	42mm	150mm	20mm	2800mm	**7315-20B**, **7302-SPC1A**
1106-3002	0-3000mm/0-120"	±0.26mm	24mm	42mm	150mm	20mm	3300mm	**7315-20B**, **7302-SPC1A**

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	a	c	d	e	L
1106-301WL	0-300mm/0-12"	±0.05mm	18mm	24mm	100mm	20mm	420mm
1106-302WL	0-300mm/0-12"	±0.05mm	18mm	24mm	150mm	20mm	420mm
1106-451WL	0-450mm/0-18"	±0.05mm	18mm	24mm	100mm	20mm	625mm
1106-501WL	0-500mm/0-20"	±0.05mm	18mm	24mm	100mm	20mm	675mm
1106-502WL	0-500mm/0-20"	±0.06mm	18mm	24mm	150mm	20mm	675mm
1106-601WL	0-600mm/0-24"	±0.05mm	18mm	24mm	100mm	20mm	770mm
1106-602WL	0-600mm/0-24"	±0.06mm	18mm	24mm	150mm	20mm	770mm

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DIGITAL CALIPERS

DATA OUTPUT

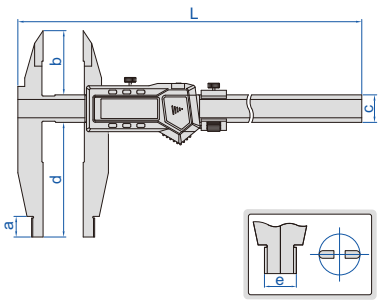
- Non waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Made of stainless steel



1117-501

With data interface (data output cable code 7315-22 page 4, **7302-22** page 12, **optional)**

Code	Range	Accuracy	a	b	c	d	e	L
1117-301	0-300mm/0-12"	±0.05mm	18mm	56mm	24mm	100mm	20mm	420mm
1117-501	0-500mm/0-20"	±0.05mm	18mm	56mm	24mm	100mm	20mm	675mm
1117-502	0-500mm/0-20"	±0.06mm	24mm	56mm	24mm	150mm	20mm	675mm
1117-601	0-600mm/0-24"	±0.05mm	18mm	56mm	24mm	100mm	20mm	770mm
1117-802	0-800mm/0-32"	±0.07mm	24mm	67mm	31mm	150mm	20mm	1025mm
1117-1002	0-1000mm/0-40"	±0.08mm	24mm	67mm	31mm	150mm	20mm	1220mm



Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	a	b	c	d	e	L
1117-301WL	0-300mm/0-12"	±0.05mm	18mm	56mm	24mm	100mm	20mm	420mm
1117-501WL	0-500mm/0-20"	±0.05mm	18mm	56mm	24mm	100mm	20mm	675mm
1117-502WL	0-500mm/0-20"	±0.06mm	24mm	56mm	24mm	150mm	20mm	675mm
1117-601WL	0-600mm/0-24"	±0.05mm	18mm	56mm	24mm	100mm	20mm	770mm

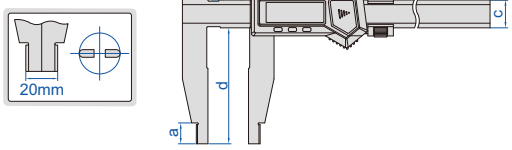
DIGITAL CALIPERS

DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Made of stainless steel



1136-501



With data interface
(data output cable code 7315-22 page 4, **7302-22** page 12, **optional, for calipers with c=24mm or 31mm)** **(mm)**

Code	Range	Accuracy	a	b	c	d	L
1136-301	0-300mm/0-12"	±0.05mm	18	45	24	100	420
1136-451	0-450mm/0-18"	±0.05mm	18	45	24	100	625
1136-501	0-500mm/0-20"	±0.05mm	18	45	24	100	675
1136-502	0-500mm/0-20"	±0.06mm	18	45	24	150	675
1136-503	0-500mm/0-20"	±0.06mm	24	60	31	200	675
1136-601	0-600mm/0-24"	±0.05mm	18	45	24	100	770
1136-1002	0-1000mm/0-40"	±0.08mm	24	60	31	150	1220
1136-1502	0-1500mm/0-60"	±0.11mm	24	60	42	150	1780
1136-2002	0-2000mm/0-80"	±0.14mm	24	60	42	150	2290

Built-in wireless
(receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range	Accuracy	a	b	c	d	L
1136-301WL	0-300mm/0-12"	±0.05mm	18	45	24	100	420
1136-451WL	0-450mm/0-18"	±0.05mm	18	45	24	100	625
1136-501WL	0-500mm/0-20"	±0.05mm	18	45	24	100	675
1136-502WL	0-500mm/0-20"	±0.06mm	18	45	24	150	675
1136-601WL	0-600mm/0-24"	±0.05mm	18	45	24	100	770

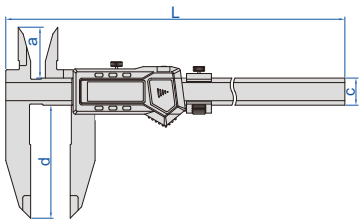
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DIGITAL CALIPERS

DATA OUTPUT



1135-601



- Non waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Made of stainless steel

With data interface (data output cable code 7315-22 page 4, **7302-22** page 12, **optional)** **(mm)**

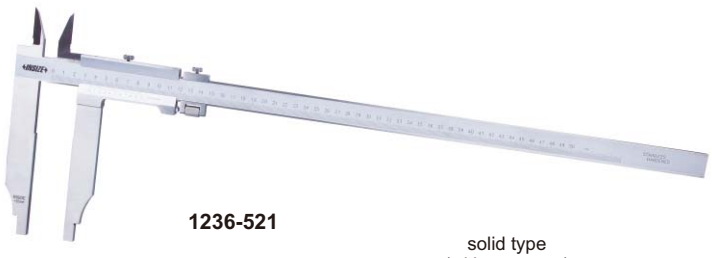
Code	Range	Accuracy	a	c	d	L
1135-451	0-450mm/0-18"	±0.05mm	45	24	100	625
1135-601	0-600mm/0-24"	±0.05mm	45	24	100	770
1135-1002	0-1000mm/0-40"	±0.08mm	60	31	150	1220

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

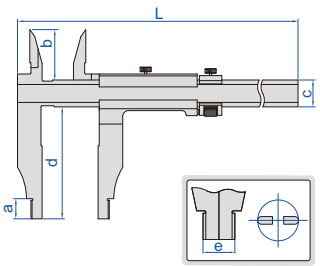
Code	Range	Accuracy	a	c	d	L
1135-451WL	0-450mm/0-18"	±0.05mm	45	24	100	625
1135-601WL	0-600mm/0-24"	±0.05mm	45	24	100	770

VERNIER CALIPERS (SOLID TYPE)

- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface



1236-521



solid type (without screw)



Graduation 0.05mm/1/128" **(mm)**

Code	Range	Accuracy	a	b	c	d	e	L
1236-394	0-300mm/0-12"	±0.07mm	12	38	20	90	10	450
1236-514	0-500mm/0-20"	±0.07mm	18	45	24	100	20	670
1236-524	0-500mm/0-20"	±0.08mm	18	45	24	150	20	670
1236-614	0-600mm/0-24"	±0.08mm	18	45	24	100	20	770
1236-824	0-800mm/0-32"	±0.09mm	24	60	31	150	20	1030
1236-1024	0-1000mm/0-40"	±0.12mm	24	60	31	150	20	1230

Graduation 0.02mm **(mm)**

Code	Range	Accuracy	a	b	c	d	e	L
1236-511	0-500mm	±0.05mm	18	45	24	100	20	670
1236-521	0-500mm	±0.06mm	18	45	24	150	20	670
1236-1021	0-1000mm	±0.08mm	24	60	31	150	20	1230

VERNIER CALIPERS (SOLID TYPE)

- Graduation 0.05mm/1/128"
- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface



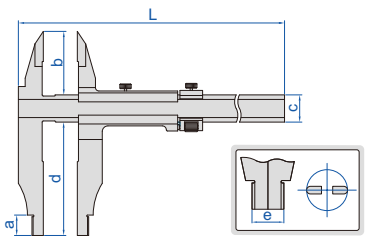
1207-514

(mm)

Code	Range	Accuracy	a	b	c	d	e	L
1207-394	0-300mm/0-12"	±0.07mm	12	40	20	90	10	440
1207-514	0-500mm/0-20"	±0.07mm	18	56	24	100	20	670
1207-524	0-500mm/0-20"	±0.08mm	18	56	24	150	20	670
1207-824	0-800mm/0-32"	±0.09mm	24	67	31	150	20	930
1207-1024	0-1000mm/0-40"	±0.12mm	24	67	31	150	20	1230

solid type (without screw)





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VERNIER CALIPERS (SOLID TYPE)

- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface



1208-511

Graduation 0.05mm/1/128" **(mm)**

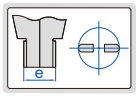
Code	Range	Accuracy	a	c	d	e	L
1208-214	0-200mm/0-8"	±0.06mm	10	20	100	10	330
1208-394	0-300mm/0-12"	±0.07mm	10	20	90	10	410
1208-324	0-300mm/0-12"	±0.07mm	18	24	150	20	410
1208-524	0-500mm/0-20"	±0.08mm	18	24	150	20	670
1208-614	0-600mm/0-24"	±0.08mm	18	24	100	20	770
1208-624	0-600mm/0-24"	±0.09mm	18	24	150	20	770
1208-824	0-800mm/0-32"	±0.09mm	24	31	150	20	1030
1208-1024	0-1000mm/0-40"	±0.12mm	24	31	150	20	1230
1208-1524	0-1500mm/0-60"	±0.16mm	24	42	150	20	1820
1208-2024	0-2000mm/0-80"	±0.20mm	24	42	150	20	2330

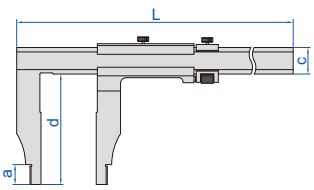
solid type
(without screw)



Graduation 0.02mm **(mm)**

Code	Range	Accuracy	a	c	d	e	L
1208-511	0-500mm	±0.05mm	18	24	100	20	670
1208-521	0-500mm	±0.06mm	18	24	150	20	670
1208-1021	0-1000mm	±0.08mm	24	31	150	20	1230
1208-1521	0-1500mm	±0.11mm	24	42	150	20	1820





VERNIER CALIPERS (SOLID TYPE)

- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface



1210-611

Graduation 0.05mm/1/128" **(mm)**

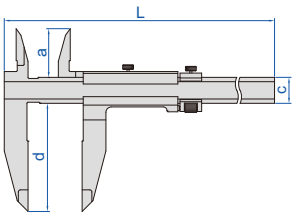
Code	Range	Accuracy	a	c	d	L
1210-614	0-600mm/0-24"	±0.08mm	45	24	100	770
1210-1024	0-1000mm/0-40"	±0.12mm	60	31	150	1230

Graduation 0.02mm **(mm)**

Code	Range	Accuracy	a	c	d	L
1210-611	0-600mm	±0.05mm	45	24	100	770
1210-1021	0-1000mm	±0.08mm	60	31	150	1230

solid type
(without screw)





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VERNIER CALIPERS (SEPARATE TYPE)

POPULAR MODEL

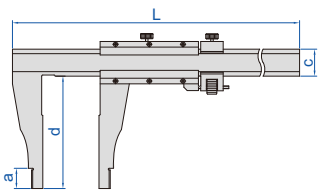
- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface

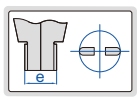


1214-500

Graduation 0.02mm/0.001" (mm)

Code	Range	Accuracy	a	c	d	e	L
1214-300	0-300mm/0-12"	±0.05mm	10	20	75	10	410
1214-450	0-450mm/0-18"	±0.05mm	18	24	100	20	620
1214-500	0-500mm/0-20"	±0.05mm	18	24	100	20	670
1214-600	0-600mm/0-24"	±0.05mm	18	24	100	20	770
1214-1000	0-1000mm/0-40"	±0.08mm	24	32	140	20	1216
1214-1500	0-1500mm/0-60"	±0.12mm	24	42	200	20	1830
1214-2000	0-2000mm/0-80"	±0.14mm	24	42	200	20	2320





separate type (with screws)



Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	a	c	d	e	L
1214-6004	0-600mm/0-24"	±0.08mm	18	24	100	20	770
1214-1004	0-1000mm/0-40"	±0.12mm	24	32	140	20	1216

LONG JAW VERNIER CALIPERS (SEPARATE TYPE)

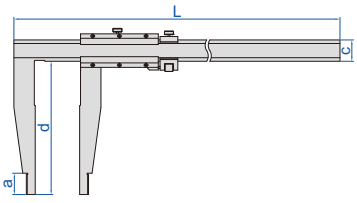
- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface

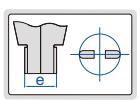


1215-1032

Graduation 0.02mm/0.001" (mm)

Code	Range	Accuracy	a	c	d	e	L
1215-392	0-300mm/0-12"	±0.05mm	10	17	90	10	410
1215-322	0-300mm/0-12"	±0.05mm	18	24	150	20	470
1215-522	0-500mm/0-20"	±0.06mm	18	24	150	20	670
1215-532	0-500mm/0-20"	±0.06mm	18	24	200	20	670
1215-622	0-600mm/0-24"	±0.06mm	18	24	150	20	770
1215-642	0-600mm/0-24"	±0.08mm	24	32	250	20	870
1215-822	0-800mm/0-32"	±0.07mm	24	32	150	20	1020
1215-832	0-800mm/0-32"	±0.07mm	24	32	200	20	1020
1215-1032	0-1000mm/0-40"	±0.08mm	24	32	200	20	1220
1215-1052	0-1000mm/0-40"	±0.11mm	24	42	300	20	1330
1215-3052	0-3000mm/0-120"	±0.26mm	24	50	300	20	3360





separate type (with screws)



Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	a	c	d	e	L
1215-524	0-500mm/0-20"	±0.08mm	18	24	150	20	670
1215-1034	0-1000mm/0-40"	±0.12mm	24	32	200	20	1330

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UNIVERSAL CALIPERS

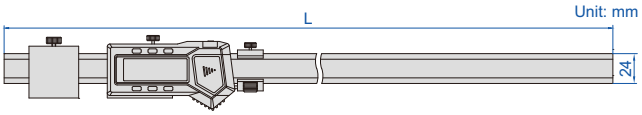
DATA OUTPUT

VIDEO



1125-600

- Non waterproof
- Buttons: on/off, set, mm/inch, ABS, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface
(data output cable code 7315-22 page 4, **7302-22** page 12, **optional)**

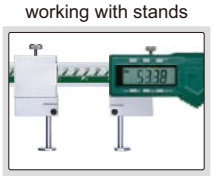
Code	Range*	Resolution	Accuracy	L
1125-600	0-600mm/0-24"	0.01mm/0.0005"	±0.05mm	778mm
1125-1000	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1205mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

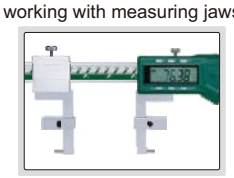
Code	Range*	Resolution	Accuracy	L
1125-600WL	0-600mm/0-24"	0.01mm/0.0005"	±0.05mm	778mm
1125-1000WL	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1205mm

*The range changes according to different points

working with stands

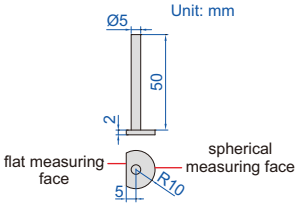


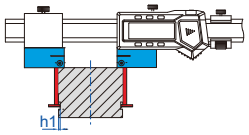
working with measuring jaws



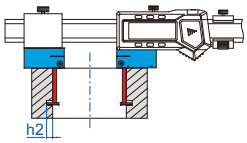
Half disk points (included)







measuring external groove diameter with flat measuring face (depth h1≤2.5mm)

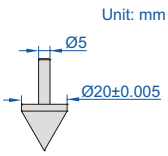


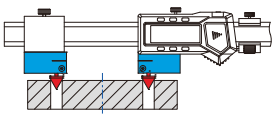
measuring internal groove diameter with spherical measuring face (depth h2≤7.5mm)

Conical points (optional)



Code
1125-T101



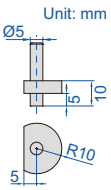


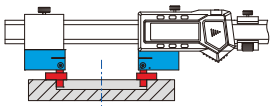
measuring center distance

Round shoulder points (optional)



Code
1125-T102



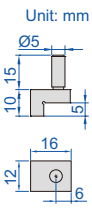


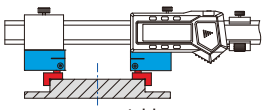
measure inside diameter of shallow hole

Flat shoulder points (optional)



Code
1125-T103

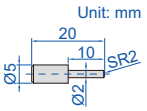


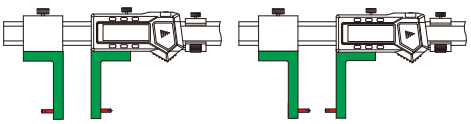


measure outside diameter of low boss

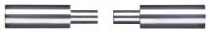
Spherical points (included)

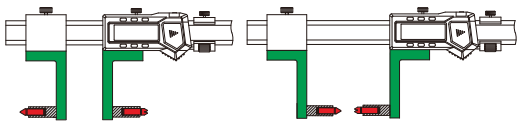






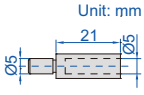
Point sleeve (optional)





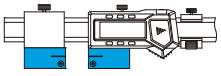
working with multifunctional points, ball points and screw thread points

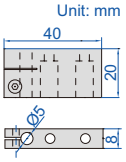
Code
1125-T104



Stands (included)





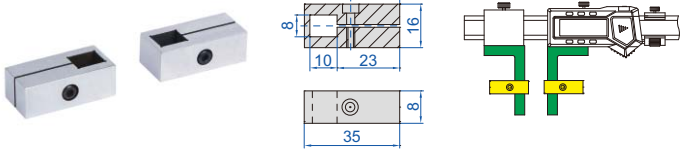


To be continued

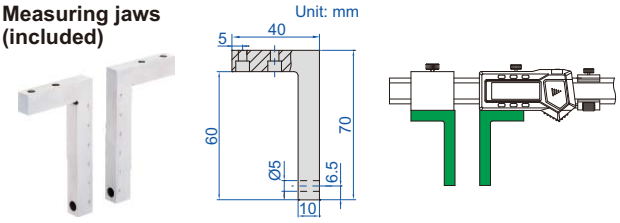
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Continued from previous page

Depth stop (included)



Measuring jaws (included)



Multifunctional points 7392* **(optional**, page 40)



Ball points 7391* **(optional**, page 40)



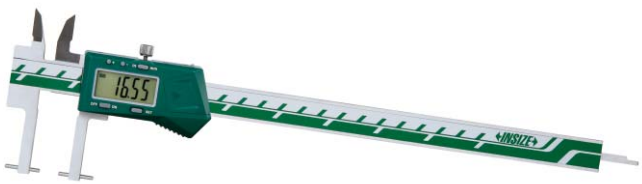
Screw thread points 7381*, 7321* **(optional,** page 40)



*It is necessary to use point sleeve (code **1125-T104**) for these points

DATA OUTPUT

DIGITAL CALIPERS WITH INTERCHANGEABLE POINTS



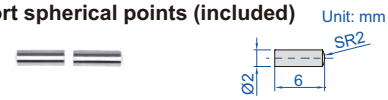
1526-200

- Non waterproof
- Supplied with 3 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: points

preset buttons



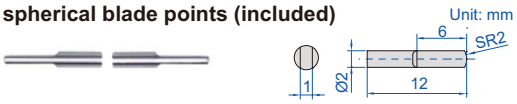
short spherical points (included)

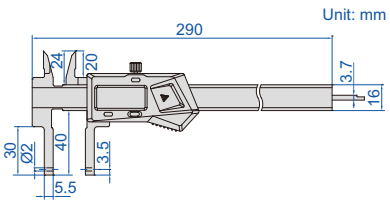


long spherical/flat points (included)



spherical blade points (included)





With data interface

Code	Data output cable (optional)
1526-200	code **7315-21** page 4, **7302-21** page 12

Built-in wireless

Code	Receiver (optional)
1526-200WL	code **7315-2/3/6/7/8/9**

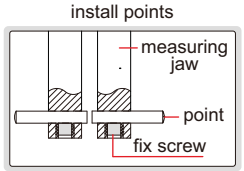
Point	Range	Accuracy	Application
short spherical points	12-212mm/0.5-8.5" (internal)	±0.03mm	for grooves inside small hole
long spherical/flat points	24-224mm/1-8.8" (internal) 0-187mm/0-7.5" (external)	±0.03mm	spherical points for grooves inside hole flat points for external grooves
spherical blade points	24-224mm/1-8.8" (internal) 0-187mm/0-7.5" (external)	±0.03mm	for narrow grooves inside hole

VIDEO

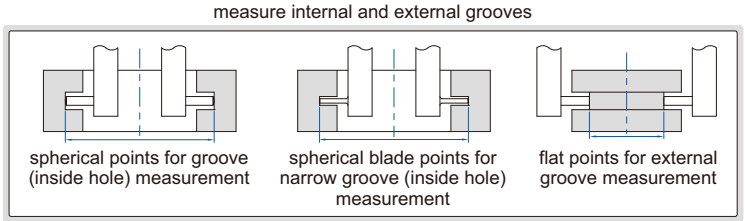
zero setting block for external measurement (included)



install points



measure internal and external grooves



To be continued

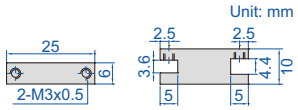
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Continued from previous page

2

Depth stop (optional)

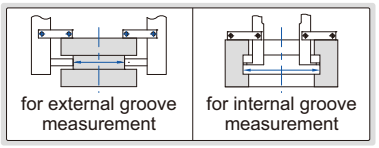
Code
6143





6143

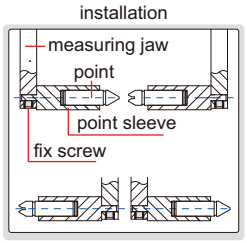




Point sleeve (optional)

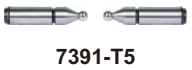


1526-T101

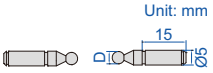


Code
1526-T101

Ball points (optional)



7391-T5

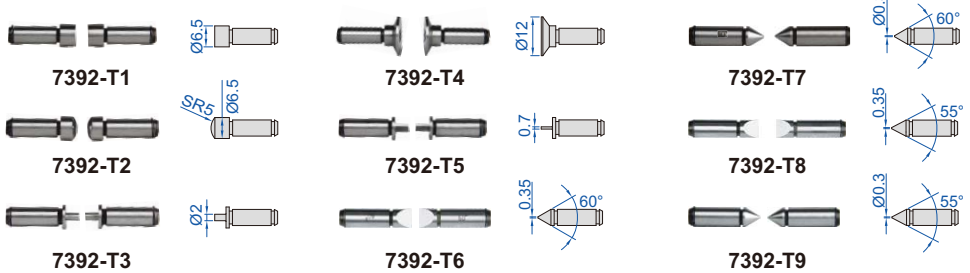


*It is necessary to use point sleeve (code **1526-T101**) for these points

Range of **1526-200 and **1526-200WL** after installing the points and point sleeve

Code	Ball dia. (D)	Range**
7391-T3*	SØ2.0mm	75-275mm/3.0-10.8" (internal) 0-146mm/0-5.7" (external)
7391-T4*	SØ2.5mm	76-276mm/3.0-10.8" (internal) 0-145mm/0-5.7" (external)
7391-T5*	SØ3.0mm	77-277mm/3.0-10.9" (internal) 0-144mm/0-5.6" (external)
7391-T6*	SØ3.5mm	78-278mm/3.1-10.9" (internal) 0-143mm/0-5.6" (external)
7391-T7*	SØ4.0mm	79-279mm/3.1-10.9" (internal) 0-142mm/0-5.6" (external)
7391-T8*	SØ4.5mm	80-280mm/3.2-11.0" (internal) 0-141mm/0-5.5" (external)
7391-T9*	SØ5.0mm	81-281mm/3.2-11.0" (internal) 0-140mm/0-5.5" (external)
7391-T10*	SØ6.0mm	83-283mm/3.3-11.1" (internal) 0-138mm/0-5.4" (external)

Multifunctional points (optional)



7392-T1 7392-T4 7392-T7
7392-T2 7392-T5 7392-T8
7392-T3 7392-T6 7392-T9

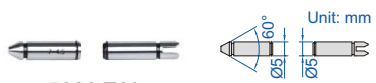
Range**
66-266mm/2.6-10.5" (internal), 0-155mm/0-6.1" (external)

Range of **1526-200 and **1526-200WL** after installing the points and point sleeve

Code	Type
7392-T1*	flat
7392-T2*	spherical
7392-T3*	spline
7392-T4*	disk
7392-T5*	blade
7392-T6*	knife-edge
7392-T7*	point
7392-T8*	knife-edge
7392-T9*	point

*It is necessary to use point sleeve (code **1526-T101**) for these points

Screw thread points (optional)



7321-T16



7381-T11

Internal thread (60° thread angle)

Code	Pitch
7321-T11*	0.4-0.5mm/64-48TPI
7321-T12*	0.6-0.9mm/44-28TPI
7321-T13*	1-1.75mm/24-14TPI
7321-T14*	2-3mm/13-9TPI
7321-T15*	3.5-5mm/8-5TPI
7321-T16*	5.5-7mm/4.5-3.5TPI
7321-T1S*	6 pairs/set, including all above points

External thread (60° thread angle)

Code	Pitch
7381-T11*	0.4-0.5mm/64-48TPI
7381-T12*	0.6-0.9mm/44-28TPI
7381-T13*	1-1.75mm/24-14TPI
7381-T14*	2-3mm/13-9TPI
7381-T15*	3.5-5mm/8-5TPI
7381-T16*	5.5-7mm/4.5-3.5TPI
7381-TS*	6 pairs/set, including all above points

Range**
66-266mm/2.6-10.5" (internal) 0-155mm/0-6.1" (external)

Range of **1526-200 and **1526-200WL** after installing the points and point sleeve

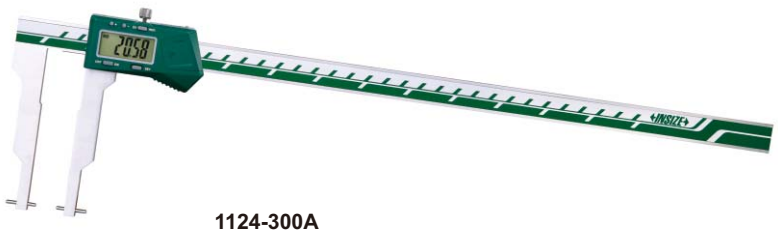
*It is necessary to use point sleeve (code **1526-T101**) for these points

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VIDEO

DATA OUTPUT

DIGITAL CALIPERS WITH INTERCHANGEABLE POINTS

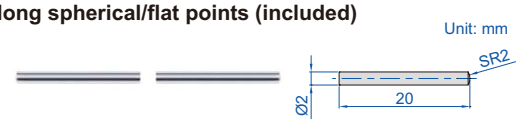


1124-300A

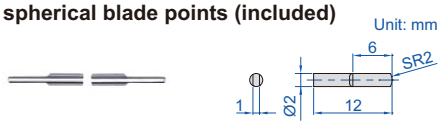
short spherical/flat points (included)



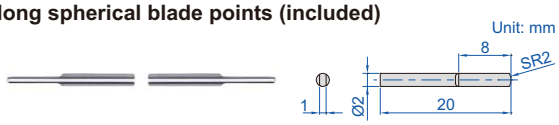
long spherical/flat points (included)

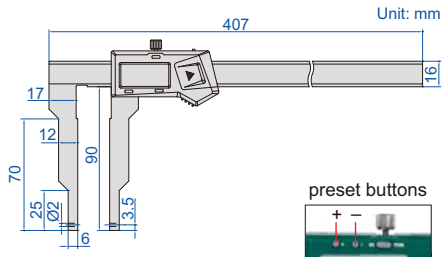


short spherical blade points (included)



long spherical blade points (included)





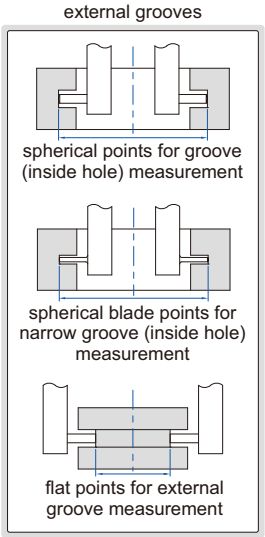
preset buttons



zero setting block for external measurement (included)

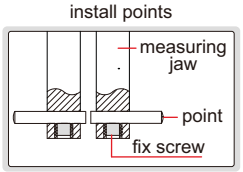


measure internal and external grooves



- Non waterproof
- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: points (code **1526-T101**, **7392**, **7391**, **7381**, **7321**), depth stop (code **6143**)

install points



depth stop **6143** (**optional**)



With data interface

Code	Data output cable (optional)
1124-300A	code **7315-21** page 4, **7302-21** page 12

Built-in wireless

Code	Receiver (optional)
1124-300AWL	code **7315-2/3/6/7/8/9**

Point	Range	Accuracy	Application
short spherical/flat points	24-324mm/1-12.7" (internal) 0-288mm/0-11.3" (external)	±0.04mm	spherical points for grooves inside hole (small hole) flat points for external grooves
long spherical/flat points	40-340mm/1.5-13.3" (internal) 0-272mm/0-10.7" (external)	±0.04mm	spherical points for grooves inside hole (large hole) flat points for external grooves
short spherical blade points	24-324mm/1-12.7" (internal) 0-288mm/0-11.3" (external)	±0.04mm	for narrow grooves inside hole (small hole)
long spherical blade points	40-340mm/1.5-13.3" (internal) 0-272mm/0-10.7" (external)	±0.04mm	for narrow grooves inside hole (large hole)

Multifunctional points 7392* **(optional**, page 40**)**



Ball points 7391* **(optional**, page 40**)**



Screw thread points 7381*, **7321*** **(optional**, page 40**)**



*It is necessary to use point sleeve (code **1526-T101**) for these points

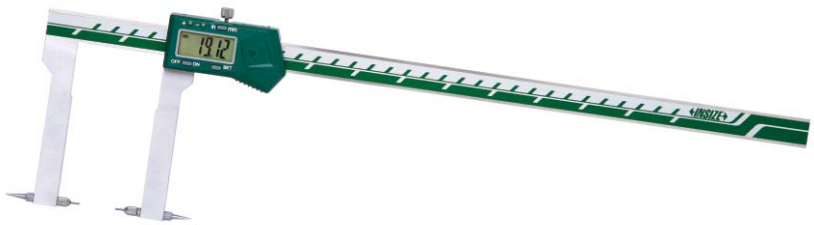
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DIGITAL CALIPERS WITH INTERCHANGEABLE POINTS

DATA OUTPUT

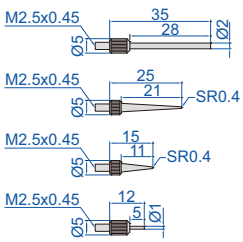
VARIOUS POINTS ARE AVAILABLE (PAGE 219~221)

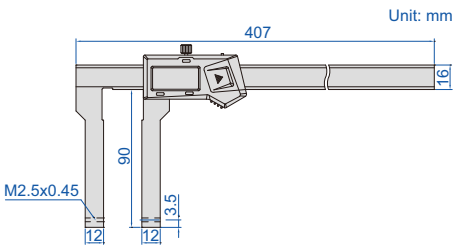
VIDEO



1530-300

- Non waterproof
- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: points (page 219~221), depth stop (code **6143**)





zero setting block for external measurement (included)



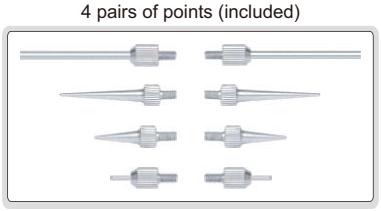
depth stop **6143** (**optional**)



preset buttons



4 pairs of points (included)



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

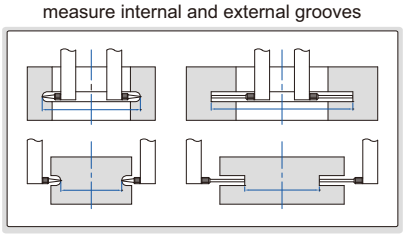
Code	Range*	Accuracy
1530-300	0-300mm/0-12"	±0.04mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range*	Accuracy
1530-300WL	0-300mm/0-12"	±0.04mm

*For different points, the measuring range changes accordingly

measure internal and external grooves



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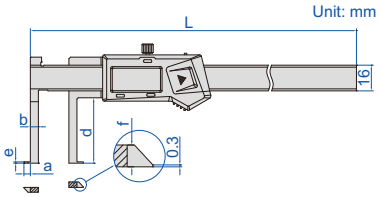
DIGITAL INSIDE GROOVE CALIPERS



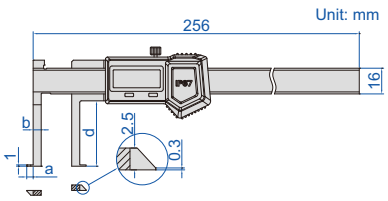
1520-150



1520-150P

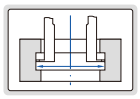


type A



type B

- Measure diameter of grooves inside small bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -),
  type B: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)



depth stop **6143** (**optional**)



Non waterproof, with data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Type	Accuracy	L	a	b	d	e	f
1520-150	11-150mm/0.43-6"	A	±0.04mm	236mm	3.5mm	5mm	41mm	1mm	2.5mm
1520-200	16-200mm/0.63-8"	A	±0.04mm	285mm	5mm	7mm	41mm	1mm	3mm
1520-300	20-300mm/0.79-12"	A	±0.05mm	398mm	7.5mm	9mm	62mm	2mm	4mm

Non waterproof, built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Type	Accuracy	L	a	b	d	e	f
1520-150WL	11-150mm/0.43-6"	A	±0.04mm	236mm	3.5mm	5mm	41mm	1mm	2.5mm
1520-200WL	16-200mm/0.63-8"	A	±0.04mm	285mm	5mm	7mm	41mm	1mm	3mm
1520-300WL	20-300mm/0.79-12"	A	±0.05mm	398mm	7.5mm	9mm	62mm	2mm	4mm

IP67 dust/waterproof, no automatic power off, set zero after power on each time, without data interface

Code	Range	Type	Accuracy	a	b	d
1520-150P	14-150mm/0.56-6"	B	±0.04mm	5mm	7mm	30mm
1520-1501P	8-150mm/0.31-6"	B	±0.04mm	2mm	4mm	40mm

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DIGITAL INSIDE POINT CALIPERS

DATA OUTPUT

2

depth stop **6143** (**optional**)



preset buttons

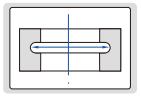


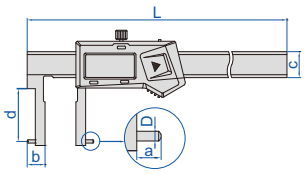
1121-150A
type A



1121-150B
type B

- Non waterproof
- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)
  type B: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop
  (code **6143**, for calipers with c=16mm)





Preset (no need to add the width of the jaws on the reading), with data interface **(mm)**

Code	Range	Type	Accuracy	L	a	b	c	d	D	Data output cable (optional)
1121-150A	24-150mm/0.94-6"	A	±0.04mm	250	5	12	16	28	Ø2	**7315-21** page 4, **7302-21** page 12
1121-1501	35-150mm/1.38-6"	A	±0.05mm	250	6	17.5	16	60	Ø2	**7315-21** page 4, **7302-21** page 12
1121-200A	25-200mm/0.98-8"	A	±0.04mm	310	5	12.5	16	37	Ø2	**7315-21** page 4, **7302-21** page 12
1121-2001	40-200mm/1.57-8"	A	±0.05mm	310	7	20	16	70	Ø3	**7315-21** page 4, **7302-21** page 12
1121-300A	30-300mm/1.18-12"	A	±0.07mm	410	5	15	16	50	Ø2	**7315-21** page 4, **7302-21** page 12
1121-3001A	50-300mm/1.97-12"	A	±0.07mm	410	8	25	16	77	Ø3	**7315-21** page 4, **7302-21** page 12
1121-500A	40-500mm/1.57-20"	A	±0.07mm	680	5	20	24	90	Ø3	**7315-22** page 4, **7302-22** page 12
1121-5001	60-500mm/2.36-20"	A	±0.08mm	680	10	30	24	120	Ø3	**7315-22** page 4, **7302-22** page 12
1121-5002	80-500mm/3.15-20"	A	±0.08mm	680	16	40	24	150	Ø3	**7315-22** page 4, **7302-22** page 12

Preset (no need to add the width of the jaws on the reading), built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Type	Accuracy	L	a	b	c	d	D
1121-150AWL	24-150mm/0.94-6"	A	±0.04mm	250mm	5mm	12mm	16mm	28mm	Ø2mm
1121-1501WL	35-150mm/1.38-6"	A	±0.05mm	250mm	6mm	17.5mm	16mm	60mm	Ø2mm
1121-200AWL	25-200mm/0.98-8"	A	±0.04mm	310mm	5mm	12.5mm	16mm	37mm	Ø2mm
1121-2001WL	40-200mm/1.57-8"	A	±0.05mm	310mm	7mm	20mm	16mm	70mm	Ø3mm
1121-300AWL	30-300mm/1.18-12"	A	±0.07mm	410mm	5mm	15mm	16mm	50mm	Ø2mm
1121-3001AWL	50-300mm/1.97-12"	A	±0.07mm	410mm	8mm	25mm	16mm	77mm	Ø3mm
1121-500AWL	40-500mm/1.57-20"	A	±0.07mm	680mm	5mm	20mm	24mm	90mm	Ø3mm
1121-5001WL	60-500mm/2.36-20"	A	±0.08mm	680mm	10mm	30mm	24mm	120mm	Ø3mm
1121-5002WL	80-500mm/3.15-20"	A	±0.08mm	680mm	16mm	40mm	24mm	150mm	Ø3mm

No preset (need to add the width of the jaws on the reading)

Code	Range	Type	Accuracy	L	a	b	c	d	D
1121-150B	50-150mm/1.97-6"	B	±0.06mm	270mm	8mm	25mm	20mm	90mm	Ø3mm
1121-200B	60-200mm/2.36-8"	B	±0.06mm	320mm	10mm	30mm	20mm	100mm	Ø3mm
1121-300B	60-300mm/2.36-12"	B	±0.07mm	420mm	10mm	30mm	20mm	110mm	Ø3mm

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DIGITAL INSIDE GROOVE CALIPERS

depth stop **6143**
(**optional**)

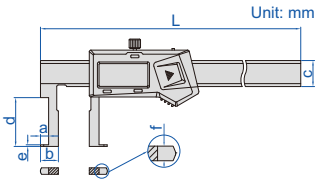


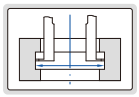
preset buttons



1120-150A
type A

- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)
  type B: on/off, zero, mm/inch
  type C: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop
  (code **6143**, for calipers with c=16mm)







1120-150B
type B



1120-150P
type C

Non waterproof, preset (no need to add the width of the jaws on the reading), with data interface **(mm)**

Code	Range	Type	Accuracy	L	a	b	c	d	e	f	Data output cable (optional)
1120-150A	22-150mm/0.87-6"	A	±0.04mm	250	5	11	16	30	1	4	**7315-21** page 4, **7302-21** page 12
1120-1501	35-150mm/1.38-6"	A	±0.06mm	250	6	17.5	16	60	1.5	4	**7315-21** page 4, **7302-21** page 12
1120-200A	25-200mm/0.98-8"	A	±0.04mm	310	5	12.5	16	40	1	4	**7315-21** page 4, **7302-21** page 12
1120-2001	40-200mm/1.57-8"	A	±0.06mm	310	7	20	16	70	2.5	4	**7315-21** page 4, **7302-21** page 12
1120-300A	30-300mm/1.18-12"	A	±0.05mm	410	5	15	16	50	1.5	4	**7315-21** page 4, **7302-21** page 12
1120-3001	50-300mm/1.97-12"	A	±0.07mm	410	8	25	16	80	2.5	4	**7315-21** page 4, **7302-21** page 12
1120-500	40-500mm/1.57-20"	A	±0.07mm	680	5	20	24	90	2.2	5.5	**7315-22** page 4, **7302-22** page 12
1120-5001	60-500mm/2.36-20"	A	±0.08mm	680	10	30	24	120	3.4	5.5	**7315-22** page 4, **7302-22** page 12
1120-5002	80-500mm/3.15-20"	A	±0.08mm	680	16	40	24	150	5.2	5.5	**7315-22** page 4, **7302-22** page 12

Non waterproof, preset (no need to add the width of the jaws on the reading),
built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Type	Accuracy	L	a	b	c	d	e	f
1120-150AWL	22-150mm/0.87-6"	A	±0.04mm	250mm	5mm	11mm	16mm	30mm	1mm	4mm
1120-1501WL	35-150mm/1.38-6"	A	±0.06mm	250mm	6mm	17.5mm	16mm	60mm	1.5mm	4mm
1120-200AWL	25-200mm/0.98-8"	A	±0.04mm	310mm	5mm	12.5mm	16mm	40mm	1mm	4mm
1120-2001WL	40-200mm/1.57-8"	A	±0.06mm	310mm	7mm	20mm	16mm	70mm	2.5mm	4mm
1120-300AWL	30-300mm/1.18-12"	A	±0.05mm	410mm	5mm	15mm	16mm	50mm	1.5mm	4mm
1120-3001WL	50-300mm/1.97-12"	A	±0.07mm	410mm	8mm	25mm	16mm	80mm	2.5mm	4mm
1120-500WL	40-500mm/1.57-20"	A	±0.07mm	680mm	5mm	20mm	24mm	90mm	2.2mm	5.5mm
1120-5001WL	60-500mm/2.36-20"	A	±0.08mm	680mm	10mm	30mm	24mm	120mm	3.4mm	5.5mm
1120-5002WL	80-500mm/3.15-20"	A	±0.08mm	680mm	16mm	40mm	24mm	150mm	5.2mm	5.5mm

Non waterproof, no preset (need to add the width of the jaws on the reading)

Code	Range	Type	Accuracy	L	a	b	c	d	e	f
1120-150B	50-150mm/1.97-6"	B	±0.06mm	270mm	8mm	25mm	20mm	90mm	3.4mm	4mm
1120-200B	60-200mm/2.36-8"	B	±0.06mm	320mm	10mm	30mm	20mm	100mm	3.4mm	4mm
1120-300B	60-300mm/2.36-12"	B	±0.07mm	420mm	10mm	30mm	20mm	110mm	3.4mm	4mm

IP67 dust/waterproof, no automatic power off, set zero after power on each time,
no preset (need to add the width of the jaws on the reading), without data interface

Code	Range	Type	Accuracy	L	a	b	c	d	e	f
1120-150P	22-150mm/0.87-6"	C	±0.04mm	250mm	5mm	11mm	16mm	30mm	1mm	4mm

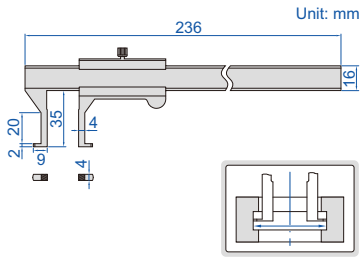
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INSIDE GROOVE VERNIER CALIPER

- Measure diameter of grooves inside bores
- Made of stainless steel
- Satin chrome plated reading surface

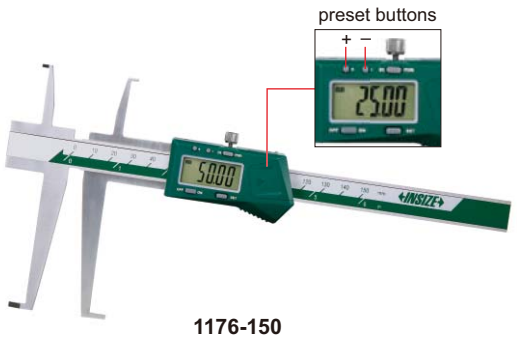


1262-150A



Code	Range	Graduation	Accuracy
1262-150A	18-150mm	0.02mm	±0.04mm

DIGITAL INSIDE GROOVE CALIPERS



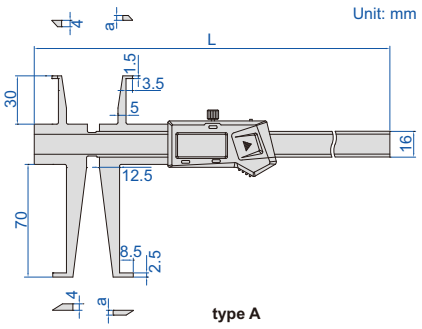
1176-150



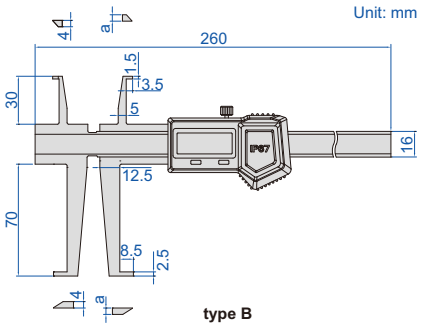
1176-150P

depth stop **6143** (**optional**)





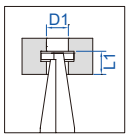
type A



type B

- Measure diameter of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)
  type B: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

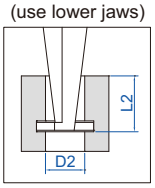
sizes to be measured (use upper jaws)



(mm)

D1	L1
Ø9	<8
Ø10	<15
Ø11~200	<30

sizes to be measured (use lower jaws)



(mm)

D2	L2
Ø17	<16
Ø18	<28
Ø19	<40
Ø20	<50
Ø21	<58
Ø22~200	<70

Non waterproof, with data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range of upper jaw	Range of lower jaw	Type	Accuracy	L	a
1176-150	9-150mm/0.35-6"	17-150mm/0.70-6"	A	±0.04mm	260mm	3mm
1176-200	9-200mm/0.35-8"	17-200mm/0.70-8"	A	±0.05mm	320mm	3.5mm

Non waterproof, built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

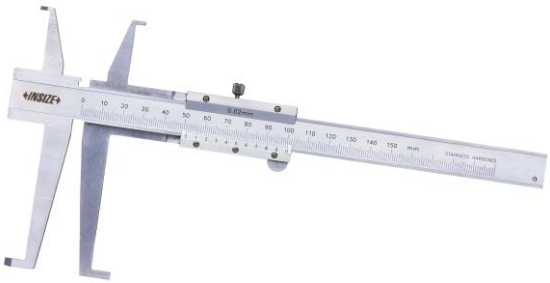
Code	Range of upper jaw	Range of lower jaw	Type	Accuracy	L	a
1176-150WL	9-150mm/0.35-6"	17-150mm/0.70-6"	A	±0.04mm	260mm	3mm
1176-200WL	9-200mm/0.35-8"	17-200mm/0.70-8"	A	±0.05mm	320mm	3.5mm

IP67 dust/waterproof, without data interface, no automatic power off, set zero after power on each time

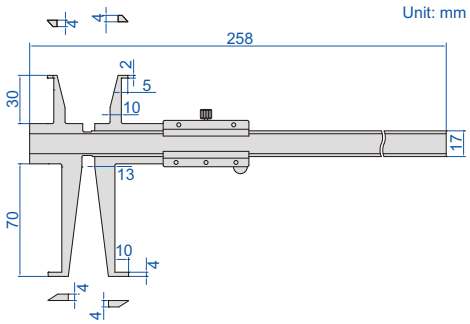
Code	Range of upper jaw	Range of lower jaw	Type	Accuracy	a
1176-150P	9-150mm/0.35-6"	17-150mm/0.70-6"	B	±0.04mm	4mm

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INSIDE GROOVE CALIPER



1199-150

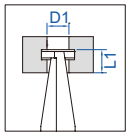


depth stop **6143** (**optional**)



- Measure diameter of grooves inside bores
- Graduation: 0.02mm
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

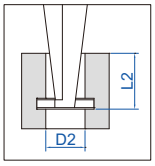
sizes to be measured (use upper jaws)



(mm)

D1	L1
Ø11	<8
Ø12	<10
Ø13	<15
Ø14	<20
Ø15~150	<30

sizes to be measured (use lower jaws)



(mm)

D2	L2
Ø18	<20
Ø19	<28
Ø20	<35
Ø21	<40
Ø22	<50
Ø23~150	<70

Code	Range of upper jaw	Range of lower jaw	Accuracy
1199-150	11-150mm	18-150mm	±0.03mm

DATA OUTPUT

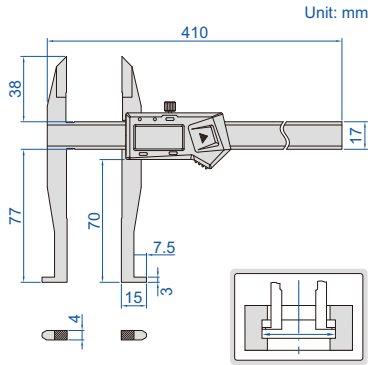
DIGITAL DEEP HOLE INSIDE GROOVE CALIPERS

preset buttons





1129-300



- Non waterproof
- Measure diameter of grooves inside deep holes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

depth stop **6143** (**optional**)



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

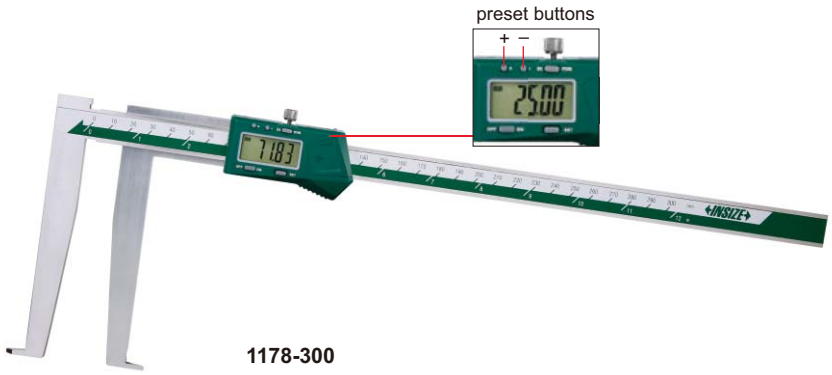
Code	Range of upper jaw	Range of lower jaw	Accuracy
1129-300	0-300mm/0-12"	30-300mm/1.2-12"	±0.04mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

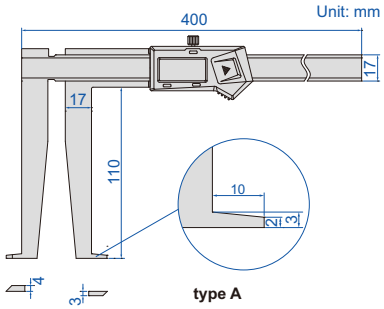
Code	Range of upper jaw	Range of lower jaw	Accuracy
1129-300WL	0-300mm/0-12"	30-300mm/1.2-12"	±0.04mm

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DIGITAL INSIDE GROOVE CALIPERS

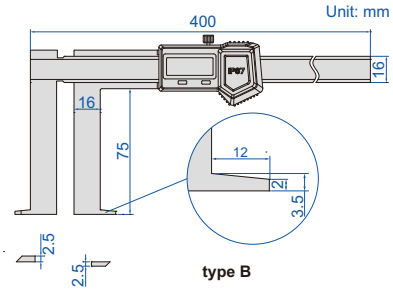


1178-300





1178-300P



- Measure diameter of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)
  type B: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

depth stop **6143** (**optional**)



Non waterproof, with data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Type	Accuracy
1178-300	25-300mm/1.18-12"	A	±0.05mm

Non waterproof, built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Type	Accuracy
1178-300WL	25-300mm/1.18-12"	A	±0.05mm

IP67 dust/waterproof, no automatic power off, set zero after power on each time, without data interface

Code	Range	Type	Accuracy
1178-300P	33-300mm/1.30-12"	B	±0.05mm

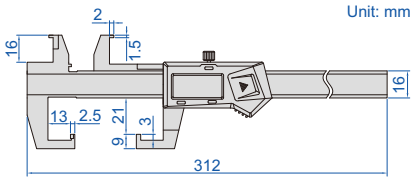
DIGITAL INSIDE GROOVE CALIPERS

DATA OUTPUT



1128-200

- Non waterproof
- Measure diameter or distance of grooves
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface
(data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

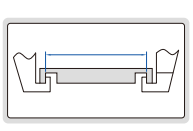
Code	Range of upper jaw	Range of lower jaw	Accuracy
1128-200	10-200mm/0.39-8"	3-200mm/0.12-8"	±0.03mm

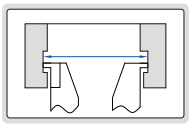
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range of upper jaw	Range of lower jaw	Accuracy
1128-200WL	10-200mm/0.39-8"	3-200mm/0.12-8"	±0.03mm

preset buttons





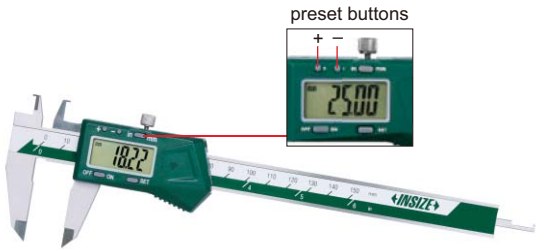


DATA OUTPUT

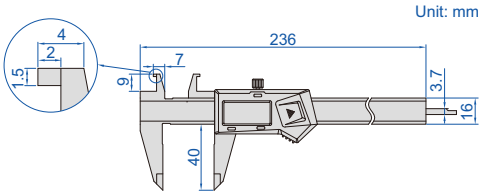
DIGITAL INSIDE GROOVE CALIPERS



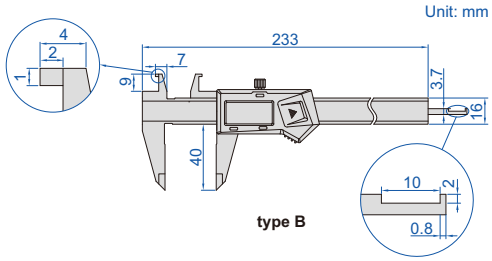
1191-150



1191-150B



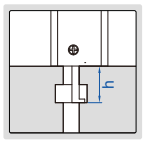
type A



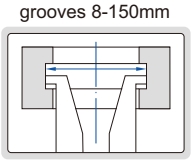
type B

- Non waterproof
- Upper jaws for measuring diameter of grooves
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, zero, mm/inch
  type B: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

measure depth of grooves (h<10mm, only for type B)



measure diameter of grooves 8-150mm



With data interface
(data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

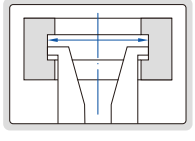
Code	Range of upper jaw	Range of lower jaw	Accuracy	Type
1191-150	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	A
1191-150B	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	B

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

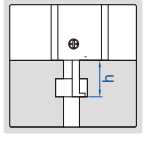
Code	Range of upper jaw	Range of lower jaw	Accuracy	Type
1191-150WL	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	A
1191-150BWL	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	B

INSIDE GROOVE VERNIER CALIPER

measure diameter of grooves 8-150mm

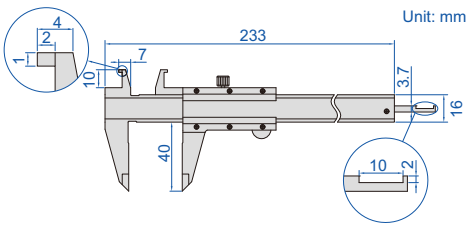


measure depth of grooves (h<10mm)





1291-150



- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range of upper jaw	Range of lower jaw	Accuracy
1291-150	8-150mm	0-150mm	±0.03mm

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DIGITAL OUTSIDE NECK CALIPERS

2

DATA OUTPUT

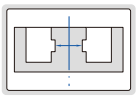


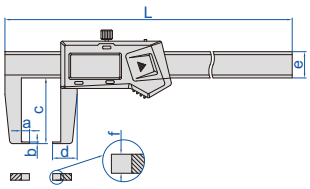
1187-150A

depth stop **6143** (**optional**)



- Non waterproof
- Measure grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**, for calipers with e=16mm)





With data interface **(mm)**

Code	Range	Accuracy	L	a	b	c	d	e	f	Data output cable (optional)
1187-150A	0-150mm/0-6"	±0.04mm	250	5	1	40	15	16	4	**7315-21** page 4, **7302-21** page 12
1187-200A	0-200mm/0-8"	±0.05mm	310	9	1.5	80	23	16	4	**7315-21** page 4, **7302-21** page 12
1187-300A	0-300mm/0-12"	±0.06mm	490	12	2	150	36	24	4	**7315-22** page 4, **7302-22** page 12
1187-500A	0-500mm/0-20"	±0.07mm	690	12	2	150	36	24	5.5	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L	a	b	c	d	e	f
1187-150AWL	0-150mm/0-6"	±0.04mm	250mm	5mm	1mm	40mm	15mm	16mm	4mm
1187-200AWL	0-200mm/0-8"	±0.05mm	310mm	9mm	1.5mm	80mm	23mm	16mm	4mm
1187-300AWL	0-300mm/0-12"	±0.06mm	490mm	12mm	2mm	150mm	36mm	24mm	4mm
1187-500AWL	0-500mm/0-20"	±0.07mm	690mm	12mm	2mm	150mm	36mm	24mm	5.5mm

DIGITAL OUTSIDE POINT CALIPERS

DATA OUTPUT

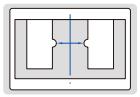


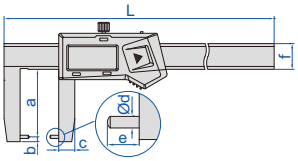
1185-150A

depth stop **6143** (**optional**)



- Non waterproof
- Measure wall thickness inside bores and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)





With data interface **(mm)**

Code	Range	Accuracy	L	a	b	c	Ød	e	f	Data output cable (optional)
1185-150A	0-150mm/0-6"	±0.04mm	250	40	3	10	2	5	16	**7315-21** page 4, **7302-21** page 12
1185-200A	0-200mm/0-8"	±0.05mm	310	80	3	14	3	9	16	**7315-21** page 4, **7302-21** page 12
1185-300A	0-300mm/0-12"	±0.06mm	490	150	3	20	3	12	24	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range	Accuracy	L	a	b	c	Ød	e	f
1185-150AWL	0-150mm/0-6"	±0.04mm	250	40	3	10	2	5	16
1185-200AWL	0-200mm/0-8"	±0.05mm	310	80	3	14	3	9	16
1185-300AWL	0-300mm/0-12"	±0.06mm	490	150	3	20	3	12	24

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DIGITAL OUTSIDE GROOVE CALIPERS

DATA OUTPUT

- Non waterproof
- Measure grooves and recesses in small spaces
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





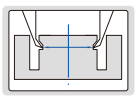
1535-100

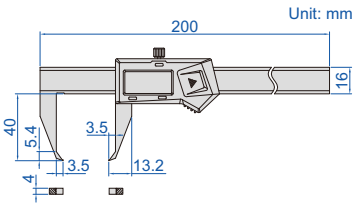
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1535-100	0-100mm/0-4"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1535-100WL	0-100mm/0-4"	±0.03mm



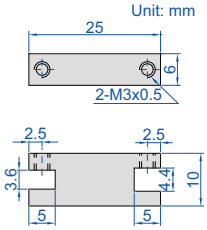


DEPTH STOP FOR CALIPERS

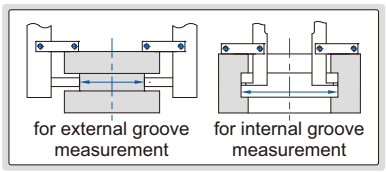




6143



application



- Supplied in pair
- Made of stainless steel
- Suitable for caliper series **1124, 1526, 1530, 1199 1520, 1176, 1178, 1120, 1121, 1187, 1129** and **1185**

Code
6143

DIGITAL SMALL POINT CALIPERS

DATA OUTPUT

- Non waterproof
- Small pointed jaws fit into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



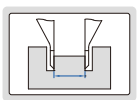
1169-150

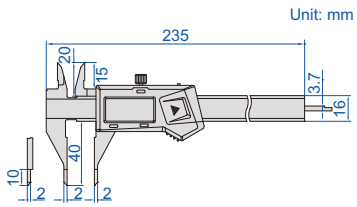
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1169-150	0-150mm/0-6"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1169-150WL	0-150mm/0-6"	±0.03mm





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2

DIGITAL POINT CALIPERS

DATA OUTPUT

- Non waterproof
- Pointed jaws fit into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

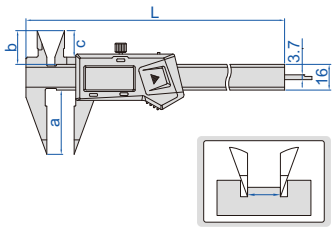


1183-150A

With data interface
(data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	L	a	b	c
1183-150A	0-150mm/0-6"	±0.03mm	236mm	40mm	21mm	16.5mm
1183-200A	0-200mm/0-8"	±0.03mm	286mm	50mm	24mm	19.5mm
1183-300A	0-300mm/0-12"	±0.03mm	400mm	60mm	25mm	21.5mm

Unit: mm



Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L	a	b	c
1183-150AWL	0-150mm/0-6"	±0.03mm	236mm	40mm	21mm	16.5mm
1183-200AWL	0-200mm/0-8"	±0.03mm	286mm	50mm	24mm	19.5mm
1183-300AWL	0-300mm/0-12"	±0.03mm	400mm	60mm	25mm	21.5mm

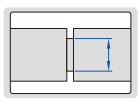
DIGITAL BLADE CALIPERS

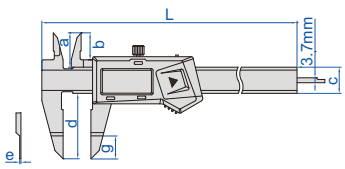
DATA OUTPUT



1188-150A

- Non waterproof
- The blade jaws fit into small grooves
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	L	a	b	c	d	e	g
1188-150A	0-150mm/0-6"	±0.03mm	235mm	21mm	16.5mm	16mm	40mm	0.85mm	17mm
1188-200A	0-200mm/0-8"	±0.03mm	297mm	24mm	20mm	16mm	50mm	0.85mm	17mm
1188-300A	0-300mm/0-12"	±0.04mm	390mm	26mm	21.5mm	16mm	60mm	1.00mm	17mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L	a	b	c	d	e	g
1188-150AWL	0-150mm/0-6"	±0.03mm	235mm	21mm	16.5mm	16mm	40mm	0.85mm	17mm
1188-200AWL	0-200mm/0-8"	±0.03mm	297mm	24mm	20mm	16mm	50mm	0.85mm	17mm
1188-300AWL	0-300mm/0-12"	±0.04mm	390mm	26mm	21.5mm	16mm	60mm	1.00mm	17mm

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DIGITAL CALIPERS WITH POSITIONING SURFACES

DATA OUTPUT

- Non waterproof
- Lower jaws with positioning surfaces, for measuring inside diameters quickly
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1534-200

preset buttons

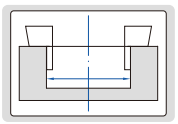


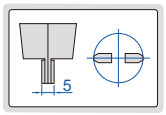
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1534-200	0-200mm/0-8"	±0.03mm

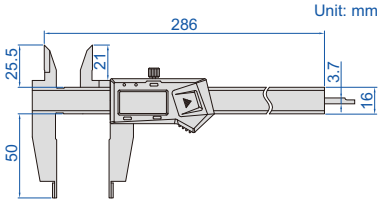
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1534-200WL	0-200mm/0-8"	±0.03mm





Unit: mm



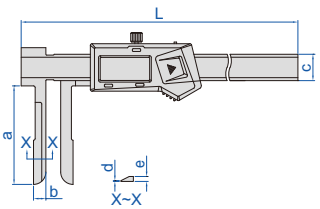
DIGITAL INSIDE KNIFE-EDGE CALIPERS

DATA OUTPUT

- Non waterproof
- Measure diameter of deep step holes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

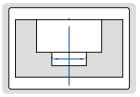


1123-150A



With data interface **(mm)**

Code	Range	Accuracy	L	a	b	c	d	e	Data output cable (optional)
1123-150A	15-150mm/0.6-6"	±0.05mm	250	60	12	16	0.3	3.5	**7315-21** page 4, **7302-21** page 12
1123-200A	20-200mm/0.8-8"	±0.06mm	305	100	17	16	0.3	3.5	**7315-21** page 4, **7302-21** page 12
1123-300A	24-300mm/0.9-12"	±0.06mm	500	150	22	24	0.5	3.5	**7315-22** page 4, **7302-22** page 12



Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range	Accuracy	L	a	b	c	d	e
1123-150AWL	15-150mm/0.6-6"	±0.05mm	250	60	12	16	0.3	3.5
1123-200AWL	20-200mm/0.8-8"	±0.06mm	305	100	17	16	0.3	3.5

DIGITAL CALIPERS WITH KNIFE-EDGE LOWER JAWS

DATA OUTPUT

- Non waterproof
- Measure diameter of narrow grooves
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



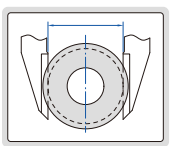
1532-200

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

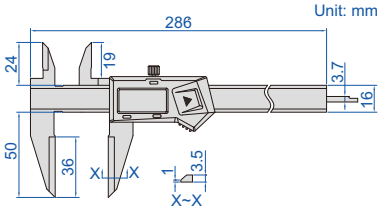
Code	Range	Accuracy
1532-200	0-200mm/0-8"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1532-200WL	0-200mm/0-8"	±0.03mm



Unit: mm



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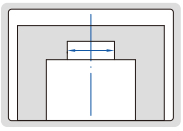
2

DIGITAL CALIPERS WITH LONG UPPER JAWS

DATA OUTPUT

- Non waterproof
- Long upper jaws for measuring diameter of deep holes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





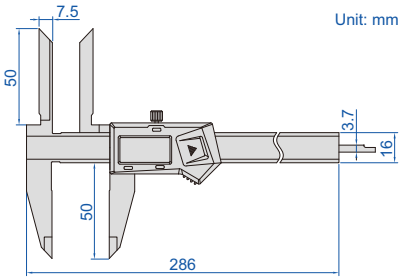
1138-200

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1138-200	0-200mm/0-8"	±0.04mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1138-200WL	0-200mm/0-8"	±0.04mm



DIGITAL OFFSET CENTERLINE CALIPERS

DATA OUTPUT

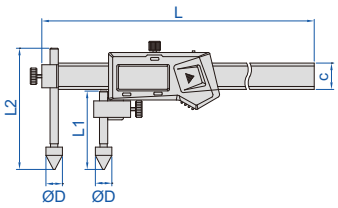
preset buttons

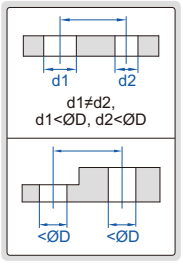




1192-150A

- Non waterproof
- Measure hole center distance in the same or offset planes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





With data interface **(mm)**

Code	Range	Accuracy	c	ØD	L1	L2	L	Data output cable (optional)
1192-150A	10-150mm/0.4-6"	±0.05mm	16	10	46	79	236	**7315-21** page 4, **7302-21** page 12
1192-200A	10-200mm/0.4-8"	±0.07mm	16	10	46	79	286	**7315-21** page 4, **7302-21** page 12
1192-300A	10-300mm/0.4-12"	±0.09mm	16	10	46	79	396	**7315-21** page 4, **7302-21** page 12
1192-500A	20-500mm/0.8-20"	±0.09mm	24	20	52	112	725	**7315-22** page 4, **7302-22** page 12
1192-1000A	30-1000mm/1.2-40"	±0.12mm	31	30	75	120	1255	**7315-22** page 4, **7302-22** page 12
1192-1500A	30-1500mm/1.2-60"	±0.15mm	31	30	75	120	1760	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range	Accuracy	c	ØD	L1	L2	L
1192-150AWL	10-150mm/0.4-6"	±0.05mm	16	10	46	79	236
1192-200AWL	10-200mm/0.4-8"	±0.07mm	16	10	46	79	286
1192-300AWL	10-300mm/0.4-12"	±0.09mm	16	10	46	79	396
1192-500AWL	20-500mm/0.8-20"	±0.09mm	24	20	52	112	725

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DATA OUTPUT

DIGITAL BACK-JAW CENTERLINE CALIPERS

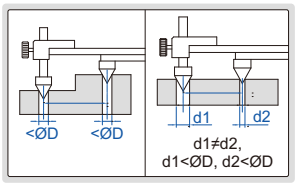


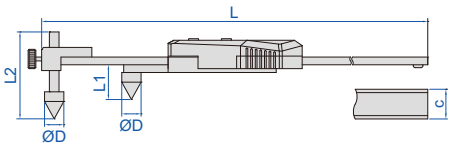
1177-200

back-jaw



- Non waterproof
- Measure hole center distance in the same or offset planes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





With data interface **(mm)**

Code	Range	Accuracy	ØD	c	L1	L2	L	Data output cable (optional)
1177-200	10-200mm/0.4-8"	±0.10mm	10	16	18	45	310	**7315-21** page 4, **7302-21** page 12
1177-300	10-300mm/0.4-12"	±0.10mm	10	16	18	45	410	**7315-21** page 4, **7302-21** page 12
1177-500	20-500mm/0.8-20"	±0.10mm	20	24	26	70	692	**7315-22** page 4, **7302-22** page 12
1177-1000	30-1000mm/1.2-40"	±0.12mm	30	31	39	70	1242	**7315-22** page 4, **7302-22** page 12
1177-1500	30-1500mm/1.2-60"	±0.15mm	30	31	39	70	1745	**7315-22** page 4, **7302-22** page 12

preset buttons



Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range	Accuracy	ØD	c	L1	L2	L
1177-200WL	10-200mm/0.4-8"	±0.10mm	10	16	18	45	310
1177-300WL	10-300mm/0.4-12"	±0.10mm	10	16	18	45	410
1177-500WL	20-500mm/0.8-20"	±0.10mm	20	24	26	70	692

DATA OUTPUT

DIGITAL BACK-JAW EDGE TO CENTER CALIPERS



1524-200

back-jaw



- Non waterproof
- Measure edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	L
1524-200	5-200mm/0.2-8"	±0.1mm	310mm
1524-300	5-300mm/0.2-12"	±0.1mm	410mm

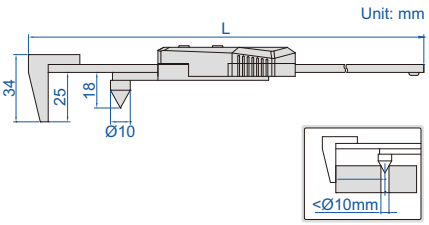
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L
1524-200WL	5-200mm/0.2-8"	±0.1mm	310mm
1524-300WL	5-300mm/0.2-12"	±0.1mm	410mm

preset buttons



Unit: mm



2

DIGITAL CENTERLINE AND EDGE TO CENTER CALIPERS

DATA OUTPUT



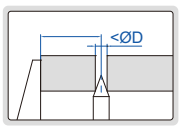
1525-300

preset buttons

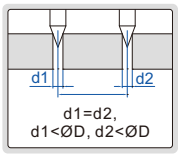


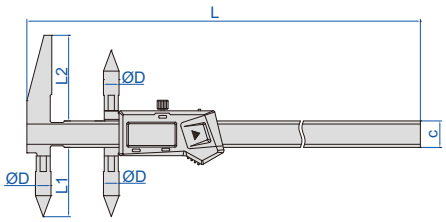
- Non waterproof
- Measure hole center distance or edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

measure edge to hole center distance



measure hole center distance





With data interface **(mm)**

Code	Range of upper jaw (edge to center)	Range of lower jaw (center to center)	Accuracy	ØD	L1	L2	c	L	Data output cable (optional)
1525-300	5-300mm/0.2-12"	10-300mm/0.4-12"	±0.08mm	10	44.5	55	17	410	**7315-21** page 4, **7302-21** page 12
1525-3001	10-300mm/0.4-12"	20-300mm/0.8-12"	±0.08mm	20	48	60	17	410	**7315-21** page 4, **7302-21** page 12
1525-500	10-500mm/0.4-20"	20-500mm/0.8-20"	±0.09mm	20	50	60	24	690	**7315-22** page 4, **7302-22** page 12
1525-1000	15-1000mm/0.6-40"	30-1000mm/1.2-40"	±0.12mm	30	70	81	31	1255	**7315-22** page 4, **7302-22** page 12
1525-1500	15-1500mm/0.6-60"	30-1500mm/1.2-60"	±0.15mm	30	70	81	31	1760	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range of upper jaw (edge to center)	Range of lower jaw (center to center)	Accuracy	ØD	L1	L2	c	L
1525-300WL	5-300mm/0.2-12"	10-300mm/0.4-12"	±0.08mm	10	44.5	55	17	410
1525-3001WL	10-300mm/0.4-12"	20-300mm/0.8-12"	±0.08mm	20	48	60	17	410
1525-500WL	10-500mm/0.4-20"	20-500mm/0.8-20"	±0.09mm	20	50	60	24	690

DIGITAL HOOK CALIPERS

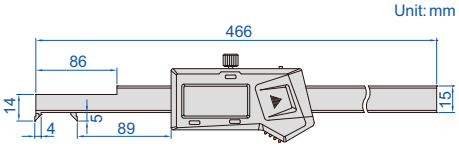
DATA OUTPUT



1122-300

- Non waterproof
- Measure width and distance of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

Unit: mm

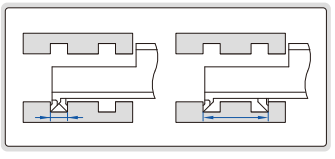


With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1122-300	4-300mm/0.16-12"	±0.04mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1122-300WL	4-300mm/0.16-12"	±0.04mm



DATA OUTPUT

DIGITAL CALIPERS WITH ONE DIRECTION UPPER JAWS

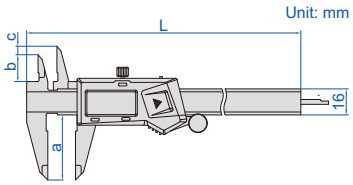


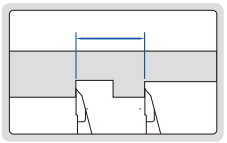
1184-200



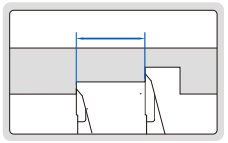
1184-150A

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (code **7315-21** page 4, **7302-21** page 12)





jaws with same height used for measuring the distance in same level



jaws with different height used for measuring the distance in different level

Jaws with same height (mm)

Code	Range	Accuracy	L	a	b	c
1184-150	0-150mm/0-6"	±0.03mm	236	40	17	0
1184-200	0-200mm/0-8"	±0.03mm	286	50	20	0
1184-300	0-300mm/0-12"	±0.03mm	400	60	22	0

Jaws with different height (mm)

Code	Range	Accuracy	L	a	b	c
1184-150A	0-150mm/0-6"	±0.03mm	236	40	17	5
1184-200A	0-200mm/0-8"	±0.03mm	286	50	20	8
1184-300A	0-300mm/0-12"	±0.03mm	400	60	22	10

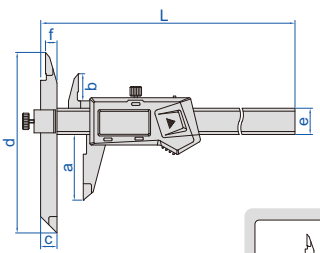
DATA OUTPUT

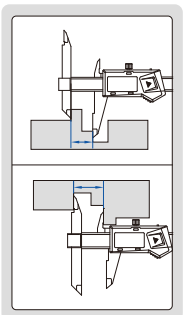
DIGITAL OFFSET CALIPERS



1186-150A

- Non waterproof
- The left jaw can slide up and down to facilitate measurement of stepped sections
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





With data interface
(data output cable code 7315-21 page 4, **7302-21** page 12, **optional)** (mm)

Code	Range	Accuracy	L	a	b	c	d	e	f
1186-150A	0-150mm/0-6"	±0.04mm	249	40	16.5	10	110	17	7
1186-200A	0-200mm/0-8"	±0.04mm	299	50	19.5	10	120	17	7
1186-300A	0-300mm/0-12"	±0.05mm	399	60	20.5	10	130	17	7

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) (mm)

Code	Range	Accuracy	L	a	b	c	d	e	f
1186-150AWL	0-150mm/0-6"	±0.04mm	249	40	16.5	10	110	17	7
1186-200AWL	0-200mm/0-8"	±0.04mm	299	50	19.5	10	120	17	7
1186-300AWL	0-300mm/0-12"	±0.05mm	399	60	20.5	10	130	17	7

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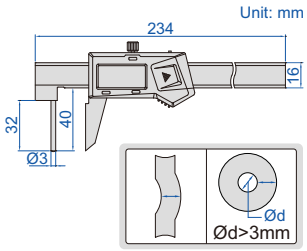
DIGITAL TUBE THICKNESS CALIPERS

DATA OUTPUT

- Non waterproof
- Measure wall thickness of tubes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1161-150A



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1161-150A	0-150mm/0-6"	±0.05mm

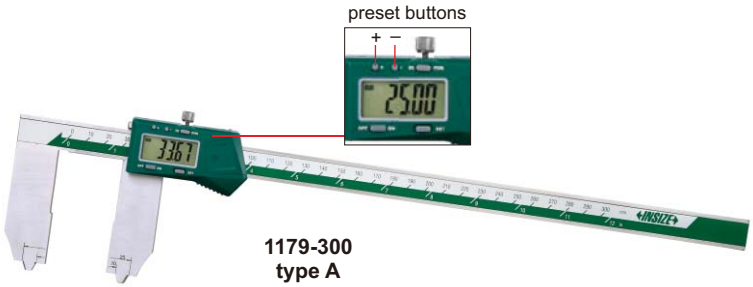
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1161-150AWL	0-150mm/0-6"	±0.05mm

DIGITAL RTJ RING GROOVE CALIPERS

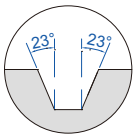
DATA OUTPUT

- Non waterproof
- Angle of RTJ ring groove: 23°
- Measure ring grooves of flange
- Resolution: 0.01mm/0.0005"
- Button function: on/off, set, zero, mm/inch, data preset
- Battery CR2032
- Made of stainless steel

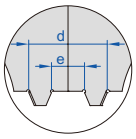


1179-300
type A

applicable for RTJ ring grooves with angle 23°



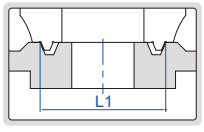
d and **e** need to be added on the reading



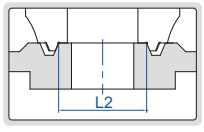


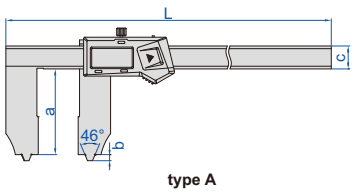
1179-600
type B

measure outside diameter of RTJ ring groove

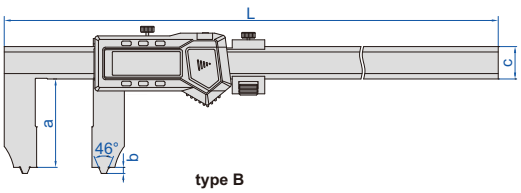


measure inside diameter of RTJ ring groove





type A



type B

With data interface **(mm)**

Code	Range (inside diameter of RTJ ring groove)	Range (outside diameter of RTJ ring groove)	Accuracy	Type	L	a	b	c	d	e	Data output cable (optional)
1179-300	10-300mm/0.4-12"	25-300mm/1-12"	±0.06mm	A	410	63.5	4.5	17	25	10	**7315-21** page 4, **7302-21** page 12
1179-600	10-600mm/0.4-24"	25-600mm/1-24"	±0.07mm	B	770	65.5	4.5	24	25	10	**7315-22** page 4, **7302-22** page 12
1179-1000	15-1000mm/0.6-40"	30-1000mm/1.2-40"	±0.09mm	B	1220	90	5	31	30	15	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) **(mm)**

Code	Range (inside diameter of RTJ ring groove)	Range (outside diameter of RTJ ring groove)	Accuracy	Type	L	a	b	c	d	e
1179-300WL	10-300mm/0.4-12"	25-300mm/1-12"	±0.06mm	A	410	63.5	4.5	17	25	10
1179-600WL	10-600mm/0.4-24"	25-600mm/1-24"	±0.07mm	B	770	65.5	4.5	24	25	10

DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS

DATA OUTPUT

back-jaw



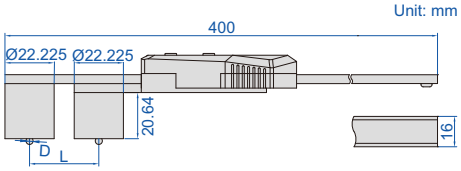
preset buttons





1527-3001

Unit: mm



- Non waterproof
- Resolution 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: ball tips

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1527-3001	(22.22+D)~300mm*	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1527-3001WL	(22.22+D)~300mm*	±0.03mm

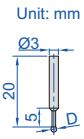
*"D" is the diameter of ball tips.

Ball tips (optional, supplied in pair)

Unit: mm



1527-T101

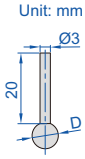


type A

Unit: mm



1527-T104



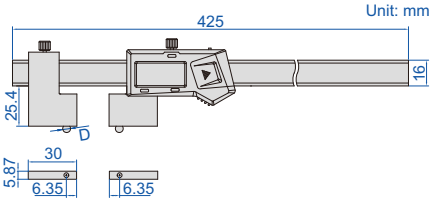
type B

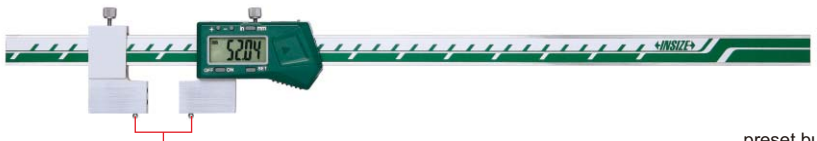
Code	Diameter (D)	Accuracy of diameter	Type	Material
1527-T101	1/16" (Ø1.5875mm)	±0.005mm	A	ruby
1527-T102	1/8" (Ø3.175mm)	±0.005mm	B	stainless steel
1527-T103	3/16" (Ø4.7625mm)	±0.005mm	B	stainless steel
1527-T104	1/4" (Ø6.35mm)	±0.005mm	B	stainless steel
1527-T105	3/8" (Ø9.525mm)	±0.005mm	B	stainless steel
1527-T106	1/2" (Ø12.7mm)	±0.005mm	B	stainless steel

DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS

DATA OUTPUT

Unit: mm





ball tips are optional

1528-3001

preset buttons



- Non waterproof
- Resolution 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: ball tips

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1528-3001	(12.7+D)~300mm*	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1528-3001WL	(12.7+D)~300mm*	±0.03mm

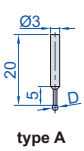
*"D" is the diameter of ball tips.

Ball tips (optional, supplied in pair)

Unit: mm



1527-T101

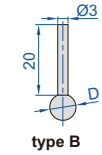


type A

Unit: mm



1527-T104



type B

Code	Diameter (D)	Accuracy of diameter	Type	Material
1527-T101	1/16" (Ø1.5875mm)	±0.005mm	A	ruby
1527-T102	1/8" (Ø3.175mm)	±0.005mm	B	stainless steel
1527-T103	3/16" (Ø4.7625mm)	±0.005mm	B	stainless steel
1527-T104	1/4" (Ø6.35mm)	±0.005mm	B	stainless steel
1527-T105	3/8" (Ø9.525mm)	±0.005mm	B	stainless steel
1527-T106	1/2" (Ø12.7mm)	±0.005mm	B	stainless steel

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2

DIGITAL CRIMP HEIGHT CALIPERS

RELATIVE PRODUCT: CRIMP HEIGHT MICROMETER (CODE 3266-25BA, 3566-25BA)

DATA OUTPUT

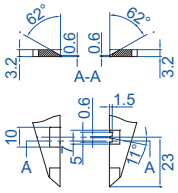
- Non waterproof
- Measure crimp height
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, meet DIN862
- Made of stainless steel



1165-150A



Unit: mm



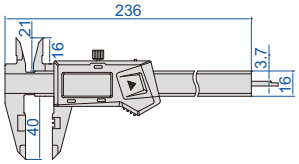
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1165-150A	0-150mm/0-6"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1165-150AWL	0-150mm/0-6"	±0.03mm

Unit: mm



DIGITAL CALIPERS WITH LARGE MEASURING FACES

DATA OUTPUT

- Non waterproof
- Measure diameter of wire ropes, and thickness of soft materials like rubber, sponge, etc.
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





1172-200

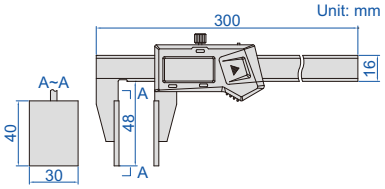
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1172-200	0-200mm/0-8"	±0.07mm

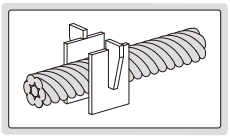
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1172-200WL	0-200mm/0-8"	±0.07mm

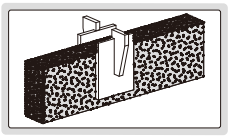
Unit: mm



measure diameter of wire ropes



measure thickness of rubber, sponge, etc.



DIGITAL CALIPERS WITH DISK FACES

DATA OUTPUT

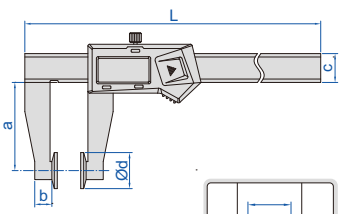
- Non waterproof
- Measure thickness of soft sheets
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1533-150

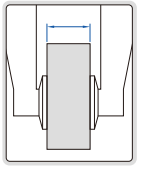
With data interface (mm)

Code	Range	Accuracy	L	a	b	c	Ød	Data output cable (optional)
1533-150	0-150mm/0-6"	±0.04mm	245	50	11	16	20	**7315-21** page 4, **7302-21** page 12
1533-200	0-200mm/0-8"	±0.05mm	310	80	11	16	30	**7315-21** page 4, **7302-21** page 12
1533-500	0-500mm/0-20"	±0.07mm	680	150	12.5	24	50	**7315-22** page 4, **7302-22** page 12



Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required) (mm)

Code	Range	Accuracy	L	a	b	c	Ød
1533-150WL	0-150mm/0-6"	±0.04mm	245	50	11	16	20
1533-200WL	0-200mm/0-8"	±0.05mm	310	80	11	16	30
1533-500WL	0-500mm/0-20"	±0.07mm	680	150	12.5	24	50



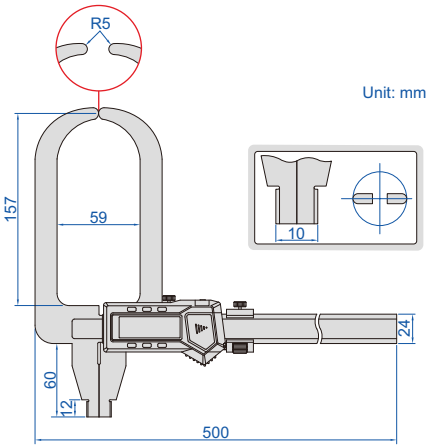
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DATA OUTPUT

DIGITAL WALL THICKNESS CALIPERS



1536-300



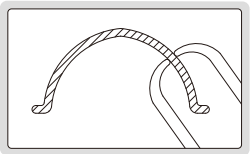
With data interface (data output cable code 7315-22 page 4, **7302-22** page 12, **optional)**

Code	Range	Accuracy
1536-300	0-300mm/0-12"	±0.05mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1536-300WL	0-300mm/0-12"	±0.05mm

- Non waterproof
- Measure wall thickness of helmets, domes and curved pots
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS, data preset
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



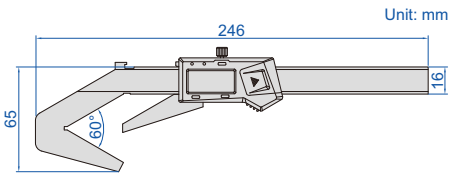
ATTENTION: ACTUAL DIAMETER IS 2/3 OF THE READING

DIGITAL V SHAPE CALIPER

- Non waterproof
- Measure outside diameter of three number of flutes (such as taps, reamers, end mills and gears)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Battery CR2032
- Automatic power off, move the digital unit to turn on power
- Data output
- Made of stainless steel



1539-3



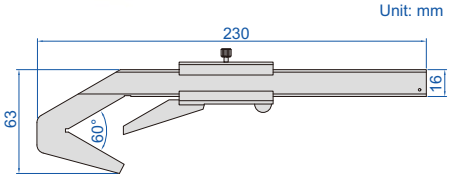
Code	Range	Accuracy
1539-3	Ø4-Ø40mm/0.16"-1.58" DIA	±0.03mm

V SHAPE VERNIER CALIPER

- Measure outside diameter of three number of flutes (such as taps, reamers, end mills and gears)
- Made of stainless steel
- Satin chrome plated reading surface



1273-403



Code	Range	Graduation	Accuracy
1273-403	Ø4-40mm	0.05mm	±0.05mm

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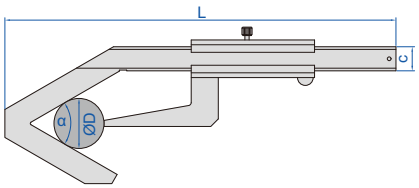
2

V SHAPE VERNIER CALIPERS

- Measure outside diameter of odd number of flutes (such as taps, reamers, end mills and gears)
- Made of stainless steel
- Satin chrome plated reading surface
- Optional accessory: 4mm pin gage (code **4110-4D00**), Ø50mm calibration cylinder (code **6316-50**)



1229-3



Code	Range (ØD)	Graduation	Accuracy	Flutes	Angle α	L	c
1229-3	Ø4-60mm	0.02mm	±0.04mm	3	60°	260mm	16mm
1229-35	Ø50-200mm	0.02mm	±0.06mm	3	60°	516mm	20mm
1229-5	Ø4-60mm	0.02mm	±0.04mm	5	108°	210mm	16mm
1229-55	Ø50-200mm	0.02mm	±0.06mm	5	108°	360mm	20mm

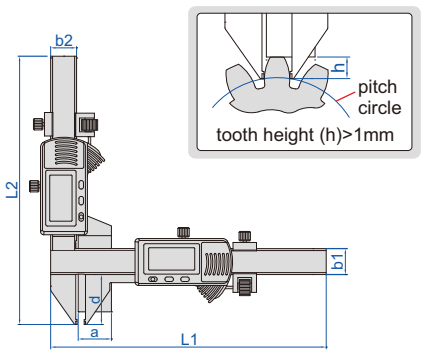
DIGITAL GEAR TOOTH CALIPERS

ATTENTION: NO DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Carbide tips
- Measure the tooth thickness by positioning the tooth height (for tooth height>1mm)
- Buttons: zero, on/off, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

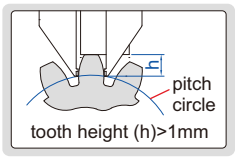


1181-M25A



Code	Range	Accuracy of height measurement	Accuracy of thickness measurement	Total accuracy	L1	L2	a	b1	b2	d
1181-M25A	M1-25mm	±0.03mm	±0.03mm	±0.04mm	170mm	165.5mm	21mm	16mm	16mm	30.5mm
1181-M50A	M5-50mm	±0.03mm	±0.03mm	±0.04mm	220mm	190mm	50.5mm	16mm	16mm	55mm

GEAR TOOTH VERNIER CALIPER

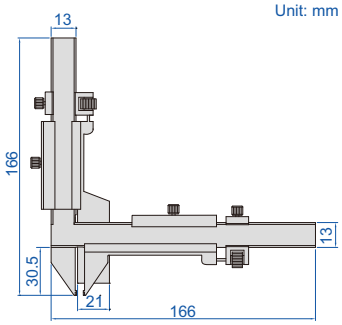


- Carbide tips
- Measure the tooth thickness by positioning the tooth height (for tooth height>1mm)
- Made of stainless steel
- Satin chrome plated reading surface



1281-M26A

Unit: mm



Code	Range	Graduation	Accuracy of height measurement	Accuracy of thickness measurement	Total accuracy
1281-M26A	M1-26mm	0.02mm	±0.03mm	±0.03mm	±0.04mm

REFER TO PAGE 191 FOR DETAILS

DIGITAL ARC RADIUS CALIPERS



1189-150B

REFER TO PAGE 393 FOR DETAILS

DIGITAL SCRIBING CALIPERS



1166-150A

DIGITAL DISK BRAKE CALIPERS

RELATIVE PRODUCT: DISK BRAKE MICROMETER (CODE 3288-, 3588-)

DATA OUTPUT

- Non waterproof
- Measure thickness of disk brakes
- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



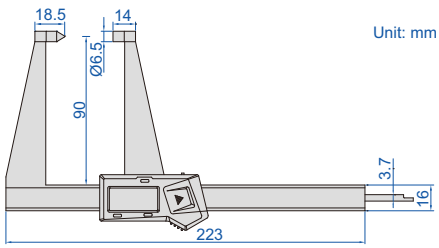
1162-125A

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1162-125A	0-125mm/0-5"	±0.05mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1162-125AWL	0-125mm/0-5"	±0.05mm





DIGITAL DISK BRAKE AND PAD CALIPERS

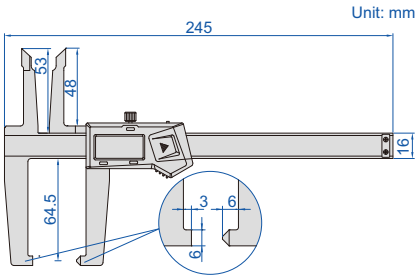
DATA OUTPUT

RELATIVE PRODUCT: DISK BRAKE MICROMETER (CODE 3288-, 3588-)

- Non waterproof
- Measure thickness of disk brakes and pad wear
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1167-150A



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1167-150A	0-150mm/0-6"	±0.07mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1167-150AWL	0-150mm/0-6"	±0.07mm





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2

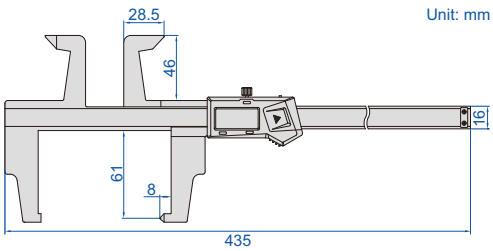
DIGITAL DRUM BRAKE CALIPERS

RELATIVE PRODUCT: DISK BRAKE MICROMETER (CODE 3288-, 3588-)

DATA OUTPUT



1168-300A



- Non waterproof
- Measure internal and external diameter of drum brakes
- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1168-300A	0-300mm/0-12"	±0.07mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1168-300AWL	0-300mm/0-12"	±0.07mm





DIGITAL DRUM BRAKE CALIPER

DATA OUTPUT

calibration block (included)

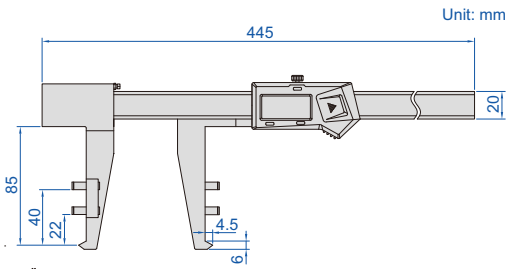


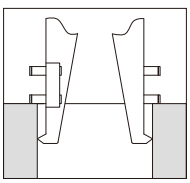


1538-300

- Non waterproof
- Measure internal diameter of drum brakes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (code **7315-22** page 4, **7302-22** page 12)

Code	Range	Accuracy
1538-300	30-300mm/1.2-12"	±0.05mm





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INSIZE

DEPTH MEASURMENT

03



Digital Depth Gages
Page 66-70



Dial Depth Gages
Page 70



Vernier Depth Gages
Page 70-72



Extension Bases
Page 72



Mini Depth Gages
Page 72-73



Depth Gages
Page 74-77



Depth Micrometers
Page 78-79



Depth Micrometer Checkers
Page 79

IP67 WATERPROOF DIGITAL DEPTH GAGES

IP67 WATERPROOF

ATTENTION: NO DATA OUTPUT

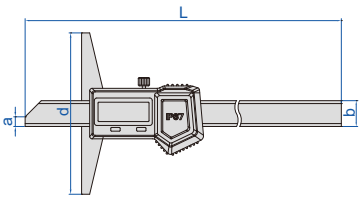
ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

3

- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch, ABS/REL, hold
- Meet DIN862
- Battery CR2032
- Made of stainless steel



1149-150



Code	Range	Accuracy	L	a	b	d
1149-150	0-150mm/0-6"	±0.03mm	240mm	6mm	16mm	100mm
1149-200	0-200mm/0-8"	±0.03mm	290mm	6mm	16mm	100mm
1149-300	0-300mm/0-12"	±0.03mm	390mm	6mm	16mm	150mm

DIGITAL DEPTH GAGES (STANDARD TYPE)

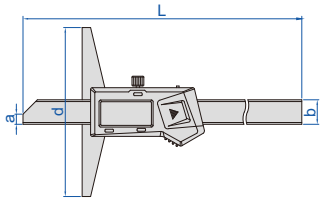
POPULAR MODEL

DATA OUTPUT

- Non waterproof
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862 (except 0-500mm/0-20", 0-1000mm/0-40", 0-1500mm/0-60")
- Battery CR2032
- Made of stainless steel



1141-150A



With data interface

Code	Range	Resolution	Accuracy	L	a	b	d	Data output cable (optional)
1141-150A	0-150mm/0-6"	0.01mm/0.0005"	±0.03mm	230mm	6mm	14.5mm	100mm	**7315-21** page 4, **7302-21** page 12
1141-200A	0-200mm/0-8"	0.01mm/0.0005"	±0.03mm	280mm	6mm	14.5mm	100mm	**7315-21** page 4, **7302-21** page 12
1141-300A	0-300mm/0-12"	0.01mm/0.0005"	±0.03mm	380mm	6mm	14.5mm	150mm	**7315-21** page 4, **7302-21** page 12
1141-500A	0-500mm/0-20"	0.01mm/0.0005"	±0.05mm	585mm	7mm	15mm	150mm	**7315-22** page 4, **7302-22** page 12
1141-5001A	0-500mm/0-20"	0.01mm/0.0005"	±0.05mm	585mm	7mm	15mm	200mm	**7315-22** page 4, **7302-22** page 12
1141-1000A	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1188mm	7mm	18mm	150mm	**7315-22** page 4, **7302-22** page 12
1141-10001A	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1188mm	7mm	18mm	200mm	**7315-22** page 4, **7302-22** page 12
1141-10002A	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1188mm	7mm	18mm	250mm	**7315-22** page 4, **7302-22** page 12
1141-10003A	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1188mm	7mm	18mm	300mm	**7315-22** page 4, **7302-22** page 12
1141-1500A	0-1500mm/0-60"	0.01mm/0.0005"	±0.11mm	1695mm	7mm	18mm	200mm	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Resolution	Accuracy	L	a	b	d
1141-150AWL	0-150mm/0-6"	0.01mm/0.0005"	±0.03mm	230mm	6mm	14.5mm	100mm
1141-200AWL	0-200mm/0-8"	0.01mm/0.0005"	±0.03mm	280mm	6mm	14.5mm	100mm
1141-300AWL	0-300mm/0-12"	0.01mm/0.0005"	±0.03mm	380mm	6mm	14.5mm	150mm
1141-500AWL	0-500mm/0-20"	0.01mm/0.0005"	±0.05mm	585mm	7mm	15mm	150mm
1141-5001AWL	0-500mm/0-20"	0.01mm/0.0005"	±0.05mm	585mm	7mm	15mm	200mm

DATA OUTPUT

DIGITAL DEPTH GAGES WITH MOUNTING HOLES FOR EXTENSION BASE



1147-300

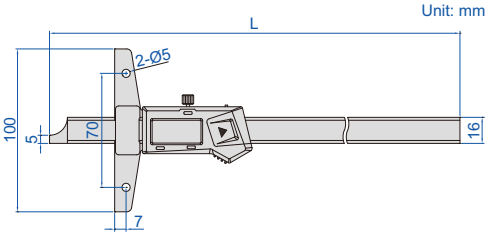
- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032
- Made of stainless steel
- Optional accessory: extension base (code **6141**)

extension base (**optional**)



6141 series

Unit: mm



With data interface
(data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	L
1147-150	0-150mm/0-6"	±0.03mm	237mm
1147-200	0-200mm/0-8"	±0.03mm	287mm
1147-300	0-300mm/0-12"	±0.03mm	403mm
1147-500	0-500mm/0-20"	±0.05mm	605mm
1147-700	0-700mm/0-28"	±0.06mm	805mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

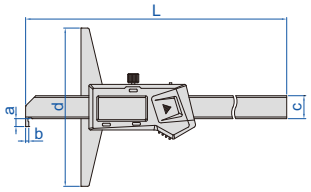
Code	Range	Accuracy	L
1147-150WL	0-150mm/0-6"	±0.03mm	237mm
1147-200WL	0-200mm/0-8"	±0.03mm	287mm
1147-300WL	0-300mm/0-12"	±0.03mm	403mm
1147-500WL	0-500mm/0-20"	±0.05mm	605mm
1147-700WL	0-700mm/0-28"	±0.06mm	805mm

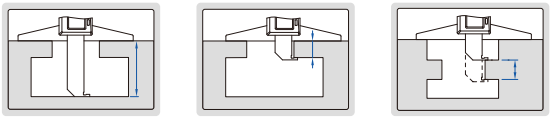
DATA OUTPUT

DIGITAL HOOK DEPTH GAGES



1142-150A





- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface

Code	Range	Accuracy	L	d	a	b	c	Data output cable (optional)
1142-150A	0-150mm/0-6"	±0.03mm	230mm	100mm	5mm	2mm	14.5mm	**7315-21** page 4, **7302-21** page 12
1142-200A	0-200mm/0-8"	±0.03mm	280mm	100mm	5mm	2mm	14.5mm	**7315-21** page 4, **7302-21** page 12
1142-300A	0-300mm/0-12"	±0.04mm	380mm	150mm	5mm	2mm	14.5mm	**7315-21** page 4, **7302-21** page 12
1142-500A	0-500mm/0-20"	±0.05mm	585mm	150mm	8mm	3mm	15mm	**7315-22** page 4, **7302-22** page 12
1142-5001A	0-500mm/0-20"	±0.05mm	585mm	200mm	8mm	3mm	15mm	**7315-22** page 4, **7302-22** page 12
1142-1000A	0-1000mm/0-40"	±0.07mm	1188mm	150mm	10mm	4mm	18mm	**7315-22** page 4, **7302-22** page 12
1142-10001A	0-1000mm/0-40"	±0.07mm	1188mm	200mm	10mm	4mm	18mm	**7315-22** page 4, **7302-22** page 12
1142-10002A	0-1000mm/0-40"	±0.07mm	1188mm	250mm	10mm	4mm	18mm	**7315-22** page 4, **7302-22** page 12

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L	d	a	b	c
1142-150AWL	0-150mm/0-6"	±0.03mm	230mm	100mm	5mm	2mm	14.5mm
1142-200AWL	0-200mm/0-8"	±0.03mm	280mm	100mm	5mm	2mm	14.5mm
1142-300AWL	0-300mm/0-12"	±0.04mm	380mm	150mm	5mm	2mm	14.5mm
1142-500AWL	0-500mm/0-20"	±0.05mm	585mm	150mm	8mm	3mm	15mm
1142-5001AWL	0-500mm/0-20"	±0.05mm	585mm	200mm	8mm	3mm	15mm

3

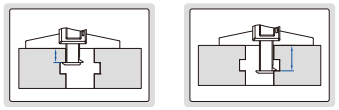
DIGITAL DOUBLE HOOK DEPTH GAGES

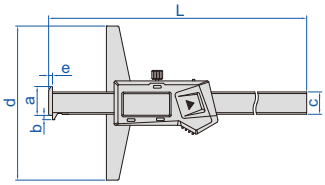
DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032
- Made of stainless steel



1144-150A





With data interface

Code	Range	Accuracy	L	d	a	b	c	e	Data output cable (optional)
1144-150A	0-150mm/0-6"	±0.03mm	233mm	100mm	21.5mm	3.5mm	14.5mm	2.5mm	**7315-21** page 4, **7302-21** page 12
1144-200A	0-200mm/0-8"	±0.03mm	283mm	100mm	21.5mm	3.5mm	14.5mm	2.5mm	**7315-21** page 4, **7302-21** page 12
1144-300A	0-300mm/0-12"	±0.03mm	383mm	150mm	21.5mm	3.5mm	14.5mm	2.5mm	**7315-21** page 4, **7302-21** page 12
1144-500A	0-500mm/0-20"	±0.05mm	585mm	150mm	25mm	5mm	15mm	3mm	**7315-22** page 4, **7302-22** page 12
1144-5001A	0-500mm/0-20"	±0.05mm	585mm	200mm	25mm	5mm	15mm	3mm	**7315-22** page 4, **7302-22** page 12
1144-1000A	0-1000mm/0-40"	±0.07mm	1188mm	150mm	32mm	7mm	18mm	4mm	**7315-22** page 4, **7302-22** page 12
1144-10001A	0-1000mm/0-40"	±0.07mm	1188mm	200mm	32mm	7mm	18mm	4mm	**7315-22** page 4, **7302-22** page 12
1144-10002A	0-1000mm/0-40"	±0.07mm	1188mm	250mm	32mm	7mm	18mm	4mm	**7315-22** page 4, **7302-22** page 12

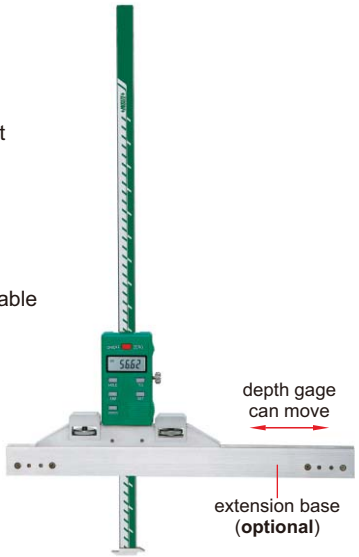
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L	d	a	b	c	e
1144-150AWL	0-150mm/0-6"	±0.03mm	233mm	100mm	21.5mm	3.5mm	14.5mm	2.5mm
1144-200AWL	0-200mm/0-8"	±0.03mm	283mm	100mm	21.5mm	3.5mm	14.5mm	2.5mm
1144-300AWL	0-300mm/0-12"	±0.03mm	383mm	150mm	21.5mm	3.5mm	14.5mm	2.5mm
1144-500AWL	0-500mm/0-20"	±0.05mm	585mm	150mm	25mm	5mm	15mm	3mm
1144-5001AWL	0-500mm/0-20"	±0.05mm	585mm	200mm	25mm	5mm	15mm	3mm

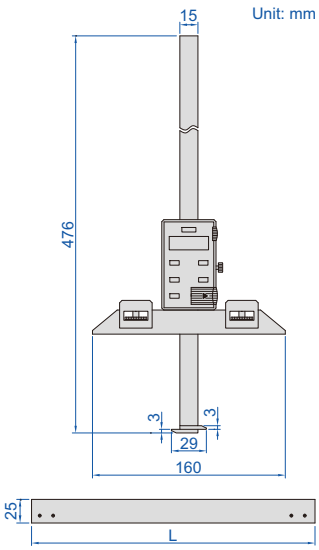
DIGITAL DOUBLE HOOK DEPTH GAGE

DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set
- ABS/INC is for absolute and incremental measurement
- TOL is for tolerance measurement
- Made of stainless steel
- LR44 battery, data output
- Supplied with gage block for zero setting
- Optional accessory: extension base, wireless transmitter (code **7315-1150** page 6), data output cable (code **7302-SPC7** page 13, keyboard format)



1540-300



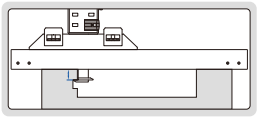
Code	Range	Accuracy
1540-300	0-300mm/0-12"	±0.04mm

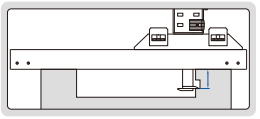
Extension base (optional)

Code	L
1540-L300	300mm
1540-L400	400mm
1540-L500	500mm
1540-L600	600mm
1540-L800	800mm

gage block for zero setting (included)







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MEASURE WIDTH AND DEPTH OF GROOVES INSIDE BORE | MEASURE DEPTH OF SMALL HOLES (>Ø4mm) | DATA OUTPUT

DIGITAL DEPTH GAGES WITH ROUND DEPTH BAR

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Supplied with three interchangeable points (flat, spherical, disk)
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: extension base (code **6141**, for **1148-120**, **1148-120WL**, **1148-200**, **1148-200WL**, **1148-300** and **1148-300WL**)

preset buttons

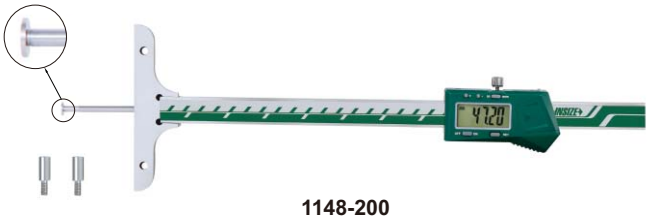




1148-100S

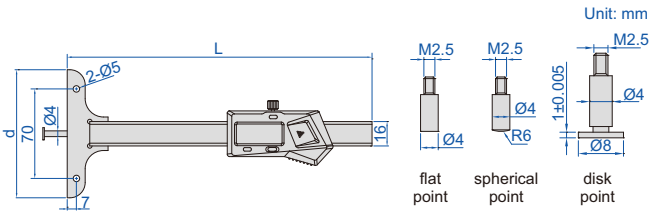


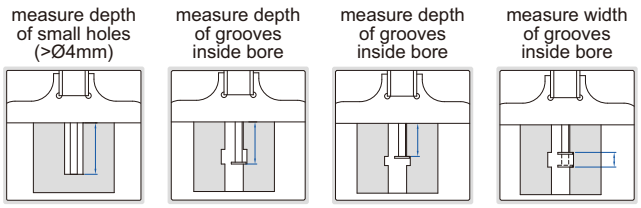
1148-120



1148-200

Unit: mm





With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range*	Accuracy	L	d	Remark
1148-100S	0-100mm/0-4"	±0.02mm	200mm	45mm	
1148-100	0-100mm/0-4"	±0.02mm	200mm	85mm	
1148-120	0-120mm/0-4.7"	±0.03mm	300mm	101mm	one-hand use, with mounting holes for extension base
1148-200	0-200mm/0-8"	±0.03mm	300mm	101mm	with mounting holes for extension base
1148-300	0-300mm/0-12"	±0.04mm	400mm	101mm	with mounting holes for extension base

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range*	Accuracy	L	d	Remark
1148-100SWL	0-100mm/0-4"	±0.02mm	200mm	45mm	
1148-100WL	0-100mm/0-4"	±0.02mm	200mm	85mm	
1148-120WL	0-120mm/0-4.7"	±0.03mm	300mm	101mm	one-hand use, with mounting holes for extension base
1148-200WL	0-200mm/0-8"	±0.03mm	300mm	101mm	with mounting holes for extension base
1148-300WL	0-300mm/0-12"	±0.04mm	400mm	101mm	with mounting holes for extension base

*When disk points are used, the range is reduced by 10mm

one-hand use of **1148-120** and **1148-120WL**

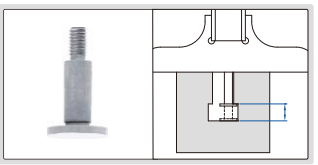


extension base for **1148-120**, **1148-120WL**, **1148-200**, **1148-200WL**, **1148-300** and **1148-300WL** (**optional**)



6141 series

1148-P103 (**optional**), measure width of bottom grooves inside blind hole



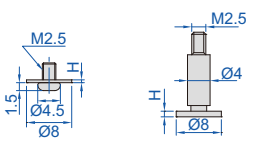
OPTIONAL DISK POINTS

Code	Description	H	Remark
1148-P101	0.5mm disk point	0.5±0.005mm	for narrow grooves
1148-P102	0.7mm disk point	0.7±0.005mm	for narrow grooves
1148-P103	1mm disk point	1±0.005mm	for grooves inside blind hole
1148-P104	0.5mm disk point	0.5±0.005mm	for grooves inside blind hole

1148-P101 (**optional**)



Unit: mm



1148-P101 and **1148-P102**

1148-P103 and **1148-P104**

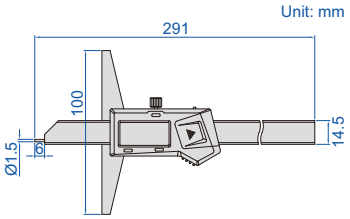
DIGITAL POINT DEPTH GAGES

DATA OUTPUT

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032
- Made of stainless steel



1143-200A

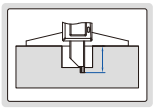


With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1143-200A	0-200mm/0-8"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1143-200AWL	0-200mm/0-8"	±0.03mm



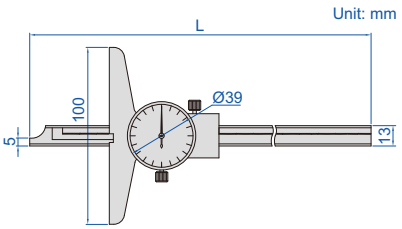
DIAL DEPTH GAGES

SHOCK PROOF



- Shockproof dial indicator
- Made of stainless steel

1340-150

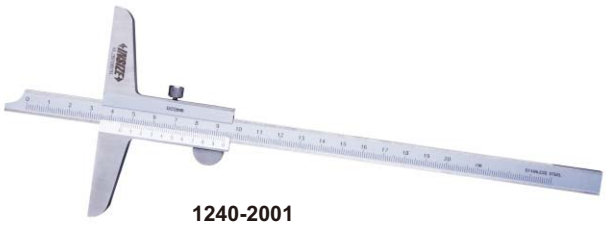


Code	Range	Graduation	Accuracy	L
1340-150	0-150mm	0.02mm	±0.03mm	232mm
1340-200	0-200mm	0.02mm	±0.03mm	282mm
1340-300	0-300mm	0.02mm	±0.04mm	382mm

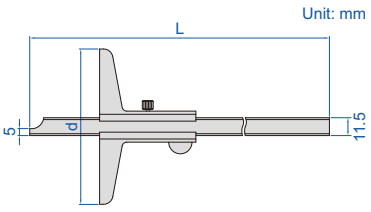
VERNIER DEPTH GAGES (STANDARD TYPE)

POPULAR MODEL

- Made of stainless steel
- Satin chrome plated reading surface



1240-2001



Graduation 0.05mm

Code	Range	Accuracy	L	d
1240-150	0-150mm	±0.05mm	245mm	100mm
1240-200	0-200mm	±0.05mm	282mm	100mm
1240-300	0-300mm	±0.08mm	382mm	100mm
1240-500	0-500mm	±0.09mm	585mm	150mm

Graduation 0.02mm

Code	Range	Accuracy	L	d
1240-1501	0-150mm	±0.03mm	245mm	100mm
1240-2001	0-200mm	±0.03mm	282mm	100mm
1240-3001	0-300mm	±0.04mm	382mm	100mm
1240-5001	0-500mm	±0.05mm	585mm	150mm

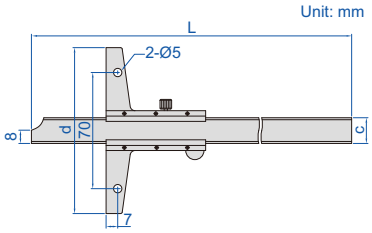
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VERNIER DEPTH GAGES

extension base (**optional**)



- Made of stainless steel
- Satin chrome plating finish on reading surface
- Optional accessory: extension base (code **6141**)



WITH MOUNTING HOLES FOR EXTENSION BASE



1247-2001

Graduation 0.05mm

Code	Range	Accuracy
1247-150	0-150mm	±0.05mm
1247-200	0-200mm	±0.05mm
1247-300	0-300mm	±0.08mm
1247-600	0-600mm	±0.10mm
1247-1000	0-1000mm	±0.15mm

Graduation 0.02mm

Code	Range	Accuracy
1247-1501	0-150mm	±0.03mm
1247-2001	0-200mm	±0.03mm
1247-3001	0-300mm	±0.04mm
1247-6001	0-600mm	±0.05mm
1247-1001	0-1000mm	±0.07mm

Range	L	c	d
0-150mm	240mm	16mm	100mm
0-200mm	290mm	16mm	100mm
0-300mm	390mm	16mm	100mm
0-600mm	704mm	16mm	150mm
0-1000mm	1124mm	16mm	200mm

VERNIER DEPTH GAGES WITH FINE ADJUSTMENT

WITH MOUNTING HOLES FOR EXTENSION BASE

- With fine adjustment
- Made of stainless steel
- Satin chrome plating finish on reading surface
- Optional accessory: extension base (code **6141**)



1249-1501

Graduation 0.05mm

Code	Range	Accuracy
1249-150	0-150mm	±0.05mm
1249-200	0-200mm	±0.05mm
1249-300	0-300mm	±0.08mm

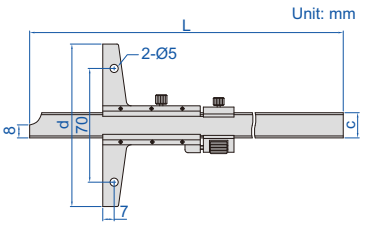
Graduation 0.02mm

Code	Range	Accuracy
1249-1501	0-150mm	±0.03mm
1249-2001	0-200mm	±0.03mm
1249-3001	0-300mm	±0.04mm

extension base (**optional**)



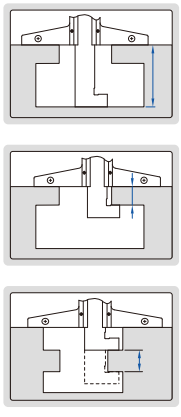
Range	L	c	d
0-150mm	256mm	16mm	100mm
0-200mm	306mm	16mm	100mm
0-300mm	406mm	16mm	100mm



VERNIER HOOK DEPTH GAGES

WITH MOUNTING HOLES FOR EXTENSION BASE

- Made of stainless steel
- Satin chrome plating finish on reading surface
- Optional accessory: extension base (code **6141**)





1248-1501

Graduation 0.05mm

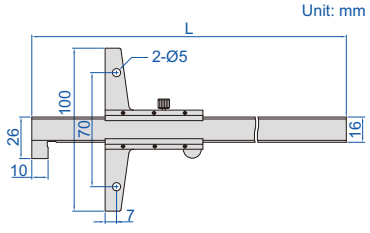
Code	Range	Accuracy	L
1248-150	0-150mm	±0.05mm	266mm
1248-200	0-200mm	±0.05mm	316mm
1248-300	0-300mm	±0.08mm	416mm

Graduation 0.02mm

Code	Range	Accuracy	L
1248-1501	0-150mm	±0.03mm	266mm
1248-2001	0-200mm	±0.03mm	316mm
1248-3001	0-300mm	±0.04mm	416mm

extension base (**optional**)





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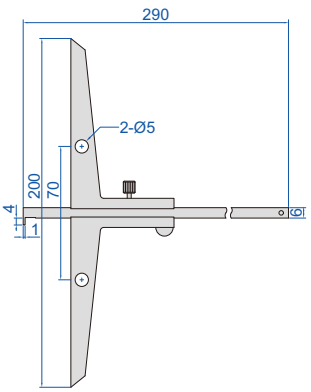
3

VERNIER HOOK DEPTH GAGE

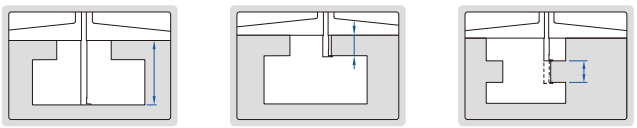


1243-2001

Unit: mm



- Graduation 0.02mm
- Made of stainless steel
- Satin chrome plating finish on reading surface



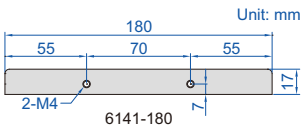
Code	Range	Accuracy
1243-2001	0-200mm	±0.04mm

EXTENSION BASES

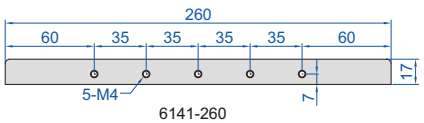


6141-260

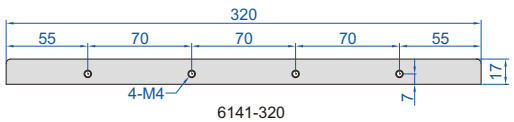
Unit: mm



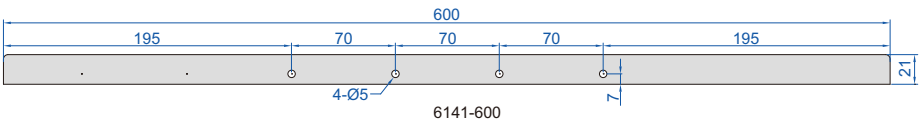
6141-180



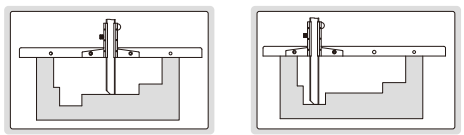
6141-260



6141-320



6141-600



- Supplied with two screws
- Made of stainless steel
- Suitable for depth gages series **1147**, **1148**, **1247**, **1248** and **1249**

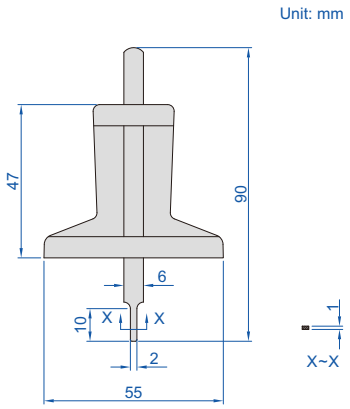
Code	Length
6141-180	180mm
6141-260	260mm
6141-320	320mm
6141-600	600mm

MINI VERNIER DEPTH GAGE



1244-30

Unit: mm



- Graduation: 0.1mm
- Made of stainless steel

Code	Range	Accuracy
1244-30	0-30mm	±0.10mm

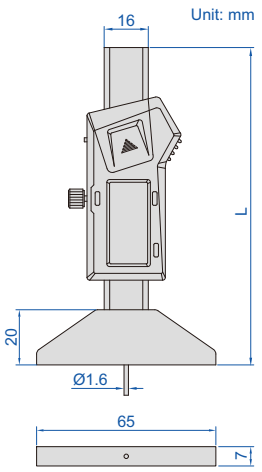
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DATA OUTPUT

MINI DIGITAL DEPTH GAGES WITH ROUND BAR







- Non waterproof
- Measure depth of small groove and hole
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+,-)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

1140-25

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	L
1140-25	0-25mm/0-1"	±0.02mm	114mm
1140-50	0-50mm/0-2"	±0.02mm	140mm
1140-100	0-100mm/0-4"	±0.02mm	190mm
1140-150	0-150mm/0-6"	±0.03mm	236mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	L
1140-25WL	0-25mm/0-1"	±0.02mm	114mm
1140-50WL	0-50mm/0-2"	±0.02mm	140mm
1140-100WL	0-100mm/0-4"	±0.02mm	190mm
1140-150WL	0-150mm/0-6"	±0.03mm	236mm

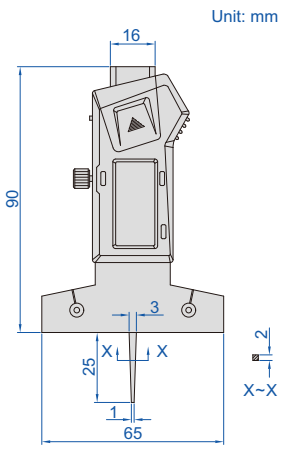
MINI DIGITAL DEPTH GAGES

DATA OUTPUT









- Non waterproof
- Measure depth of small groove and hole, also measure depth of tire tread
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Supplied with zero set surface
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

1145-25A

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1145-25A	0-25mm/0-1"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1145-25AWL	0-25mm/0-1"	±0.03mm

3

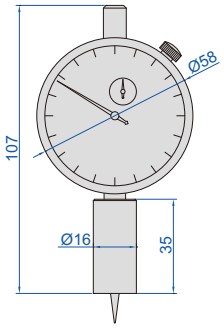
DIAL DEPTH GAGES

- Accuracy: ±0.017mm
- Stainless steel base
- Pointed tip

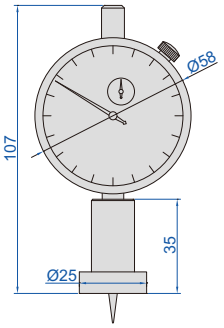


2343-102

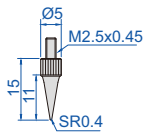
Unit: mm



2343-101



2343-102



pointed tip

Code	Range	Dial indicator stroke	Dial indicator graduation	Base
2343-101	0-10mm	10mm	0.01mm	Ø16mm
2343-102	0-10mm	10mm	0.01mm	Ø25mm

DIGITAL DEPTH GAGES

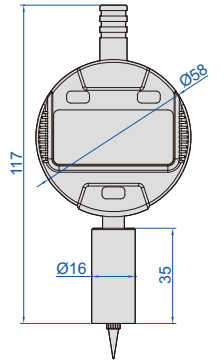
DATA OUTPUT

- Button function: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Pointed tip
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)

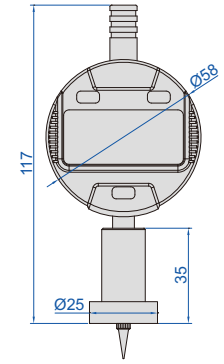


2142-102

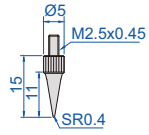
Unit: mm



2142-101/2142-301



2142-102/2142-302



pointed tip

Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy	Base
2142-101	0-12.7mm/0-0.5"	12.7mm/0.5"	0.01mm/0.0005"	±20µm	Ø16mm
2142-102	0-12.7mm/0-0.5"	12.7mm/0.5"	0.01mm/0.0005"	±20µm	Ø25mm
2142-301	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±5µm	Ø16mm
2142-302	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±5µm	Ø25mm

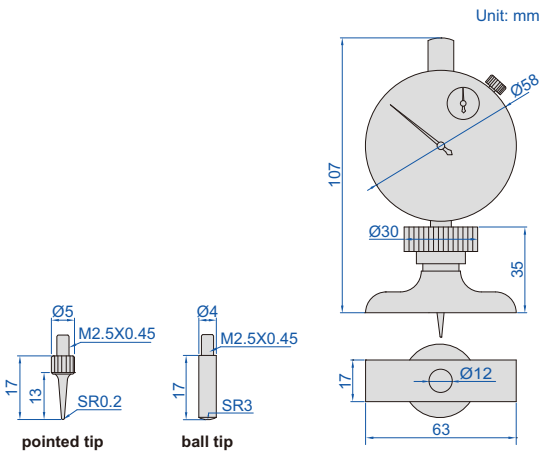
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DIAL DEPTH GAGE

- Accuracy: ±0.017mm
- Stainless steel base
- Supplied with pointed tip and ball tip



2341-101A



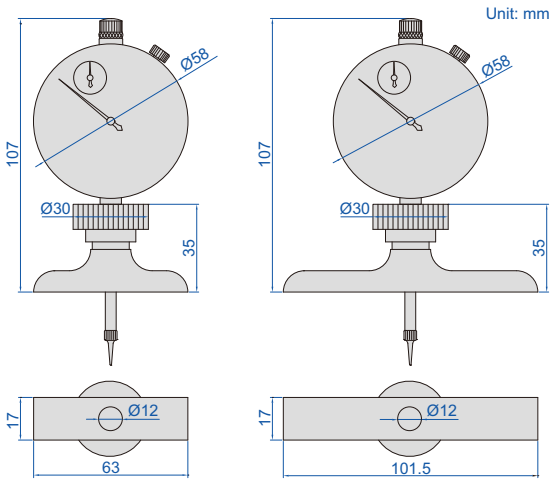
Code	Range	Dial indicator stroke	Dial indicator graduation
2341-101A	0-10mm	10mm	0.01mm

DIAL DEPTH GAGES



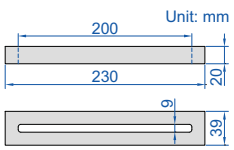
2342-202



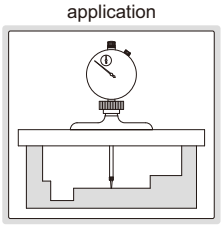


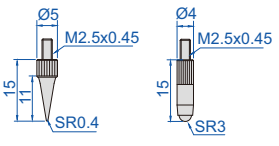


2141-10 (**optional**), can be customized according to workpieces

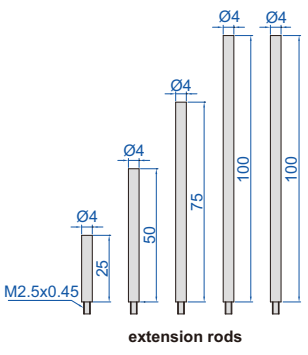


application





- Dial indicator graduation: 0.01mm
- Accuracy: ±0.03mm
- Stainless steel base
- Extension rods: 25mm (1 pc), 50mm (1 pc), 75mm (1 pc), 100mm (2 pcs)
- Supplied with pointed tip and ball tip
- Optional accessory: granite extension holder (code **2141-10**)



Code	Range	Dial indicator stroke	Base
2342-201	0-300mm	30mm	63x17mm
2342-202	0-300mm	30mm	101.5x17mm

DIGITAL DEPTH GAGES

DATA OUTPUT

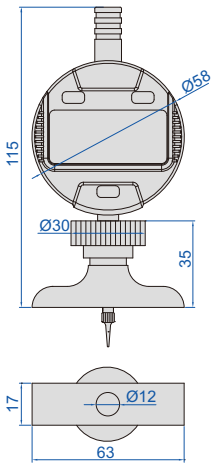
3



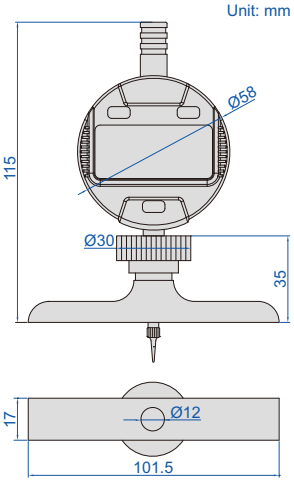
2141-202A



Unit: mm

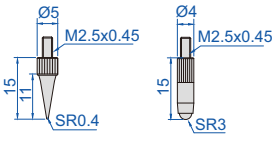


2141-201A/2141-301

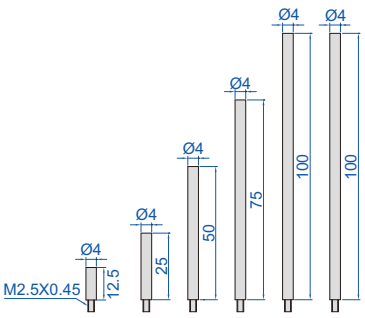


2141-202A/2141-302

- Button function: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Extension rods: 12.5mm (1 pc), 25mm (1 pc), 50mm (1 pc), 75mm (1 pc), 100mm (2 pcs)
- Supplied with pointed tip and ball tip
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13), granite extension holder (code **2141-10**)



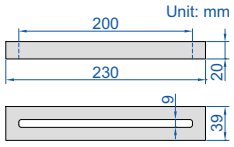
pointed tip **ball tip**



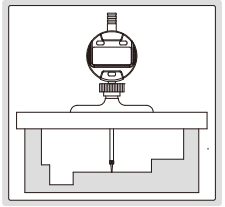
extension rods



2141-10 (**optional**), can be customized according to workpieces



application



Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy	Base
2141-201A	0-300mm/0-12"	12.7mm/0.5"	0.01mm/0.0005"	±20μm	63x17mm
2141-202A	0-300mm/0-12"	12.7mm/0.5"	0.01mm/0.0005"	±20μm	101.5x17mm
2141-301	0-300mm/0-12"	12.7mm/0.5"	0.001mm/0.00005"	±5μm	63x17mm
2141-302	0-300mm/0-12"	12.7mm/0.5"	0.001mm/0.00005"	±5μm	101.5x17mm

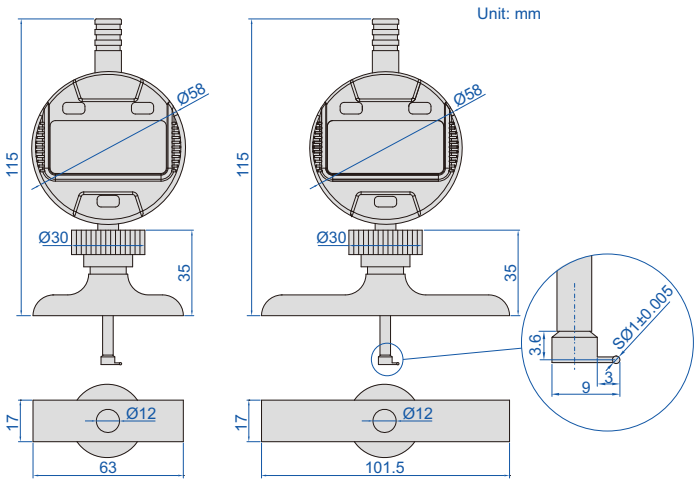
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DATA OUTPUT

DIGITAL GROOVE GAGES

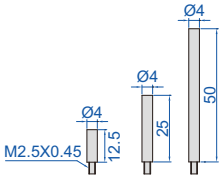


2145-202



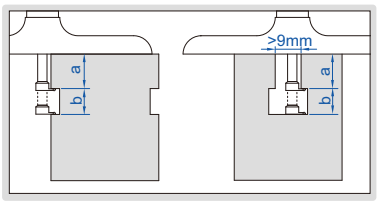
2145-201/2145-301 2145-202/2145-302

- Button function: on/off, zero, mm/inch, absolute/incremental measurement, data preset, change measuring direction
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Supplied with extension rods: 12.5mm (1 pc), 25mm (1 pc), 50mm (1 pc)
- Supplied with groove point
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)



extension rods

measure width (b) and depth (a) of groove



Code	Range (a)	Digital indicator stroke (b)	Digital indicator resolution	Accuracy	Base
2145-201	0-85mm/0-3.35"	12.7mm/0.5"	0.01mm/0.0005"	±20μm	63x17mm
2145-202	0-85mm/0-3.35"	12.7mm/0.5"	0.01mm/0.0005"	±20μm	101.5x17mm
2145-301	0-85mm/0-3.35"	12.7mm/0.5"	0.001mm/0.00005"	±5μm	63x17mm
2145-302	0-85mm/0-3.35"	12.7mm/0.5"	0.001mm/0.00005"	±5μm	101.5x17mm

DATA OUTPUT

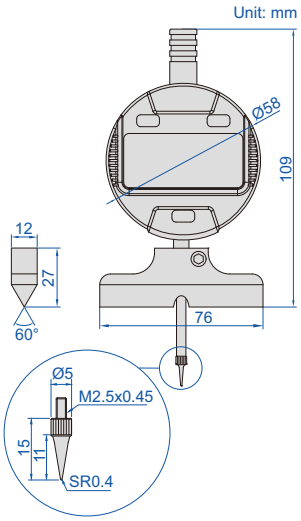
DIGITAL DEPTH GAGE (60° KNIFE EDGE BASE)

- Button function: on/off, zero, inch/mm, ABS, data preset, change measuring direction
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base with 60° knife edge
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)



front view side view

2143-101



Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
2143-101	0-12.7mm/0-0.5"	12.7mm/0.5"	0.01mm/0.0005"	±20μm

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DIGITAL DEPTH MICROMETERS

IP65 WATERPROOF

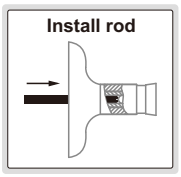
DATA OUTPUT

3

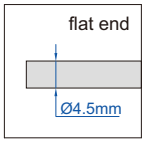
- Resolution: 0.001mm/0.00005"
- Micrometer head accuracy: +/-3µm
- Rod accuracy: +/-(2+L/75)µm, L is the measuring range in mm
- Button function: on/off, set, mm/inch, data transmit
- IP65 dust/waterproof
- Data output
- Automatic power off
- Rods with flat end
- Ratchet stop
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

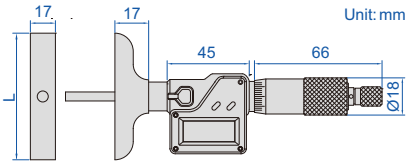


3540-50

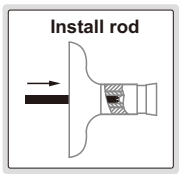


Code	Range	Rods	L
3540-25	0-25mm/0-1"	1 pc	101.5mm
3540-50	0-50mm/0-2"	2 pcs	101.5mm
3540-100	0-100mm/0-4"	4 pcs	101.5mm
3540-150	0-150mm/0-6"	6 pcs	101.5mm
3540-300	0-300mm/0-12"	12 pcs	101.5mm
3540-B25	0-25mm/0-1"	1 pc	63mm
3540-B50	0-50mm/0-2"	2 pcs	63mm
3540-B100	0-100mm/0-4"	4 pcs	63mm
3540-B150	0-150mm/0-6"	6 pcs	63mm
3540-B300	0-300mm/0-12"	12 pcs	63mm





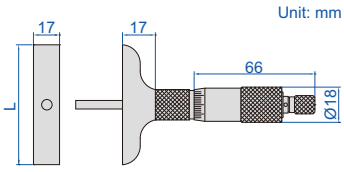
DEPTH MICROMETERS

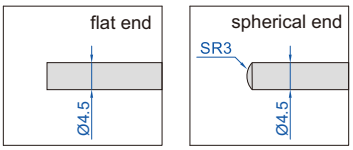


- Meet DIN863-2
- Graduation: 0.01mm
- Micrometer head accuracy: +/-3µm
- Rod accuracy: +/-(2+L/75)µm, L is the measuring range in mm
- Rods with flat or spherical end
- Ratchet stop



3240-100





Flat end

Code	Range	Rods	L
3240-25	0-25mm	1 pc	101.5mm
3240-50	0-50mm	2 pcs	101.5mm
3240-75	0-75mm	3 pcs	101.5mm
3240-100	0-100mm	4 pcs	101.5mm
3240-150	0-150mm	6 pcs	101.5mm
3240-200	0-200mm	8 pcs	101.5mm
3240-300	0-300mm	12 pcs	101.5mm
3240-B25	0-25mm	1 pc	63mm
3240-B50	0-50mm	2 pcs	63mm
3240-B100	0-100mm	4 pcs	63mm
3240-B150	0-150mm	6 pcs	63mm
3240-B300	0-300mm	12 pcs	63mm

Spherical end

Code	Range	Rods	L
3240-25S	0-25mm	1 pc	101.5mm
3240-50S	0-50mm	2 pcs	101.5mm
3240-100S	0-100mm	4 pcs	101.5mm
3240-150S	0-150mm	6 pcs	101.5mm
3240-300S	0-300mm	12 pcs	101.5mm
3240-B25S	0-25mm	1 pc	63mm
3240-B50S	0-50mm	2 pcs	63mm
3240-B100S	0-100mm	4 pcs	63mm
3240-B150S	0-150mm	6 pcs	63mm
3240-B300S	0-300mm	12 pcs	63mm

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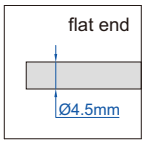
DEPTH MICROMETERS

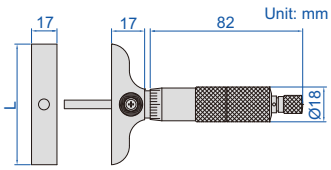
- Meet DIN863-2
- Graduation: 0.01mm
- Micrometer head accuracy: +/-3μm
- Rod accuracy: +/-(2+L/75)μm, L is the measuring range in mm
- Rods with flat end
- Ratchet stop

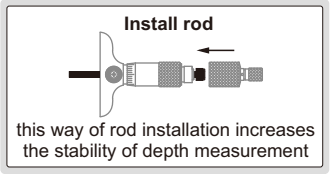
Code	Range	Rods	L
3241-25	0-25mm	1 pc	101.5mm
3241-50	0-50mm	2 pcs	101.5mm
3241-75	0-75mm	3 pcs	101.5mm
3241-100	0-100mm	4 pcs	101.5mm
3241-150	0-150mm	6 pcs	101.5mm
3241-200	0-200mm	8 pcs	101.5mm
3241-300	0-300mm	12 pcs	101.5mm
3241-B25	0-25mm	1 pc	63mm
3241-B50	0-50mm	2 pcs	63mm
3241-B100	0-100mm	4 pcs	63mm
3241-B150	0-150mm	6 pcs	63mm
3241-B300	0-300mm	12 pcs	63mm



3241-100







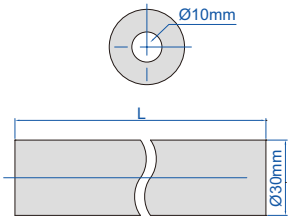
CYLINDER GAGE BLOCKS FOR DEPTH MICROMETERS

Code	Length (L)
4179-25*	25mm
4179-50*	50mm
4179-75*	75mm
4179-100*	100mm
4179-125*	125mm
4179-150*	150mm
4179-175*	175mm
4179-200*	200mm
4179-225*	225mm
4179-250*	250mm
4179-275*	275mm

*Supplied with manufacturer inspection certificate



4179-25



- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Meet ISO3650 grade 1

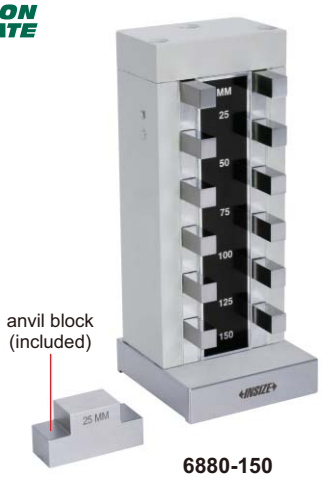
INSPECTION CERTIFICATE

application



DEPTH MICROMETER CHECKERS

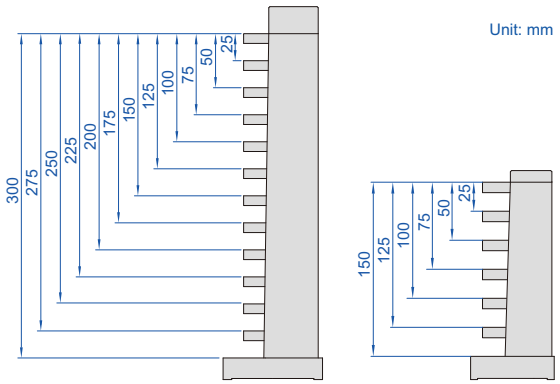
INSPECTION CERTIFICATE



6880-150

application





6880-300 6880-150

Code	Size	Range (mm)	Accuracy
6880-150*	0-150mm	25, 50, 75, 100, 125, 150	±2μm
6880-300*	0-300mm	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300	±3μm

*Supplied with manufacturer inspection certificate

- To check depth micrometers and set zero
- Constructed with steel gage blocks
- Supplied with anvil block

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04 HEIGHT MEASURMENT

INSIZE



Digital Height Gages
Page 81-83



Dial Indicator Stands
Page 83



Height Gages
Page 84-88

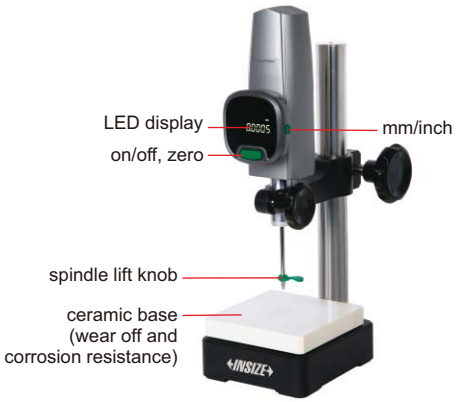


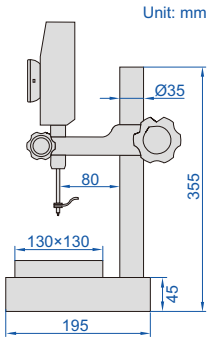
Height Gage Checkers
Page 88

VIDEO

DATA OUTPUT

HIGH PRECISION DIGITAL HEIGHT GAGES

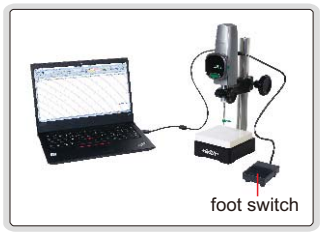




1155-505

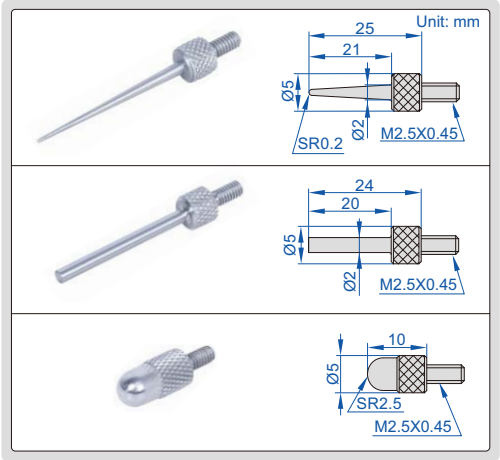


power supplied by charge pal



data transmitted to Excel without software;
short press the foot switch to transmit data,
long press to zero

measuring tips (included)



- High stability, high precision, high response speed (5000mm/s)
- High brightness LED display
- Ceramic base flatness: 1μm

Code	Range	Resolution	Accuracy (20°C)	Measuring force	Output	Power supply
1155-505	0~50mm	0.5μm/0.00002" (can switch to: 1μm/0.00005")	1.5μm	0.8~1.2N	USB	5V/1A (adapter or charge pal)
1155-510	0~50mm	0.1μm/0.000005" (can switch to: 1μm/0.00005")	1μm	0.8~1.2N	USB	5V/1A (adapter or charge pal)

STANDARD DELIVERY

Main unit	1 pc

OPTIONAL ACCESSORY

Contact point	code **6282**
Charge pal	**1155-5-POB**
Data output cable (including foot switch)	**1155-5-FOS**

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4

DIGITAL HEIGHT GAGES

DATA OUTPUT

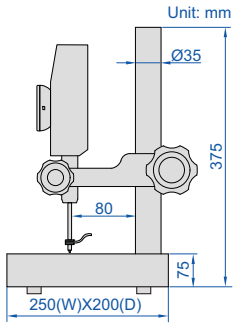
VIDEO



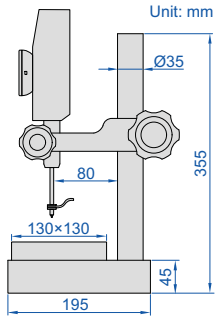
1157-501



1157-502



1157-501



1157-502

- Buttons: on/off, zero, mm/inch, mix/min/mix-min
- High response speed (5000mm/s)
- High brightness LED display

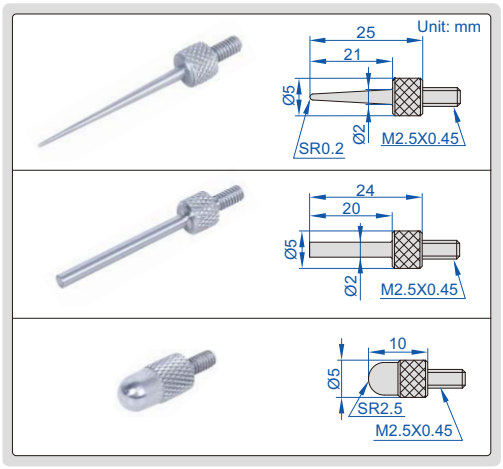


power supplied by charge pal



data transmitted to Excel without software; short press the foot switch to transmit data, long press to zero

measuring tips (included)



Code	Range	Resolution	Accuracy (20°C)	Measuring force	Output	Power supply	Base
1157-501	0~50mm	1μm/0.00005"	3μm	0.8~1.2N	USB	5V/1A (adapter or charge pal)	granite (flatness: 2μm)
1157-502	0~50mm	1μm/0.00005"	3μm	0.8~1.2N	USB	5V/1A (adapter or charge pal)	ceramic (flatness: 1μm)

STANDARD DELIVERY

Main unit	1 pc

OPTIONAL ACCESSORY

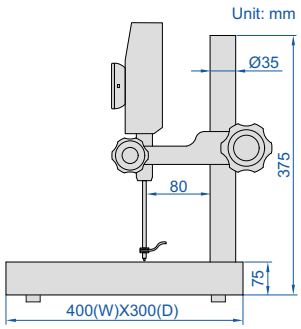
Contact point	code **6282**
Charge pal	**1155-5-POB**
Data output cable (including foot switch)	**1155-5-FOS**

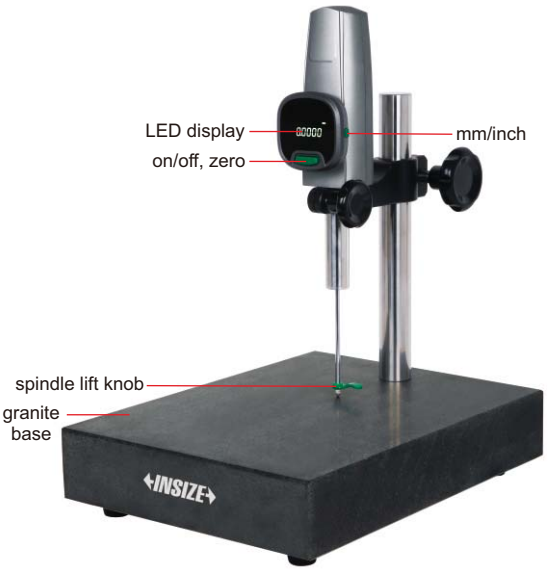
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DATA OUTPUT

LARGE RANGE DIGITAL HEIGHT GAGE

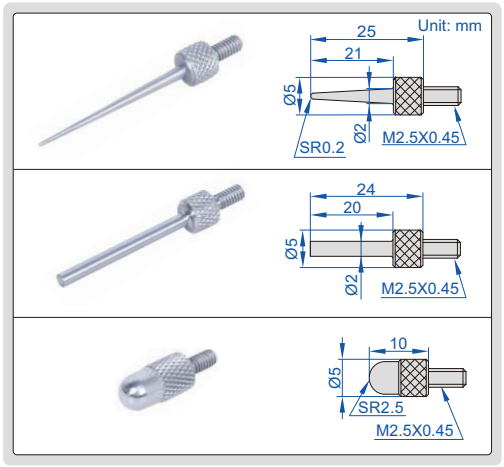
- High stability, high precision, high response speed (5000mm/s)
- High brightness LED display
- Granite base flatness: 3μm





1158-100

measuring tips (included)



VIDEO



power supplied by charge pal



data transmitted to Excel without software; short press the foot switch to transmit data, long press to zero

Code	Range	Resolution	Accuracy (20°C)	Measuring force	Output	Power supply
1158-100	0~100mm	0.1μm/0.000005" (can switch to: 1μm/0.00005")	3μm	0.8~1.2N	USB	5V/1A (adapter or charge pal)

STANDARD DELIVERY

Main unit	1 pc

OPTIONAL ACCESSORY

Contact point	code **6282**
Charge pal	**1155-5-POB**
Data output cable (including foot switch)	**1155-5-FOS**

DIAL INDICATOR STANDS

REFER TO PAGE 240~246 FOR DETAILS



6862-1001



6864-250T



6867-250

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DIGITAL HEIGHT GAGES

DATA OUTPUT

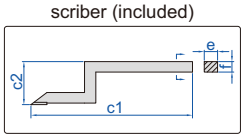
4

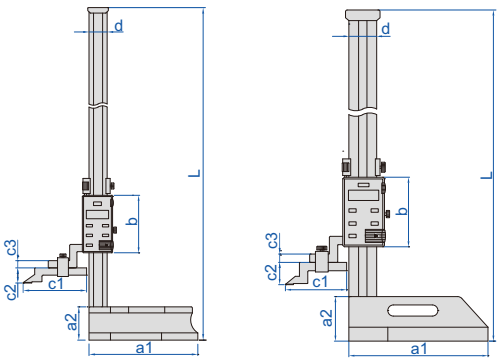
- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set
- ABS/INC is for absolute and incremental measurement
- TOL is for tolerance measurement
- Carbide tipped scriber
- Made of stainless steel (except the base)
- LR44 battery, data output
- Supplied with dial test indicator holder
- Supplied with dust cover (except **1150-1500/2000**)
- Optional accessory: wireless transmitter (code **7315-1150** page 6), data output cable (code **7302-SPC7** page 13, keyboard format), clamp for protractors (code **2372-CLAMP**, for **1150-300**)



1150-1000 **1150-500** **1150-300**

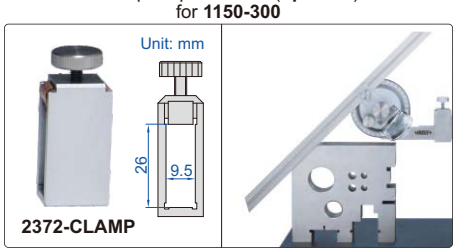
scriber (included)





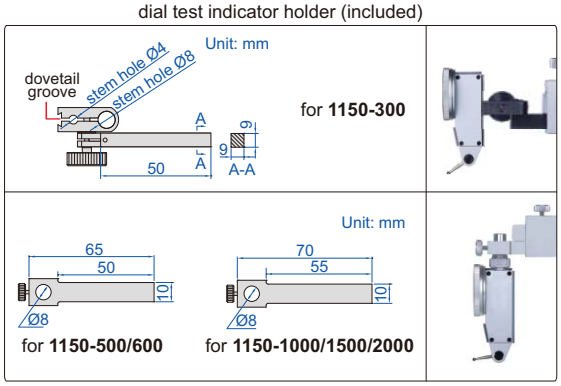
type A, type B **type C**

clamp for protractors (**optional**) for **1150-300**



2372-CLAMP

dial test indicator holder (included)

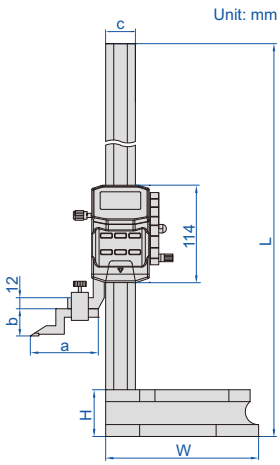


Code	Range	Type	Accuracy	L	a1	a2	b	c1	c2	c3	d	e	f
1150-300	0-300mm/0-12"	A	±0.04mm	485mm	138mm	45mm	95mm	80mm	30mm	10mm	28mm	9mm	9mm
1150-500	0-500mm/0-20"	B	±0.06mm	720mm	180mm	55mm	95mm	103mm	25mm	12mm	30mm	10mm	12mm
1150-600	0-600mm/0-24"	B	±0.06mm	820mm	180mm	55mm	95mm	103mm	25mm	12mm	30mm	10mm	12mm
1150-1000	0-1000mm/0-40"	C	±0.08mm	1275mm	250mm	80mm	125mm	110mm	39mm	15mm	50mm	10mm	15mm
1150-1500	0-1500mm/0-60"	C	±0.12mm	1790mm	280mm	80mm	125mm	110mm	39mm	15mm	50mm	10mm	15mm
1150-2000	0-2000mm/0-80"	C	±0.16mm	2290mm	280mm	80mm	125mm	110mm	39mm	15mm	50mm	10mm	15mm

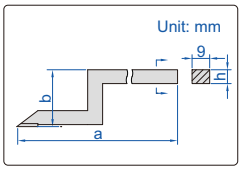
DATA OUTPUT | INSPECTION CERTIFICATE | POPULAR MODEL

DIGITAL HEIGHT GAGES WITH DRIVING WHEEL

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, preset +, preset -, ABS/INC
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
- Battery CR2032
- Data output
- Supplied with dust cover
- With dial test indicator holder
- Optional accessory: data output cable (code **7315-22** page 4, **7302-22** page 12), clamp for protractors (code **2372-CLAMP**)



scriber (included)





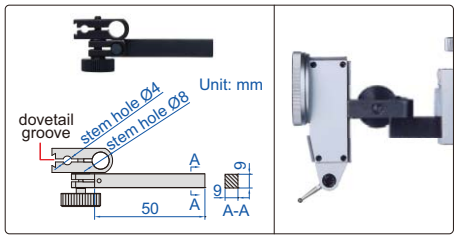
1156-300



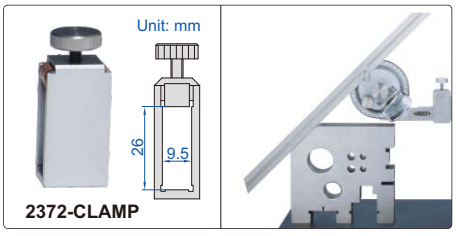


1156-1000

dial test indicator holder (included)



clamp for protractors (**optional**)



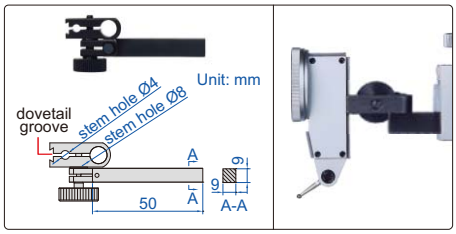
Code	Range	Accuracy	L	W	H	a	b	c	h
1156-300*	0-300mm/0-12"	±0.03mm	515mm	180mm	55mm	80mm	30mm	35mm	9mm
1156-600*	0-600mm/0-24"	±0.05mm	815mm	180mm	55mm	80mm	30mm	35mm	9mm
1156-1000*	0-1000mm/0-40"	±0.07mm	1220mm	265mm	70mm	92mm	48mm	40mm	12mm

*Supplied with manufacturer inspection certificate

DIGITAL HEIGHT GAGES

DATA OUTPUT

dial test indicator holder (included)

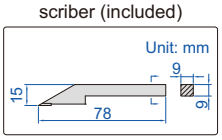


- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, data hold, ABS/INC, preset
- ABS/INC is for absolute and incremental measurement
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
- Battery CR2032, data output
- With driving wheel
- With dial test indicator holder
- Supplied with dust cover
- Optional accessory: clamp for protractors (code **2372-CLAMP**), wireless transmitter (code **7315-1151** page 6), data output cable (code **7302-1151** page 13, keyboard format)



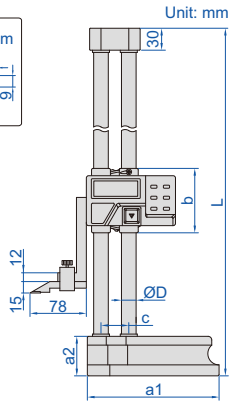
1151-300A

scriber (included)

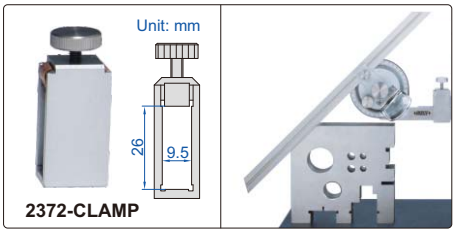




driving wheel on the back



clamp for protractors (**optional**)

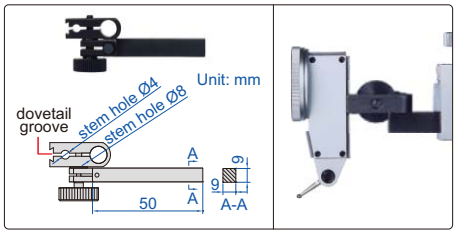


(mm)

Code	Range	Accuracy	L	a1	a2	b	c	ØD
1151-300A	0-300mm/0-12"	±0.04mm	475	135	43	84	33	15
1151-450A	0-450mm/0-18"	±0.05mm	660	180	54	88	38	20
1151-600A	0-600mm/0-24"	±0.05mm	810	180	54	88	38	20

DIAL HEIGHT GAGES

dial test indicator holder (included)

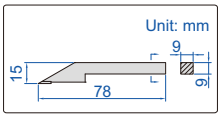


- Dial indicator graduation: 0.01mm
- One counter reads in the plus direction and another in the minus direction, so incremental measurement can be made in either direction
- Carbide tipped scriber
- Made of stainless steel (except the base)
- With driving wheel
- With dial test indicator holder
- Supplied with dust cover
- Optional accessory: clamp for protractors (code **2372-CLAMP**)



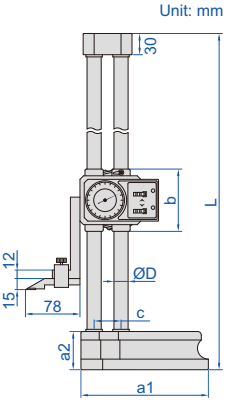
1351-300

scriber (included)

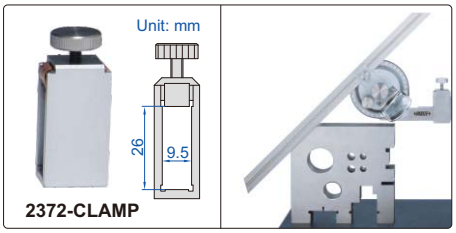




driving wheel on the back



clamp for protractors (**optional**)



(mm)

Code	Range	Accuracy	L	a1	a2	b	c	ØD
1351-300	0-300mm	±0.04mm	475	135	43	84	33	15
1351-450	0-450mm	±0.05mm	660	180	54	88	38	20
1351-600	0-600mm	±0.05mm	810	180	54	88	38	20

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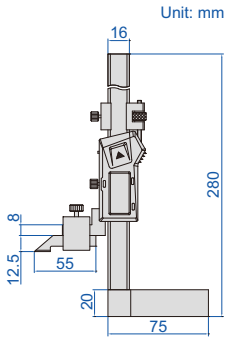
MINI DIGITAL HEIGHT GAGES

DATA OUTPUT

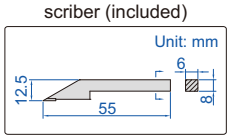
- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- With fine adjustment
- Made of stainless steel
- Battery CR2032
- Optional accessory: dial test indicator holder (code **7151-CL1**)



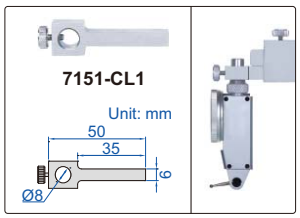
1154-150



scriber (included)



dial test indicator holder (**optional**)



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1154-150	0-150mm/0-6"	±0.03mm

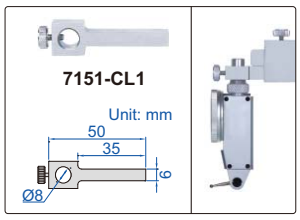
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

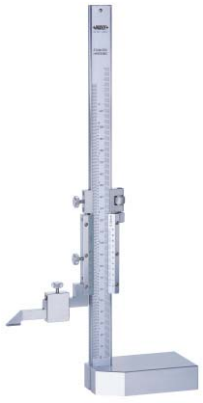
Code	Range	Accuracy
1154-150WL	0-150mm/0-6"	±0.03mm

MINI VERNIER HEIGHT GAGES

- Graduation: 0.02mm/0.001"
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- Optional accessory: dial test indicator holder (code **7151-CL1**)

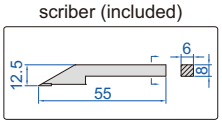
dial test indicator holder (**optional**)

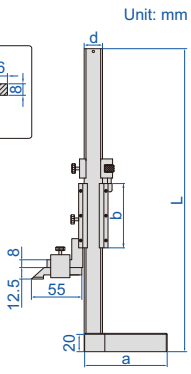




1253-200

scriber (included)



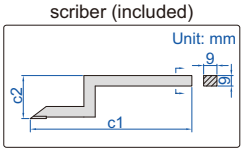


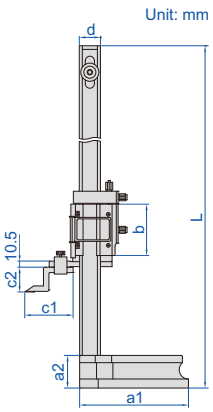
(mm)

Code	Range	Accuracy	L	a	b	d
1253-150	0-150mm/0-6"	±0.03mm	265	75	57	16
1253-200	0-200mm/0-8"	±0.03mm	325	90	70	20

VERNIER HEIGHT GAGES

scriber (included)



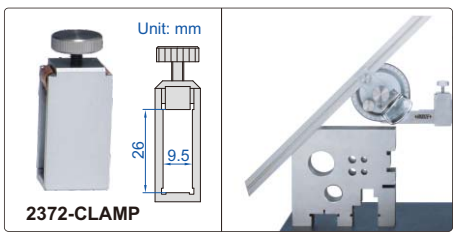




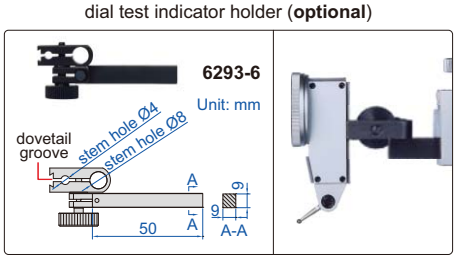
1250-300

- Graduation: 0.02mm/0.001"
- Adjustable main scale to set zero
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- Supplied with magnifier
- With fine adjustment
- Supplied with dust cover
- Optional accessory: dial test indicator holder (code **6293-6**), clamp for protractors (code **2372-CLAMP**)

clamp for protractors (**optional**)



dial test indicator holder (**optional**)



(mm)

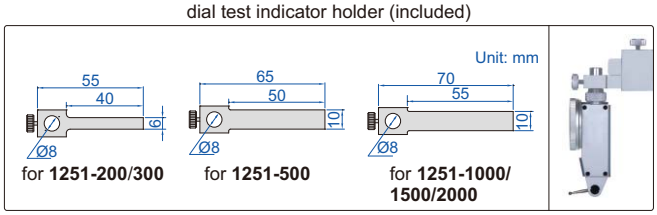
Code	Range	Accuracy	L	a1	a2	b	c1	c2	d
1250-300	0-300mm/0-12"	±0.04mm	545	135	43	75	80	30	28
1250-450	0-450mm/0-18"	±0.05mm	720	180	54	85	80	41	35
1250-600	0-600mm/0-24"	±0.05mm	870	180	54	85	80	41	35

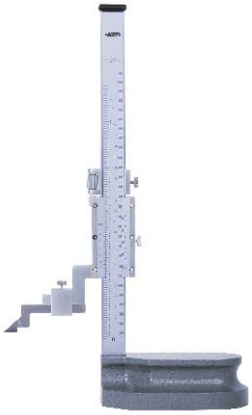
VERNIER HEIGHT GAGES (BASIC TYPE)

- Graduation: 0.02mm/0.001"
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- With dial test indicator holder
- Supplied with dust cover

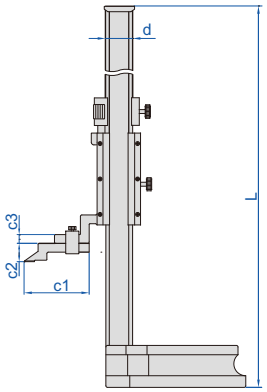
POPULAR MODEL

dial test indicator holder (included)

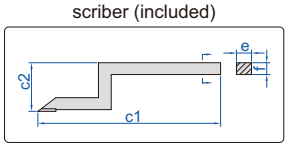




1251-200



scriber (included)



(mm)

Code	Range	Accuracy	L	c1	c2	c3	d	e	f
1251-200	0-200mm/0-8"	±0.03mm	370	76	25	10	23	6	8
1251-300	0-300mm/0-12"	±0.04mm	470	76	25	10	23	6	8
1251-500	0-500mm/0-20"	±0.05mm	720	105	25	12	30	10	12
1251-1000	0-1000mm/0-40"	±0.07mm	1275	110	39	15	50	10	15
1251-1500	0-1500mm/0-60"	±0.11mm	1790	110	39	15	50	10	15
1251-2000	0-2000mm/0-80"	±0.14mm	2290	110	39	15	50	10	15

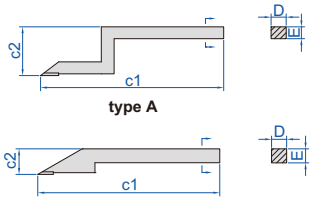
SCRIBERS FOR HEIGHT GAGES

- Carbide tipped



7150-SC3

Code	For height gages	Type	c1	c2	D	E
7150-SC2	1150-500, 1150-600	A	103mm	25mm	10mm	12mm
7150-SC3	1150-1000, 1150-1500, 1150-2000	A	110mm	39mm	10mm	15mm
7150-SC4	1351-300, 1351-450, 1351-600, 1151-300A, 1151-450A, 1151-600A	B	78mm	15mm	9mm	9mm
7150-SC6	1250-300, 1156-300, 1156-600, 1150-300	A	80mm	30mm	9mm	9mm
7150-SC7	1250-450, 1250-600	A	80mm	41mm	9mm	9mm
7150-SC9	1253-150, 1253-200, 1154-150	B	55mm	12.5mm	6mm	8mm
7150-SC10	1156-1000	A	92mm	48mm	9mm	12mm



type A

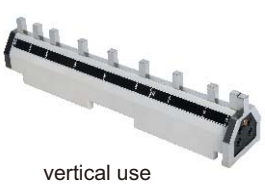
type B

CALIPER/HEIGHT GAGE CHECKERS

REFER TO PAGE 296 FOR DETAILS

horizontal use





vertical use

6884-300

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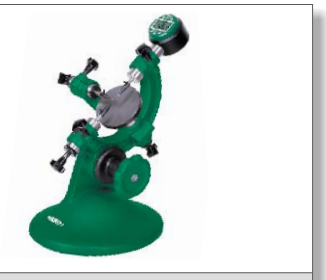
INSIZE COMPARISON INSTRUMENTS 05



Carbon Fiber Comparison Gages
Page 90



Internal And External Diameter Comparison Instruments
Page 91-92



Outside Diameter Measuring Stands
Page 93

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CARBON FIBER COMPARISON GAGES

CARBON FIBER RODS, LIGHT WEIGHT, NOT EASY TO DEFORM, NO TEMPERATURE EXPAND, SUITABLE FOR THIN-WALL WORKPIECES AND LARGE-SIZE WORKPIECES

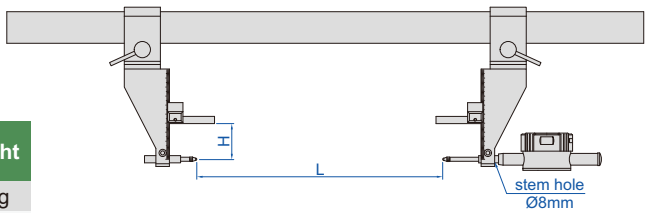




VIDEO

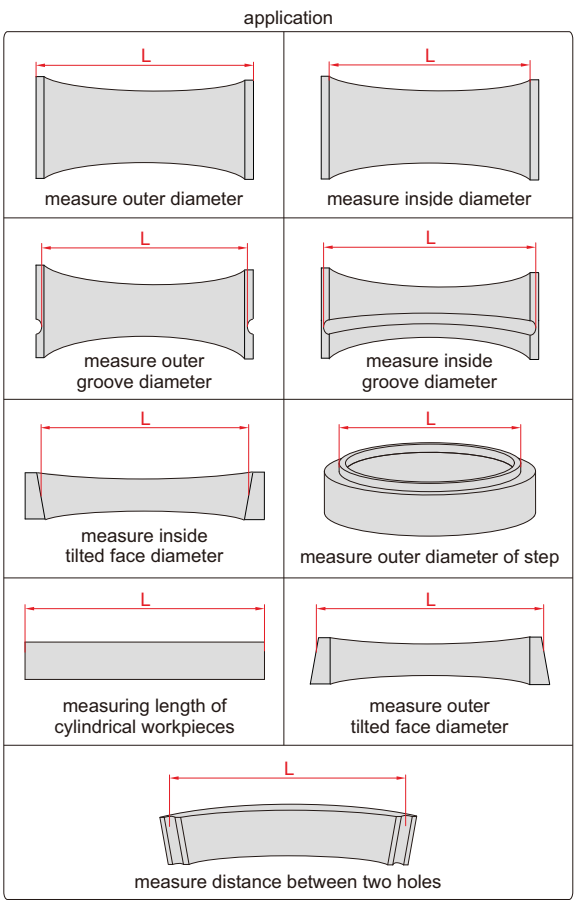
2931-D1000A

- Measure outer diameter, inside diameter, holes distance and cylindrical workpiece length
- Carbon fiber rods, light weight, not easy to deform, no temperature expand
- Optional accessory: cylinder gage blocks (code **4001**), digtial indicators (code **2138-25SP/2139-25SP/2103-25SP/2104-25SP**)



Code	Maximum measuring range (L)	Measuring depth (H)	Repeatability	Weight
2931-D1000A	1000mm	0-100mm	5μm	2.0kg
2931-D1000B	1000mm	0-200mm	10μm	2.3kg
2931-D1000C	1000mm	0-300mm	25μm	2.6kg
2931-D1500A	1500mm	0-100mm	8μm	2.3kg
2931-D1500B	1500mm	0-200mm	15μm	2.6kg
2931-D1500C	1500mm	0-300mm	30μm	2.9kg
2931-D2000A	2000mm	0-100mm	10μm	2.6kg
2931-D2000B	2000mm	0-200mm	20μm	2.9kg
2931-D2000C	2000mm	0-300mm	35μm	3.2kg
2931-D2500A	2500mm	0-100mm	12μm	2.9kg
2931-D2500B	2500mm	0-200mm	25μm	3.2kg
2931-D2500C	2500mm	0-300mm	50μm	3.5kg
2931-D3000A	3000mm	0-100mm	14μm	3.2kg
2931-D3000B	3000mm	0-200mm	30μm	3.5kg
2931-D3000C	3000mm	0-300mm	60μm	3.8kg
2931-D4000A	4000mm	0-100mm	16μm	3.8kg
2931-D4000B	4000mm	0-200mm	35μm	4.1kg
2931-D4000C	4000mm	0-300mm	65μm	4.4kg
2931-D5000A	5000mm	0-100mm	25μm	4.4kg
2931-D5000B	5000mm	0-200mm	40μm	4.7kg
2931-D5000C	5000mm	0-300mm	70μm	5.0kg
2931-D6000A	6000mm	0-100mm	28μm	8.4kg
2931-D6000B	6000mm	0-200mm	50μm	8.8kg
2931-D6000C	6000mm	0-300mm	80μm	9.2kg
2931-D7000A	7000mm	0-100mm	30μm	9.2kg
2931-D7000B	7000mm	0-200mm	55μm	9.6kg
2931-D7000C	7000mm	0-300mm	100μm	10kg
2931-D8000A	8000mm	0-100mm	32μm	10kg
2931-D8000B	8000mm	0-200mm	60μm	10.4kg
2931-D8000C	8000mm	0-300mm	110μm	10.8kg
2931-D9000A	9000mm	0-100mm	35μm	10.7kg
2931-D9000B	9000mm	0-200mm	70μm	11.1kg
2931-D9000C	9000mm	0-300mm	120μm	11.5kg

application



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06 MICROMETERS

INSIZE



Digital Micrometers/Snap Gages
Page 96-98



Digital Micrometers
Page 99-106



Outside Micrometers
Page 107-110



Large Outside Micrometers
Page 110-113



Limit Micrometers
Page 113



Indicating Micrometers
Page 114



Micrometers With Dial Indicator
Page 114-116



Groove Micrometers
Page 117



3-wires
Page 117-118



Screw Thread Micrometers
Page 118-121



Gear Tooth Micrometers
Page 122-124



Point Micrometers
Page 125-126



Gear Root Diameter Micrometers
Page 127



Blade Micrometers
Page 128-130



Crimp Height Micrometers
Page 131



Spline Micrometers
Page 131-133



Tube Micrometers
Page 134-136



Disk Brake Micrometers
Page 137



Sheet Metal Micrometers
Page 137-138



Interchangeable Anvil Micrometers
Page 138-139

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INSIZE

MICROMETERS

06



Large Anvil Micrometers
Page 139



V-anvil Micrometers
Page 140



Universal Micrometers
Page 141



Caliper Type Micrometers
Page 142



Jaw Type Micrometers
Page 143



Disk Micrometers
Page 144-146



Sheet Metal Micrometers
Page 147



Micrometers For Hot Plate
Page 147



Hub Micrometers
Page 147



Wire Micrometers
Page 148



Can Seam Micrometers
Page 148



Optical Parallels
Page 148



Micrometer Measuring
Force Detectors
Page 149



Micrometer Inspection
Gage Block Sets
Page 149



Micrometer Stands
Page 149-150



Micrometer Setting
Standards
Page 151



Micrometer Lapping
Machines
Page 152-153



Micrometer Heads
Page 153-156

DIGITAL MICROMETERS/SNAP GAGES

ONE TURN OF SLEEVE MAKES 10MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM

MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

IP65 WATERPROOF

DATA OUTPUT

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

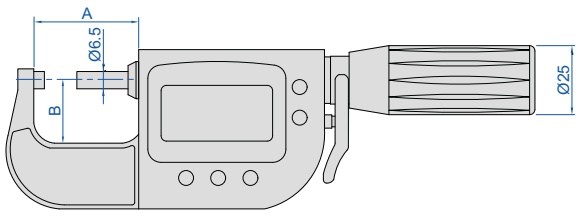
ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

NON-ROTATING SPINDLE

INSPECTION CERTIFICATE



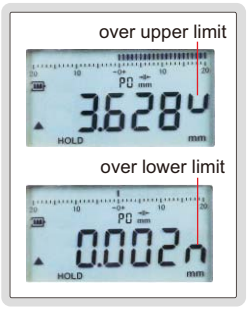
Unit: mm



3358-25

VIDEO

alarm when over tolerance



wireless receiver **2134-R1, 2134-R2 (optional)**



- Absolute encoder, the original data remains after power off
- Resolution: 0.001mm/0.00005"
- One turn of sleeve makes 10mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Carbide spindle and anvil
- Measuring force 5-10N
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch
- Supplied with gage blocks for zero setting (except 0-25mm/0-1")
- Power: rechargeable battery, for 24 hours continuous working

With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Repeatability	Measuring faces		A	B
				flatness	parallelism		
3358-25 *	0-25mm/0-1"	2μm	1μm	0.5μm	1.2μm	38mm	24mm
3358-50 *	25-50mm/1-2"	2μm	1μm	0.5μm	1.2μm	64mm	32.5mm

Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Repeatability	Measuring faces		A	B
				flatness	parallelism		
3358-25WL*	0-25mm/0-1"	2μm	1μm	0.5μm	1.2μm	38mm	24mm
3358-50WL*	25-50mm/1-2"	2μm	1μm	0.5μm	1.2μm	64mm	32.5mm

*Supplied with manufacturer inspection certificate

HIGH PRECISION DIGITAL MICROMETERS/SNAP GAGES (ADVANCED TYPE)

ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM

MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

IP65 WATERPROOF

DATA OUTPUT

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

NON-ROTATING SPINDLE

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

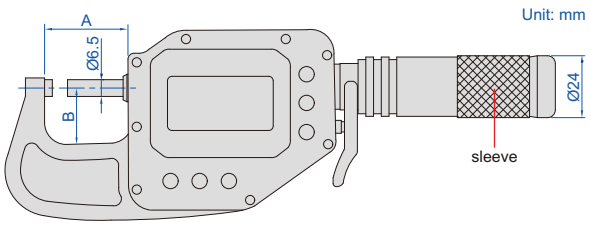
INSPECTION CERTIFICATE

VIDEO



3350-25

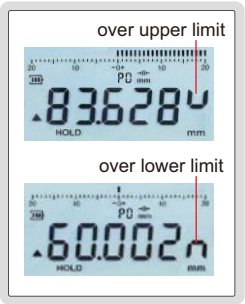
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 7-10N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting (except 0-25mm/0-1")
- Power: rechargeable battery, for 24 hours continuous working



With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Repeatability	Measuring faces		A	B
				flatness	parallelism		
3350-25*	0-25mm/0-1"	1.4μm	0.6μm	0.5μm	1μm	38mm	24mm
3350-50*	25-50mm/1-2"	1.6μm	1μm	0.5μm	1μm	63mm	28mm
3350-75*	50-75mm/2-3"	1.8μm	1μm	0.5μm	1μm	88mm	45mm
3350-100*	75-100mm/3-3.95"	2μm	1μm	0.5μm	1μm	113mm	57mm

alarm when over tolerance



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Repeatability	Measuring faces		A	B
				flatness	parallelism		
3350-25WL*	0-25mm/0-1"	1.4μm	0.6μm	0.5μm	1μm	38mm	24mm
3350-50WL*	25-50mm/1-2"	1.6μm	1μm	0.5μm	1μm	63mm	28mm
3350-75WL*	50-75mm/2-3"	1.8μm	1μm	0.5μm	1μm	88mm	45mm
3350-100WL*	75-100mm/3-3.95"	2μm	1μm	0.5μm	1μm	113mm	57mm

wireless receiver
2134-R1, 2134-R2 (optional)



*Supplied with manufacturer inspection certificate

HIGH PRECISION DIGITAL MICROMETERS/SNAP GAGES

NON-ROTATING SPINDLE | ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF | IP65 WATERPROOF | DATA OUTPUT

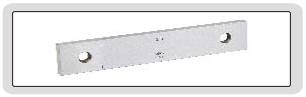
INSPECTION CERTIFICATE

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM

MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

gage blocks for zero setting (included)

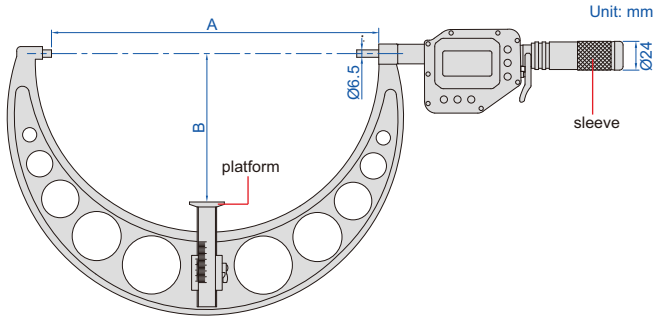


VIDEO



3351-275

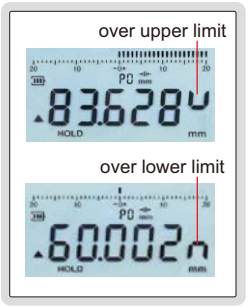
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  (when the reading exceeds 100mm, the resolution is automatically switched to 0.001mm)
  0.001mm/0.00005"
  0.01mm/0.0005
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 5-8N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting
- Power: rechargeable battery, for 24 hours continuous working



With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Repeatability	Measuring faces		A	B
				flatness	parallelism		
3351-125*	100-125mm/4-5"	3μm	1μm	0.5μm	2μm	128mm	62.5mm
3351-150*	125-150mm/5-6"	3μm	1μm	0.5μm	2μm	153mm	75mm
3351-175*	150-175mm/6-7"	4μm	1μm	0.5μm	2.5μm	178mm	87.5mm
3351-200*	175-200mm/7-8"	4μm	1μm	0.5μm	2.5μm	203mm	100mm
3351-225*	200-225mm/8-9"	5μm	1μm	0.5μm	3μm	228mm	112.5mm
3351-250*	225-250mm/9-10"	5μm	1μm	0.5μm	3μm	253mm	125mm
3351-275*	250-275mm/10-11"	6μm	1μm	0.5μm	3.5μm	278mm	137.5mm
3351-300*	275-300mm/11-12"	6μm	1μm	0.5μm	3.5μm	303mm	150mm

alarm when over tolerance



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Repeatability	Measuring faces		A	B
				flatness	parallelism		
3351-125WL*	100-125mm/4-5"	3μm	1μm	0.5μm	2μm	128mm	62.5mm
3351-150WL*	125-150mm/5-6"	3μm	1μm	0.5μm	2μm	153mm	75mm
3351-175WL*	150-175mm/6-7"	4μm	1μm	0.5μm	2.5μm	178mm	87.5mm
3351-200WL*	175-200mm/7-8"	4μm	1μm	0.5μm	2.5μm	203mm	100mm
3351-225WL*	200-225mm/8-9"	5μm	1μm	0.5μm	3μm	228mm	112.5mm
3351-250WL*	225-250mm/9-10"	5μm	1μm	0.5μm	3μm	253mm	125mm
3351-275WL*	250-275mm/10-11"	6μm	1μm	0.5μm	3.5μm	278mm	137.5mm
3351-300WL*	275-300mm/11-12"	6μm	1μm	0.5μm	3.5μm	303mm	150mm

wireless receiver
2134-R1, 2134-R2 (optional)



*Supplied with manufacturer inspection certificate

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QUICK MEASUREMENT
ONE TURN OF SLEEVE OR RATCHET
STOP MAKES 2mm SPINDLE FEED

INSPECTION CERTIFICATE

NON-ROTATING SPINDLE DIGITAL MICROMETERS

INSIZE PLUS
MADE IN EUROPE

LEVER FORCE MEASURING DEVICE
SUITABLE FOR MASS MEASUREMENT

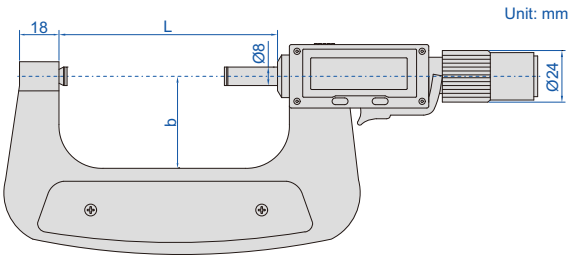
IP65
WATERPROOF

NON-ROTATING
SPINDLE

DATA
OUTPUT

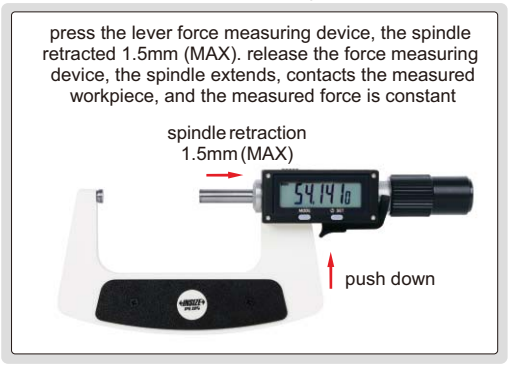


3632-80A



- Adjustable resolution: 0.01mm/0.0005", 0.001mm/0.00005", 0.0005mm/0.00002"
- Repeatability: 1μm
- Measuring force: 5-10N
- Lever force measuring device, suitable for mass measurement
- No-rotating spindle, suitable for measuring cylindrical workpiece
- Quick measurement: one turn of sleeve or ratchet stop makes 2mm spindle feed
- Carbide measuring faces
- Data output
- Button function: mm/inch, max./min. value tracking, preset value, hold, on/off, zero
- Ratchet sets force measurement
- CR2032 battery, automatic power off
- Supplied with setting standards (except 0-30mm/ 0-1.18")
- Optional accessory: data output cable (code **7315-80, 7302-80**)

lever force measuring device



(mm)

Code	Range	Accuracy		L	b
		stroke≤25mm	stroke>25mm		
3632-30A*	0-30mm/0-1.18"	±2μm	±3μm	38	24
3632-55A*	25-55mm/0.98-2.17"	±2μm	±3μm	63	30.5
3632-80A*	50-80mm/1.97-3.15"	±3μm	±4μm	88	44
3632-105A*	75-105mm/2.95-4.13"	±3μm	±4μm	113	57
3632-130A*	100-130mm/3.94-5.12"	±3μm	±5μm	138	70
3632-155A*	125-155mm/4.92-6.1"	±3μm	±5μm	163	83
3632-180A*	150-180mm/5.91-7.09"	±4μm	±6μm	188	96
3632-205A*	175-205mm/6.89-8.07"	±4μm	±6μm	213	109
3632-230A*	200-230mm/7.87-9.06"	±4μm	±6μm	238	122
3632-255A*	225-255mm/8.86-10.04"	±4μm	±6μm	268	135
3632-280A*	250-280mm/9.84-11.02"	±5μm	±7μm	293	147.5
3632-305A*	275-305mm/10.83-12.01"	±5μm	±7μm	318	160

*Supplied with manufacturer inspection certificate

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HIGH PRECISION NON-ROTATING SPINDLE DIGITAL MICROMETERS

INSIZE PLUS
MADE IN EUROPE

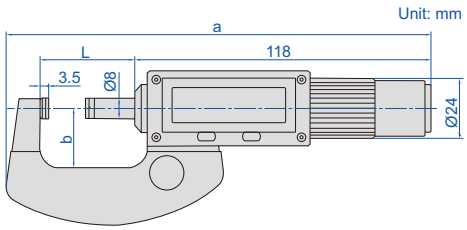
ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

QUICK MEASUREMENT ONE TURN OF SLEEVE OR RATCHET STOP MAKES 2MM SPINDLE FEED

IP65 WATERPROOF | NON-ROTATING SPINDLE | DATA OUTPUT | STROKE 30mm



3661-30



- Adjustable resolution: 0.01mm/0.0005", 0.001mm/0.00005", 0.0005mm/0.00002"
- Repeatability: 0.5μm
- Measuring force: 5-10N
- Flatness of measuring faces: 0.3μm
- Parallelism of measuring faces: 0.5μm
- Ratchet stop
- Non-rotating spindle, suitable for cylinders
- Quick measurement: one turn of sleeve or ratchet stop makes 2mm spindle feed
- Carbide measuring faces
- Data output
- Button function: mm/inch, max./min. value tracking, preset value, hold, on/off, zero
- CR2032 battery
- Automatic power off, turn the sleeve to turn on
- Optional accessory: setting standards (code **7386**), data output cable (code **7315-80, 7302-80**)

(mm)

Code	Range	Accuracy		L	a	b
		stroke ≤25mm	stroke >25mm			
3661-30	0-30mm/0-1.18"	±2μm	±3μm	38	169	24
3661-55	25-55mm/0.98-2.17"	±2μm	±3μm	63	195	30.5
3661-80	50-80mm/1.97-3.15"	±3μm	±4μm	88	228	44
3661-105	75-105mm/2.95-4.13"	±3μm	±4μm	113	257	57
3661-130	100-130mm/3.94-5.12"	±3μm	±5μm	138	289	70
3661-155	125-155mm/4.92-6.1"	±3μm	±5μm	163	315	83
3661-180	150-180mm/5.91-7.09"	±4μm	±6μm	188	340	96
3661-205	175-205mm/6.89-8.07"	±4μm	±6μm	213	363	109
3661-230	200-230mm/7.87-9.06"	±4μm	±6μm	238	388	122
3661-255	225-255mm/8.86-10.04"	±4μm	±6μm	268	429	135
3661-280	250-280mm/9.84-11.02"	±5μm	±7μm	293	454	147.5
3661-305	275-305mm/10.83-12.01"	±5μm	±7μm	318	479	160

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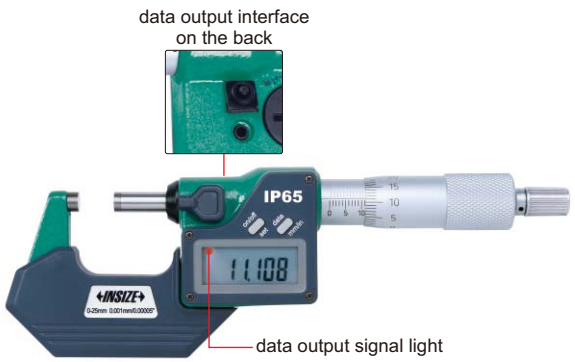
WATERPROOF DIGITAL OUTSIDE MICROMETERS (WITH DATA OUTPUT INTERFACE)

DATA OUTPUT

IP65 WATERPROOF

INSPECTION CERTIFICATE

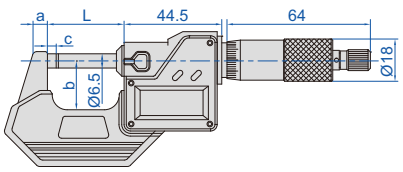
POPULAR MODEL



- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

3101-25A

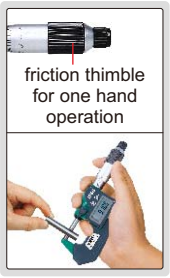
Unit: mm



Metric/Inch type (ratchet stop) (mm)

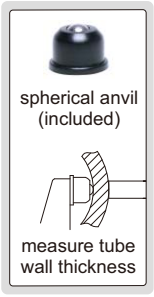
Code	Range	Resolution	Accuracy	L	a	b	c
3101-25A*	0-25mm/0-1"	0.001mm/0.00005"	±2μm	34.5	6	25	3
3101-50A*	25-50mm/1-2"	0.001mm/0.00005"	±2μm	59.5	8	32	3
3101-75A*	50-75mm/2-3"	0.001mm/0.00005"	±3μm	84.5	8	44.5	3
3101-100A*	75-100mm/3-4"	0.001mm/0.00005"	±3μm	109.5	8	57	3
3101-125A	100-125mm/4-5"	0.001mm/0.00005"	±3μm	135	10	70	3
3101-150A	125-150mm/5-6"	0.001mm/0.00005"	±3μm	160.5	10	82	3
3101-175A	150-175mm/6-7"	0.001mm/0.00005"	±4μm	186	12	94.5	5.5
3101-200A	175-200mm/7-8"	0.001mm/0.00005"	±4μm	211.5	12	107	5.5
3101-225A	200-225mm/8-9"	0.001mm/0.00005"	±4μm	236	23	129.5	5.5
3101-250A	225-250mm/9-10"	0.001mm/0.00005"	±4μm	261.5	23	142.5	5.5
3101-275A	250-275mm/10-11"	0.001mm/0.0001"	±5μm	287	23	155	5.5
3101-300A	275-300mm/11-12"	0.001mm/0.0001"	±5μm	312.5	23	167.5	5.5





Metric/Inch type (friction thimble) (mm)

Code	Range	Resolution	Accuracy	L	a	b	c
3101-25FA*	0-25mm/0-1"	0.001mm/0.00005"	±2μm	34.5	6	25	3



Metric type (ratchet stop) (mm)

Code	Range	Resolution	Accuracy	L	a	b	c
3101-25AJ*	0-25mm	0.001mm	±2μm	34.5	6	25	3
3101-50AJ*	25-50mm	0.001mm	±2μm	59.5	8	32	3
3101-75AJ*	50-75mm	0.001mm	±3μm	84.5	8	44.5	3
3101-100AJ*	75-100mm	0.001mm	±3μm	109.5	8	57	3

Set (ratchet stop type)

Code	Range	Micrometers included	Packaging
3101-753A*	0-75mm/0-3"	3101-25A, 3101-50A, 3101-75A	blow mould case
3101-1004A*	0-100mm/0-4"	3101-25A, 3101-50A, 3101-75A, 3101-100A	blow mould case
3101-1506A	0-150mm/0-6"	3101-25A, 3101-50A, 3101-75A, 3101-100A, 3101-125A, 3101-150A	aluminum box

*Supplied with manufacturer inspection certificate



3101-753A



3101-1506A

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WATERPROOF DIGITAL OUTSIDE MICROMETERS (WITHOUT DATA OUTPUT)

IP65 WATERPROOF

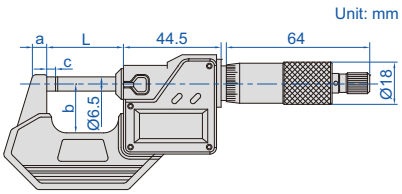
ATTENTION: NO DATA OUTPUT

INSPECTION CERTIFICATE



3108-25A

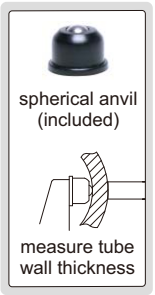
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- No data output
- Automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")



Ratchet stop type (mm)

Code	Range	Accuracy	L	a	b	c
3108-25A*	0-25mm/0-1"	±2μm	34.5	6	25	3
3108-50A*	25-50mm/1-2"	±2μm	59.5	8	32	3
3108-75A*	50-75mm/2-3"	±3μm	84.5	8	44.5	3
3108-100A*	75-100mm/3-4"	±3μm	109.5	8	57	3
3108-125A	100-125mm/4-5"	±3μm	135	10	70	3
3108-150A	125-150mm/5-6"	±3μm	160.5	10	82	3
3108-175A	150-175mm/6-7"	±4μm	186	12	94.5	5.5
3108-200A	175-200mm/7-8"	±4μm	211.5	12	107	5.5





Friction thimble type (mm)

Code	Range	Accuracy	L	a	b	c
3108-25FA*	0-25mm/0-1"	±2μm	34.5	6	25	3





3108-753A



3108-1506A

Set

Code	Range	Micrometers included	Packaging
3108-753A*	0-75mm/0-3"	3108-25A, 3108-50A, 3108-75A	blow mould case
3108-1004A*	0-100mm/0-4"	3108-25A, 3108-50A, 3108-75A, 3108-100A	blow mould case
3108-1506A	0-150mm/0-6"	3108-25A, 3108-50A, 3108-75A, 3108-100A, 3108-125A, 3108-150A	aluminum box

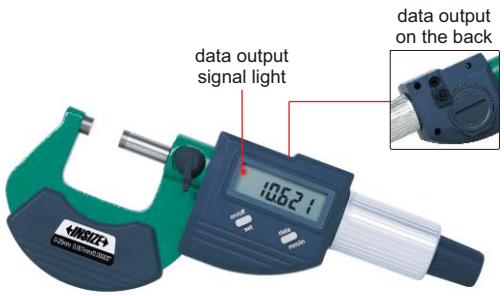
*Supplied with manufacturer inspection certificate

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DATA OUTPUT

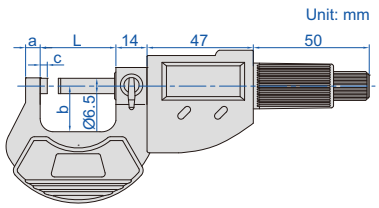
DIGITAL OUTSIDE MICROMETERS (BASIC TYPE, WITH DATA OUTPUT)

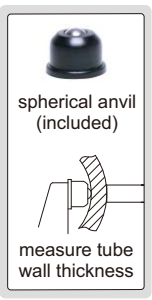
INSPECTION CERTIFICATE



3102-25

- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, data transmit
- Automatic power off
- Carbide measuring faces
- Friction thimble
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-30** page 4, **7302-30** page 12)





Individual (mm)

Code	Range	Accuracy	L	a	b	c
3102-25 *	0-25mm/0-1"	±2µm	32	6	24	3
3102-50 *	25-50mm/1-2"	±2µm	57	8	32	3
3102-75 *	50-75mm/2-3"	±3µm	82	8	45	3
3102-100*	75-100mm/3-4"	±3µm	107	10	57	3
3102-125	100-125mm/4-5"	±3µm	133	10	70	3
3102-150	125-150mm/5-6"	±3µm	158	10	82	3
3102-175	150-175mm/6-7"	±4µm	183	12	95	5.5
3102-200	175-200mm/7-8"	±4µm	209	12	107	5.5





3102-753A



3102-1506A

Set

Code	Range	Micrometers included	Packaging
3102-753A *	0-75mm/0-3"	3102-25, 3102-50, 3102-75	blow mould case
3102-1004A *	0-100mm/0-4"	3102-25, 3102-50, 3102-75, 3102-100	blow mould case
3102-1506A	0-150mm/0-6"	3102-25, 3102-50, 3102-75, 3102-100, 3102-125, 3102-150	aluminum box

*Supplied with manufacturer inspection certificate

DIGITAL OUTSIDE MICROMETERS (BASIC TYPE, WITHOUT DATA OUTPUT)

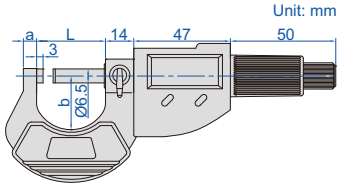
ATTENTION: NO DATA OUTPUT

POPULAR MODEL

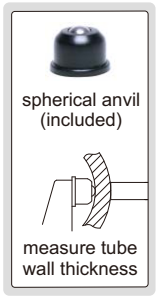
INSPECTION CERTIFICATE



3109-25A



- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC
- No data output
- Automatic power off
- Carbide measuring faces
- Friction thimble
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")





Individual

Code	Range	Accuracy	L	a	b
3109-25A*	0-25mm/0-1"	±2µm	32mm	6mm	27.5mm
3109-50A*	25-50mm/1-2"	±2µm	57mm	8mm	37mm
3109-75A*	50-75mm/2-3"	±3µm	82mm	8mm	50mm
3109-100A*	75-100mm/3-4"	±3µm	107mm	10mm	61mm
3109-125A	100-125mm/4-5"	±3µm	132mm	10mm	73mm
3109-150A	125-150mm/5-6"	±3µm	157mm	10mm	85mm
3109-175A	150-175mm/6-7"	±4µm	182mm	21mm	104mm
3109-200A	175-200mm/7-8"	±4µm	207mm	21mm	117mm

Set

Code	Range	Micrometers included	Packaging
3109-753A*	0-75mm/0-3"	3109-25A, 3109-50A, 3109-75A	blow mould case
3109-1004A*	0-100mm/0-4"	3109-25A, 3109-50A, 3109-75A, 3109-100A	blow mould case
3109-1506A	0-150mm/0-6"	3109-25A, 3109-50A, 3109-75A, 3109-100A, 3109-125A, 3109-150A	aluminum box

*Supplied with manufacturer inspection certificate



3109-753A



3109-1506A

DIGITAL VERTICAL MICROMETERS

DATA OUTPUT

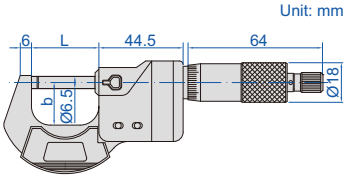
IP65 WATERPROOF

INSPECTION CERTIFICATE



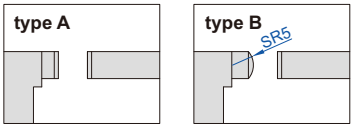
3565-25A

- Measure the thickness of plates for easy reading
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- Automatic power off
- Carbide spindle tip
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-30** page 4, **7302-30** page 12)



Code	Range	Type	Accuracy	L	b
3565-25A*	0-25mm/0-1"	A	±2µm	34.5mm	25mm
3565-50A*	25-50mm/1-2"	A	±2µm	59.5mm	32mm
3565-25BA*	0-25mm/0-1"	B	±2µm	34.5mm	25mm
3565-50BA*	25-50mm/1-2"	B	±2µm	59.5mm	32mm

*Supplied with manufacturer inspection certificate



ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

INSPECTION CERTIFICATE

OUTSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

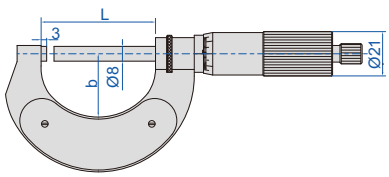
- Carbide measuring faces
- Graduation: 0.01mm
- Meet DIN863-1
- Friction thimble
- Optional accessory: setting standards (code **7386**)



3701-25A

Code	Range	Accuracy	L	b
3701-25A*	0-25mm	4µm	37mm	24mm
3701-50A*	25-50mm	4µm	62mm	34mm
3701-75A*	50-75mm	5µm	87mm	46mm
3701-100A*	75-100mm	5µm	112mm	60mm
3701-125A*	100-125mm	6µm	139mm	72mm
3701-150A*	125-150mm	6µm	164mm	85mm
3701-175A*	150-175mm	7µm	190mm	97mm
3701-200A*	175-200mm	7µm	215mm	110mm
3701-225A*	200-225mm	8µm	240mm	122mm
3701-250A*	225-250mm	8µm	264mm	135mm
3701-275A*	250-275mm	9µm	290mm	148mm
3701-300A*	275-300mm	9µm	315mm	160mm

Unit: mm



*Supplied with manufacturer inspection certificate

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

LIGHT WEIGHT

OUTSIDE MICROMETERS WITH 50mm RANGE

INSIZE PLUS
MADE IN EUROPE

- Graduation 0.01mm
- Ratchet stop
- One turn of sleeve makes 1mm spindle feed
- Carbide measuring faces
- Optional accessory: setting standards (code **7386**)

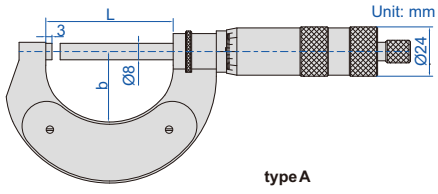


3682-50

(mm)

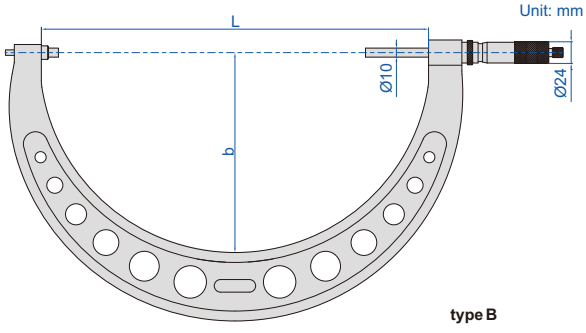
Code	Range	Type	Accuracy	L	b	Weight
3682-50	0-50mm	A	4µm	62	34	0.46kg
3682-100	50-100mm	A	5µm	112	60	0.62kg
3682-150	100-150mm	A	6µm	164	85	0.78kg
3682-200	150-200mm	A	7µm	215	110	1.03kg
3682-250	200-250mm	A	8µm	264	135	1.25kg
3682-300	250-300mm	A	9µm	315	160	1.45kg
3682-350	300-350mm	B	10µm	370	190	1.50kg
3682-400	350-400mm	B	11µm	430	220	1.80kg
3682-450	400-450mm	B	12µm	475	250	2.15kg
3682-500	450-500mm	B	13µm	530	273	2.30kg
3682-550	500-550mm	B	14µm	570	291	2.40kg
3682-600	550-600mm	B	14µm	630	323	3.00kg
3682-650	600-650mm	B	16µm	675	351	3.30kg
3682-700	650-700mm	B	16µm	730	378	3.70kg
3682-750	700-750mm	B	18µm	785	401	3.90kg
3682-800	750-800mm	B	18µm	830	423	4.10kg
3682-850	800-850mm	B	20µm	885	440	4.30kg
3682-900	850-900mm	B	20µm	930	473	4.90kg
3682-950	900-950mm	B	22µm	980	503	5.80kg
3682-1000	950-1000mm	B	22µm	1030	520	6.10kg

Unit: mm



type A

Unit: mm



type B

OUTSIDE MICROMETERS (GRADUATION 0.005mm)

INSIZE PLUS
MADE IN EUROPE

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

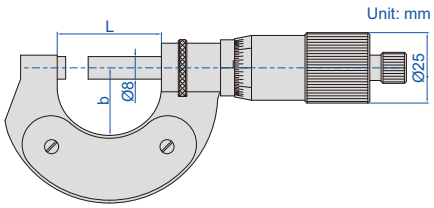
- Graduation 0.005mm
- Friction thimble
- One turn of sleeve makes 0.5mm spindle feed
- Carbide measuring faces
- Optional accessory: setting standards (code **7386**)



3681-25

(mm)

Code	Range	Accuracy	L	b
3681-25	0-25mm	4μm	37	24
3681-50	25-50mm	4μm	62	34
3681-75	50-75mm	5μm	87	46
3681-100	75-100mm	5μm	112	60
3681-125	100-125mm	6μm	139	72
3681-150	125-150mm	6μm	164	85
3681-175	150-175mm	7μm	190	97
3681-200	175-200mm	7μm	215	110
3681-225	200-225mm	8μm	240	122
3681-250	225-250mm	8μm	264	135
3681-275	250-275mm	9μm	290	148
3681-300	275-300mm	9μm	315	160



OUTSIDE MICROMETERS

INSPECTION CERTIFICATE

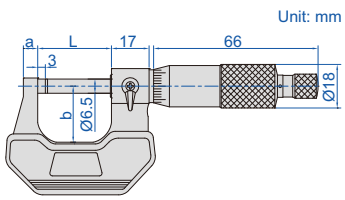
- Graduation 0.01mm
- Carbide measuring faces
- Meet DIN863-1
- Supplied with setting standards (except 0-25mm)



3202-25A

Individual

Code	Range	Accuracy	L	a	b
3202-25A*	0-25mm	4μm	32mm	6mm	24mm
3202-50A*	25-50mm	4μm	57mm	8mm	32mm
3202-75A*	50-75mm	5μm	82mm	8mm	45mm
3202-100A*	75-100mm	5μm	107mm	8mm	57mm
3202-125A	100-125mm	6μm	133mm	8mm	70mm
3202-150A	125-150mm	6μm	125mm	8mm	82mm
3202-175A	150-175mm	7μm	183mm	8mm	95mm
3202-200A	175-200mm	7μm	209mm	8mm	107mm



Set

Code	Range	Micrometers included
3202-753A*	0-75mm	3202-25A, 3202-50A, 3202-75A
3202-1004A*	0-100mm	3202-25A, 3202-50A, 3202-75A, 3202-100A
3202-1506A	0-150mm	3202-25A, 3202-50A, 3202-75A, 3202-100A 3202-125A, 3202-150A

*Supplied with manufacturer inspection certificate

OUTSIDE MICROMETERS

POPULAR MODEL

INSPECTION CERTIFICATE



3203-25A



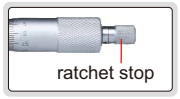
3203-50A



3203-1004A

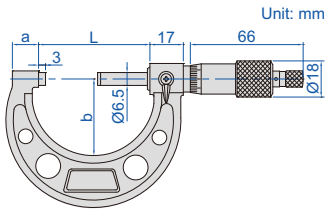


3203-3006A





- Graduation: metric 0.01mm
  inch 0.0001"
- Carbide measuring faces
- Meet DIN863-1
- Supplied with setting standards (except 0-25mm and 0-1")



Metric (ratchet stop type)

Code	Range	Accuracy	L	a	b
3203-25A*	0-25mm	±2μm	32mm	9mm	28mm
3203-50A*	25-50mm	±2μm	57mm	14mm	38mm
3203-75A*	50-75mm	±2μm	82mm	15mm	49mm
3203-100A*	75-100mm	±3μm	107mm	15mm	60mm
3203-125A	100-125mm	±3μm	133mm	16.5mm	73mm
3203-150A	125-150mm	±3μm	158mm	16.5mm	85mm
3203-175A	150-175mm	±4μm	183mm	19.4mm	104mm
3203-200A	175-200mm	±4μm	209mm	19.4mm	117mm
3203-225A	200-225mm	±4μm	234mm	19.4mm	130mm
3203-250A	225-250mm	±5μm	260mm	19.4mm	142mm
3203-275A	250-275mm	±5μm	285mm	19.4mm	155mm
3203-300A	275-300mm	±5μm	310mm	19.4mm	168mm

Inch (ratchet stop type)

Code	Range	Accuracy	L	a	b
3203-1A*	0-1"	±0.0001"	1.260"	0.354"	1.102"
3203-2A*	1-2"	±0.0001"	2.244"	0.551"	1.496"
3203-3A*	2-3"	±0.0001"	3.228"	0.591"	1.929"
3203-4A*	3-4"	±0.00015"	4.213"	0.591"	2.362"
3203-5A*	4-5"	±0.00015"	5.236"	0.650"	2.874"
3203-6A*	5-6"	±0.00015"	6.220"	0.650"	3.346"
3203-7A	6-7"	±0.0002"	7.205"	0.764"	4.094"
3203-8A	7-8"	±0.0002"	8.228"	0.764"	4.606"
3203-9A	8-9"	±0.0002"	9.213"	0.764"	5.118"
3203-10A	9-10"	±0.00025"	10.236"	0.764"	5.591"
3203-11A	10-11"	±0.00025"	11.220"	0.764"	6.102"
3203-12A	11-12"	±0.00025"	12.205"	0.764"	6.614"

Metric micrometer set (ratchet stop type)

Code	Range	Micrometers included	Packaging
3203-753A*	0-75mm	3203-25A, 3203-50A, 3203-75A	blow mould case
3203-1004A*	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A	blow mould case
3203-1506A	0-150mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A	blow mould case
3203-3006A	150-300mm	3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A	aluminum box
3203-3012A	0-300mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A 3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A	aluminum box

Inch micrometer set (ratchet stop type)

Code	Range	Micrometers included	Packaging
3203-33A*	0-3"	3203-1A, 3203-2A, 3203-3A	blow mould case
3203-44A*	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4A	blow mould case
3203-66A*	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	blow mould case
3203-126A	6-12"	3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A	aluminum box
3203-1212A	0-12"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A, 3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A	aluminum box

Inch (friction thimble type)

Code	Range	Accuracy	L	a	b
3203-1FA*	0-1"	±0.0001"	1.260"	0.354"	1.102"
3203-2FA*	1-2"	±0.0001"	2.244"	0.551"	1.496"
3203-3FA*	2-3"	±0.0001"	2.244"	0.591"	1.929"

*Supplied with manufacturer inspection certificate

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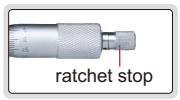
1µm GRADUATION OUTSIDE MICROMETERS

INSPECTION CERTIFICATE

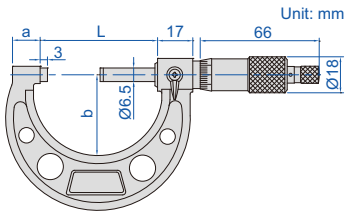
- Graduation 0.001mm
- Carbide measuring faces
- Meet DIN863-1
- Supplied with setting standards (except 0-25mm)



3210-25A







Ratchet stop type (mm)

Code	Range	Accuracy	L	a	b
3210-25A*	0-25mm	4µm	32	9	28
3210-50A*	25-50mm	4µm	57	14	38
3210-75A*	50-75mm	5µm	82	15	49
3210-100A*	75-100mm	5µm	107	15	60
3210-125A	100-125mm	6µm	133	16.5	73
3210-150A	125-150mm	6µm	158	16.5	85
3210-175A	150-175mm	7µm	183	19.4	104
3210-200A	175-200mm	7µm	209	19.4	117

Friction thimble type (mm)

Code	Range	Accuracy	L	a	b
3210-25FA*	0-25mm	4µm	32	9	28
3210-50FA*	25-50mm	4µm	57	14	38

*Supplied with manufacturer inspection certificate

Micrometer set (ratchet stop type)

Code	Range	Micrometers included
3210-753A*	0-75mm	3210-25A, 3210-50A, 3210-75A
3210-1004A*	0-100mm	3210-25A, 3210-50A, 3210-75A, 3210-100A
3210-1506A	0-150mm	3210-25A, 3210-50A, 3210-75A, 3210-100A, 3210-125A, 3210-150A

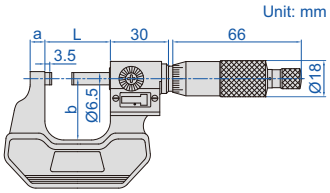
OUTSIDE MICROMETERS WITH COUNTER

INSPECTION CERTIFICATE

- Counter resolution: 0.01mm
- Thimble graduation: 0.01mm
- Carbide measuring faces
- Meet DIN863-1
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



3400-25



Code	Range	Accuracy	L	a	b
3400-25 *	0-25mm	4µm	32mm	6mm	26mm
3400-50 *	25-50mm	4µm	57mm	8mm	32mm
3400-75 *	50-75mm	5µm	82mm	8mm	44.5mm
3400-100 *	75-100mm	5µm	107mm	8mm	57mm
3400-125 *	100-125mm	6µm	132.4mm	17mm	71.8mm
3400-150 *	125-150mm	6µm	157.8mm	17mm	84mm
3400-175 *	150-175mm	7µm	185mm	20mm	98.5mm
3400-200 *	175-200mm	7µm	210.4mm	20mm	111mm
3400-225 *	200-225mm	8µm	236mm	20mm	124mm
3400-250 *	225-250mm	8µm	261mm	20mm	136.5mm
3400-275 *	250-275mm	9µm	287mm	20mm	149mm
3400-300 *	275-300mm	9µm	312mm	20mm	162mm

*Supplied with manufacturer inspection certificate

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QUICK FEEDING OUTSIDE MICROMETERS

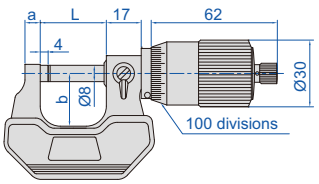
- Graduation 0.01mm
- 1mm feeding of each turn
- Friction thimble
- Carbide measuring faces
- Meet DIN863-1
- Supplied with setting standards (except 0-25mm)



3208-25B

Code	Range	Accuracy	L	a	b
3208-25B	0-25mm	4μm	32mm	6mm	24mm
3208-50B	25-50mm	4μm	57mm	8mm	32mm
3208-75B	50-75mm	5μm	82mm	8mm	45mm
3208-100B	75-100mm	5μm	107mm	8mm	57mm
3208-125B	100-125mm	6μm	133mm	8mm	70mm
3208-150B	125-150mm	6μm	158mm	8mm	82mm
3208-175B	150-175mm	7μm	183mm	8mm	95mm
3208-200B	175-200mm	7μm	209mm	8mm	107mm

Unit: mm



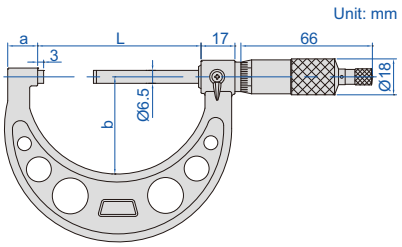
LONG SPINDLE OUTSIDE MICROMETERS

- Graduation 0.01mm
- Carbide measuring faces
- Meet DIN863-1
- Ratchet stop
- Supplied with setting standards (except 0-25mm)

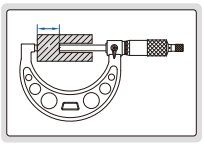


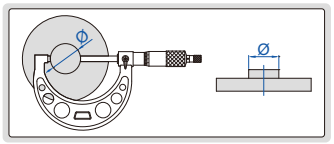
3209-25

Unit: mm



Code	Range	Accuracy	L	a	b
3209-25	0-25mm	4μm	57mm	14mm	38mm
3209-50	25-50mm	4μm	82mm	15mm	49mm
3209-75	50-75mm	5μm	107mm	15mm	60mm
3209-100	75-100mm	5μm	133mm	16.5mm	73mm





NON MAGNETIC MICROMETERS

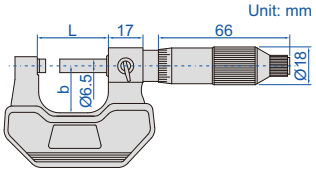
- Suitable for magnetic materials
- Graduation: 0.01mm
- Non magnetic carbide measuring faces
- Ratchet stop



3231-25A

Code	Range	Accuracy	L	b
3231-25A	0-25mm	4μm	32mm	24mm
3231-50A	25-50mm	4μm	57mm	32mm
3231-75A	50-75mm	5μm	82mm	45mm
3231-100A	75-100mm	5μm	105mm	57mm

Unit: mm



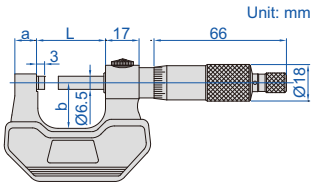
OUTSIDE MICROMETERS FOR LEFT OR RIGHT HANDERS

- Graduation 0.01mm
- Graduations on two sides
- Ratchet stop
- Carbide measuring faces
- Meet DIN863-1
- Supplied with setting standards (except 0-25mm)





3236-25B



(mm)

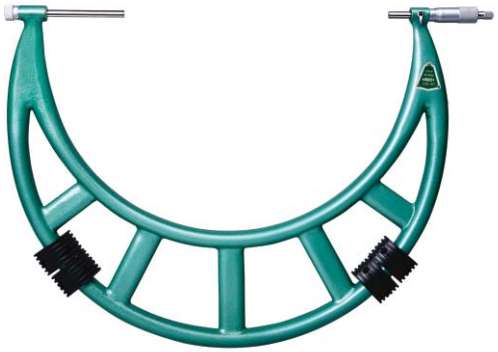
Code	Range	Accuracy	L	a	b
3236-25B	0-25mm	4μm	32	6	24
3236-50B	25-50mm	4μm	57	8	32
3236-75B	50-75mm	5μm	82	8	45
3236-100B	75-100mm	5μm	107	8	57
3236-125B	100-125mm	6μm	133	8	70
3236-150B	125-150mm	6μm	158	8	82
3236-175B	150-175mm	7μm	183	8	95
3236-200B	175-200mm	7μm	209	8	107

OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS

- Graduation 0.01mm
- Ratchet stop
- Meet DIN863-3
- Carbide measuring faces
- Supplied with setting standards


interchangeable anvils (included) for different measuring ranges

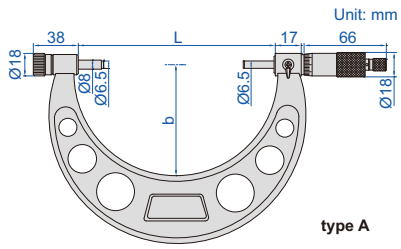

3206-150A


3206-400

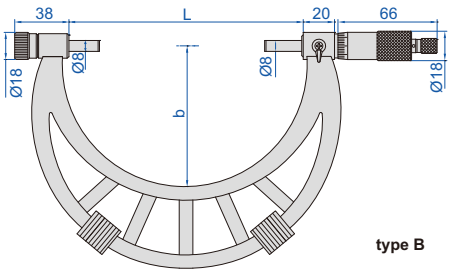

setting standard (included)

(mm)

Code	Range	Type	Accuracy	L	b	Setting standard (included)
3206-50A	0-50mm	A	4μm	58	35	25
3206-100A	0-100mm	A	5μm	108	57	25, 50, 75
3206-150A	0-150mm	A	6μm	158	82	25, 50, 75, 100, 125
3206-151A	50-150mm	A	6μm	158	82	50, 75, 100, 125
3206-200A	100-200mm	A	7μm	208	114	100, 125, 150, 175
3206-300A	150-300mm	A	9μm	308	165	150, 175, 200, 225, 250, 275
3206-301A	200-300mm	A	9μm	308	165	200, 225, 250, 275
3206-400	300-400mm	B	11μm	409	224	325, 375
3206-500	400-500mm	B	13μm	509	275	425, 475
3206-600	500-600mm	B	14μm	609	321	525, 575
3206-700	600-700mm	B	16μm	709	371	625, 675
3206-800	700-800mm	B	18μm	809	426	725, 775
3206-900	800-900mm	B	20μm	909	476	825, 875
3206-1000	900-1000mm	B	22μm	1009	576	925, 975



type A



type B

IP65 WATERPROOF | DATA OUTPUT

DIGITAL OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS

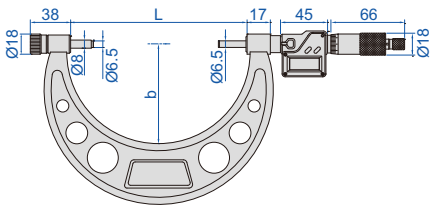


3506-100A



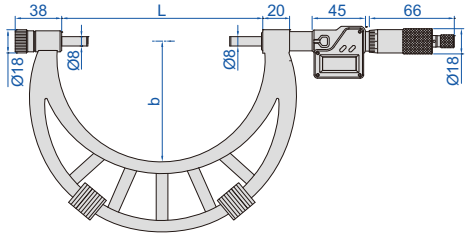
3506-400A

Unit: mm



type A

Unit: mm



type B

- Resolution 0.001mm/0.0001" (resolution of **3506-100A** and **3506-150A** is 0.001mm/0.00005")
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



interchangeable anvils (included) for different measuring ranges

setting standard (included)

(mm)

Code	Range	Type	Accuracy	L	b	Setting standard (included)
3506-100A	0-100mm/0-4"	A	±5μm	105	57	25, 50, 75
3506-150A	0-150mm/0-6"	A	±6μm	155	82	25, 50, 75, 100, 125
3506-300A	150-300mm/6-12"	A	±8μm	305	165	150, 175, 200, 225, 250, 275
3506-301A	200-300mm/8-12"	A	±8μm	305	165	200, 225, 250, 275
3506-400A	300-400mm/12-16"	B	±9μm	405	224	325, 375
3506-500A	400-500mm/16-20"	B	±11μm	505	275	425, 475
3506-600A	500-600mm/20-24"	B	±12μm	605	321	525, 575
3506-700A	600-700mm/24-28"	B	±13μm	705	371	625, 675
3506-800A	700-800mm/28-32"	B	±15μm	805	426	725, 775
3506-900A	800-900mm/32-36"	B	±16μm	905	476	825, 875
3506-1000A	900-1000mm/36-40"	B	±17μm	1005	576	925, 975

OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS

INSIZE PLUS
MADE IN EUROPE

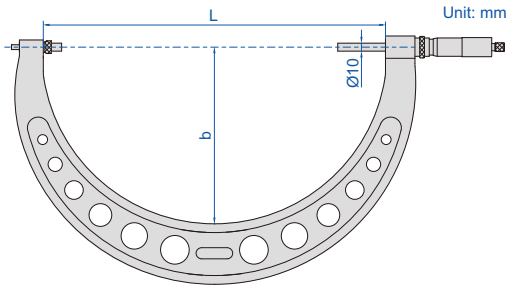
ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

LIGHT WEIGHT

QUICK MEASUREMENT
ONE TURN OF SLEEVE OR RATCHET STOP MAKES 1MM SPINDLE FEED



3675-300



interchangeable anvil (included)
for different measuring ranges



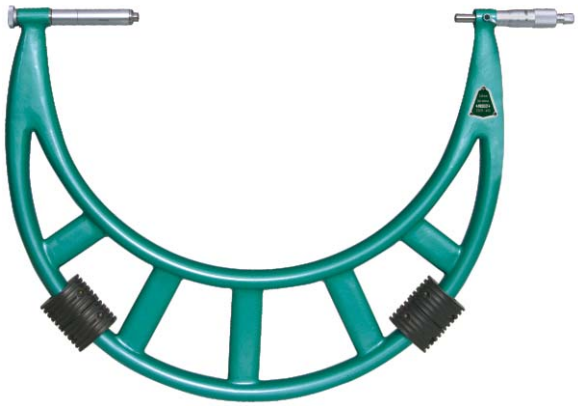
- Graduation 0.01mm
- Ratchet stop
- Meet DIN863-3
- Carbide measuring faces
- Light weight
- Optional accessory: setting standards (code **7386**)

(mm)

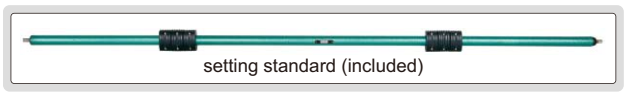
Code	Range	Accuracy	L	b	Weight
3675-200	100-200mm	6μm	240	122	1.2kg
3675-300	200-300mm	6μm	325	165	1.5kg
3675-400	300-400mm	7μm	430	220	1.9kg
3675-500	400-500mm	8μm	530	273	2.4kg
3675-600	500-600mm	9μm	630	323	3.1kg
3675-700	600-700mm	9μm	730	378	3.8kg
3675-800	700-800mm	9μm	830	423	4.2kg
3675-900	800-900mm	10μm	930	473	5kg
3675-1000	900-1000mm	10μm	1030	520	6.2kg
3675-1100	1000-1100mm	11μm	1135	585	7.6kg
3675-1200	1100-1200mm	11μm	1230	635	8.6kg
3675-1300	1200-1300mm	12μm	1335	685	9.7kg
3675-1400	1300-1400mm	12μm	1430	735	11.3kg
3675-1500	1400-1500mm	13μm	1530	780	12.5kg
3675-1600	1500-1600mm	18μm	1660	840	13.6kg
3675-1700	1600-1700mm	19μm	1765	890	14.9kg
3675-1800	1700-1800mm	20μm	1870	940	16.2kg
3675-1900	1800-1900mm	21μm	1970	1000	17.5kg
3675-2000	1900-2000mm	22μm	2075	1055	18.8kg

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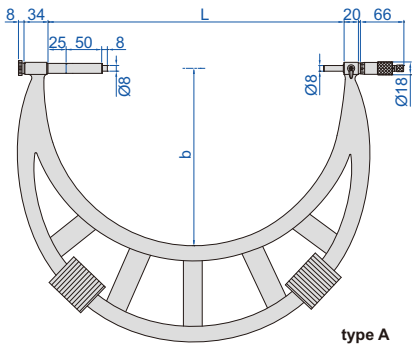
OUTSIDE MICROMETERS WITH EXTENSION ANVIL COLLAR



3205-400

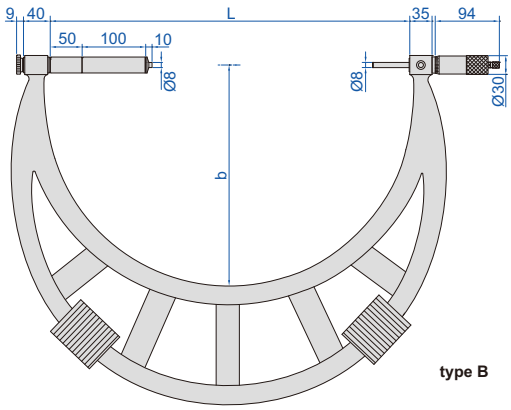


Unit: mm



type A

Unit: mm



type B

- Graduation 0.01mm
- Adjust collars for different measuring ranges
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

(mm)

Code	Range	Type	Accuracy	L	b	Setting standard (included)
3205-400	300-400mm	A	11μm	410	250	325, 375
3205-500	400-500mm	A	13μm	510	295	425, 475
3205-600	500-600mm	A	14μm	610	345	525, 575
3205-700	600-700mm	A	16μm	710	395	625, 675
3205-800	700-800mm	A	18μm	810	445	725, 775,
3205-900	800-900mm	A	20μm	910	495	825, 875
3205-1000	900-1000mm	A	22μm	1010	545	925, 975
3205-1200	1000-1200mm	B	22μm	1210	645	1050, 1150
3205-1400	1200-1400mm	B	24μm	1410	745	1250, 1350
3205-1600	1400-1600mm	B	28μm	1610	845	1450, 1550
3205-1800	1600-1800mm	B	31μm	1810	945	1650, 1750
3205-2000	1800-2000mm	B	34μm	2010	1045	1850, 1950

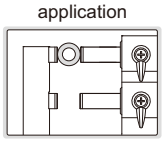


adjust collars for different measuring ranges

LIMIT MICROMETERS

- Used as Go/No-Go gage by setting upper and lower limits
- Graduation 0.002mm
- Carbide measuring faces
- Supplied with setting standard (except 0-25mm)

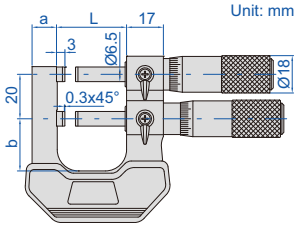
application





3235-25A

Unit: mm



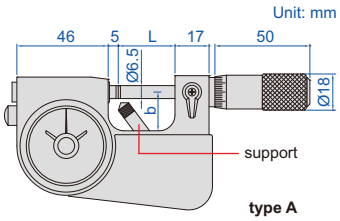
Code	Range	Accuracy	L	a	b
3235-25A	0-25mm	4μm	32mm	12mm	24mm
3235-50A	25-50mm	4μm	57mm	15mm	32mm

INDICATING MICROMETERS

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED



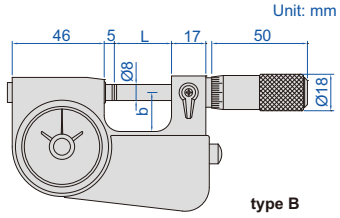
3332-25



- Meet DIN863-3
- Micrometer head graduation: 0.002mm
- Dial indicator: range ±0.04mm, graduation 0.001mm, accuracy 0.001mm
- Carbide measuring faces
- Optional accessory: gage blocks grade 0 (**4101-A** series), for zero setting



3332-25B



(mm)

Code	Micrometer head range	Micrometer head accuracy	Type	L	b	Remark
3332-25	0-25mm	4µm	A	28.5	19	with support
3332-50	25-50mm	4µm	A	53.5	30	with support
3332-75	50-75mm	5µm	A	78.5	45	without support
3332-100	75-100mm	5µm	A	103.5	57	without support
3332-25B	0-25mm	4µm	B	28.5	19	without support

MICROMETERS WITH DIAL INDICATOR

INSIZE PLUS
MADE IN EUROPE

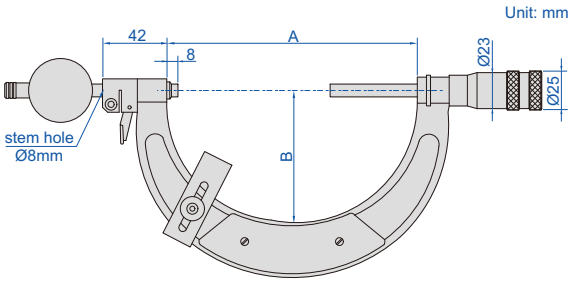
ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

INSPECTION CERTIFICATE

digital indicator is optional



3346-25



(mm)

Code	Micrometer head range	Micrometer head graduation	Micrometer head accuracy	A	B
3346-25*	0-25mm	5µm	4µm	37	24
3346-50*	25-50mm	5µm	4µm	62	34
3346-75*	50-75mm	5µm	5µm	87	46
3346-100*	75-100mm	5µm	5µm	112	60
3346-150*	100-150mm	5µm	6µm	164	85
3346-200*	150-200mm	5µm	7µm	215	110
3346-250*	200-250mm	5µm	8µm	264	135
3346-300*	250-300mm	5µm	9µm	315	160

*Supplied with manufacturer inspection certificate

- Anvil retracting range: 2.5mm
- Carbide measuring faces
- Parallelism of measuring faces: 1µm
- Optional accessory: dial indicator (code **2890-1F**), digital indicator, gage blocks grade 1 (**4101-B** series), for zero setting

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ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

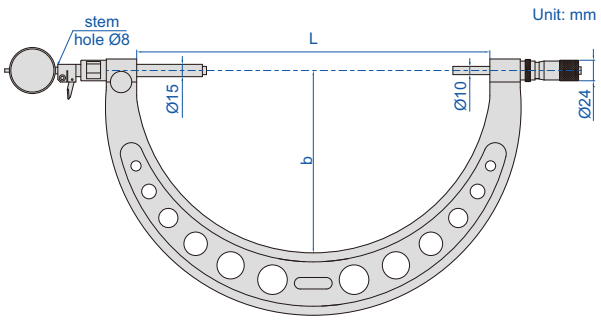
LIGHT WEIGHT

MICROMETERS WITH DIAL INDICATOR

INSIZE PLUS
MADE IN EUROPE

digital indicator is optional





3685-300

- Graduation 0.01mm
- Anvil with vernier graduation, convenient adjustment for different measuring ranges
- Meet DIN863-3
- Carbide measuring faces
- Anvil retracting range: 2.5mm
- Optional accessory: dial/digital indicators, setting standards (code **7386**)

anvil with vernier graduation,
can be adjusted for different measuring ranges



Range 100mm **(mm)**

Code	Range	Micrometer head accuracy	L	b	Weight
3685-300	200-300mm	6μm	320	165	1.7kg
3685-400	300-400mm	7μm	430	220	2.1kg
3685-500	400-500mm	8μm	530	273	2.6kg
3685-600	500-600mm	9μm	630	323	3.3kg
3685-700	600-700mm	9μm	730	378	4.0kg
3685-800	700-800mm	9μm	830	423	4.4kg
3685-900	800-900mm	10μm	930	473	5.2kg
3685-1000	900-1000mm	10μm	1030	520	6.4kg

Range 200mm **(mm)**

Code	Range	Micrometer head accuracy	L	b	Weight
3685-402	200-400mm	7μm	430	220	2.2kg
3685-602	400-600mm	9μm	630	323	3.4kg
3685-802	600-800mm	9μm	830	423	4.5kg
3685-1002	800-1000mm	10μm	1030	520	6.5kg
3685-1202	1000-1200mm	11μm	1230	635	8.9kg
3685-1402	1200-1400mm	12μm	1430	735	11.6kg
3685-1602	1400-1600mm	18μm	1660	840	13.9kg
3685-1802	1600-1800mm	20μm	1870	940	16.5kg
3685-2002	1800-2000mm	22μm	2075	1055	19.1kg

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MICROMETERS WITH DIAL INDICATOR

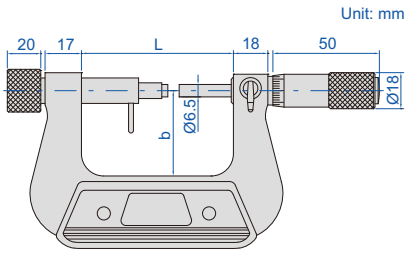
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

- Meet DIN863-3
- Micrometer head graduation 0.01mm
- Anvil retracting range: 8mm
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)
- Optional accessory: dial indicators (graduation 0.01mm), digital indicators (resolution 0.01mm/0.0005")



3331-25A

Code	Micrometer head range	Micrometer head accuracy	L	b
3331-25A	0-25mm	4μm	67mm	38mm
3331-50A	25-50mm	4μm	92.4mm	50mm
3331-75A	50-75mm	5μm	117.6mm	62mm
3331-100A	75-100mm	5μm	143mm	70mm
3331-125A	100-125mm	6μm	168.2mm	82mm
3331-150A	125-150mm	6μm	192mm	94.5mm
3331-175A	150-175mm	7μm	217mm	107mm

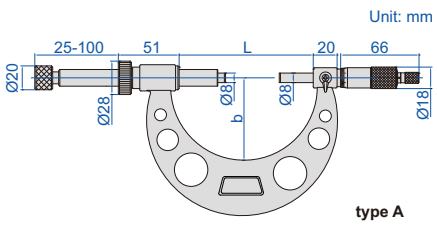


MICROMETERS WITH DIAL INDICATOR

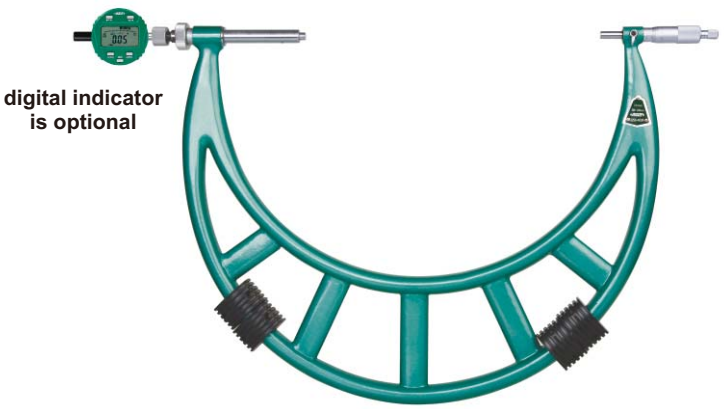
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS



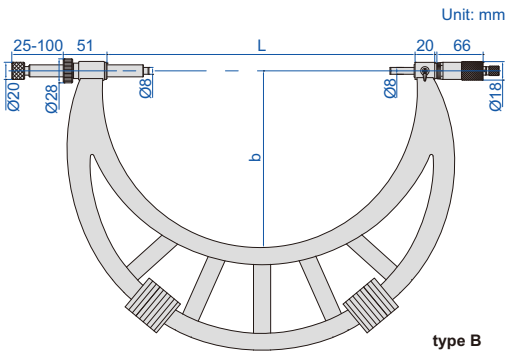
3296-100A



type A



3296-400A



type B

(mm)

Code	Range	Type	Accuracy	L	b
3296-100A	0-100mm	A	6μm	115	68
3296-200A	100-200mm	A	7μm	215	120
3296-300A	200-300mm	A	8μm	315	170
3296-400A	300-400mm	B	9μm	415	225
3296-500A	400-500mm	B	10μm	515	275
3296-600A	500-600mm	B	11μm	615	325
3296-700A	600-700mm	B	12μm	715	375
3296-800A	700-800mm	B	13μm	815	430
3296-900A	800-900mm	B	14μm	915	480
3296-1000A	900-1000mm	B	15μm	1015	530

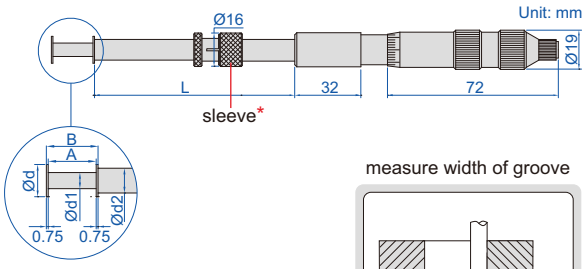
- Meet DIN863-3
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: dial indicators (graduation 0.01mm) digital indicators (resolution 0.01mm/0.0005")

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GROOVE MICROMETERS

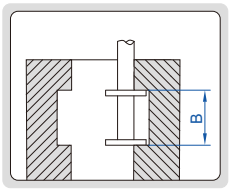


3287-50B



- Measure width of grooves inside bores
- Graduation 0.01mm
- Two graduations for inside and outside measurements
- Non-rotating spindle
- Two-directional ratchet stop

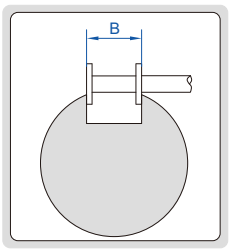
measure width of groove



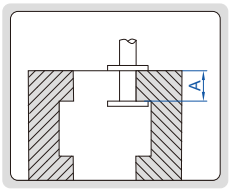
(mm)

Code	Range (outside A)	Range (inside B)	Accuracy	L	Ød	Ød1	Ød2
3287-25B	0-25mm	1.6-26.5mm	10μm	120	13	6.5	10
3287-50B	25-50mm	26.5-51.5mm	10μm	120	13	6.5	10
3287-75B	50-75mm	51.5-76.5mm	10μm	120	13	6.5	10
3287-100B	75-100mm	76.5-101.5mm	10μm	120	13	6.5	10
3287-251B*	0-25mm	1.6-26.5mm	10μm	90	6.5	3	5

measure width of keyway



measure position of groove



***3287-251B** does not have sleeve

3-WIRES

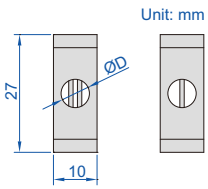
VIDEO

INSPECTION CERTIFICATE

- Used with standard outside micrometers to measure pitch diameter of screw threads
- Diameter accuracy: ±0.5μm
- Cylindricity: 1μm
- Hardness: HRC60
- Supplied with manufacturer inspection certificate



7382-19



application



For outside micrometers with spindle Ø6.35mm (ØD)

Code	Pin gage diameter	Applicable pitch
7382-11	Ø0.170mm	0.2mm, 0.25mm, 0.3mm
7382-12	Ø0.195mm	0.35mm
7382-13	Ø0.220mm	0.4mm
7382-14	Ø0.250mm	0.45mm
7382-15	Ø0.290mm	0.5mm
7382-16	Ø0.335mm	0.6mm
7382-17	Ø0.390mm	0.7mm
7382-18	Ø0.455mm	0.75mm, 0.8mm
7382-19	Ø0.530mm	0.9mm
7382-110	Ø0.620mm	1.0mm
7382-111	Ø0.725mm	1.25mm
7382-112	Ø0.895mm	1.5mm
7382-113	Ø1.100mm	1.75mm, 2.0mm
7382-114	Ø1.350mm	2.5mm
7382-115	Ø1.650mm	3.0mm
7382-116	Ø2.050mm	3.5mm
7382-117	Ø2.550mm	4mm, 4.5mm
7382-118	Ø3.200mm	5mm, 5.5mm, 6mm
7382-1S	18 pairs/set, including all above 3-wires	

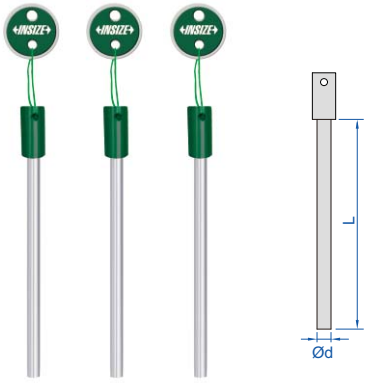
For outside micrometers with spindle Ø6.50mm (ØD)

Code	Pin gage diameter	Applicable pitch
7382-21	Ø0.170mm	0.2mm, 0.25mm, 0.3mm
7382-22	Ø0.195mm	0.35mm
7382-23	Ø0.220mm	0.4mm
7382-24	Ø0.250mm	0.45mm
7382-25	Ø0.290mm	0.5mm
7382-26	Ø0.335mm	0.6mm
7382-27	Ø0.390mm	0.7mm
7382-28	Ø0.455mm	0.75mm, 0.8mm
7382-29	Ø0.530mm	0.9mm
7382-210	Ø0.620mm	1.0mm
7382-211	Ø0.725mm	1.25mm
7382-212	Ø0.895mm	1.5mm
7382-213	Ø1.100mm	1.75mm, 2.0mm
7382-214	Ø1.350mm	2.5mm
7382-215	Ø1.650mm	3.0mm
7382-216	Ø2.050mm	3.5mm
7382-217	Ø2.550mm	4mm, 4.5mm
7382-218	Ø3.200mm	5mm, 5.5mm, 6mm
7382-2S	18 pairs/set, including all above 3-wires	

CARBIDE 3-WIRES

CUSTOMIZABLE DIAMETER Ød

INSPECTION CERTIFICATE



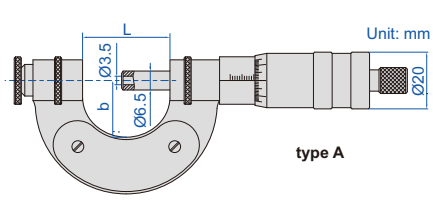
7394-76A

- When Ød≤0.3mm, length L=25mm; When Ød>0.3mm, length L=45mm
- Made of carbide
- Hardness HRA90
- Diameter accuracy: ±0.5µm
- Roundness: 0.5µm
- Cylindricity: 1µm
- Supplied with manufacturer inspection certificate

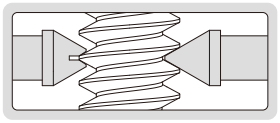
Code	Diameter (Ød)	Applicable pitch
7394-60A	0.170mm	0.2mm, 0.25mm, 0.3mm
7394-61A	0.195mm	0.35mm
7394-62A	0.220mm	0.4mm
7394-63A	0.250mm	0.45mm
7394-64A	0.290mm	0.5mm
7394-65A	0.335mm	0.6mm
7394-66A	0.390mm	0.7mm
7394-67A	0.455mm	0.75mm, 0.8mm
7394-68A	0.530mm	0.9mm
7394-69A	0.620mm	1.0mm
7394-70A	0.725mm	1.25mm
7394-71A	0.895mm	1.5mm
7394-72A	1.100mm	1.75mm, 2.0mm
7394-73A	1.350mm	2.5mm
7394-74A	1.650mm	3.0mm
7394-75A	2.050mm	3.5mm
7394-76A	2.550mm	4mm, 4.5mm
7394-77A	3.200mm	5mm, 5.5mm, 6mm

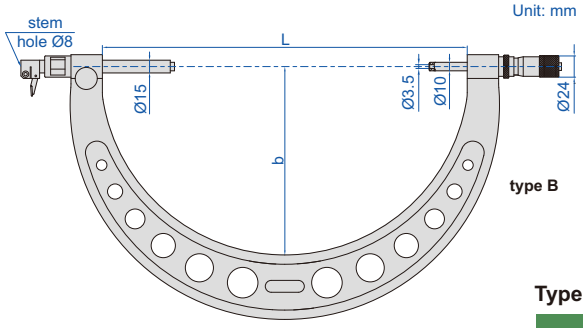
EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS MADE IN EUROPE



type A





type B

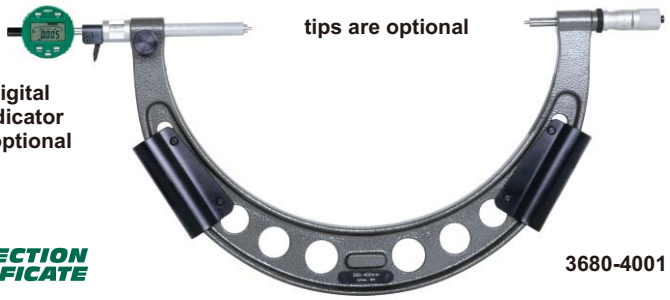
tips are optional



3680-50

digital indicator is optional

tips are optional



3680-4001

INSPECTION CERTIFICATE

- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Optional accessory: setting standards (code **7384**), external tread tips (code **7390**), dial/digital indicators (only for type B)

Type A (ratchet stop) (mm)

Code	Range	Accuracy	L	b
3680-25*	0-25mm	4µm	37	24
3680-50*	25-50mm	4µm	62	34
3680-75*	50-75mm	4µm	87	46
3680-100*	75-100mm	4µm	112	60
3680-125*	100-125mm	5µm	139	72
3680-150*	125-150mm	5µm	164	85
3680-200*	150-200mm	7µm	215	110
3680-250*	200-250mm	7µm	264	135
3680-300*	250-300mm	7µm	315	160

*Supplied with manufacturer inspection certificate

Type B (without ratchet stop) (mm)

Code	Range	Left anvil retracting sroke	Micrometer head accuracy	L	b
3680-3001*	200-300mm	2.5mm	6µm	320	165
3680-4001*	300-400mm	2.5mm	7µm	430	220
3680-5001*	400-500mm	2.5mm	8µm	530	273
3680-6001*	500-600mm	2.5mm	9µm	630	323
3680-7001*	600-700mm	2.5mm	9µm	730	378
3680-8001*	700-800mm	2.5mm	9µm	830	423
3680-9001*	800-900mm	2.5mm	10µm	930	473
3680-10001*	900-1000mm	2.5mm	10µm	1030	520
3680-4002*	200-400mm	2.5mm	7µm	430	220
3680-6002*	400-600mm	2.5mm	9µm	630	323
3680-8002*	600-800mm	2.5mm	9µm	830	423
3680-10002*	800-1000mm	2.5mm	10µm	1030	520
3680-12002*	1000-1200mm	2.5mm	11µm	1230	635
3680-14002*	1200-1400mm	2.5mm	12µm	1430	735
3680-16002*	1400-1600mm	2.5mm	18µm	1660	840
3680-18002*	1600-1800mm	2.5mm	20µm	1870	940
3680-20002*	1800-2000mm	2.5mm	22µm	2075	1055

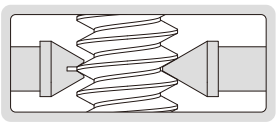
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MEASURING TIPS FOR EXTERNAL SCREW THREAD MICROMETERS

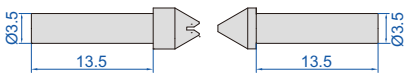
INSIZE PLUS
MADE IN EUROPE



7390-T104



Unit: mm



- Supplied in pair
- Made of hardened steel
- Suitable for **3680** series micrometers

60° thread angle

Code	Pitch
7390-T101	0.35-0.5mm/ 72-48TPI
7390-T102	0.6-0.8mm/ 44-32TPI
7390-T103	0.9-1.25mm/ 28-18TPI
7390-T104	1.5-2mm/ 16-11TPI
7390-T105	2.5-3.5mm/ 10-7TPI
7390-T106	4-6mm/ 6-4TPI

55° thread angle

Code	Pitch
7390-T201	60-48TPI
7390-T202	40-32TPI
7390-T203	28-22TPI
7390-T204	20-16TPI
7390-T205	14-11TPI
7390-T206	10-7TPI
7390-T207	6-4TPI

30° thread angle

Code	Pitch
7390-T301	1.5mm
7390-T302	2mm
7390-T303	3mm
7390-T304	4mm
7390-T305	5-6mm
7390-T306	7-8mm
7390-T307	9-10mm
7390-T308	12-14mm

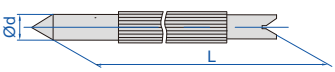
SETTING STANDARDS FOR EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

ATTENTION: WHEN PITCH <0.4MM OR >63.5 TPI, SETTING STANDARDS CANNOT BE USED TO SET ZERO, A CALIBRATED WORK PIECE CAN BE USED INSTEAD

TIPS FOR TRAPEZOIDAL, ACME THREAD ARE ALSO AVAILABLE





7384-A100

- Made of hardened steel
- Deviation (difference between the ordered size and the size marked on the setting standard when supplied): ±20μm
  For example, the ordered size is 25mm, the size marked on the setting standard when supplied may be 25.015mm

60° thread angle (mm)

Code	L	Ød	Accuracy
7384-A25	25	7.8	±2.5μm
7384-A50	50	7.8	±3μm
7384-A75	75	7.8	±3.5μm
7384-A100	100	7.8	±4μm
7384-A125	125	7.8	±4.5μm
7384-A150	150	7.8	±5μm
7384-A175	175	7.8	±5.5μm
7384-A200	200	7.8	±6μm
7384-A225	225	10	±6.5μm
7384-A250	250	10	±7μm
7384-A275	275	10	±7.5μm
7384-A300	300	10	±8μm

55° thread angle (mm)

Code	L	Ød	Accuracy
7384-B25	25	7.8	±2.5μm
7384-B50	50	7.8	±3μm
7384-B75	75	7.8	±3.5μm
7384-B100	100	7.8	±4μm
7384-B125	125	7.8	±4.5μm
7384-B150	150	7.8	±5μm
7384-B175	175	7.8	±5.5μm
7384-B200	200	7.8	±6μm
7384-B225	225	10	±6.5μm
7384-B250	250	10	±7μm
7384-B275	275	10	±7.5μm
7384-B300	300	10	±8μm

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SCREW THREAD MICROMETERS

NON-ROTATING SPINDLE

optional

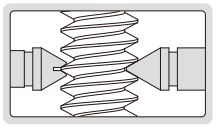


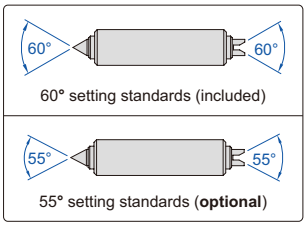
3281-25A
(measuring tips are optional)



3281-S25
(measuring tips are included)

- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm)
- Optional accessory: 55° setting standards





Measuring tips are optional (mm)

Code	Range	L	b	55° setting standard (optional)
3281-25A	0-25mm	42	26	–
3281-50A	25-50mm	67	38	**3281-SP1**
3281-75A	50-75mm	92	50	**3281-SP2**
3281-100A	75-100mm	117.6	62	**3281-SP3**
3281-125A	100-125mm	143	70	**3281-SP4**
3281-150A	125-150mm	168.2	82	**3281-SP5**
3281-175A	150-175mm	192	94.5	**3281-SP6**
3281-200A	175-200mm	217	107	**3281-SP7**
3281-225A	200-225mm	242	130	**3281-SP8**
3281-250A	225-250mm	267	142	**3281-SP9**
3281-275A	250-275mm	291	155	**3281-SP10**
3281-300A	275-300mm	317	167	**3281-SP11**

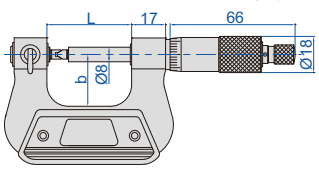
Measuring tips are included (mm)

Code	Range	L	b	Measuring tips (included)	55° setting standard (optional)
3281-S25	0-25mm	42	26	6 pairs of measuring tips: metric and unified thread (60° thread angle) 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI	–
3281-S50	25-50mm	67	38		**3281-SP1**
3281-S75	50-75mm	92	50		**3281-SP2**
3281-S100	75-100mm	117.6	62		**3281-SP3**
3281-S125	100-125mm	143	70		**3281-SP4**
3281-S150	125-150mm	168.2	82		**3281-SP5**
3281-S175	150-175mm	192	94.5		**3281-SP6**
3281-S200	175-200mm	217	107		**3281-SP7**
3281-S225	200-225mm	242	130		**3281-SP8**
3281-S250	225-250mm	267	142		**3281-SP9**
3281-S275	250-275mm	291	155		**3281-SP10**
3281-S300	275-300mm	317	167		**3281-SP11**

accuracy of micrometers with tips (mm)

Pitch	Range							
	0-25	25-50	50-75	75-100	100-125	125-200	200-225	225-300
0.4~0.5	±0.01	-	-	-	-	-	-	-
0.6~0.8	±0.01	±0.013	-	-	-	-	-	-
1~1.25	±0.012	±0.015	±0.017	±0.017	-	-	-	-
1.5~2.0	±0.014	±0.017	±0.019	±0.019	±0.020	±0.023	±0.025	±0.028
2.5~3.5	±0.016	±0.019	±0.021	±0.021	±0.023	±0.025	±0.028	±0.031
4.0~7.0	-	±0.021	±0.023	±0.023	±0.025	±0.028	±0.031	±0.033

Unit: mm



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DATA OUTPUT | NON-ROTATING SPINDLE

DIGITAL SCREW THREAD MICROMETERS

optional



3581-25A
(measuring tips are optional)

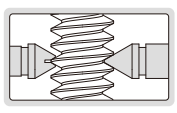


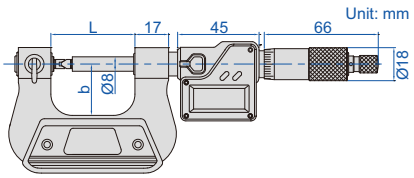
3581-S25
(measuring tips are included)

Measuring tips are optional (mm)

Code	Range	L	b	55° setting standard (optional)
3581-25A	0-25mm/0-1"	42	26	–
3581-50A	25-50mm/1-2"	67	38	**3281-SP1**
3581-75A	50-75mm/2-3"	92	50	**3281-SP2**
3581-100A	75-100mm/3-4"	117.6	62	**3281-SP3**
3581-125A	100-125mm/4-5"	143	70	**3281-SP4**
3581-150A	125-150mm/5-6"	168.2	82	**3281-SP5**
3581-175A	150-175mm/6-7"	192	94.5	**3281-SP6**
3581-200A	175-200mm/7-8"	217	107	**3281-SP7**
3581-225A	200-225mm/8-9"	242	130	**3281-SP8**
3581-250A	225-250mm/9-10"	267	142	**3281-SP9**
3581-275A	250-275mm/10-11"	291	155	**3281-SP10**
3581-300A	275-300mm/11-12"	317	167	**3281-SP11**

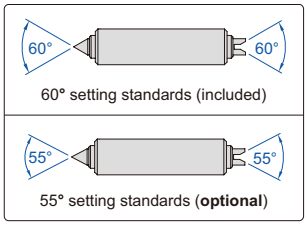
- Measure pitch diameter of screw threads
- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm/0-1")
- Optional accessory: 55° setting standards, data output cable (code **7315-31** page 4, **7302-31** page 12)





Measuring tips are included (mm)

Code	Range	L	b	Measuring tips (included)	55° setting standard (optional)
3581-S25	0-25mm/0-1"	42	26	6 pairs of measuring tips: metric and unified thread (60° thread angle) 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI	–
3581-S50	25-50mm/1-2"	67	38		**3281-SP1**
3581-S75	50-75mm/2-3"	92	50		**3281-SP2**
3581-S100	75-100mm/3-4"	117.6	62		**3281-SP3**
3581-S125	100-125mm/4-5"	143	70		**3281-SP4**
3581-S150	125-150mm/5-6"	168.2	82		**3281-SP5**
3581-S175	150-175mm/6-7"	192	94.5		**3281-SP6**
3581-S200	175-200mm/7-8"	217	107		**3281-SP7**
3581-S225	200-225mm/8-9"	242	130		**3281-SP8**
3581-S250	225-250mm/9-10"	267	142		**3281-SP9**
3581-S275	250-275mm/10-11"	291	155		**3281-SP10**
3581-S300	275-300mm/11-12"	317	167		**3281-SP11**

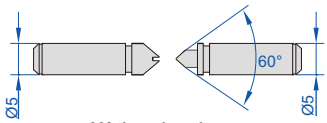


accuracy of micrometers with tips (mm)

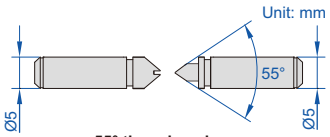
Pitch	Range							
	0-25	25-50	50-75	75-100	100-125	125-200	200-225	225-300
0.4~0.5	±0.01	-	-	-	-	-	-	-
0.6~0.8	±0.01	±0.013	-	-	-	-	-	-
1~1.25	±0.012	±0.015	±0.017	±0.017	-	-	-	-
1.5~2.0	±0.014	±0.017	±0.019	±0.019	±0.020	±0.023	±0.025	±0.028
2.5~3.5	±0.016	±0.019	±0.021	±0.021	±0.023	±0.025	±0.028	±0.031
4.0~7.0	-	±0.021	±0.023	±0.023	±0.025	±0.028	±0.031	±0.033

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MEASURING TIPS FOR SCREW THREAD MICROMETERS



60° thread angle



55° thread angle



7381-T13

- Supplied in pair
- Suitable for **3281, 3581** series micrometers

Metric and unified thread (60° thread angle)

Code	Pitch
7381-T11	0.4-0.5mm/ 64-48TPI
7381-T12	0.6-0.9mm/ 44-28TPI
7381-T13	1-1.75mm/ 24-14TPI
7381-T14	2-3mm/ 13-9TPI
7381-T15	3.5-5mm/ 8-5TPI
7381-T16	5.5-7mm/ 4.5-3.5TPI
7381-TS	6 pairs/set, including all above tips

Whitworth thread (55° thread angle)

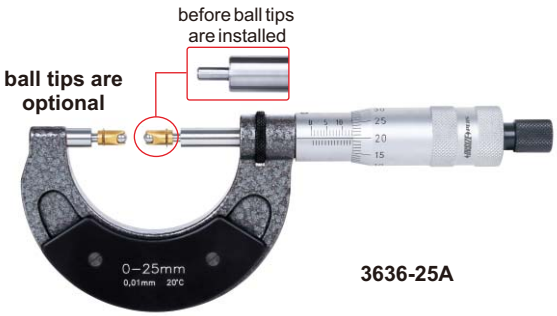
Code	Pitch
7381-T21	60-48TPI
7381-T22	48-40TPI
7381-T23	40-32TPI
7381-T24	32-24TPI
7381-T25	24-18TPI
7381-T26	18-14TPI
7381-T27	14-10TPI
7381-T28	10-7TPI
7381-T29	7-4.5TPI
7381-T210	4.5-3.5TPI
7381-T2S	10 pairs/set, including all above tips

EXTERNAL GEAR TOOTH MICROMETERS

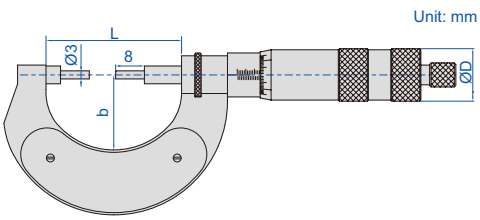
INSIZE PLUS
MADE IN EUROPE

INSPECTION CERTIFICATE

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

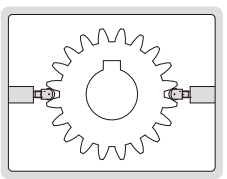


3636-25A



cylindrical tips (**optional**)





- Meet DIN863-3
- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Optional accessory: ball tips (code **7389**), cylindrical tips (code **7393**), setting standards (code **7386**)

(mm)

Code	Range	Accuracy	L	b	ØD
3636-25A*	0-25mm	3µm	62	34	20
3636-50A*	25-50mm	3µm	87	46	20
3636-75A*	50-75mm	4µm	112	60	20
3636-100A*	75-100mm	4µm	139	72	20
3636-125A*	100-125mm	5µm	164	85	20
3636-150A*	125-150mm	5µm	190	97	20
3636-175A*	150-175mm	5µm	215	110	20
3636-200A*	175-200mm	5µm	240	122	20

*Supplied with manufacturer inspection certificate

(mm)

Code	Range	Accuracy	L	b	ØD
3636-225A*	200-225mm	6µm	264	135	20
3636-250A*	225-250mm	6µm	290	148	20
3636-300A*	250-300mm	6µm	325	165	24
3636-350A*	300-350mm	7µm	370	190	24
3636-400A*	350-400mm	7µm	430	220	24
3636-450A*	400-450mm	8µm	475	250	24
3636-500A*	450-500mm	8µm	530	273	24
3636-550A*	500-550mm	9µm	570	291	24
3636-600A*	550-600mm	9µm	630	323	24

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CYLINDRICAL DIAMETER ØD CAN BE CUSTOMIZED

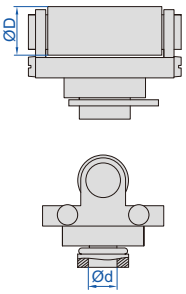
CYLINDRICAL TIPS FOR GEAR TOOTH MICROMETERS

INSIZE PLUS MADE IN EUROPE

- Supplied in pair
- Made of hardened steel
- Self-positioning
- Suitable for **3636, 3638, 3678,** series micrometers



7393-T5



Code	Diameter of shaft (ØD)	Ød	Accuracy
7393-T1	1mm	3mm	±1µm
7393-T2	2mm	3mm	±1µm
7393-T3	3mm	3mm	±1µm
7393-T3D5	3.5mm	3mm	±1µm
7393-T4	4mm	3mm	±1µm
7393-T5	5mm	3mm	±1µm
7393-T6	6mm	3mm	±1µm
7393-T7	7mm	3mm	±1µm
7393-T8	8mm	3mm	±1µm

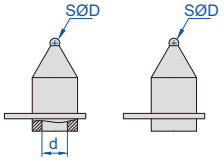
BALL TIPS DIAMETER SØD CAN BE CUSTOMIZED

BALL TIPS FOR GEAR TOOTH MICROMETERS

INSIZE PLUS MADE IN EUROPE



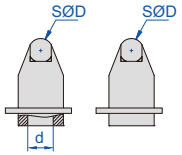
7383-1



type A



7383-2



type B

- Supplied in pair
- Made of hardened steel
- Suitable for **3636, 3638, 3678** series micrometeres

Code	Ball dia. (SØD)	d	Accuracy	Type
7383-1	SØ1mm	Ø3mm	±1µm	A
7383-1D5	SØ1.5mm	Ø3mm	±1µm	B
7383-1D75	SØ1.75mm	Ø3mm	±1µm	B
7383-2	SØ2mm	Ø3mm	±1µm	B
7383-2D25	SØ2.25mm	Ø3mm	±1µm	B
7383-2D5	SØ2.5mm	Ø3mm	±1µm	B
7383-3	SØ3mm	Ø3mm	±1µm	B
7383-3D5	SØ3.5mm	Ø3mm	±1µm	B
7383-4	SØ4mm	Ø3mm	±1µm	B
7383-4D5	SØ4.5mm	Ø3mm	±1µm	B
7383-5	SØ5mm	Ø3mm	±1µm	B
7383-5D5	SØ5.5mm	Ø3mm	±1µm	B
7383-6	SØ6mm	Ø3mm	±1µm	B

Code	Ball dia. (SØD)	d	Accuracy	Type
7383-6D5	SØ6.5mm	Ø3mm	±1µm	B
7383-7	SØ7mm	Ø3mm	±1µm	B
7383-7D5	SØ7.5mm	Ø3mm	±1µm	B
7383-8	SØ8mm	Ø3mm	±1µm	B
7383-9	SØ9mm	Ø3mm	±1µm	B
7383-10	SØ10mm	Ø3mm	±1µm	B
7383-10D5	SØ10.5mm	Ø3mm	±1.5µm	B
7383-11	SØ11mm	Ø3mm	±1.5µm	B
7383-12	SØ12mm	Ø3mm	±1.5µm	B
7383-13	SØ13mm	Ø3mm	±1.5µm	B
7383-14	SØ14mm	Ø3mm	±1.5µm	B
7383-15	SØ15mm	Ø3mm	±1.5µm	B
7383-16	SØ16mm	Ø3mm	±1.5µm	B

GEAR TOOTH MICROMETERS

- Meet DIN863-3
- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except 0-25mm)
- Optional accessory: ball tips (code **7391**)

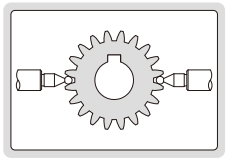
ball tips are optional



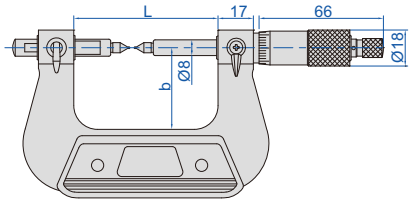
3291-25

(mm)

Code	Range	Accuracy	L	b
3291-25	0-25mm	4μm	67	38
3291-50	25-50mm	4μm	92.4	50
3291-75	50-75mm	5μm	117.6	62
3291-100	75-100mm	5μm	143	70
3291-125	100-125mm	6μm	168.2	82
3291-150	125-150mm	6μm	192	94.5
3291-175	150-175mm	7μm	217	107



Unit: mm



DIGITAL GEAR TOOTH MICROMETERS

IP65 WATERPROOF

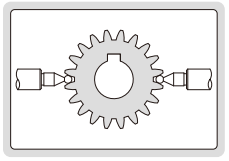
DATA OUTPUT

- Measure over-pin diameter of gears
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: ball tips (code **7391**), data output cable (code **7315-31** page 4, **7302-31** page 12)

ball tips are optional



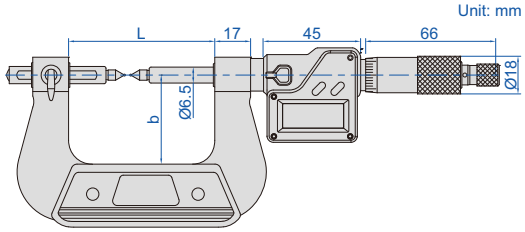
3591-25A



(mm)

Code	Range	Accuracy	L	b
3591-25A	0-25mm/0-1"	±4μm	67	38
3591-50A	25-50mm/1-2"	±4μm	92.4	50
3591-75A	50-75mm/2-3"	±5μm	117.6	62
3591-100A	75-100mm/3-4"	±5μm	143	70
3591-125A	100-125mm/4-5"	±6μm	168.2	82
3591-150A	125-150mm/5-6"	±6μm	192	94.5
3591-175A	150-175mm/6-7"	±7μm	217	107

Unit: mm



BALL TIPS FOR GEAR TOOTH MICROMETERS

BALL TIPS DIAMETER SØD CAN BE CUSTOMIZED WITH SIZES BETWEEN 1.50-6.00MM

- Supplied in pair
- Suitable for **3291, 3591** series micrometers



7391-T5

Code	Ball dia. (D)
7391-T2	SØ1.5mm
7391-T3	SØ2.0mm
7391-T4	SØ2.5mm
7391-T5	SØ3.0mm

Code	Ball dia. (D)
7391-T6	SØ3.5mm
7391-T7	SØ4.0mm
7391-T8	SØ4.5mm
7391-T9	SØ5.0mm
7391-T10	SØ6.0mm

Unit: mm



ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

INSPECTION CERTIFICATE

POINT MICROMETERS

INSIZE PLUS
MADE IN EUROPE

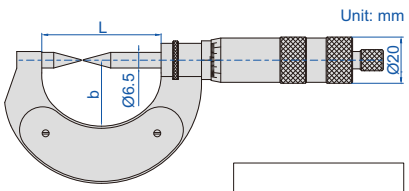
(mm)

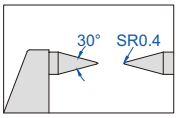
Code	Range	Accuracy	L	b
3659-25A*	0-25mm	4µm	62	34
3659-50A*	25-50mm	4µm	87	46
3659-75A*	50-75mm	5µm	112	60
3659-100A*	75-100mm	5µm	139	72
3659-125A*	100-125mm	6µm	164	85
3659-150A*	125-150mm	6µm	190	97
3659-175A*	150-175mm	7µm	215	110
3659-200A*	175-200mm	7µm	240	122
3659-225A*	200-225mm	8µm	264	135
3659-250A*	225-250mm	8µm	290	148

*Supplied with manufacturer inspection certificate



3659-25A





- Measure the web thickness of drills, small grooves and keyways
- Graduation: 0.01mm
- Ratchet stop
- Carbide tips
- Optional accessory: setting standards (code **7386**)

POINT MICROMETERS

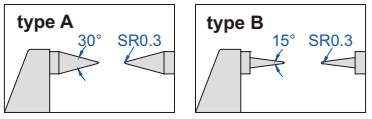
- Measure the web thickness of drills, small grooves and keyways
- Graduation 0.01mm
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except 0-25mm)

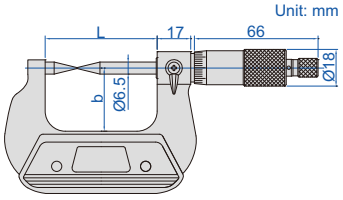
(mm)

Code	Range	Type	Accuracy	L	b
3230-25A	0-25mm	A	4µm	57	32
3230-50A	25-50mm	A	4µm	82	44.5
3230-75A	50-75mm	A	5µm	107	57
3230-100A	75-100mm	A	5µm	132.6	69.5
3230-25BA	0-25mm	B	4µm	57	32
3230-50BA	25-50mm	B	4µm	82	44.5
3230-75BA	50-75mm	B	5µm	107	57
3230-100BA	75-100mm	B	5µm	132.6	69.5



3230-25A





DIGITAL POINT MICROMETERS

- Measure the web thickness of drills, small grooves and keyways
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

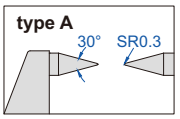
(mm)

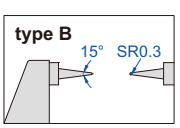
Code	Range	Type	Accuracy	L	b
3530-25A	0-25mm/0-1"	A	±4µm	57	32
3530-50A	25-50mm/1-2"	A	±4µm	82	44.5
3530-75A	50-75mm/2-3"	A	±5µm	107	57
3530-100A	75-100mm/3-4"	A	±5µm	132.6	69.5
3530-25BA	0-25mm/0-1"	B	±4µm	57	32
3530-50BA	25-50mm/1-2"	B	±4µm	82	44.5
3530-75BA	50-75mm/2-3"	B	±5µm	107	57
3530-100BA	75-100mm/3-4"	B	±5µm	132.6	69.5

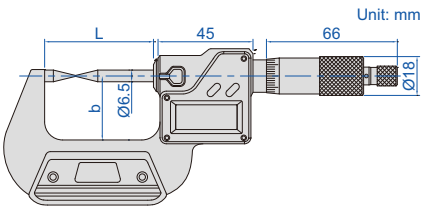
DATA OUTPUT
IP65 WATERPROOF



3530-25A







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HIGH PRECISION DIGITAL POINT MICROMETERS/SNAP GAGES

ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

NON-ROTATING SPINDLE

DATA OUTPUT

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

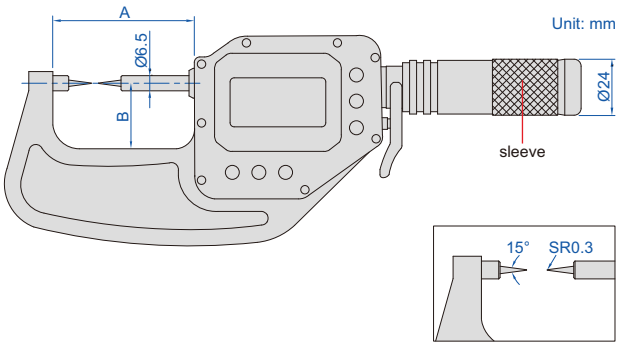
IP65 WATERPROOF

INSPECTION CERTIFICATE

VIDEO

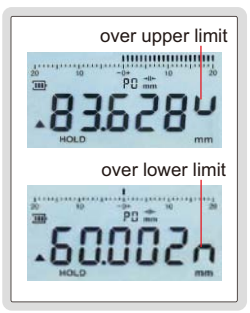


3354-25



- Measure the web thickness of drills, small grooves and keyways
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 7-10N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting (except 0-25mm/0-1")
- Power: rechargeable battery, for 24 hours continuous working

alarm when over tolerance



wireless receiver
2134-R1, 2134-R2 (optional)



With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Repeatability	A	B
3354-25*	0-25mm/0-1"	2μm	1μm	63mm	25mm
3354-50*	25-50mm/1-2"	2μm	1μm	88mm	42mm
3354-75*	50-75mm/2-3"	2μm	1μm	113mm	56mm

Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

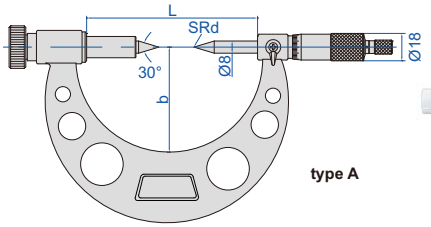
Code	Range	Accuracy	Repeatability	A	B
3354-25WL*	0-25mm/0-1"	2μm	1μm	63mm	25mm
3354-50WL*	25-50mm/1-2"	2μm	1μm	88mm	42mm
3354-75WL*	50-75mm/2-3"	2μm	1μm	113mm	56mm

*Supplied with manufacturer inspection certificate

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GEAR ROOT DIAMETER MICROMETERS

Unit: mm



type A



3297-100



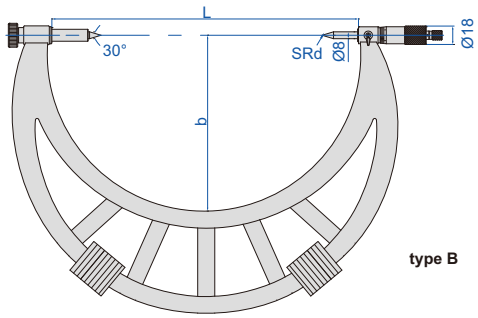
3297-300

- Measure diameter of gear root circle
- Graduation 0.01mm
- Ratchet stop
- Meet DIN863-3
- Carbide measuring faces
- Supplied with setting standards

(mm)

Code	Range	Type	Accuracy	L	b	SRd
3297-100	5-100mm	A	5µm	137	72	0.4
3297-200	100-200mm	A	7µm	237	129	0.5
3297-300	200-300mm	B	9µm	414	225	0.7
3297-400	300-400mm	B	11µm	514	275	0.7
3297-500	400-500mm	B	13µm	614	325	0.7
3297-600	500-600mm	B	15µm	714	375	0.7
3297-700	600-700mm	B	16µm	814	425	0.7
3297-800	700-800mm	B	18µm	914	475	0.7
3297-900	800-900mm	B	20µm	1014	525	0.7

Unit: mm



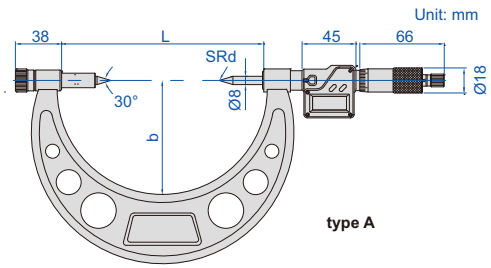
type B

DIGITAL GEAR ROOT DIAMETER MICROMETERS

IP65 WATERPROOF

DATA OUTPUT

Unit: mm



type A



3597-100



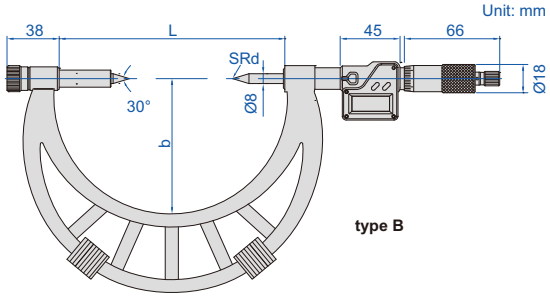
3597-300

- Measure diameter of gear root circle
- Resolution 0.001mm/0.0001" (resolution of **3597-100** and **3597-200** is 0.001mm/0.00005")
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

(mm)

Code	Range	Type	Accuracy	L	b	SRd
3597-100	5-100mm	A	3µm	137	72	0.4
3597-200	100-200mm	A	4µm	237	129	0.5
3597-300	200-300mm	B	5µm	414	225	0.7
3597-400	300-400mm	B	6µm	514	275	0.7
3597-500	400-500mm	B	7µm	614	325	0.7
3597-600	500-600mm	B	8µm	714	375	0.7
3597-700	600-700mm	B	8µm	814	425	0.7
3597-800	700-800mm	B	9µm	914	475	0.7
3597-900	800-900mm	B	10µm	1014	525	0.7

Unit: mm



type B

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BLADE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

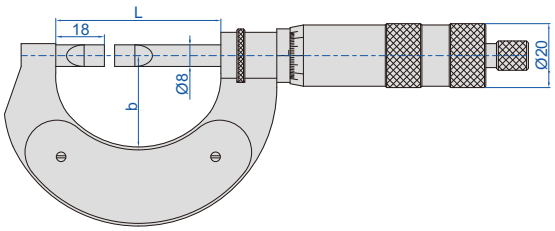
INSPECTION CERTIFICATE

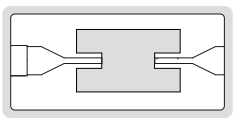
ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

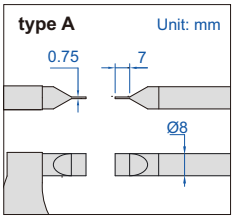


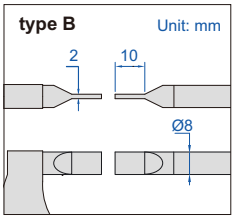
3650-25A

Unit: mm









- Meet DIN863-3
- Graduation 0.01mm
- Force: 5-10N
- Optional accessory: setting standards (code **7386**)

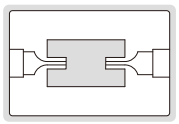
(mm)

Code	Range	Type	Accuracy	L	b
3650-25A*	0-25mm	A	4μm	62	34
3650-50A*	25-50mm	A	4μm	87	46
3650-75A*	50-75mm	B	5μm	112	60
3650-100A*	75-100mm	B	5μm	139	72
3650-125A*	100-125mm	B	6μm	164	85
3650-150A*	125-150mm	B	6μm	190	97
3650-175A*	150-175mm	B	7μm	215	110
3650-200A*	175-200mm	B	7μm	240	122
3650-225A*	200-225mm	B	8μm	264	135
3650-250A*	225-250mm	B	8μm	290	148
3650-275A*	250-275mm	B	9μm	315	160
3650-300A*	275-300mm	B	9μm	340	174

*Supplied with manufacturer inspection certificate

BLADE MICROMETERS

NON-ROTATING SPINDLE

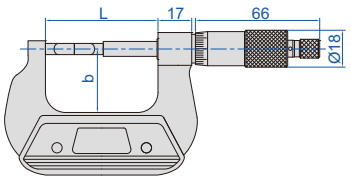


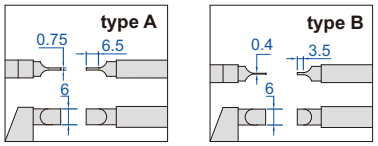
- Meet DIN863-3
- Measure the groove diameter of shafts and keyways
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



3232-25A

Unit: mm





Type A (mm)

Code	Range	Accuracy	L	b
3232-25A	0-25mm	4µm	57	32
3232-50A	25-50mm	4µm	82	44.5
3232-75A	50-75mm	5µm	107	57
3232-100A	75-100mm	5µm	132.6	69.5
3232-125A	100-125mm	6µm	158	82
3232-150A	125-150mm	6µm	183.4	94.5
3232-175A	150-175mm	7µm	208.8	107
3232-200A	175-200mm	7µm	234.2	129.6
3232-225A	200-225mm	8µm	259.6	142.3
3232-250A	225-250mm	8µm	285	155
3232-275A	250-275mm	9µm	310.4	167.7
3232-300A	275-300mm	9µm	336.5	177.8

Type B (mm)

Code	Range	Accuracy	L	b
3232-25BA	0-25mm	4µm	57	32
3232-50BA	25-50mm	4µm	82	44.5
3232-75BA	50-75mm	5µm	107	57
3232-100BA	75-100mm	5µm	132.6	69.5
3232-125BA	100-125mm	6µm	158	82
3232-150BA	125-150mm	6µm	183.4	94.5
3232-175BA	150-175mm	7µm	208.8	107
3232-200BA	175-200mm	7µm	234.2	129.6
3232-225BA	200-225mm	8µm	259.6	142.3
3232-250BA	225-250mm	8µm	285	155
3232-275BA	250-275mm	9µm	310.4	167.7
3232-300BA	275-300mm	9µm	336.5	177.8

DIGITAL BLADE MICROMETERS

DATA OUTPUT

NON-ROTATING SPINDLE

- Measure the groove diameter of shafts and keyways
- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

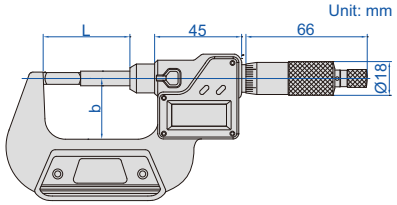


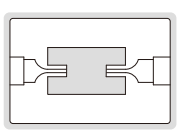
3532-25A

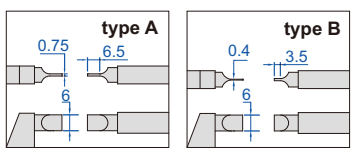
(mm)

Code	Range	Type	Accuracy	L	b
3532-25A	0-25mm/0-1"	A	±4µm	57	32
3532-50A	25-50mm/1-2"	A	±4µm	82	44.5
3532-75A	50-75mm/2-3"	A	±5µm	107	57
3532-100A	75-100mm/3-4"	A	±5µm	132.6	69.5
3532-125A	100-125mm/4-5"	A	±6µm	158	82
3532-150A	125-150mm/5-6"	A	±6µm	183.4	94.5
3532-175A	150-175mm/6-7"	A	±7µm	208.8	107
3532-25BA	0-25mm/0-1"	B	±4µm	57	32
3532-50BA	25-50mm/1-2"	B	±4µm	82	44.5
3532-75BA	50-75mm/2-3"	B	±5µm	107	57
3532-100BA	75-100mm/3-4"	B	±5µm	132.6	69.5
3532-125BA	100-125mm/4-5"	B	±6µm	158	82
3532-150BA	125-150mm/5-6"	B	±6µm	183.4	94.5
3532-175BA	150-175mm/6-7"	B	±7µm	208.8	107

Unit: mm







HIGH PRECISION DIGITAL BLADE MICROMETERS/SNAP GAGES

VIDEO

MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

IP65 WATERPROOF

DATA OUTPUT

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

NON-ROTATING SPINDLE

ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM

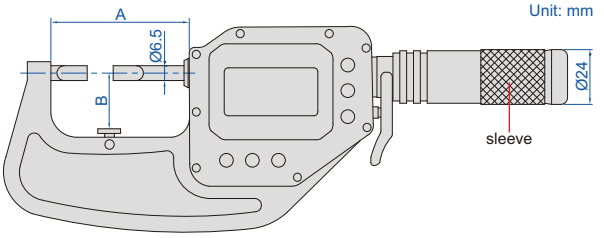
ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

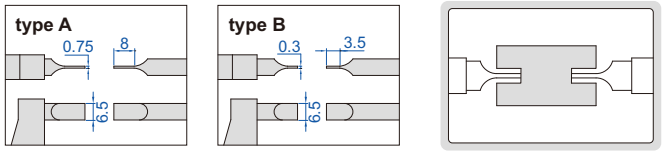
INSPECTION CERTIFICATE



3352-25A

- Measure the groove diameter of shafts and keyways
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 7-10N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting (except 0-25mm/0-1")
- Power: rechargeable battery, for 24 hours continuous working

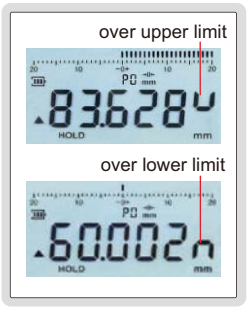




With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Type	Accuracy	Repeatability	A	B
3352-25A*	0-25mm/0-1"	A	2µm	1µm	63mm	25mm
3352-50A*	25-50mm/1-2"	A	2µm	1µm	88mm	42mm
3352-75A*	50-75mm/2-3"	A	2µm	1µm	113mm	56mm
3352-25B*	0-25mm/0-1"	B	2µm	1µm	63mm	25mm
3352-50B*	25-50mm/1-2"	B	2µm	1µm	88mm	42mm
3352-75B*	50-75mm/2-3"	B	2µm	1µm	113mm	56mm

alarm when over tolerance



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Type	Accuracy	Repeatability	A	B
3352-25AWL*	0-25mm/0-1"	A	2µm	1µm	63mm	25mm
3352-50AWL*	25-50mm/1-2"	A	2µm	1µm	88mm	42mm
3352-75AWL*	50-75mm/2-3"	A	2µm	1µm	113mm	56mm
3352-25BWL*	0-25mm/0-1"	B	2µm	1µm	63mm	25mm
3352-50BWL*	25-50mm/1-2"	B	2µm	1µm	88mm	42mm
3352-75BWL*	50-75mm/2-3"	B	2µm	1µm	113mm	56mm

wireless receiver
2134-R1, 2134-R2 (optional)



*Supplied with manufacturer inspection certificate

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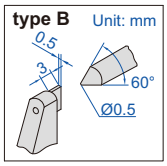
CRIMP HEIGHT MICROMETERS

RELATIVE PRODUCT: DIGITAL CRIMP HEIGHT CALIPER (CODE 1165-150A)

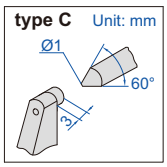
- Measure the height of crimp contact
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



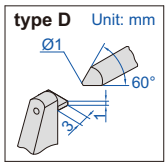
type B Unit: mm



type C Unit: mm



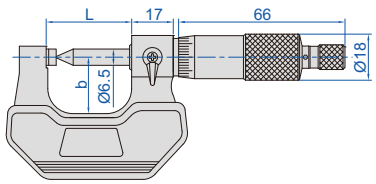
type D Unit: mm





3266-25BA

Unit: mm



(mm)

Code	Range	Type	Accuracy	L	b
3266-25BA	0-25mm	B	4µm	34	24
3266-25CA	0-25mm	C	4µm	34	24
3266-50CA	25-50mm	C	4µm	59	32
3266-75CA	50-75mm	C	5µm	85	45
3266-100CA	75-100mm	C	5µm	110	57
3266-25DA	0-25mm	D	4µm	34	24

DIGITAL CRIMP HEIGHT MICROMETERS

IP65 WATERPROOF

DATA OUTPUT

RELATIVE PRODUCT: DIGITAL CRIMP HEIGHT CALIPER (CODE 1165-150A)

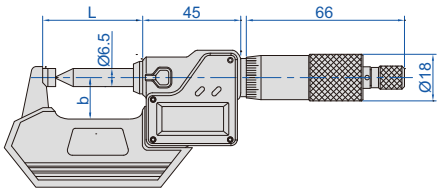




3566-25BA

- Measure the height of crimp contact
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

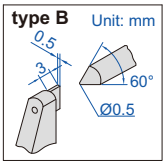
Unit: mm



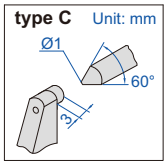
(mm)

Code	Range	Type	Accuracy	L	b
3566-25BA	0-25mm/0-1"	B	±4µm	34.5	25
3566-25CA	0-25mm/0-1"	C	±4µm	34.5	25
3566-50CA	25-50mm/0-1"	C	±4µm	59.5	32
3566-75CA	50-75mm/0-1"	C	±5µm	84.5	44.5
3566-100CA	75-100mm/0-1"	C	±5µm	109.5	57
3566-25DA	0-25mm/0-1"	D	±4µm	34.5	25

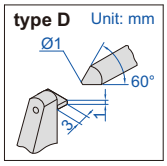
type B Unit: mm



type C Unit: mm



type D Unit: mm



SPLINE MICROMETERS

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

INSPECTION CERTIFICATE

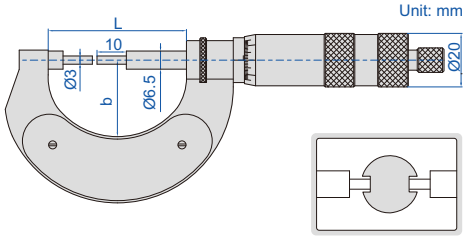
INSIZE PLUS MADE IN EUROPE



3658-25

- Meet DIN863-3
- Measure splined shafts, slots and keyways
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting standards (code **7386**)

Unit: mm



(mm)

Code	Range	Accuracy	L	b
3658-25*	0-25mm	4µm	62	34
3658-50*	25-50mm	4µm	87	46
3658-75*	50-75mm	5µm	112	60
3658-100*	75-100mm	5µm	139	72
3658-125*	100-125mm	6µm	164	85
3658-150*	125-150mm	6µm	190	97
3658-175*	150-175mm	7µm	215	110
3658-200*	175-200mm	7µm	240	122
3658-225*	200-225mm	8µm	264	135
3658-250*	225-250mm	8µm	290	148

*Supplied with manufacturer inspection certificate

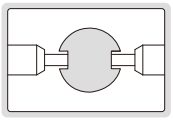
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SPLINE MICROMETERS

- Meet DIN863-3
- Measure splined shafts, slots and keyways
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

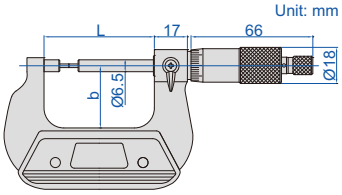


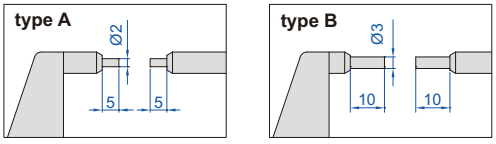
3233-25BA



(mm)

Code	Range	Type	Accuracy	L	b
3233-25A	0-25mm	A	4μm	57	32
3233-50A	25-50mm	A	4μm	82	44.5
3233-75A	50-75mm	A	5μm	107	57
3233-100A	75-100mm	A	5μm	132.6	69.5
3233-125A	100-125mm	A	6μm	158	82
3233-150A	125-150mm	A	6μm	183.4	94.5
3233-175A	150-175mm	A	7μm	208.8	107
3233-25BA	0-25mm	B	4μm	57	32
3233-50BA	25-50mm	B	4μm	82	44.5
3233-75BA	50-75mm	B	5μm	107	57
3233-100BA	75-100mm	B	5μm	132.6	69.5
3233-125BA	100-125mm	B	6μm	158	82
3233-150BA	125-150mm	B	6μm	183.4	94.5
3233-175BA	150-175mm	B	7μm	208.8	107





DIGITAL SPLINE MICROMETERS

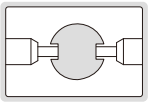
IP65 WATERPROOF

DATA OUTPUT

- Measure splined shafts, slots and keyways
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

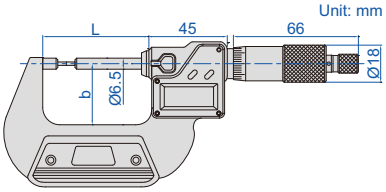


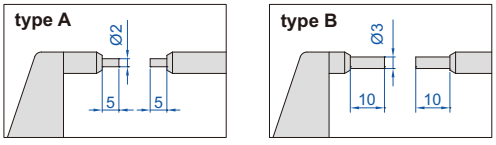
3533-25BA



(mm)

Code	Range	Type	Accuracy	L	b
3533-25A	0-25mm/0-1"	A	±4μm	57	32
3533-50A	25-50mm/1-2"	A	±4μm	82	44.5
3533-75A	50-75mm/2-3"	A	±5μm	107	57
3533-100A	75-100mm/3-4"	A	±5μm	132.6	69.5
3533-125A	100-125mm/4-5"	A	±6μm	158	82
3533-150A	125-150mm/5-6"	A	±6μm	183.4	94.5
3533-175A	150-175mm/6-7"	A	±7μm	208.8	107
3533-25BA	0-25mm/0-1"	B	±4μm	57	32
3533-50BA	25-50mm/1-2"	B	±4μm	82	44.5
3533-75BA	50-75mm/2-3"	B	±5μm	107	57
3533-100BA	75-100mm/3-4"	B	±5μm	132.6	69.5
3533-125BA	100-125mm/4-5"	B	±6μm	158	82
3533-150BA	125-150mm/5-6"	B	±6μm	183.4	94.5
3533-175BA	150-175mm/6-7"	B	±7μm	208.8	107





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HIGH PRECISION DIGITAL SPLINE MICROMETERS/SNAP GAGES

ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM

MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

NON-ROTATING SPINDLE

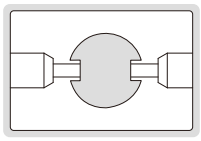
ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

IP65 WATERPROOF

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

DATA OUTPUT

INSPECTION CERTIFICATE

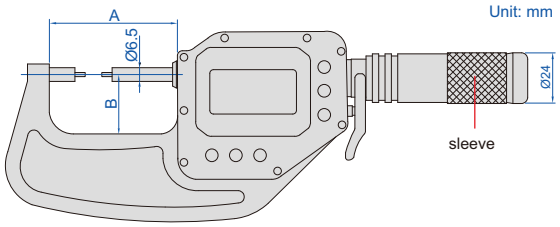


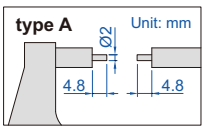
VIDEO

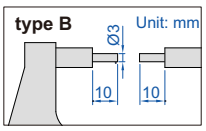


- Measure splined shafts, slots and keyways
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 7-10N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting (except 0-25mm/0-1")
- Power: rechargeable battery, for 24 hours continuous working

3356-25



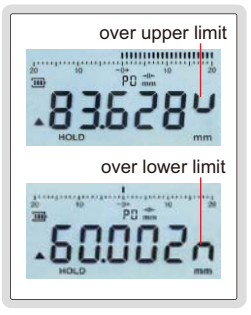




With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Type	Repeatability	A	B
3356-25 *	0-25mm/0-1"	2μm	A	1μm	63mm	25mm
3356-50 *	25-50mm/1-2"	2μm	A	1μm	88mm	42mm
3356-75 *	50-75mm/2-3"	2μm	A	1μm	113mm	56mm
3356-25B *	0-25mm/0-1"	2μm	B	1μm	63mm	25mm
3356-50B *	25-50mm/1-2"	2μm	B	1μm	88mm	42mm
3356-75B *	50-75mm/2-3"	2μm	B	1μm	113mm	56mm

alarm when over tolerance



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Type	Repeatability	A	B
3356-25WL *	0-25mm/0-1"	2μm	A	1μm	63mm	25mm
3356-50WL *	25-50mm/1-2"	2μm	A	1μm	88mm	42mm
3356-75WL *	50-75mm/2-3"	2μm	A	1μm	113mm	56mm
3356-25BWL *	0-25mm/0-1"	2μm	B	1μm	63mm	25mm
3356-50BWL *	25-50mm/1-2"	2μm	B	1μm	88mm	42mm
3356-75BWL *	50-75mm/2-3"	2μm	B	1μm	113mm	56mm

wireless receiver
2134-R1, 2134-R2 (optional)



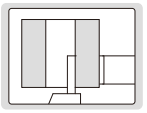
*Supplied with manufacturer inspection certificate

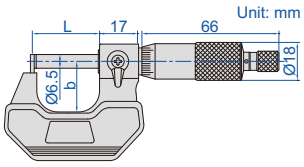
CYLINDRICAL ANVIL TUBE MICROMETERS

- Measure wall thickness of tubes
- Graduation 0.01mm
- Ratchet stop
- Carbide spindle tip
- Supplied with setting standards (except 0-25mm)



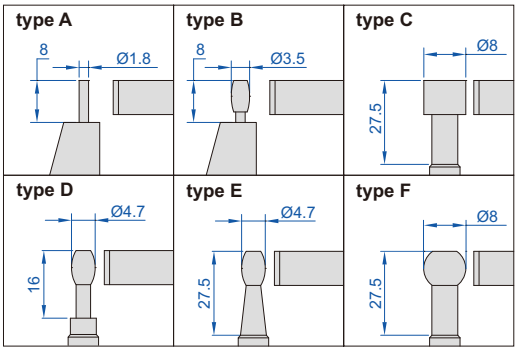
3261-25A





(mm)

Code	Range	Type	Accuracy	L	b
3261-25A	0-25mm	A	6µm	36	25
3261-50A	25-50mm	A	6µm	61	32
3261-25BA	0-25mm	B	6µm	36	25
3261-50BA	25-50mm	B	6µm	61	32
3261-25CA	0-25mm	C	6µm	36	25
3261-50CA	25-50mm	C	6µm	61	32
3261-25DA	0-25mm	D	6µm	36	25
3261-50DA	25-50mm	D	6µm	61	32
3261-25EA	0-25mm	E	6µm	36	25
3261-50EA	25-50mm	E	6µm	61	32
3261-25FA	0-25mm	F	6µm	36	25
3261-50FA	25-50mm	F	6µm	61	32



DIGITAL CYLINDRICAL ANVIL TUBE MICROMETERS

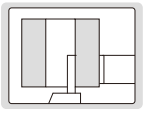
IP65 WATERPROOF

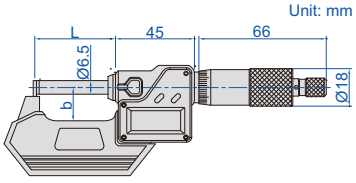
DATA OUTPUT

- Measure wall thickness of tubes
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide spindle tip
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



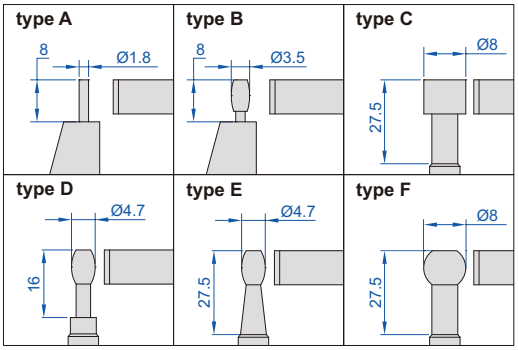
3561-25A





(mm)

Code	Range	Type	Accuracy	L	b
3561-25A	0-25mm/0-1"	A	±6µm	36	25
3561-50A	25-50mm/1-2"	A	±6µm	61	32
3561-25BA	0-25mm/0-1"	B	±6µm	36	25
3561-50BA	25-50mm/1-2"	B	±6µm	61	32
3561-25CA	0-25mm/0-1"	C	±6µm	36	25
3561-50CA	25-50mm/1-2"	C	±6µm	61	32
3561-25DA	0-25mm/0-1"	D	±6µm	36	25
3561-50DA	25-50mm/1-2"	D	±6µm	61	32
3561-25EA	0-25mm/0-1"	E	±6µm	36	25
3561-50EA	25-50mm/1-2"	E	±6µm	61	32
3561-25FA	0-25mm/0-1"	F	±6µm	36	25
3561-50FA	25-50mm/1-2"	F	±6µm	61	32



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SPHERICAL ANVIL TUBE MICROMETERS

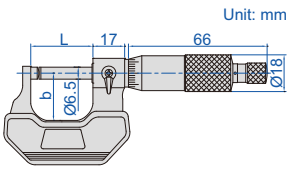
- Meet DIN863-3
- Measure wall thickness of tubes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

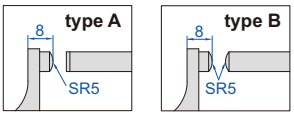


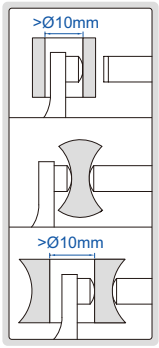
3260-25A

(mm)

Code	Range	Type	Accuracy	L	b
3260-25A	0-25mm	A	4μm	32	24
3260-50A	25-50mm	A	4μm	57	32
3260-75A	50-75mm	A	5μm	82	44.5
3260-100A	75-100mm	A	5μm	107	57
3260-25SA	0-25mm	B	4μm	32	24
3260-50SA	25-50mm	B	4μm	57	32
3260-75SA	50-75mm	B	5μm	82	44.5
3260-100SA	75-100mm	B	5μm	107	57







IP65 WATERPROOF

DATA OUTPUT

DIGITAL SPHERICAL ANVIL TUBE MICROMETERS

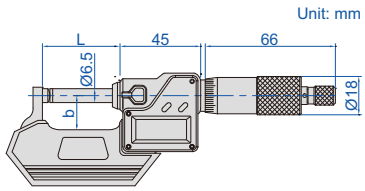
- Measure wall thickness of tubes
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable
  (code **7315-31** page 4, **7302-31** page 12)

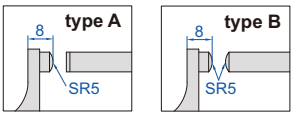


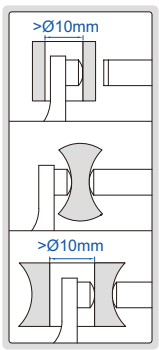
3560-25A

(mm)

Code	Range	Type	Accuracy	L	b
3560-25A	0-25mm/0-1"	A	±4μm	32	24
3560-50A	25-50mm/1-2"	A	±4μm	57	32
3560-75A	50-75mm/2-3"	A	±5μm	82	44.5
3560-100A	75-100mm/3-4"	A	±5μm	107	57
3560-25SA	0-25mm/0-1"	B	±4μm	32	24
3560-50SA	25-50mm/1-2"	B	±4μm	57	32
3560-75SA	50-75mm/2-3"	B	±5μm	82	44.5
3560-100SA	75-100mm/3-4"	B	±5μm	107	57





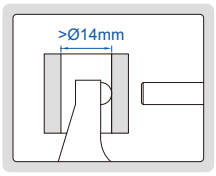


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HIGH PRECISION DIGITAL SPHERICAL ANVIL TUBE MICROMETERS/SNAP GAGES

IP65 WATERPROOF | NON-ROTATING SPINDLE | ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF | ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM | MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

INSPECTION CERTIFICATE | ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING | DATA OUTPUT

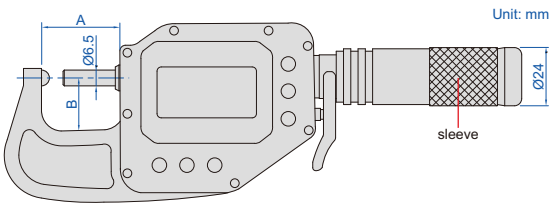


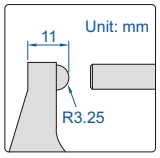
VIDEO



- Measure wall thickness of tubes
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 7-10N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting (except 0-25mm/0-1")
- Power: rechargeable battery, for 24 hours continuous working

3355-25

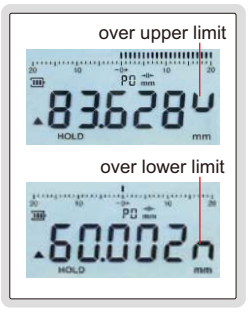




With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Repeatability	A	B
3355-25 *	0-25mm/0-1"	2μm	1μm	38mm	24mm
3355-50 *	25-50mm/1-2"	2μm	1μm	63mm	25mm
3355-75 *	50-75mm/2-3"	2μm	1μm	88mm	42mm
3355-100 *	75-100mm/3-3.95"	2μm	1μm	113mm	56mm

alarm when over tolerance



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Repeatability	A	B
3355-25WL*	0-25mm/0-1"	2μm	1μm	38mm	24mm
3355-50WL*	25-50mm/1-2"	2μm	1μm	63mm	25mm
3355-75WL*	50-75mm/2-3"	2μm	1μm	88mm	42mm
3355-100WL*	75-100mm/3-3.95"	2μm	1μm	113mm	56mm

wireless receiver
2134-R1, 2134-R2 (optional)



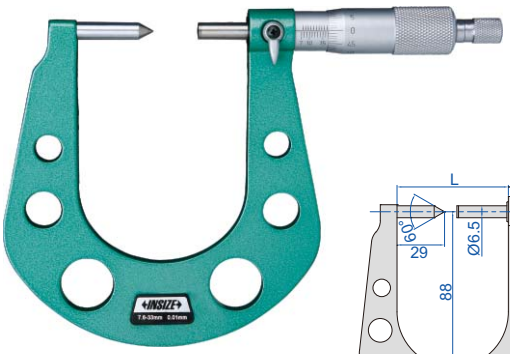
*Supplied with manufacturer inspection certificate

DISK BRAKE MICROMETERS

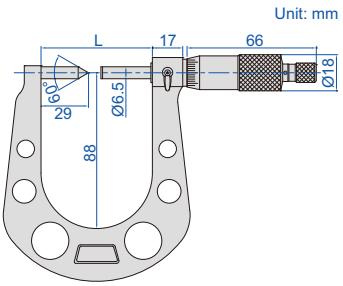
RELATIVE PRODUCT: DIGITAL DISK BRAKE AND PAD CALIPER DIGITAL DRUM BRAKE CALIPER (CODE 1162-125A, 1167-150A, 1168-300A)

- Measure thickness of disk brakes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards





3288-33A



Code	Range	Accuracy	L
3288-33A	7.6-33mm	5μm	64.5mm
3288-50A	25-50mm	5μm	82mm

DIGITAL DISK BRAKE MICROMETERS

RELATIVE PRODUCT: DIGITAL DISK BRAKE AND PAD CALIPER DIGITAL DRUM BRAKE CALIPER (CODE 1162-125A, 1167-150A, 1168-300A)

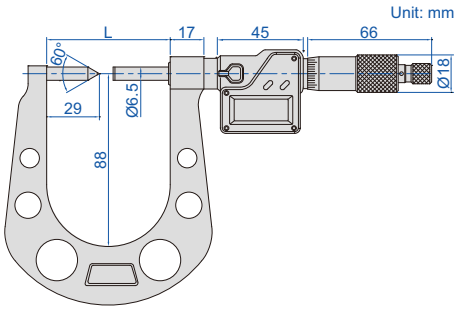
IP65 WATERPROOF

DATA OUTPUT

- Measure thickness of disk brakes
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



3588-33A



Code	Range	Accuracy	L
3588-33A	7.6-33mm/0.3-1.3"	±5μm	64.5mm
3588-50A	25-50mm/1-2"	±5μm	82mm

SHEET METAL MICROMETERS

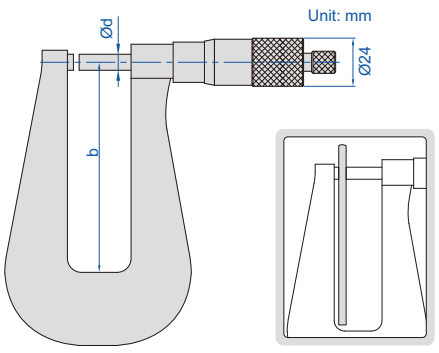
INSIZE PLUS MADE IN EUROPE

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

- Deep frame suitable for sheet metal, paper and plastic
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting standards (code **7386**)



3653-252A



(mm)

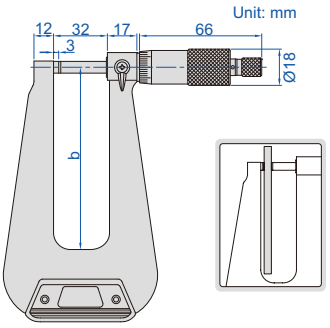
Code	Range	Accuracy	b	Ød
3653-251A	0-25mm	4μm	50	6.5
3653-252A	0-25mm	5μm	100	8
3653-253A	0-25mm	6μm	150	6.5
3653-254A	0-25mm	8μm	250	6.5
3653-501A	25-50mm	4μm	50	8
3653-502A	0-50mm	4μm	50	8
3653-503A	0-50mm	5μm	100	8
3653-100A	50-100mm	5μm	100	8

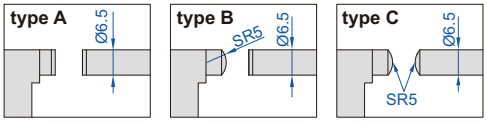
SHEET METAL MICROMETERS

- Deep frame suitable for sheet metal, paper and plastic
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces



3239-253





Code	Range	Type	Accuracy	b
3239-253	0-25mm	A	7µm	155mm
3239-253F	0-25mm	B	7µm	155mm
3239-254F	0-25mm	B	10µm	310mm
3239-253S	0-25mm	C	7µm	155mm

DIGITAL SHEET METAL MICROMETERS

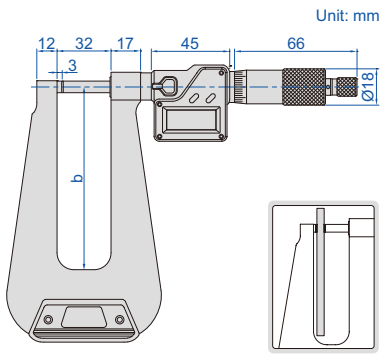
DATA OUTPUT

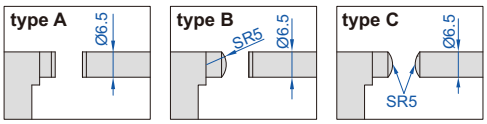
IP65 WATERPROOF

- Deep frame suitable for sheet metal, paper and plastic
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



3539-253A





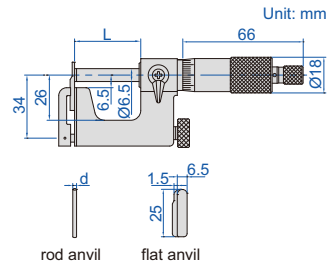
Code	Range	Type	Accuracy	b
3539-253A	0-25mm/0-1"	A	±7µm	155mm
3539-253FA	0-25mm/0-1"	B	±7µm	155mm
3539-254FA	0-25mm/0-1"	B	±10µm	310mm
3539-253SA	0-25mm/0-1"	C	±7µm	155mm

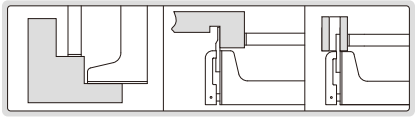
INTERCHANGEABLE ANVIL MICROMETERS

- Measure tube thickness, shoulder edge distance, rivet head height, etc.
- Supplied with flat anvil and rod anvil
- Graduation 0.01mm
- Ratchet stop
- Carbide spindle tip
- Setting standards are included (except 0-25mm)



3262-25A





Code	Range	Accuracy	L	d
3262-25A	0-25mm	4µm	28.5mm	Ø3mm
3262-50A	25-50mm	4µm	53.5mm	Ø5mm

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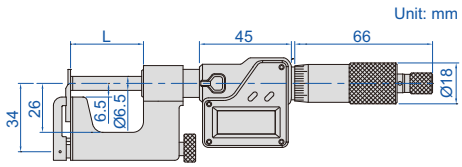
DIGITAL INTERCHANGEABLE ANVIL MICROMETERS

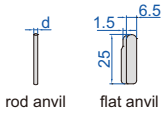
IP65 WATERPROOF | DATA OUTPUT

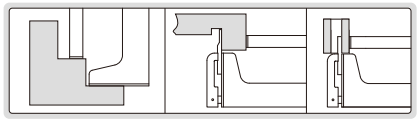


3562-25A

- Measure tube thickness, shoulder edge distance, rivet head height, etc.
- Supplied with flat anvil and rod anvil
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide spindle tip
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

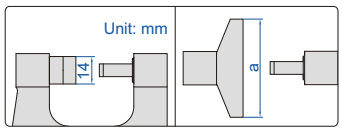






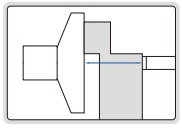
Code	Range	Accuracy	L	d
3562-25A	0-25mm/0-1"	±4μm	28.5mm	Ø3mm
3562-50A	25-50mm/1-2"	±4μm	53.5mm	Ø5mm

LARGE ANVIL MICROMETERS

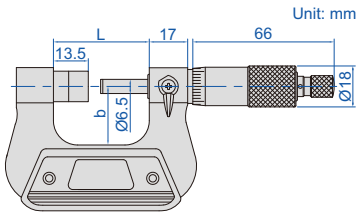




3234-25A



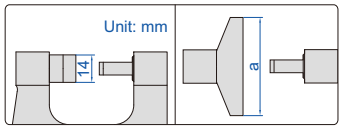
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



Code	Range	Accuracy	L	a	b
3234-25A	0-25mm	4μm	42mm	50mm	26mm
3234-50A	25-50mm	4μm	67mm	60mm	38mm

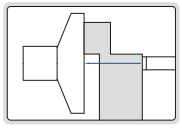
DIGITAL LARGE ANVIL MICROMETERS

DATA OUTPUT | IP65 WATERPROOF

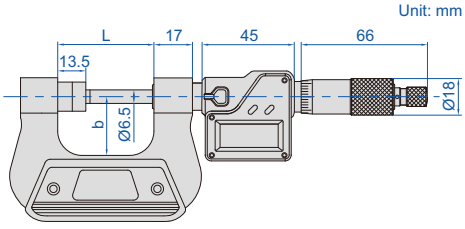




3534-25A



- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



Code	Range	Accuracy	L	a	b
3534-25A	0-25mm/0-1"	±4μm	42mm	50mm	26mm
3534-50A	25-50mm/1-2"	±4μm	67mm	60mm	38mm

6

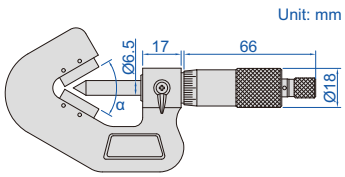
V-ANVIL MICROMETERS

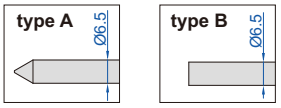
- Measure the diameter of parts or cutting tools with odd grooves, such as taps, reamers and end mills
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards



3290-153A

Unit: mm





Code	Range	Flutes	Accuracy	α	Type
3290-153A	1-15mm	3	4µm	60°	A
3290-203A	5-20mm	3	4µm	60°	B
3290-353A	20-35mm	3	5µm	60°	B
3290-503A	35-50mm	3	5µm	60°	B
3290-653A	50-65mm	3	6µm	60°	B
3290-803A	65-80mm	3	6µm	60°	B
3290-953A	80-95mm	3	7µm	60°	B
3290-255A	5-25mm	5	4µm	108°	B

Code	Range	Flutes	Accuracy	α	Type
3290-455A	25-45mm	5	5µm	108°	B
3290-655A	45-65mm	5	6µm	108°	B
3290-855A	65-85mm	5	7µm	108°	B
3290-1055A	85-105mm	5	8µm	108°	B
3290-257A	5-25mm	7	4µm	128°34'17"	B
3290-457A	25-45mm	7	5µm	128°34'17"	B
3290-657A	45-65mm	7	6µm	128°34'17"	B
3290-857A	65-85mm	7	7µm	128°34'17"	B

DIGITAL V-ANVIL MICROMETERS

IP65 WATERPROOF

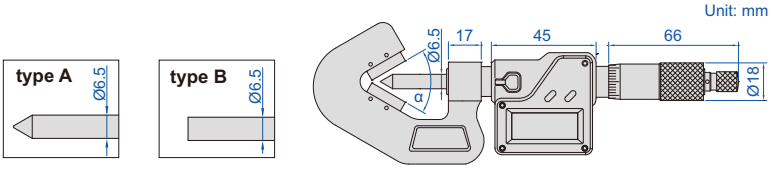
DATA OUTPUT

- Measure the diameter of parts or cutting tools with odd grooves, such as taps, reamers and end mills
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



3590-153A

Unit: mm



Code	Range	Flutes	Accuracy	α	Type
3590-153A	1-15mm/0.04-0.6"	3	±4µm	60°	A
3590-203A	5-20mm/0.2-0.8"	3	±4µm	60°	B
3590-353A	20-35mm/0.8-1.4"	3	±5µm	60°	B
3590-503A	35-50mm/1.4-2.0"	3	±5µm	60°	B
3590-653A	50-65mm/2.0-2.6"	3	±6µm	60°	B
3590-803A	65-80mm/2.6-3.2"	3	±6µm	60°	B
3590-953A	80-95mm/3.2-3.6"	3	±6µm	60°	B
3590-255A	5-25mm/0.2-1.0"	5	±4µm	108°	B

Code	Range	Flutes	Accuracy	α	Type
3590-455A	25-45mm/1.0-1.8"	5	±5µm	108°	B
3590-655A	45-65mm/1.8-2.6"	5	±6µm	108°	B
3590-855A	65-85mm/2.6-3.4"	5	±6µm	108°	B
3590-1055A	85-105mm/3.4-4.2"	5	±6µm	108°	B
3590-257A	5-25mm/0.2-1.0"	7	±4µm	128°34'17"	B
3590-457A	25-45mm/1.0-1.8"	7	±4µm	128°34'17"	B
3590-657A	45-65mm/1.8-2.6"	7	±5µm	128°34'17"	B
3590-857A	65-85mm/2.6-3.4"	7	±5µm	128°34'17"	B

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NON-ROTATING SPINDLE UNIVERSAL MICROMETERS

Anvil/spindle tip (included) Unit: mm

Flat	Ø6.5	
Spherical	SR5 Ø6.5	
Spline	3 Ø2	
Disk	Ø12	
Blade	3 0.7	
Knife-edge	0.35 60°	
Point	Ø0.3 60°	

55° anvil/spindle tip (**optional**) Unit: mm

Code **3280-SP1** Knife-edge	0.35 55°	
Code **3280-SP2** Point	Ø0.3 55°	

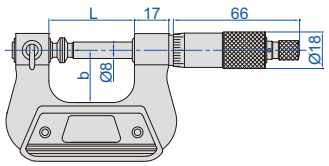
NON-ROTATING SPINDLE



3280-25A

- Meet DIN863-3
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tip
- Setting standards are included (except 0-25mm)
- Optional accessory: 55° anvil/spindle tip (code **3280-SP1** and **3280-SP2**)

Unit: mm



Code	Range	Accuracy	L	b
3280-25A	0-25mm	4μm	42mm	26mm
3280-50A	25-50mm	4μm	67mm	38mm
3280-75A	50-75mm	5μm	92mm	50mm
3280-100A	75-100mm	5μm	118mm	62mm
3280-125A	100-125mm	6μm	143mm	70mm
3280-150A	125-150mm	6μm	168mm	82mm
3280-175A	150-175mm	7μm	192mm	95mm
3280-200A	175-200mm	7μm	217mm	107mm

DIGITAL UNIVERSAL MICROMETERS

Anvil/spindle tip (included) Unit: mm

Flat	Ø6.5	
Spherical	SR5 Ø6.5	
Spline	3 Ø2	
Disk	Ø12	
Blade	3 0.7	
Knife-edge	0.35 60°	
Point	Ø0.3 60°	

55° anvil/spindle tip (**optional**) Unit: mm

Code **3280-SP1** Knife-edge	0.35 55°	
Code **3280-SP2** Point	Ø0.3 55°	

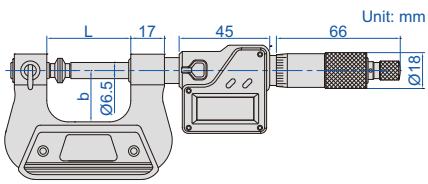
DATA OUTPUT NON-ROTATING SPINDLE



3580-25A

- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tip
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: 55° anvil/spindle tip code **3280-SP1** and **3280-SP2**, data output cable (code **7315-31** page 4, **7302-31** page 12)

Unit: mm

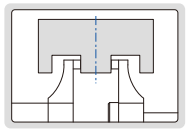


(mm)

Code	Range	Accuracy	L	b
3580-25A	0-25mm/0-1"	±4μm	42	26
3580-50A	25-50mm/1-2"	±4μm	67	38
3580-75A	50-75mm/2-3"	±5μm	92	50
3580-100A	75-100mm/3-4"	±5μm	118	62
3580-125A	100-125mm/4-5"	±6μm	143	70
3580-150A	125-150mm/5-6"	±6μm	168	82
3580-175A	150-175mm/6-7"	±7μm	192	95
3580-200A	175-200mm/7-8"	±7μm	217	107

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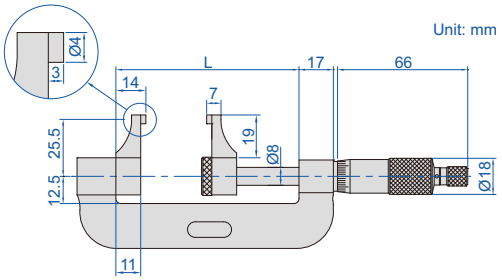
CALIPER TYPE MICROMETERS





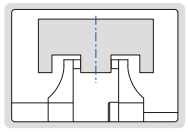
3238-25

- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)



Code	Range	Accuracy	L
3238-25	0-25mm	10μm	56mm
3238-50	25-50mm	10μm	81mm
3238-75	50-75mm	11μm	106mm
3238-100	75-100mm	11μm	131mm

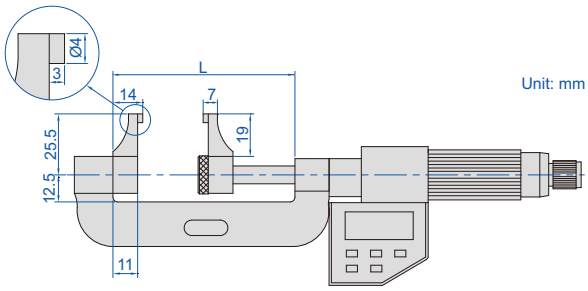
DIGITAL CALIPER TYPE MICROMETERS





3538-25

- Resolution: 0.001mm/0.00005"
- Non-rotating spindle
- Buttons: on/off, data set, mm/in, ABS/INC
- Data output
- Automatic power off
- Ratchet friction thimble
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm/0-1")



Code	Range	Accuracy	L
3538-25	0-25mm/0-1"	±10μm	56mm
3538-50	25-50mm/1-2"	±10μm	81mm
3538-75	50-75mm/2-3"	±11μm	106mm
3538-100	75-100mm/3-4"	±11μm	131mm

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NON-ROTATING SPINDLE

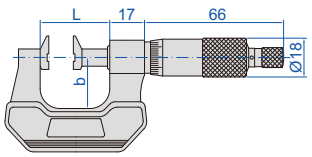
JAW TYPE MICROMETERS

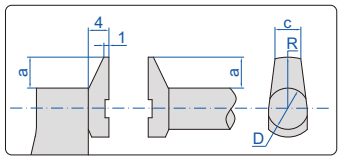
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except 0-25mm)

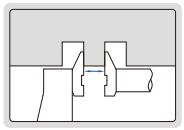


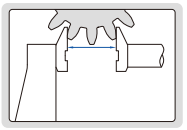
3283-25A

Unit: mm









(mm)

Code	Range	Accuracy	L	a	b	c	R	D
3283-25A	0-25mm	4μm	34	6	24	5	10	8
3283-50A	25-50mm	4μm	59	6	32	5	10	8
3283-75A	50-75mm	5μm	85	6	45	5	10	8
3283-100A	75-100mm	5μm	110	6	57	5	10	8
3283-125A	100-125mm	6μm	138	9	70	8	15	12
3283-150A	125-150mm	6μm	163	9	82	8	15	12
3283-175A	150-175mm	7μm	188	9	95	8	15	12
3283-200A	175-200mm	7μm	214	9	107	8	15	12

DATA OUTPUT

NON-ROTATING SPINDLE

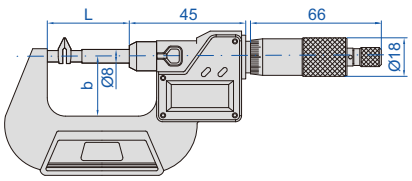
DIGITAL JAW TYPE MICROMETERS

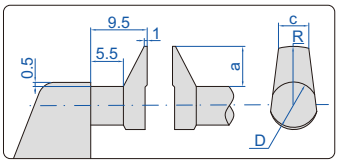


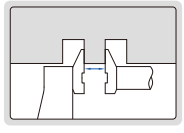
3583-25A

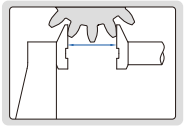
- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

Unit: mm









(mm)

Code	Range	Accuracy	L	a	b	c	R	D
3583-25A	0-25mm/0-1"	±4μm	43	6.5	32	5	10	8
3583-50A	25-50mm/1-2"	±4μm	85	6.5	44.5	5	10	8
3583-75A	50-75mm/2-3"	±5μm	110	6.5	57	5	10	8
3583-100A	75-100mm/3-4"	±5μm	135	6.5	70	5	10	8
3583-125A	100-125mm/4-5"	±6μm	160	11.5	86	8	15	12
3583-150A	125-150mm/5-6"	±6μm	186	11.5	94.5	8	15	12
3583-175A	150-175mm/6-7"	±7μm	211	11.5	107	8	15	12
3583-200A	175-200mm/7-8"	±7μm	236	11.5	120	8	15	12

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DISK MICROMETERS

INSIZE PLUS
MADE IN EUROPE

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

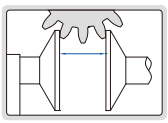
- Graduation: 0.01mm
- Ratchet stop
- One turn of sleeve makes 0.5mm spindle feed
- Optional accessory: setting standards (code **7386**)

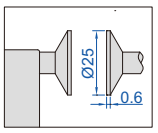


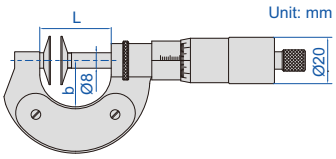
3676-25

(mm)

Code	Range	Accuracy	L	b
3676-25	0-25mm	4µm	37	24
3676-50	25-50mm	4µm	62	34
3676-75	50-75mm	5µm	87	46
3676-100	75-100mm	5µm	112	60
3676-125	100-125mm	6µm	139	72
3676-150	125-150mm	6µm	164	85
3676-175	150-175mm	7µm	190	97
3676-200	175-200mm	7µm	215	110
3676-225	200-225mm	8µm	240	122
3676-250	225-250mm	8µm	264	135
3676-275	250-275mm	9µm	290	148
3676-300	275-300mm	9µm	315	160





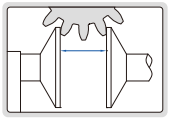


LARGE RANGE DISK MICROMETERS

INSIZE PLUS
MADE IN EUROPE

ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

LIGHT WEIGHT



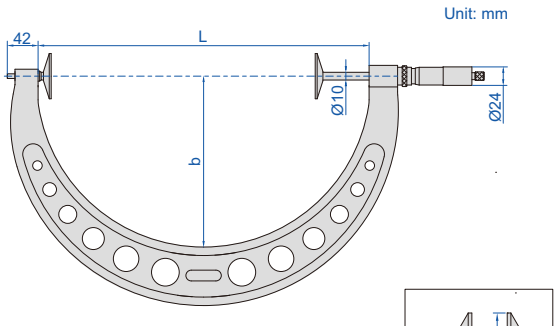
- Graduation: 0.01mm
- Ratchet stop
- Quick measurement, one turn of sleeve makes 1mm spindle feed
- Light weight
- Optional accessory: setting standards (code **7386**)

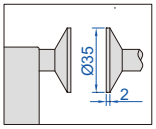


3677-350

(mm)

Code	Range	Accuracy	L	b	Weight
3677-350	300-350mm	8µm	370	190	1.65kg
3677-400	350-400mm	8µm	430	220	1.95kg
3677-450	400-450mm	9µm	475	250	2.30kg
3677-500	450-500mm	9µm	530	273	2.45kg
3677-550	500-550mm	10µm	570	291	2.55kg
3677-600	550-600mm	10µm	630	323	3.15kg
3677-650	600-650mm	10µm	675	351	3.45kg
3677-700	650-700mm	10µm	730	378	3.85kg
3677-750	700-750mm	10µm	785	401	4.05kg
3677-800	750-800mm	10µm	830	423	4.25kg
3677-850	800-850mm	11µm	885	440	4.45kg
3677-900	850-900mm	11µm	930	473	5.05kg
3677-950	900-950mm	11µm	980	503	5.95kg
3677-1000	950-1000mm	11µm	1030	520	6.25kg

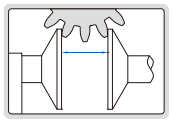




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DISK MICROMETERS

- Measure root tangent length of gear
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards

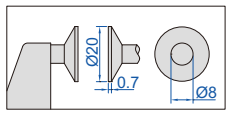


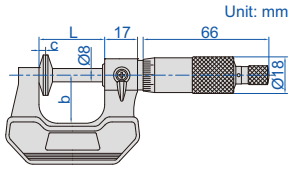


3282-25

(mm)

Code	Range	Accuracy	Parallelism	L	b	c
3282-25	0-25mm	4μm	5μm	34	24	3.3
3282-50	25-50mm	4μm	5μm	59	32	3.3
3282-75	50-75mm	5μm	5μm	85	45	3.3
3282-100	75-100mm	5μm	5μm	110	57	3.3

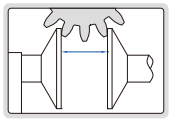




NON-ROTATING SPINDLE

NON-ROTATING SPINDLE DISK MICROMETERS

- Measure root tangent length of gear
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards

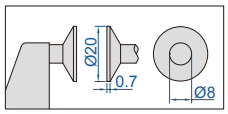


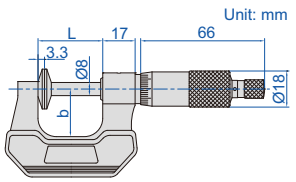


3294-25

(mm)

Code	Range	Accuracy	Parallelism	L	b
3294-25	0-25mm	4μm	5μm	34	24
3294-50	25-50mm	4μm	5μm	59	32
3294-75	50-75mm	5μm	5μm	85	45
3294-100	75-100mm	5μm	5μm	110	57





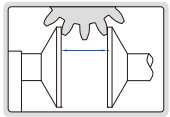
DATA OUTPUT

NON-ROTATING SPINDLE

DIGITAL NON-ROTATING SPINDLE DISK MICROMETERS

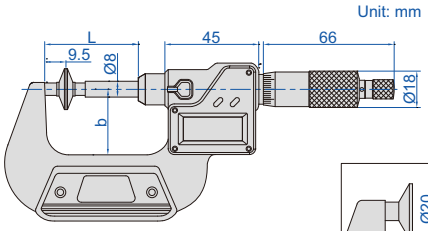
- Measure root tangent length of gear
- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Supplied with setting standards
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

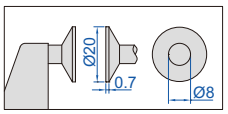




3594-25A

Code	Range	Accuracy	Parallelism	L	b
3594-25A	0-25mm/0-1"	±4μm	5μm	43mm	32mm
3594-50A	25-50mm/1-2"	±4μm	5μm	68mm	44.5mm
3594-75A	50-75mm/2-3"	±5μm	5μm	93mm	57mm
3594-100A	75-100mm/3-4"	±5μm	5μm	118.5mm	70mm





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HIGH PRECISION DIGITAL DISK MICROMETERS/SNAP GAGES

DATA OUTPUT | NON-ROTATING SPINDLE | ONE TURN OF SLEEVE MAKES 5MM SPINDLE FEED, PRESS THE FORK, THE SPINDLE RETRACTS 3MM | ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF | MEASUREMENT ACCURACY IS NOT AFFECTED BY THE USE OF SLEEVE

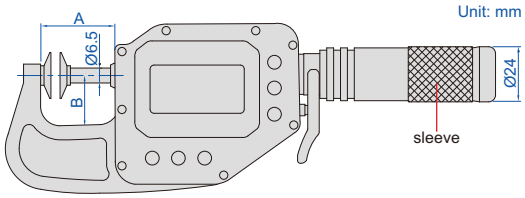
ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING | IP65 WATERPROOF | INSPECTION CERTIFICATE

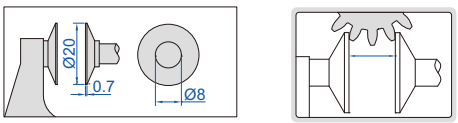
VIDEO



3353-25

- Measure root tangent length of gear
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork, the spindle retracts 3mm
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Measuring force 7-10N
  Customizable measuring force range 2-12N
  Attention: small measuring force will reduce the dustproof and waterproof level
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, zero, mm/inch, adjust resolution
- Supplied with gage blocks for zero setting
- Power: rechargeable battery, for 24 hours continuous working

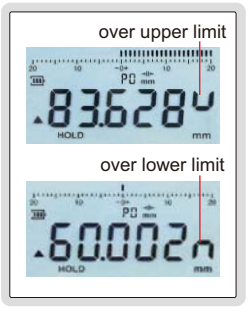




With data interface
Optional accessory:
wireless transmitter, code **7315-3350** page 6
data output cable (keyboard format), code **7302-3350** page 13

Code	Range	Accuracy	Repeatability	Parallelism	A	B
3353-25 *	0-25mm/0-1"	4μm	1μm	4μm	38mm	24mm
3353-50 *	25-50mm/1-2"	4μm	1μm	4μm	63mm	25mm
3353-75 *	50-75mm/2-3"	5μm	1μm	5μm	88mm	42mm
3353-100 *	75-100mm/3-3.95"	5μm	1μm	5μm	113mm	56mm
3353-125 *	100-125mm/4-5"	6μm	2μm	6μm	128mm	62.5mm
3353-150 *	125-150mm/5-6"	6μm	2μm	6μm	153mm	75mm

alarm when over tolerance



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Repeatability	Parallelism	A	B
3353-25WL*	0-25mm/0-1"	4μm	1μm	4μm	38mm	24mm
3353-50WL*	25-50mm/1-2"	4μm	1μm	4μm	63mm	25mm
3353-75WL*	50-75mm/2-3"	5μm	1μm	5μm	88mm	42mm
3353-100WL*	75-100mm/3-3.95"	5μm	1μm	5μm	113mm	56mm
3353-125WL*	100-125mm/4-5"	6μm	2μm	6μm	128mm	62.5mm
3353-150WL*	125-150mm/5-6"	6μm	2μm	6μm	153mm	75mm

wireless receiver
2134-R1, 2134-R2 (optional)



*Supplied with manufacturer inspection certificate

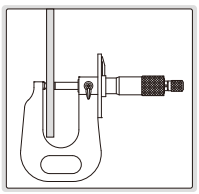
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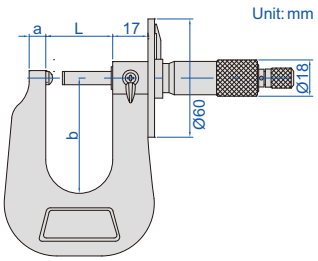
SHEET METAL MICROMETERS

- Meet DIN863-3
- Measure thickness of sheet metal, paper, plastic and rubber parts
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces



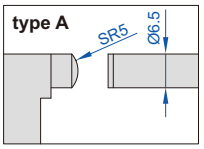
3263-25A

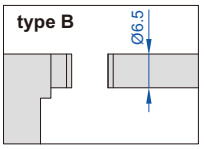




(mm)

Code	Range	Type	Accuracy	L	a	b
3263-15A	0-15mm	A	4μm	22	8	50
3263-25A	0-25mm	A	4μm	32	8	50
3263-50A	0-50mm	A	5μm	57	12	100
3263-15B	0-15mm	B	4μm	22	8	50
3263-25B	0-25mm	B	4μm	32	8	50
3263-50B	0-50mm	B	5μm	57	12	100





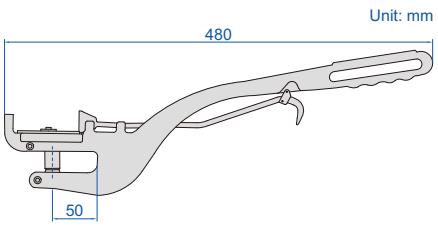
MICROMETERS FOR HOT PLATE

- Measure thickness of hot rolling sheet metal
- Carbide measuring faces
- Supplied with setting standard (except 0-15mm)

VIDEO



3264-15



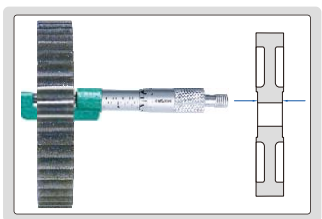
Code	Range	Graduation	Accuracy
3264-15	0-15mm	0.05mm	0.05mm
3264-30	15-30mm	0.05mm	0.05mm
3264-45	30-45mm	0.05mm	0.05mm
3264-60	45-60mm	0.05mm	0.05mm
3264-75	60-75mm	0.05mm	0.05mm
3264-90	75-90mm	0.05mm	0.05mm
3264-105	90-105mm	0.05mm	0.05mm

HUB MICROMETERS

- Meet DIN863-3
- Measure hub thickness and shoulder inside a bore
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

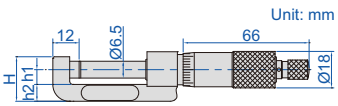


3292-25



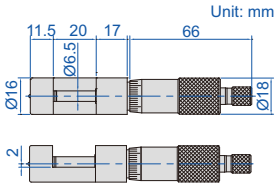
(mm)

Code	Range	Accuracy	h1	h2	H
3292-25	0-25mm	4μm	6	9	18.7
3292-50	25-50mm	4μm	6.5	11	21.2
3292-75	50-75mm	5μm	6.5	11	21.2
3292-100	75-100mm	5μm	6.5	11	21.2



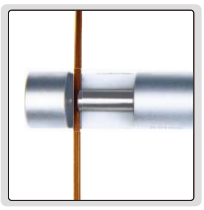
WIRE MICROMETER

- Meet DIN863-3
- Measure diameter of wires and small balls
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces





3285-10



Code	Range	Accuracy
3285-10	0-10mm	4μm

CAN SEAM MICROMETERS



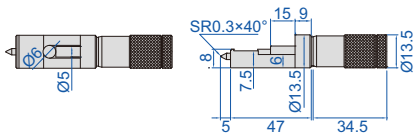
3293-131



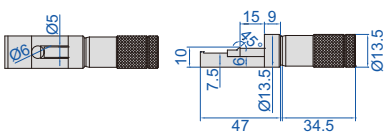
3293-132



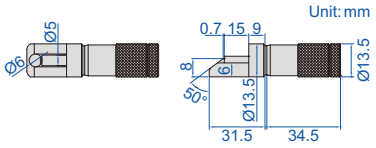
3293-133



3293-131



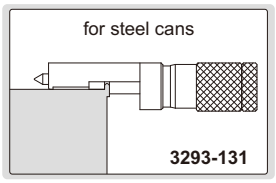
3293-132

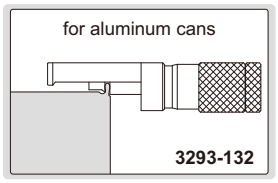


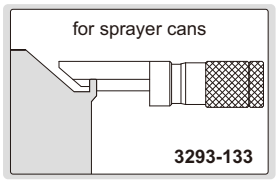
3293-133

- Measure the width, height and depth of can seams
- Graduation 0.01mm

Code	Range	Accuracy
3293-131	0-13mm	4μm
3293-132	0-13mm	4μm
3293-133	0-13mm	4μm







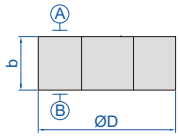
OPTICAL PARALLELS

- Check the flatness and parallelism of measuring faces of micrometer
- Flatness of A and B: 0.1μm
- Parallelism between A and B: 0.6μm



4184-41A

Code	Parallels included (b)	ØD	Applicable micrometer
4184-41A	15.62mm, 15.75mm, 15.87mm, 16.00mm	30mm	0-25mm
4184-42A	40.62mm, 40.75mm, 40.87mm, 41.00mm	30mm	25-50mm
4184-43B	65.62mm, 65.75mm, 65.87mm, 66.00mm	40mm	50-75mm
4184-44B	90.62mm, 90.75mm, 90.87mm, 91.00mm	50mm	75-100mm



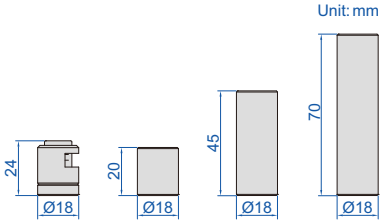
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MICROMETER MEASURING FORCE DETECTOR

- For outside micrometers 0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3" and 75-100mm/3-4"



6315



Code	Measuring force
6315	5-12N

REFER TO PAGE 290~291 FOR DETAILS

MICROMETER INSPECTION GAGE BLOCK SETS



4107-10



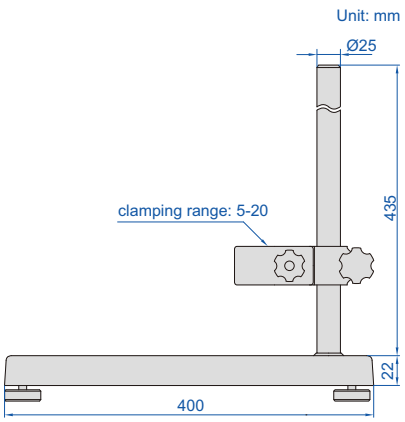
4160-10

MICROMETER STAND





6302



Code
6302

- Suitable for 100-300mm outside micrometers (except **3675** series)

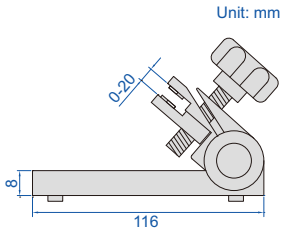
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MICROMETER STAND

- Suitable for outside micrometers up to 100mm



6300



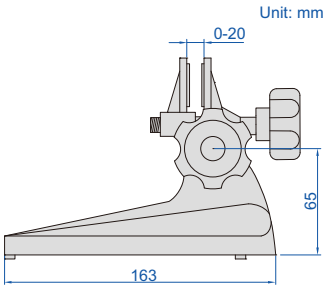


Code
6300

MICROMETER STAND

- Suitable for outside micrometers up to 100mm





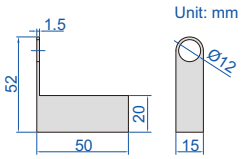


6301

Code
6301

- Suitable for inside micrometers





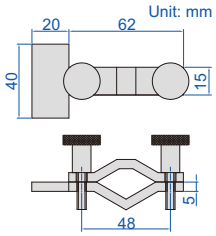


Code	Description	Applicable products
6301-1	clamp for inside micrometers	all sizes of **3220** series

6301-1

- Suitable for three points internal micrometers







Code	Description	Applicable products
6301-2	clamp for three points internal micrometers	up to 100mm of **3127** and **3227** series

6301-2

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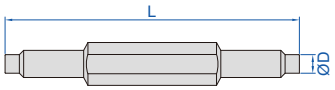
MICROMETER SETTING STANDARDS

INSIZE PLUS
MADE IN EUROPE

- Suitable for outside micrometers



7386-100



Code	Length (L)	Accuracy	ØD
7386-25	25mm	±1.25µm	6.5mm
7386-50	50mm	± 1.25µm	6.5mm
7386-75	75mm	± 1.5µm	6.5mm
7386-100	100mm	± 2µm	6.5mm
7386-125	125mm	± 2.5µm	6.5mm
7386-150	150mm	± 2.5µm	6.5mm
7386-175	175mm	± 2.5µm	6.5mm
7386-200	200mm	± 3µm	6.5mm
7386-225	225mm	± 3µm	6.5mm
7386-250	250mm	± 3µm	6.5mm
7386-275	275mm	±3µm	6.5mm
7386-300	300mm	±3µm	10mm
7386-325	325mm	±3.5µm	10mm
7386-350	350mm	±3.5µm	10mm
7386-375	375mm	±3.5µm	10mm
7386-400	400mm	±3.5µm	10mm

Code	Length (L)	Accuracy	ØD
7386-425	425mm	±3.5µm	10mm
7386-450	450mm	±3.5µm	10mm
7386-475	475mm	±3.5µm	10mm
7386-500	500mm	±3.5µm	10mm
7386-525	525mm	±3.5µm	10mm
7386-550	550mm	±3.5µm	10mm
7386-575	575mm	±3.5µm	10mm
7386-600	600mm	±3.5µm	10mm
7386-625	625mm	±4µm	10mm
7386-650	650mm	±4µm	10mm
7386-675	675mm	±4µm	10mm
7386-700	700mm	±4µm	10mm
7386-725	725mm	±4µm	10mm
7386-750	750mm	±4µm	10mm
7386-775	775mm	±4µm	10mm
7386-800	800mm	±4µm	10mm
7386-825	825mm	±4µm	10mm

Code	Length (L)	Accuracy	ØD
7386-850	850mm	±4µm	10mm
7386-875	875mm	±4µm	10mm
7386-900	900mm	±5µm	10mm
7386-925	925mm	±5µm	10mm
7386-950	950mm	±5µm	10mm
7386-975	975mm	±5µm	10mm
7386-1000	1000mm	±5µm	10mm
7386-1050	1050mm	±5µm	10mm
7386-1150	1150mm	±6µm	10mm
7386-1250	1250mm	±7µm	10mm
7386-1350	1350mm	±7µm	10mm
7386-1450	1450mm	±7µm	10mm
7386-1550	1550mm	±9µm	10mm
7386-1650	1650mm	±10µm	10mm
7386-1750	1750mm	±10µm	10mm
7386-1850	1850mm	±11µm	10mm
7386-1950	1950mm	±12µm	10mm

MICROMETER SETTING STANDARDS



6310-100

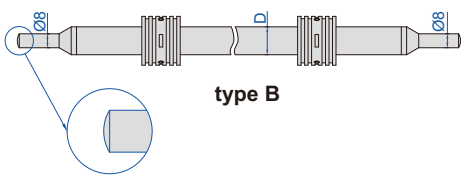


type A



6310-300

Unit: mm



type B

(mm)

Code	Length	Type	Accuracy	D
6310-25	25	A	±1.5µm	Ø7
6310-50	50	A	±2µm	Ø7
6310-75	75	A	±2.5µm	Ø7
6310-100	100	A	±3µm	Ø8
6310-125	125	A	±3.5µm	Ø8
6310-150	150	A	±4µm	Ø8
6310-175	175	A	±4.5µm	Ø8
6310-200	200	A	±5µm	Ø8
6310-225	225	A	±5.5µm	Ø8
6310-250	250	A	±6µm	Ø8
6310-275	275	A	±6.5µm	Ø8
6310-300	300	B	±7µm	Ø16
6310-325	325	B	±7.5µm	Ø16
6310-350	350	B	±8µm	Ø16
6310-375	375	B	±8.5µm	Ø16

(mm)

Code	Length	Type	Accuracy	D
6310-400	400	B	±9µm	Ø16
6310-425	425	B	±9.5µm	Ø16
6310-450	450	B	±10µm	Ø16
6310-475	475	B	±10.5µm	Ø16
6310-500	500	B	±11µm	Ø16
6310-525	525	B	±11.5µm	Ø16
6310-575	575	B	±12.5µm	Ø16
6310-625	625	B	±13.5µm	Ø16
6310-675	675	B	±14.5µm	Ø16
6310-725	725	B	±15.5µm	Ø16
6310-775	775	B	±16.5µm	Ø16
6310-825	825	B	±17.5µm	Ø16
6310-875	875	B	±18.5µm	Ø16
6310-925	925	B	±19.5µm	Ø16
6310-975	975	B	±20.5µm	Ø16

(mm)

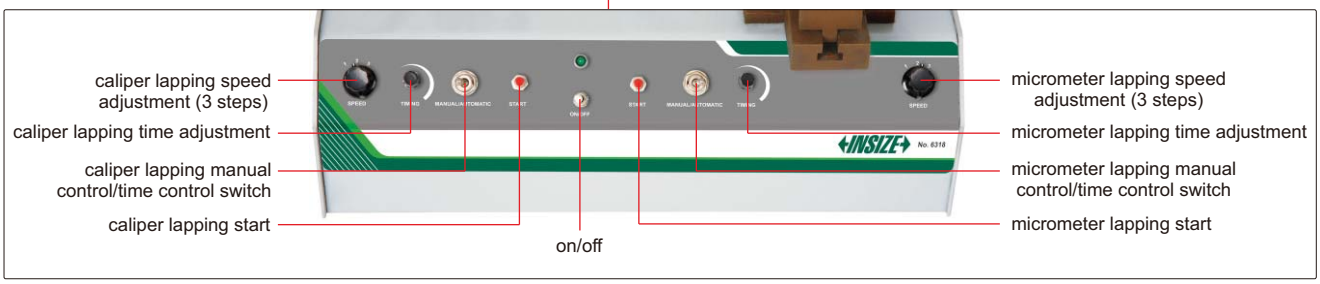
Code	Length	Type	Accuracy	D
6310-1050	1050	B	±22µm	Ø23
6310-1150	1150	B	±24µm	Ø23
6310-1250	1250	B	±26µm	Ø23
6310-1350	1350	B	±28µm	Ø23
6310-1450	1450	B	±30µm	Ø23
6310-1550	1550	B	±32µm	Ø23
6310-1650	1650	B	±34µm	Ø23
6310-1750	1750	B	±36µm	Ø23
6310-1850	1850	B	±38µm	Ø23
6310-1950	1950	B	±40µm	Ø23

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CALIPER/MICROMETER LAPPING MACHINE
CODE 6318

VIDEO

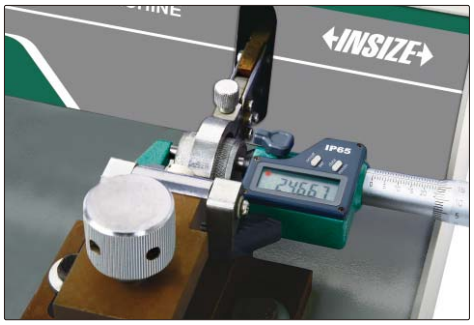




lapping measuring surfaces of caliper lower jaws



lapping measuring surfaces of outside micrometer



- For lapping measuring surfaces of caliper lower jaws and outside micrometers
- Suitable for 0-300mm range calipers and 0-100mm range outside micrometers
- Supplied with lapping block and diamond paste for calipers
- Lapping blocks for micrometers are optional, diamond paste is included
- Optional accessory: micrometer lapping blocks

caliper lapping block (included)



micrometer lapping blocks (code: **6307-1**, **optional**)



SPECIFICATION

Power supply	220V, 50/60Hz
Dimension (L×W×H)	430×400×210mm
Weight	28kg

MICROMETER LAPPING BLOCKS (optional)

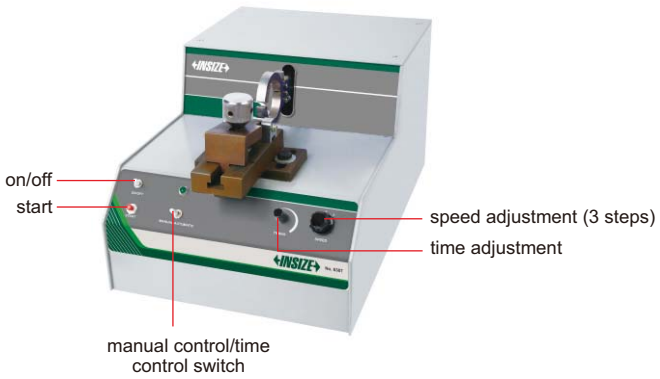
Code	For micrometer	Remark
6307-1	0~25mm	includes 4 lapping blocks
6307-2	25~50mm	includes 4 lapping blocks
6307-3	50~75mm	includes 4 lapping blocks
6307-4	75~100mm	includes 4 lapping blocks

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VIDEO

MICROMETER LAPPING MACHINE CODE 6307

- Used for lapping micrometer measuring surfaces
- Suitable for 0~100mm outside micrometers
- Supplied with diamond paste
- Optional accessory: micrometer lapping blocks



SPECIFICATION

Power supply	220V, 50/60HZ
Dimension (L×W×H)	360×230×210mm
Weight	15kg

MICROMETER LAPPING BLOCKS (optional)

Code	For micrometer	Remark
6307-1	0~25mm	includes 4 lapping blocks
6307-2	25~50mm	includes 4 lapping blocks
6307-3	50~75mm	includes 4 lapping blocks
6307-4	75~100mm	includes 4 lapping blocks

micrometer lapping blocks (code: **6307-1**, **optional**)



IP65 WATERPROOF

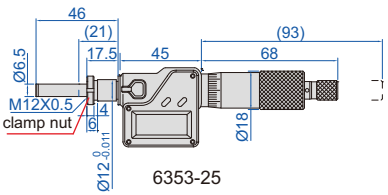
DATA OUTPUT

DIGITAL MICROMETER HEADS

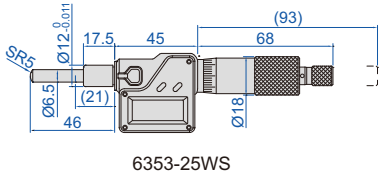
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output, automatic power off
- Ratchet stop
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)



6353-25W

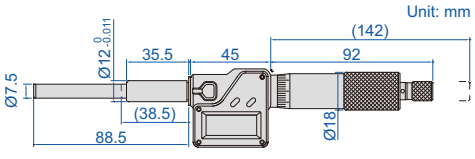


6353-25

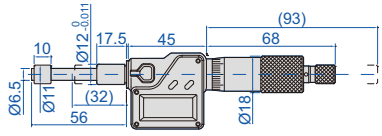


6353-25WS

Unit: mm



6353-50W



6354-25W

Rotating spindle

Code	Range	Stem	Spindle tip	Accuracy
6353-25	0-25mm/0-1"	with clamp nut	flat (carbide)	±2μm
6353-25W	0-25mm/0-1"	plain	flat (carbide)	±2μm
6353-25S	0-25mm/0-1"	with clamp nut	spherical (SR5)	±2μm
6353-25WS	0-25mm/0-1"	plain	spherical (SR5)	±2μm
6353-50W	0-50mm/0-2"	plain	flat (carbide)	±4μm

Non-rotating spindle

Code	Range	Stem	Spindle tip	Accuracy
6354-25W	0-25mm/0-1"	plain	flat	±2μm

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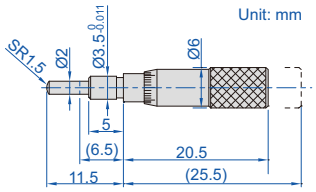
SMALL MICROMETER HEAD

- Graduation 0.02mm

Code	Range	Stem	Spindle tip	Accuracy
6372-5WS	0-5mm	plain	spherical (SR1.5)	5μm



6372-5WS



6

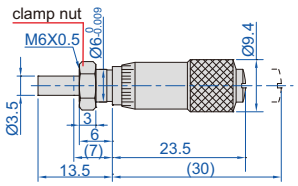
SMALL MICROMETER HEADS

- Range 0-6.5mm
- Graduation 0.01mm
- Accuracy 5μm

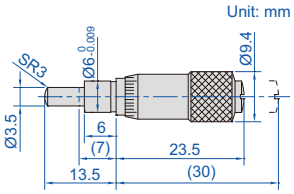


6385-65W

Code	Stem	Spindle tip
6385-65	with clamp nut	flat
6385-65W	plain	flat
6385-65S	with clamp nut	spherical (SR3)
6385-65WS	plain	spherical (SR3)



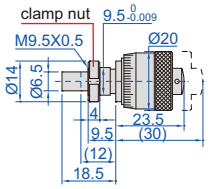
6385-65



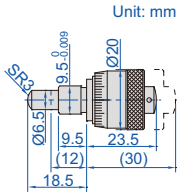
6385-65WS

LARGE THIMBLE MICROMETER HEADS

- Meet DIN863-2
- Large thimble diameter for easy reading
- Graduation 0.01mm
- Accuracy 3μm



6373-65

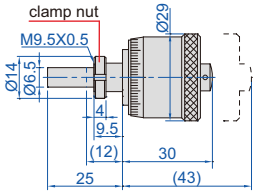


6373-65WS

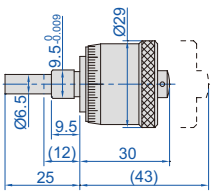


6373-65

Code	Range	Stem	Spindle tip
6373-65	0-6.5mm	with clamp nut	flat
6373-65W	0-6.5mm	plain	flat
6373-65S	0-6.5mm	with clamp nut	spherical (SR3)
6373-65WS	0-6.5mm	plain	spherical (SR3)
6373-13	0-13mm	with clamp nut	flat
6373-13W	0-13mm	plain	flat



6373-13



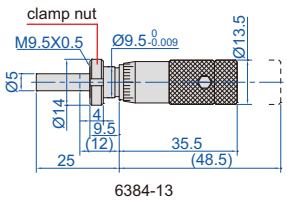
6373-13W



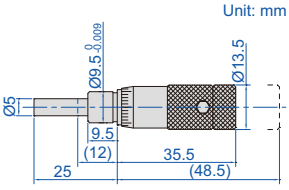
6373-13

MICROMETER HEADS WITH ZERO ADJUSTABLE THIMBLE

- Meet DIN863-2
- Range 0-13mm
- Graduation 0.01mm
- Accuracy 3μm
- The thimble can be set to zero at any position



6384-13



6384-13W

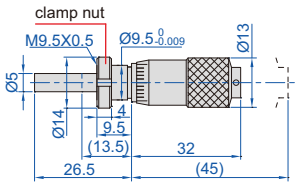


6384-13W

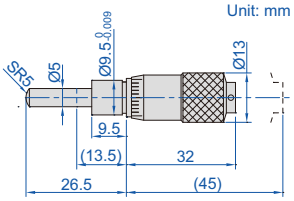
Code	Stem	Spindle tip
6384-13	with clamp nut	flat
6384-13W	plain	flat

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MICROMETER HEADS



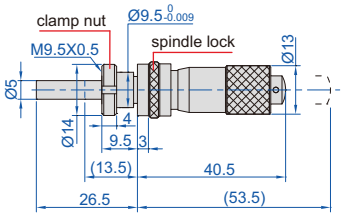
6386-13



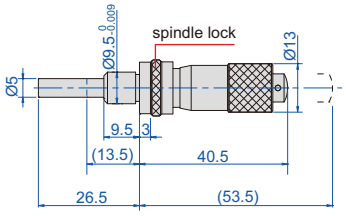
6386-13WS



6386-13W



6386-13P



6386-13WP



6386-13P

Code	Range	Stem	Spindle tip	Remark	Accuracy
6386-13	0-13mm	with clamp nut	flat		3μm
6386-13W	0-13mm	plain	flat		3μm
6386-13S	0-13mm	with clamp nut	spherical (SR5)		3μm
6386-13WS	0-13mm	plain	spherical (SR5)		3μm
6386-13P	0-13mm	with clamp nut	flat	with spindle lock	3μm
6386-13WP	0-13mm	plain	flat	with spindle lock	3μm

- Meet DIN863-2
- Graduation 0.01mm

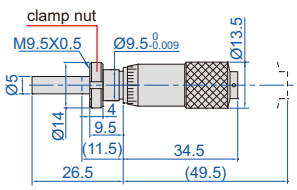
MICROMETER HEADS

- Meet DIN863-2
- Graduation 0.01mm
- Accuracy 3μm

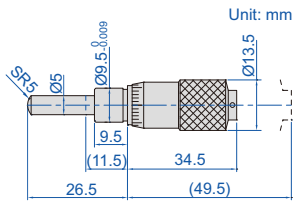


6387-15WS

Code	Range	Stem	Spindle tip
6387-15	0-15mm	with clamp nut	flat
6387-15W	0-15mm	plain	flat
6387-15S	0-15mm	with clamp nut	spherical (SR5)
6387-15WS	0-15mm	plain	spherical (SR5)



6387-15



6387-15WS

MICROMETER HEADS

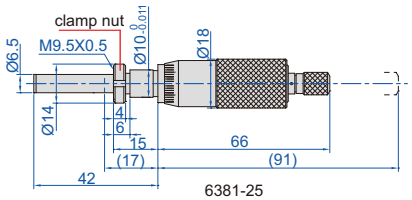
- Meet DIN863-2
- Graduation 0.01mm
- Ratchet stop



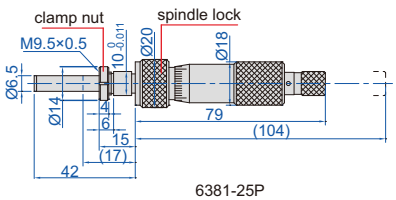
6381-25



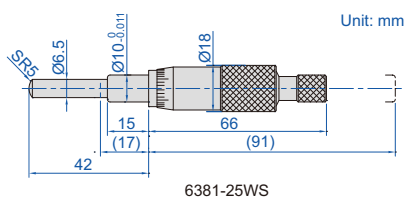
6381-25P



6381-25

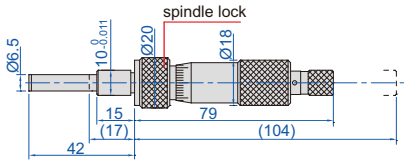


6381-25P



6381-25WS

Code	Range	Stem	Spindle tip	Remark	Accuracy
6381-25	0-25mm	with clamp nut	flat (carbide)		3μm
6381-25W	0-25mm	plain	flat (carbide)		3μm
6381-25S	0-25mm	with clamp nut	spherical (SR5)		3μm
6381-25WS	0-25mm	plain	spherical (SR5)		3μm
6381-25P	0-25mm	with clamp nut	flat (carbide)	with spindle lock	3μm
6381-25WP	0-25mm	plain	flat (carbide)	with spindle lock	3μm



6381-25WP

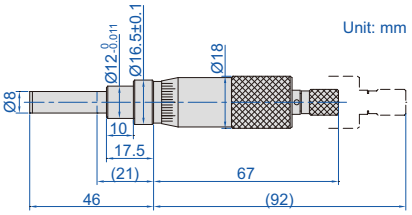
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NON-ROTATING SPINDLE MICROMETER HEAD

- Meet DIN863-2
- Graduation 0.01mm
- Ratchet stop
- Non-rotating spindle



6377-25W

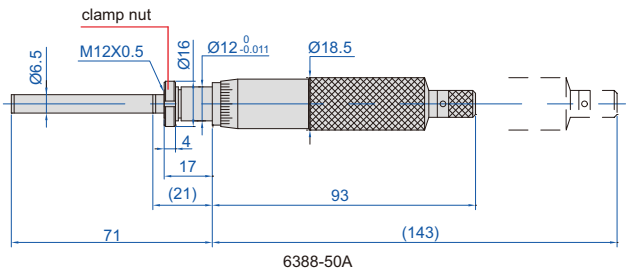


Code	Range	Stem	Spindle tip	Accuracy
6377-25W	0-25mm	plain	flat (carbide)	3μm

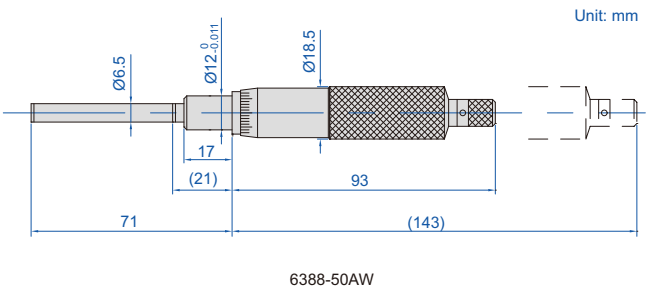
LARGE MICROMETER HEADS



6388-50AW



6388-50A



6388-50AW

Code	Range	Stem	Spindle tip	Accuracy
6388-50A	0-50mm	with clamp nut	flat (carbide)	5μm
6388-50AW	0-50mm	plain	flat (carbide)	5μm

- Graduation 0.01mm
- Ratchet stop

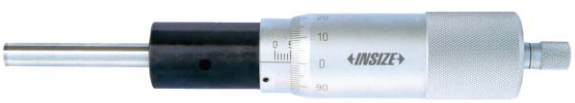
QUICK SPINDLE FEEDING MICROMETER HEADS



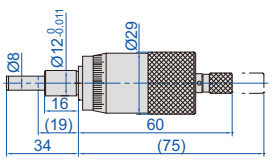
6375-15W



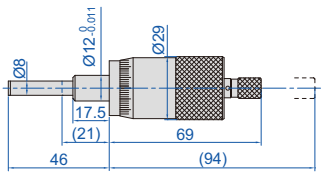
6375-25W



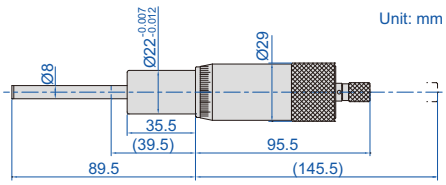
6375-50W



6375-15W



6375-25W



6375-50W

Code	Range	Stem	Spindle tip	Accuracy
6375-15W	0-15mm	plain	flat (carbide)	3μm
6375-25W	0-25mm	plain	flat (carbide)	3μm
6375-50W	0-50mm	plain	flat (carbide)	5μm

- Micrometers up to 25mm meet DIN863-2
- Graduation 0.01mm
- Quick spindle feed of 1mm/rev.
- Ratchet stop

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BORE DIAMETER, CIRCUMFERENCE MEASUREMENT

07



Inside Micrometers
Page 158-159



Inside Micrometers
Page 159-166



Three Points Internal Micrometers
Page 167-170



Pistol Grip Three Points Bore Gages
Page 171



Bore Plug Gages
Page 172-173



Bore Gages
Page 174-179



Bore Gage Setters
Page 180-181



Telescoping Gage Sets
Page 181-182



Circumference Tapes
Page 182-183

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INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

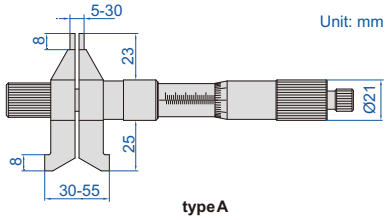
INSPECTION CERTIFICATE



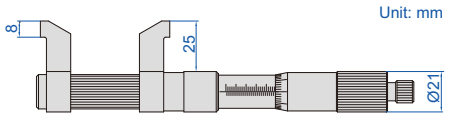
3679-55



3679-75



type A



type B

for type A, the upper jaws and lower jaws can be set zero separately



- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Optional accessory: setting ring (code **6312**), caliper/height gage checker (code **6884**)

Code	Range	Type	Accuracy
3679-55 *	5-55mm	A	4µm
3679-75 *	50-75mm	B	5µm
3679-100 *	75-100mm	B	6µm
3679-125 *	100-125mm	B	7µm
3679-150 *	125-150mm	B	8µm
3679-175 *	150-175mm	B	9µm
3679-200 *	175-200mm	B	9µm
3679-225 *	200-225mm	B	10µm
3679-250 *	225-250mm	B	10µm
3679-275 *	250-275mm	B	12µm
3679-300 *	275-300mm	B	12µm

*Supplied with manufacturer inspection certificate

Code	Range	Type	Accuracy
3679-325 *	300-325mm	B	15µm
3679-350 *	325-350mm	B	15µm
3679-375 *	350-375mm	B	16µm
3679-400 *	375-400mm	B	16µm
3679-425 *	400-425mm	B	17µm
3679-450 *	425-450mm	B	17µm
3679-475 *	450-475mm	B	18µm
3679-500 *	475-500mm	B	18µm
3679-525 *	500-525mm	B	19µm
3679-550 *	525-550mm	B	19µm
3679-575 *	550-575mm	B	20µm
3679-600 *	575-600mm	B	20µm

INSIDE MICROMETERS (ECONOMIC TYPE)

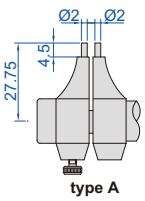
ATTENTION: LOW PARALLELISM OF TWO MEASURING FACES

micrometer stand with clamp **(optional)**



- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting ring (code **6312**), micrometer stand and clamp (code **6301** and **6301-1**)

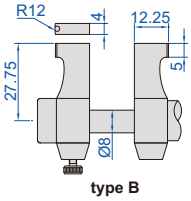
Unit: mm



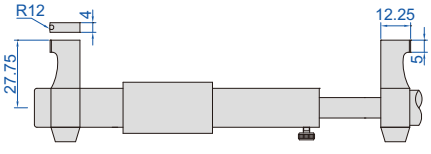
type A



3220-50



type B



type C

Code	Range	Type	Setting ring	Accuracy
3220-30	5-30mm	A	5mm (included)	7µm
3220-50	25-50mm	B	25mm (included)	8µm
3220-75	50-75mm	B	50mm **(optional)**	9µm
3220-100	75-100mm	C	75mm **(optional)**	10µm

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DATA OUTPUT

ATTENTION: LOW PARALLELISM OF TWO MEASURING FACES

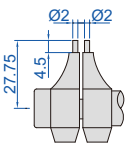
DIGITAL INSIDE MICROMETERS (ECONOMIC TYPE)

- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12), setting ring (code **6312**)

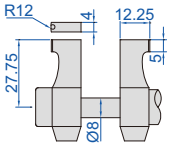


3520-30

Unit: mm

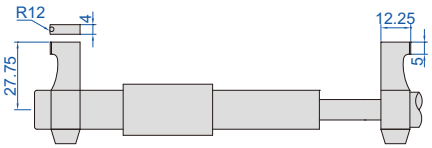


type A



type B

Code	Range	Type	Setting ring	Accuracy
3520-30	5-30mm/0.2-1.2"	A	5mm (included)	±5μm
3520-50	25-50mm/1-2"	B	25mm (included)	±6μm
3520-75	50-75mm/2-3"	B	50mm **(optional)**	±7μm
3520-100	75-100mm/3-4"	C	75mm **(optional)**	±8μm



type C

INSPECTION CERTIFICATE

INTERNAL GEAR TOOTH MICROMETERS

INSIZE PLUS MADE IN EUROPE

- Measure over-pin diameter of gears
- Graduation: 0.01mm
- Ratchet stop
- Optional accessory: ball tips (code **7383**), cylindrical tips (code **7393**, only for micrometers with L=8mm)

before ball tips are installed

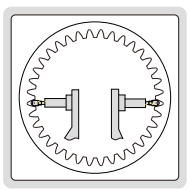
ball tips are optional



3678-50

cylindrical tips (**optional**) (only for micrometers with L=8mm)

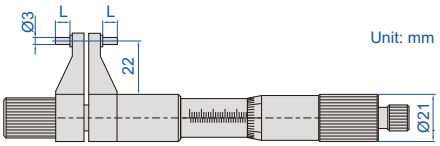




Code	Range	Accuracy	L
3678-50*	25-50mm	4μm	6mm
3678-75*	50-75mm	5μm	8mm

*Supplied with manufacturer inspection certificate

Unit: mm



TUBULAR INSIDE MICROMETERS

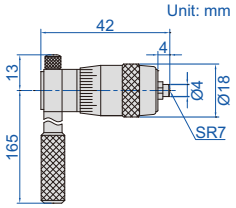
- Graduation 0.01mm
- Accuracy: (6+L/50)μm
  L=maximum measuring length (mm)
- Optional accessory: setting ring (code **6312**), gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)



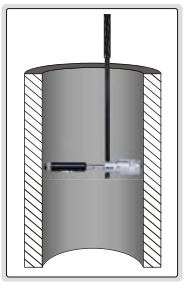
3221-200

Code	Range	Travel of micrometer head	Extension rods
3221-32	25-32mm	7mm	—
3221-50	25-50mm	7mm	2 pcs
3221-63	50-63mm	13mm	—
3221-200	50-200mm	13mm	6 pcs
3221-300	50-300mm	13mm	10 pcs
3221-225	200-225mm	25mm	—
3221-500	200-500mm	25mm	3 pcs
3221-1000	200-1000mm	25mm	8 pcs

Unit: mm



application



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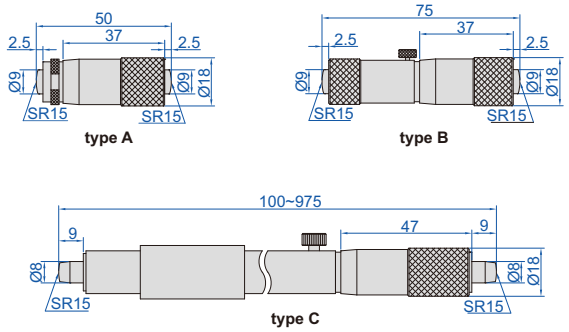
TUBULAR INSIDE MICROMETERS

- Micrometers up to 500mm meet DIN863-4
- Graduation 0.01mm
- Carbide measuring faces
- Optional accessory: gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)



3229-225

Unit: mm



Code	Range	Type	Accuracy
3229-75	50-75mm	A	5μm
3229-100	75-100mm	B	5μm
3229-125	100-125mm	C	6μm
3229-150	125-150mm	C	6μm
3229-175	150-175mm	C	7μm
3229-200	175-200mm	C	7μm
3229-225	200-225mm	C	8μm
3229-250	225-250mm	C	8μm
3229-275	250-275mm	C	9μm
3229-300	275-300mm	C	9μm
3229-325	300-325mm	C	9μm
3229-350	325-350mm	C	9μm
3229-375	350-375mm	C	10μm
3229-400	375-400mm	C	10μm
3229-425	400-425mm	C	10μm
3229-450	425-450mm	C	10μm
3229-475	450-475mm	C	11μm
3229-500	475-500mm	C	11μm
3229-525	500-525mm	C	11μm
3229-550	525-550mm	C	11μm
3229-575	550-575mm	C	11μm
3229-600	575-600mm	C	12μm
3229-625	600-625mm	C	12μm
3229-650	625-650mm	C	12μm
3229-675	650-675mm	C	13μm
3229-700	675-700mm	C	13μm

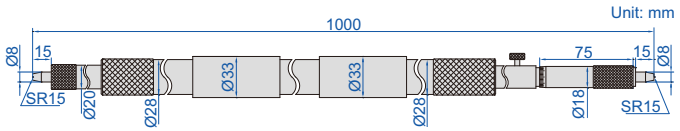
Code	Range	Type	Accuracy
3229-725	700-725mm	C	13μm
3229-750	725-750mm	C	14μm
3229-775	750-775mm	C	14μm
3229-800	775-800mm	C	14μm
3229-825	800-825mm	C	15μm
3229-850	825-850mm	C	15μm
3229-875	850-875mm	C	15μm
3229-900	875-900mm	C	16μm
3229-925	900-925mm	C	16μm
3229-950	925-950mm	C	16μm
3229-975	950-975mm	C	17μm
3229-1000	975-1000mm	C	17μm

TUBULAR INSIDE MICROMETERS



3224-2000

Unit: mm



Code	Range	Extension rods
3224-2000	1000-2000mm	50mm, 100mm (2 pcs), 200mm, 500mm
3224-3000	1000-3000mm	50mm, 100mm (2 pcs), 200mm, 500mm, 1000mm
3224-4000	1000-4000mm	50mm, 100mm (2 pcs), 200mm, 500mm, 1000mm (2 pcs)
3224-5000	1000-5000mm	50mm, 100mm (2 pcs), 200mm, 500mm, 1000mm (3 pcs)

- Micrometer head: 1000-1050mm
- Graduation 0.01mm
- Accuracy: (7+n+L/50)μm
  n=number of rods
  L=maximum measuring length (mm)
- Travel of micrometer head 50mm
- Carbide measuring faces

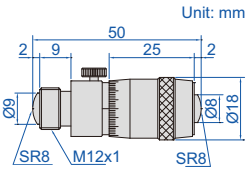
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TUBULAR INSIDE MICROMETERS

- Micrometer head: 50-63mm
- Graduation 0.01mm
- Accuracy: (3+n+L/50)µm
  n=number of rods
  L=maximum measuring length (mm)
- Supplied with setting standards
- Carbide measuring faces



3222-150



Code	Range	Travel of micrometer head	Extension rods
3222-63	50-63mm	13mm	—
3222-150	50-150mm	13mm	13mm, 25mm, 50mm
3222-300	50-300mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm
3222-500	50-500mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm, 200mm
3222-600	50-600mm	13mm	13mm, 25mm, 50mm, 100mm, 150mm, 200mm
3222-1000	50-1000mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm, 200mm (2 pcs), 300mm
3222-1500	50-1500mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm, 200mm (3 pcs), 300mm (2 pcs)

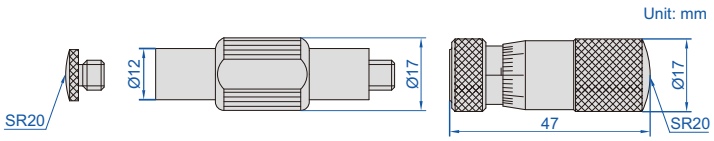
TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE



3684-100

- Micrometer head: 50-75mm
- Graduation: 0.01mm
- Carbide measuring faces



Code	Range	Accuracy	Travel of micrometer head	Extension rods
3684-75	50-75mm	5µm	25mm	—
3684-100	50-100mm	5µm	25mm	25mm
3684-150	50-150mm	6µm	25mm	25mm, 50mm
3684-250	50-250mm	8µm	25mm	25mm, 50mm, 100mm
3684-300	50-300mm	9µm	25mm	25mm, 50mm (2 pcs), 100mm
3684-350	50-350mm	10µm	25mm	25mm, 50mm, 100mm (2 pcs)
3684-450	50-450mm	10µm	25mm	25mm, 50mm, 100mm, 200mm
3684-650	50-650mm	12µm	25mm	25mm, 50mm, 100mm, 200mm (2 pcs)
3684-850	50-850mm	15µm	25mm	25mm, 50mm, 100mm, 200mm, 400mm
3684-1250	50-1250mm	20µm	25mm	25mm, 50mm, 100mm, 200mm, 400mm (2 pcs)
3684-1450	50-1450mm	22µm	25mm	25mm, 50mm, 100mm, 200mm, 400mm, 600mm

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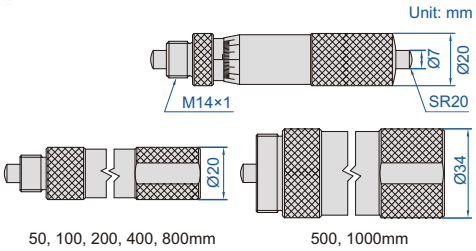
TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

heat insulation extension rods



3683-200



- Micrometer head: 100-150mm
- Graduation: 0.01mm
- Carbide measuring faces
- Heat insulation extension rods

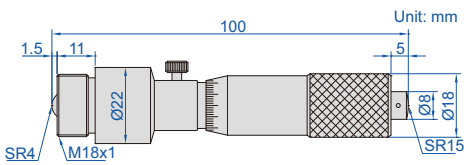
Code	Range	Accuracy	Travel of micrometer head	Heat insulation extension rods
3683-150	100-150mm	6μm	50mm	—
3683-200	100-200mm	7μm	50mm	50mm
3683-300	100-300mm	9μm	50mm	50mm, 100mm
3683-500	100-500mm	13μm	50mm	50mm, 100mm, 200mm
3683-900	100-900mm	16μm	50mm	50mm, 100mm, 200mm, 400mm
3683-1300	100-1300mm	22μm	50mm	50mm, 100mm, 200mm, 400mm (2 pcs)
3683-1700	100-1700mm	27μm	50mm	50mm, 100mm, 200mm, 400mm, 800mm
3683-2000	100-2000mm	32μm	50mm	50mm, 100mm, 200mm (2 pcs), 500mm, 1000mm
3683-2100	100-2100mm	32μm	50mm	50mm, 100mm, 200mm, 400mm (2 pcs), 800mm
3683-2500	100-2500mm	40μm	50mm	50mm, 100mm, 200mm, 400mm, 800mm (2 pcs)
3683-3000	100-3000mm	50μm	50mm	50mm, 100mm, 200mm (2 pcs), 500mm, 1000mm (2 pcs)
3683-4000	100-4000mm	60μm	50mm	50mm, 100mm, 200mm (2 pcs), 500mm, 1000mm (3 pcs)
3683-5000	100-5000mm	72μm	50mm	50mm, 100mm, 200mm (2 pcs), 500mm, 1000mm (4 pcs)
3683-6000	100-6000mm	90μm	50mm	50mm, 100mm, 200mm (2 pcs), 500mm, 1000mm (5 pcs)

TUBULAR INSIDE MICROMETERS

- Micrometer head: 100-125mm
- Graduation 0.01mm
- Accuracy: (3+n+L/50)μm
  n=number of rods
  L=maximum measuring length (mm)
- Travel of micrometer head 25mm
- Supplied with setting standards
- Carbide measuring faces



3225-500



Code	Range	Extension rods
3225-125	100-125mm	—
3225-500	100-500mm	25mm, 50mm, 100mm, 200mm
3225-900	100-900mm	25mm, 50mm, 100mm, 200mm, 400mm
3225-1300	100-1300mm	25mm, 50mm, 100mm, 200mm, 400mm (2 pcs)
3225-1700	100-1700mm	25mm, 50mm, 100mm, 200mm, 400mm (3 pcs)
3225-2100	100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs)

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IP65 WATERPROOF

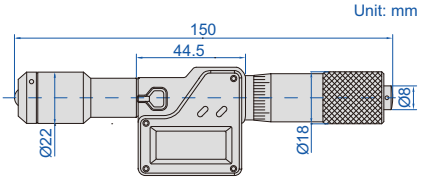
DATA OUTPUT

DIGITAL TUBULAR INSIDE MICROMETERS



- Micrometer head: 150-175mm
- Graduation: 0.001mm/0.00005"
- Accuracy: (3+n+L/50)µm
  n=number of rods
  L=maximum measuring length (mm)
- Carbide measuring faces
- The diameter of extension rods is 22mm
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Supplied with setting standards
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12)

Unit: mm



3521-1000

Code	Range	Travel of micrometer head	Extension rods
3521-175	150-175mm	25mm	—
3521-1000	150-1000mm	25mm	25mm, 50mm (2 pcs), 100mm, 200mm, 400mm
3521-1500	150-1500mm	25mm	25mm, 50mm (2 pcs), 100mm (2 pcs), 200mm, 400mm (2 pcs)
3521-2000	150-2000mm	25mm	25mm, 50mm (2 pcs), 100mm, 200mm (2 pcs), 400mm (3 pcs)

TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE



- Carbide measuring faces for micrometer head and extension rods
- Points of extension rods are spring loaded
- Optional accessory:
  gage block accessory (code **6881**),
  cylinder gage block (code **4001**),
  caliper/height gage checker (code **6884**)

3634-1300

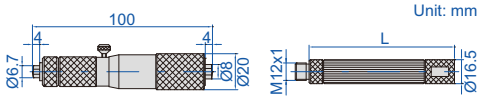
Micrometer head

Range	Graduation	Accuracy	Weight
100-125mm	0.01mm	±4µm	154g

Extension rods

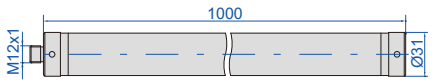
Length (L)	Accuracy	Weight	Material
25mm	±1.25µm	37g	steel
50mm	±1.25µm	65g	steel
100mm	±2µm	113g	steel
200mm	±3.5µm	208g	steel
400mm	±4.5µm	402g	steel
1000mm	±7.5µm	909g	carbon fiber

Unit: mm



micrometer head

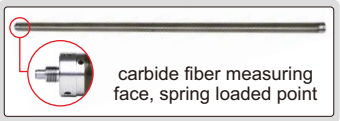
extension rods (25-400mm)



1m extension rod

Code	Range	Extension rods
3634-350	100-350mm	25mm, 200mm
3634-500	100-500mm	25mm, 50mm, 100mm, 200mm
3634-1300	100-1300mm	25mm, 50mm, 100mm, 200mm, 400mm (2 pcs)
3634-1500	100-1500mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm (2 pcs)
3634-2100	100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs)
3634-3100	100-3100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (2 pcs)
3634-4100	100-4100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (3 pcs)
3634-5100	100-5100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (4 pcs)
3634-6100	100-6100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (5 pcs)

1m carbon fiber extension rod, light weight, no deform



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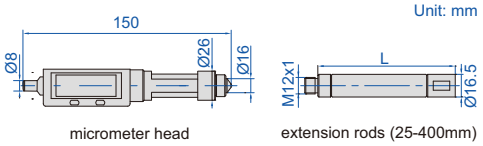
DIGITAL NON-ROTATING SPINDLE TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

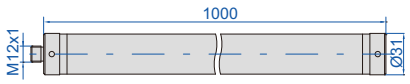
DATA OUTPUT | SPRING LOADED MEASURING POINT | NON-ROTATING SPINDLE



Unit: mm



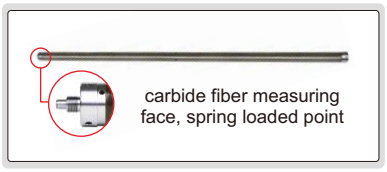
micrometer head | extension rods (25-400mm)



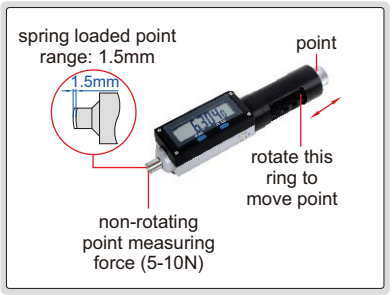
1m extension rod

- Carbide measuring faces for micrometer head and extension rods
- Points of extension rods are spring loaded
- Data output
- Button function: mm/inch, max./min. value tracking, preset value, hold, on/off, zero
- CR2032 battery, automatic power off, turn the sleeve to turn on
- Optional accessory: data output cable (code **7315-80**, **7302-80**), gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)

1m carbon fiber extension rod, light weight, no deform



non-rotating spindle, spring loaded point and max./min. value tracking make it easy to find the right measuring position



Extension rods

Length (L)	Accuracy	Weight	Material
25mm	±1.25μm	37g	steel
50mm	±1.25μm	65g	steel
100mm	±2μm	113g	steel
200mm	±3.5μm	208g	steel
400mm	±4.5μm	402g	steel
1000mm	±7.5μm	909g	carbon fiber

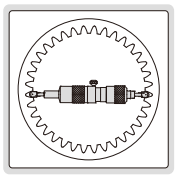
Micrometer head

Range	Resolution	Accuracy	Repeatability	Measuring force	Weight
150-180mm	0.001mm/0.00005" 0.01mm/0.0005" 0.0005mm/0.00002" (switchable)	±4μm	1μm	5-10N	275g

Code	Range	Extension rods
3635-350	150-350mm	25mm, 50mm, 100mm
3635-550	150-550mm	25mm, 50mm, 100mm, 200mm
3635-950	150-950mm	25mm, 50mm, 100mm, 200mm, 400mm
3635-1550	150-1550mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm (2 pcs)
3635-2150	150-2150mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs)
3635-3150	150-3150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (2 pcs)
3635-4150	150-4150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (3 pcs)
3635-5150	150-5150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (4 pcs)
3635-6150	150-6150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (5 pcs)

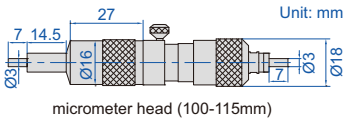
INTERNAL GEAR TOOTH MICROMETERS

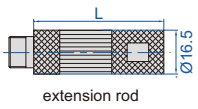
INSIZE PLUS
MADE IN EUROPE





3638-200





- Measure over-pin diameter of gears
- Points of extension rods are spring loaded
- Optional accessory: ball tips (code **7383**)

Micrometer head

Range	Graduation	Accuracy
100-115mm	0.01mm	±4μm
150-175mm	0.01mm	±4μm

Extension rod

Length (L)	Accuracy
15mm	±1μm
25mm	±1.25μm
30mm	±1.25μm
50mm	±1.25μm
100mm	±2μm
200mm	±3.5μm
400mm	±4.5μm

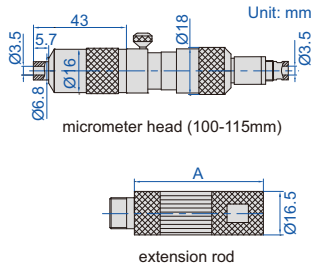
Code	Range	Micrometer head	Extension rod (L)
3638-200	100-205mm	100-115mm	15mm, 25mm, 50mm
3638-500	100-505mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm
3638-900	100-905mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm, 400mm
3638-1100	150-1150mm	150-175mm	25mm, 50mm, 100mm, 200mm, 200mm, 400mm

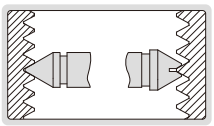
INTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE



3641-200





- Measure pitch diameter of screw thread
- Points of extension rods are spring loaded
- Optional accessory: measuring tips for internal screw thread micrometer (code **7385**, L=13.5mm)

Micrometer head

Range	Graduation	Accuracy
100-115mm	0.01mm	±4μm
150-175mm	0.01mm	±4μm

Extension rod

Length (A)	Accuracy
15mm	±1μm
25mm	±1.25μm
50mm	±1.25μm
100mm	±2μm
200mm	±3.5μm
400mm	±4.5μm

Code	Range	Micrometer head	Extension rod (A)	Applicable tips
3641-200	100-205mm	100-115mm	15mm, 25mm, 50mm	stem length L=13.5mm
3641-500	100-505mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm	stem length L=13.5mm
3641-900	100-905mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm, 400mm	stem length L=13.5mm
3641-1100	150-1150mm	150-175mm	25mm, 50mm, 100mm, 200mm, 200mm, 400mm	stem length L=13.5mm

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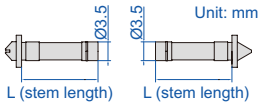
MEASURING TIPS FOR INTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

TIPS FOR TRAPEZOIDAL, ACME THREAD ARE ALSO AVAILABLE

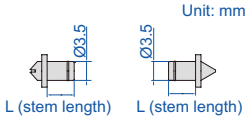
- Supplied in pair
- Made of hardened steel
- Suitable for **3641** series micrometers





7385-T106A





7385-T106B

7

60° thread angle

Code		Applicable pitch (mm)
L=13.5mm	L=5mm	
7385-T101A	7385-T101B	0.35
7385-T102A	7385-T102B	0.4/0.45
7385-T103A	7385-T103B	0.5/0.6
7385-T104A	7385-T104B	0.7/0.75/0.8
7385-T105A	7385-T105B	1/1.25
7385-T106A	7385-T106B	1.5/1.75
7385-T107A	7385-T107B	2.0/2.5
7385-T108A	7385-T108B	3.0/3.5
7385-T109A	7385-T109B	4.0/4.5/5.0
7385-T110A	7385-T110B	5.5/6.0

55° thread angle

Code		Applicable pitch (TPI)
L=13.5mm	L=5mm	
7385-T201A	7385-T201B	60/48
7385-T202A	7385-T202B	40/32
7385-T203A	7385-T203B	28/26/24/22
7385-T204A	7385-T204B	20/19/18/16
7385-T205A	7385-T205B	14/12/11
7385-T206A	7385-T206B	10/9/8
7385-T207A	7385-T207B	7/6
7385-T208A	7385-T208B	5/4.5/4
7385-T209A	7385-T209B	3.5/3.25/3/2.875/2.75
7385-T210A	7385-T210B	2.625/2.5/2

INTERNAL SCREW THREAD MICROMETERS

- Graduation: 0.01mm
- Optional accessory: measuring tips for internal screw thread micrometer (code **7321**)

Code	Range
3226-1001	75-100mm
3226-1251	100-125mm
3226-1501	125-150mm
3226-1751	150-175mm
3226-2001	175-200mm

Code	Range
3226-2251	200-225mm
3226-2501	225-250mm
3226-2751	250-275mm
3226-3001	275-300mm



measuring tips for screw thread (optional)

measuring tips for screw thread (optional)

3226-1001

measuring tips for internal screw thread micrometer (**optional**)



MEASURING TIPS FOR INTERNAL SCREW THREAD MICROMETERS

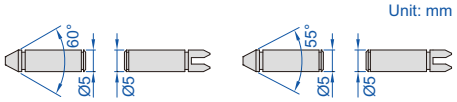
- Supplied in pair
- Suitable for **3226** series micrometers

Metric and unified screw (60° thread angle)

Code	Pitch
7321-T11	0.4-0.5mm/64-48TPI
7321-T12	0.6-0.9mm/44-28TPI
7321-T13	1-1.75mm/24-14TPI
7321-T14	2-3mm/13-9TPI
7321-T15	3.5-5mm/8-5TPI
7321-T16	5.5-7mm /4.5-3.5TPI
7321-T1S	6 pairs/set, including all above tips



7321-T1S



60° thread angle

55° thread angle

Whitworth screw (55° thread angle)

Code	Pitch
7321-T21	60-48TPI
7321-T22	48-40TPI
7321-T23	40-32TPI
7321-T24	32-24TPI
7321-T25	24-18TPI
7321-T26	18-14TPI
7321-T27	14-10TPI
7321-T28	10-7TPI
7321-T29	7-4.5TPI
7321-T210	4.5-3.5TPI
7321-T2S	10 pairs/set, including all above tips

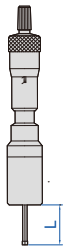
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INSPECTION CERTIFICATE

TWO POINTS/THREE POINTS INTERNAL MICROMETERS



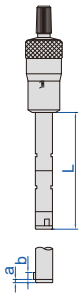
3227-6



type A
2-6mm, carbide measuring points two points



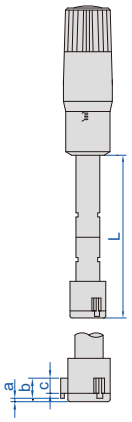
3227-8



type B
6-12mm, steel measuring points three points



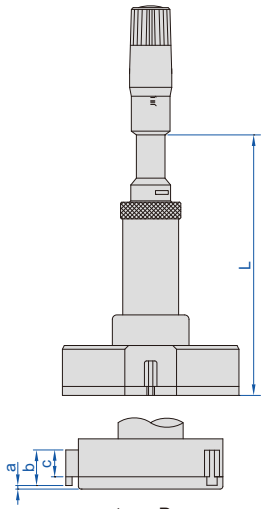
3227-16



type C
12-50mm, carbide measuring points three points



3227-125



type D
50-300mm, carbide measuring points three points

- Meet DIN863-4
- 2-12mm: graduation 0.001mm
  12-300mm: graduation 0.005mm
- Ratchet stop
- Optional accessory: setting rings (code **6312**), micrometer stand and clamp (code **6301** and **6301-2**)

Individual **(mm)**

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3227-2 *	2-2.5mm	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3227-3 *	2.5-3mm	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3227-4 *	3-4mm	A (two points)	6µm	Ø4 (included)	—	22	—	—	—
3227-5 *	4-5mm	A (two points)	6µm	Ø5 (included)	—	22	—	—	—
3227-6 *	5-6mm	A (two points)	6µm	Ø6 (included)	—	22	—	—	—
3227-8 *	6-8mm	B (three points)	4µm	Ø6 (included)	100	54.5	1.5	2.5	—
3227-10 *	8-10mm	B (three points)	4µm	Ø8 (included)	100	54.5	1.5	2.5	—
3227-12 *	10-12mm	B (three points)	4µm	Ø10 (included)	100	54.5	1.5	2.5	—
3227-16 *	12-16mm	C (three points)	4µm	Ø16 (included)	150	80	0.5	6	4.5
3227-20 *	16-20mm	C (three points)	4µm	Ø16 (included)	150	80	0.5	6	4.5
3227-25 *	20-25mm	C (three points)	4µm	Ø25 (included)	150	90	0.5	8	6
3227-30 *	25-30mm	C (three points)	4µm	Ø25 (included)	150	90	0.5	8	6
3227-40 *	30-40mm	C (three points)	4µm	Ø40 (included)	150	97	0.5	14	12
3227-50 *	40-50mm	C (three points)	5µm	Ø40 (included)	150	97	0.5	14	12
3227-63 *	50-63mm	D (three points)	5µm	Ø62 (included)	150	114	0.5	17.5	14.5
3227-75 *	62-75mm	D (three points)	5µm	Ø62 (included)	150	114	0.5	17.5	14.5
3227-88 *	75-88mm	D (three points)	5µm	Ø87 (included)	150	114	0.5	17.5	14.5
3227-100 *	87-100mm	D (three points)	5µm	Ø87 (included)	150	114	0.5	17.5	14.5
3227-125 *	100-125mm	D (three points)	6µm	**optional**	150	140	0.9	29	25
3227-150 *	125-150mm	D (three points)	6µm	**optional**	150	140	0.9	29	25
3227-175 *	150-175mm	D (three points)	7µm	**optional**	150	140	0.9	29	25
3227-200 *	175-200mm	D (three points)	7µm	**optional**	150	140	0.9	29	25
3227-225	200-225mm	D (three points)	8µm	**optional**	150	140	0.9	29	25
3227-250	225-250mm	D (three points)	8µm	**optional**	150	140	0.9	29	25
3227-275	250-275mm	D (three points)	9µm	**optional**	150	140	0.9	29	25
3227-300	275-300mm	D (three points)	9µm	**optional**	150	140	0.9	29	25

To be continued

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Continued from previous page

micrometer stand with clamp **(optional)**



setting ring



2-100mm: included
100-300mm: **optional**

extension rod



included



3227-504

Set

Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
3227-232*	2-3mm	2-2.5mm, 2.5-3mm	Ø2.5mm	—
3227-363*	3-6mm	3-4mm, 4-5mm, 5-6mm	Ø4mm, Ø5mm, Ø6mm	—
3227-123*	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
3227-202*	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm
3227-504*	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50m	Ø25mm, Ø40mm	150mm
3227-1004*	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

*Supplied with manufacturer inspection certificate

DIGITAL TWO POINTS/THREE POINTS INTERNAL MICROMETERS

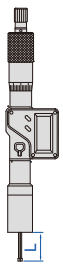
IP65 WATERPROOF

DATA OUTPUT

INSPECTION CERTIFICATE



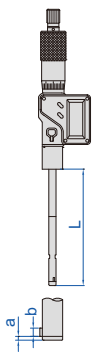
3127-5



type A
2-6mm, carbide measuring points two points



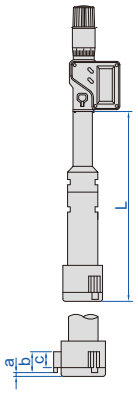
3127-12



type B
6-12mm, steel measuring points three points



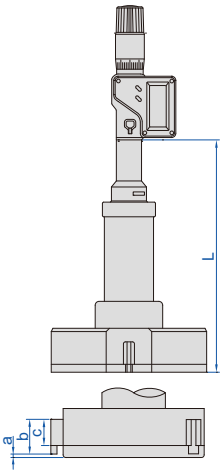
3127-40



type C
12-50mm, carbide measuring points three points



3127-125



type D
50-300mm, carbide measuring points three points

- Resolution 0.001mm/0.00005" (resolution of **3127-275** and **3127-300** is 0.001mm/0.0001")
- IP65 dust/waterproof
- Buttons: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Ratchet stop
- Optional accessory: data output cable (code **7315-31** page 4, **7302-31** page 12), setting ring (code **6312**), micrometer stand and clamp (code **6301** and **6301-2**)

To be continued

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Continued from previous page

micrometer stand with clamp (**optional**)

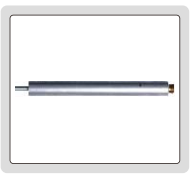


setting ring



2-100mm: included
100-300mm: **optional**

extension rod



included



3127-202

Individual **(mm)**

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3127-2*	2-2.5mm/0.08-0.10"	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3127-3*	2.5-3mm/0.10-0.12"	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3127-4*	3-4mm/0.12-0.16"	A (two points)	6µm	Ø4 (included)	—	22	—	—	—
3127-5*	4-5mm/0.16-0.20"	A (two points)	6µm	Ø5 (included)	—	22	—	—	—
3127-6*	5-6mm/0.20-0.24"	A (two points)	6µm	Ø6 (included)	—	22	—	—	—
3127-8*	6-8mm/0.24-0.31"	B (three points)	4µm	Ø6 (included)	100	57	1.5	2.5	—
3127-10*	8-10mm/0.31-0.39"	B (three points)	4µm	Ø8 (included)	100	57	1.5	2.5	—
3127-12*	10-12mm/0.39-0.47"	B (three points)	4µm	Ø10 (included)	100	57	1.5	2.5	—
3127-16*	12-16mm/0.47-0.63"	C (three points)	4µm	Ø16 (included)	150	99	0.5	6	4.5
3127-20*	16-20mm/0.63-0.79"	C (three points)	4µm	Ø16 (included)	150	99	0.5	6	4.5
3127-25*	20-25mm/0.79-0.98"	C (three points)	4µm	Ø25 (included)	150	105	0.5	8	6
3127-30*	25-30mm/0.98-1.18"	C (three points)	4µm	Ø25 (included)	150	105	0.5	8	6
3127-40*	30-40mm/1.18-1.57"	C (three points)	4µm	Ø40 (included)	150	110	0.5	14	12
3127-50*	40-50mm/1.57-1.97"	C (three points)	5µm	Ø40 (included)	150	110	0.5	14	12
3127-63*	50-63mm/1.97-2.48"	D (three points)	5µm	Ø62 (included)	150	127	0.5	17.5	14.5
3127-75*	62-75mm/2.44-2.95"	D (three points)	5µm	Ø62 (included)	150	127	0.5	17.5	14.5
3127-88*	75-88mm/2.95-3.46"	D (three points)	5µm	Ø87 (included)	150	127	0.5	17.5	14.5
3127-100*	87-100mm/3.43-3.94"	D (three points)	5µm	Ø87 (included)	150	127	0.5	17.5	14.5
3127-125*	100-125mm/3.94-4.92"	D (three points)	6µm	**optional**	150	175	0.9	29	25
3127-150*	125-150mm/4.92-5.91"	D (three points)	6µm	**optional**	150	175	0.9	29	25
3127-175*	150-175mm/5.91-6.89"	D (three points)	7µm	**optional**	150	175	0.9	29	25
3127-200*	175-200mm/6.89-7.87"	D (three points)	7µm	**optional**	150	175	0.9	29	25
3127-225	200-225mm/7.87-8.86"	D (three points)	8µm	**optional**	150	175	0.9	29	25
3127-250	225-250mm/8.86-9.84"	D (three points)	8µm	**optional**	150	175	0.9	29	25
3127-275	250-275mm/9.84-10.83"	D (three points)	9µm	**optional**	150	175	0.9	29	25
3127-300	275-300mm/10.83-11.81"	D (three points)	9µm	**optional**	150	175	0.9	29	25

Set

Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
3127-232*	2-3mm/0.08-0.12"	2-2.5mm, 2.5-3mm	Ø2.5mm	—
3127-363*	3-6mm/0.12-0.24"	3-4mm, 4-5mm, 5-6mm	Ø4mm, Ø5mm, Ø6mm	—
3127-123*	6-12mm/0.24-0.47"	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
3127-202*	12-20mm/0.47-0.79"	12-16mm, 16-20mm	Ø16mm	150mm
3127-504*	20-50mm/0.79-1.97"	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
3127-1004*	50-100mm/1.97-3.94"	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

*Supplied with manufacturer inspection certificate

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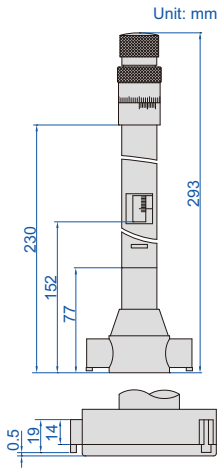
WIDE RANGE THREE POINTS INTERNAL MICROMETERS

INSPECTION CERTIFICATE

- Meet DIN863-4
- Graduation 0.001mm
- Carbide measuring faces
- Ratchet stop
- Setting rings are included (except 200-300mm)



3228-70



Code	Range	Accuracy	Setting ring
3228-70*	50-70mm	5µm	Ø50mm (included)
3228-100*	70-100mm	5µm	Ø70mm (included)
3228-150*	100-150mm	6µm	Ø100mm (included)
3228-250*	150-250mm	8µm	Ø150mm (included)
3228-300*	200-300mm	9µm	Ø200mm **(optional)**

*Supplied with manufacturer inspection certificate



setting ring

DIGITAL WIDE RANGE THREE POINTS INTERNAL MICROMETERS

IP54 WATERPROOF

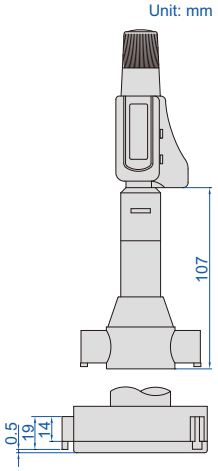
DATA OUTPUT

INSPECTION CERTIFICATE

- Meet DIN863-4
- Resolution 0.001mm/0.00005"
  (resolution of **3128-300** is 0.001mm/0.0001")
- IP54 dust/waterproof
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- Automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with extension rods
- Setting rings are included (except 200-300mm)
- Optional accessory: data output cable
  (code **7315-30** page 4, **7302-30** page 12)



3128-70



Code	Range	Accuracy	Setting ring	Extension rod (included)
3128-70*	50-70mm/1.97-2.76"	5µm	Ø50mm (included)	150mm
3128-100*	70-100mm/2.76-3.94"	5µm	Ø70mm (included)	150mm
3128-150*	100-150mm/3.94-5.91"	6µm	Ø100mm (included)	150mm
3128-250*	150-250mm/5.91-9.84"	8µm	Ø150mm (included)	150mm
3128-300*	200-300mm/7.87-11.81"	9µm	Ø200mm **(optional)**	150mm

*Supplied with manufacturer inspection certificate



setting ring

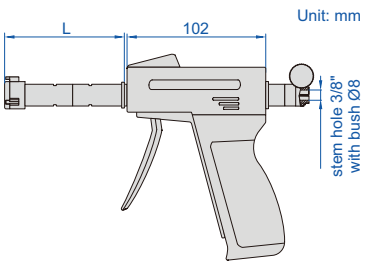


extension rod (included)

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INSPECTION CERTIFICATE

PISTOL GRIP THREE POINTS BORE GAGES



- Optional accessory: digital indicators (code **2108-101F**, resolution 0.001mm/0.00005"), setting rings (code **6312**)

setting ring

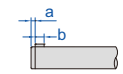


6-100mm: included
100-300mm: **optional**

extension rod



included

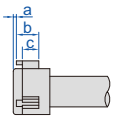


type A
6-12mm, steel measuring points



digital indicator is optional

2124-8

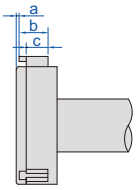


type B
12-50mm, carbide measuring points



digital indicator is optional

2124-25



type C
50-300mm, carbide measuring points



digital indicator is optional

2124-125

Individual (mm)

Code	Range	Type	Accuracy (without digital indicator)	Setting ring	Extension rod (included)	L	a	b	c
2124-8 *	6-8mm	A	4µm	Ø6mm (included)	100mm	50	1.5	2.5	—
2124-10 *	8-10mm	A	4µm	Ø8mm (included)	100mm	50	1.5	2.5	—
2124-12 *	10-12mm	A	4µm	Ø10mm (included)	100mm	50	1.5	2.5	—
2124-16 *	12-16mm	B	4µm	Ø16mm (included)	150mm	65	0.5	6	4.5
2124-20 *	16-20mm	B	4µm	Ø16mm (included)	150mm	65	0.5	6	4.5
2124-25 *	20-25mm	B	4µm	Ø25mm (included)	150mm	91	0.5	8	6
2124-30 *	25-30mm	B	4µm	Ø25mm (included)	150mm	91	0.5	8	6
2124-40 *	30-40mm	B	4µm	Ø40mm (included)	150mm	97	0.5	14	12
2124-50 *	40-50mm	B	5µm	Ø40mm (included)	150mm	97	0.5	14	12
2124-63 *	50-63mm	C	5µm	Ø62mm (included)	150mm	112	0.5	17.5	14.5
2124-75 *	62-75mm	C	5µm	Ø62mm (included)	150mm	112	0.5	17.5	14.5
2124-88 *	75-88mm	C	5µm	Ø87mm (included)	150mm	112	0.5	17.5	14.5
2124-100*	87-100mm	C	5µm	Ø87mm (included)	150mm	112	0.5	17.5	14.5
2124-125*	100-125mm	C	6µm	**optional**	150mm	140	0.9	29	25
2124-150*	125-150mm	C	6µm	**optional**	150mm	140	0.9	29	25
2124-175*	150-175mm	C	7µm	**optional**	150mm	140	0.9	29	25
2124-200*	175-200mm	C	7µm	**optional**	150mm	140	0.9	29	25
2124-225	200-225mm	C	8µm	**optional**	150mm	140	0.9	29	25
2124-250	225-250mm	C	8µm	**optional**	150mm	140	0.9	29	25
2124-275	250-275mm	C	9µm	**optional**	150mm	140	0.9	29	25
2124-300	275-300mm	C	9µm	**optional**	150mm	140	0.9	29	25

Set

Code	Range	Probes included	Setting ring (included)	Extension rod (included)
2124-S123*	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
2124-S202*	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm
2124-S504*	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
2124-S1004*	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm



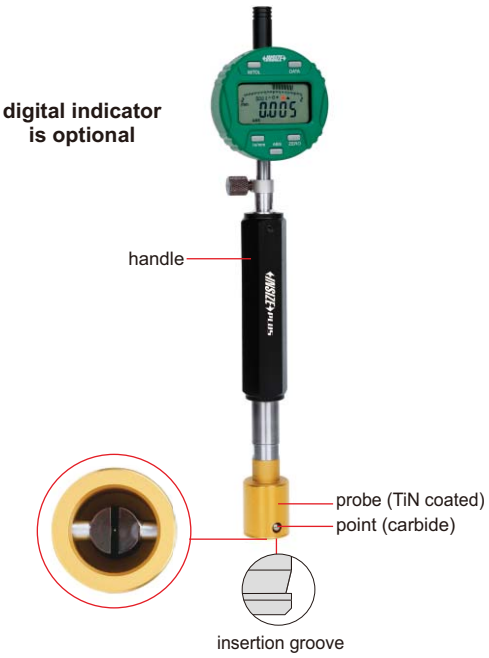
2124- S504

*Supplied with manufacturer inspection certificate

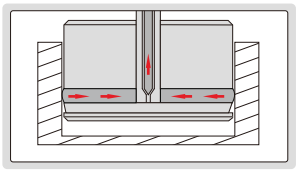
BORE PLUG GAGES

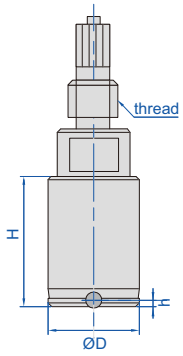
INSIZE PLUS
MADE IN EUROPE

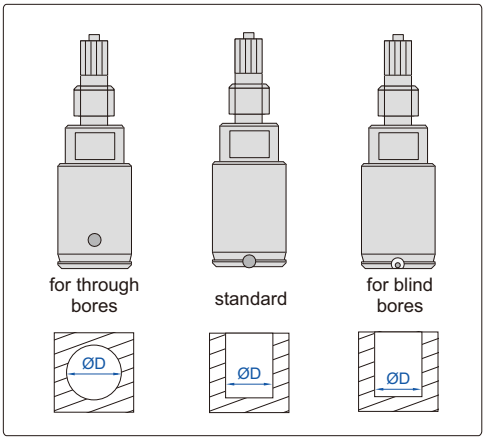
VIDEO



principle of measurement







- TiN coating provides very good hardness (2200 HV), corrosion resistance with outstanding sliding and friction characteristics

SPECIFICATION OF PROBE (mm)

Range (ØD)		6-8 *	8-10	10-20	20-50	50-100	100-130	130-280
Travel of point		0.15	0.15	0.15	0.20	0.20	0.20	0.20
Thread		M6x0.75			M10x1			
Height of point (h)	**for through bores**	5	5	5	6	7.5	10	10
	standard	1.6	1.6	1.6	2.5	2.5	2.5	2.5
	for blind bores	—	—	0.6	1.2	1.2	1.2	—
Height of probe (H)	**for through bores**	27	27	27	29	33.5	36	36
	standard	23.5	23.5	23.5	25.5	28.5	28.5	28.5
	for blind bores	—	—	23.5	—	28.5	28.5	—
Repeatability		0.001						

* When measuring range is 6-8mm, we suggest to use Ø7.5mm extension rod;
When measuring range is 6-8mm, it has insertion chamfer for self-centering

To be continued

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Continued from previous page





PROBE

Code	Type
4683-NO□□□□	for through bores
4683-XK□□□□	standard
4683-SL□□□□	for blind bores

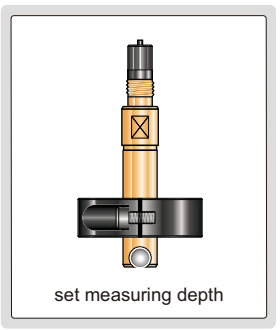
SETTING RING

Code
6312-□□□□□

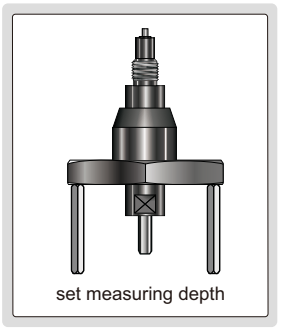
Ordering examples:

Code	Type	Range
4683-NO38D10H7	for through bores	38.10H7

Attention: “D” stands for “.”



4683-G



4683-J

DEPTH STOP

Code	Applicable for probe
4683-G□□□□□	6.0~85mm
4683-J □□□□□	28~150mm

Ordering examples:

Code	Applicable for probe
4683-G22H7	22H7



HANDLE

Code	Length (L)	Diameter (ØD)	Thread
4683-HM50S	50mm	8mm	M6x0.75
4683-HM100S	100mm	8mm	M6x0.75
4683-HM150S*	150mm	8mm	M6x0.75
4683-HM60	60mm	15mm	M10x1
4683-HM150*	150mm	15mm	M10x1

* The length 150mm are fabricated of temperature-stable steel



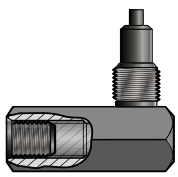
EXTENSION ROD FOR HANDLE

Code	Length (H)	Diameter (ØD)	Thread
4683-VL65T	65mm	7.5mm	M6x0.75
4683-VL50S	50mm	8mm	M6x0.75
4683-VL100S*	100mm	8mm	M6x0.75
4683-VL150S*	150mm	8mm	M6x0.75
4683-VL250S*	250mm	8mm	M6x0.75
4683-VL50	50mm	15mm	M10x1
4683-VL100*	100mm	15mm	M10x1
4683-VL150*	150mm	15mm	M10x1
4683-VL250*	250mm	15mm	M10x1

* The length 100mm and above are fabricated of temperature-stable steel

90° ADAPTER

Code	Thread
4683-WS1	M6x0.75
4683-WS2	M10x1



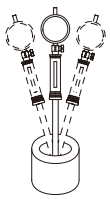
PRECISION BORE GAGES FOR SMALL HOLES

with digital indicator

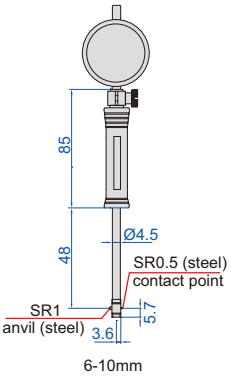
read the diameter directly, after imputing the size of setting ring.



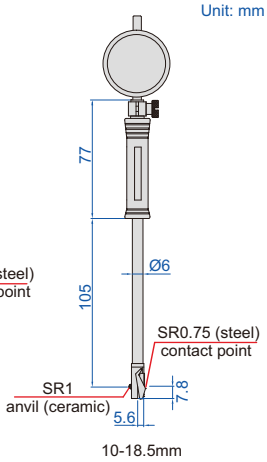
the minimum value tracking function can find the diameter automatically.



Unit: mm



6-10mm



10-18.5mm



2853-10 **2153-18**

ceramic anvil



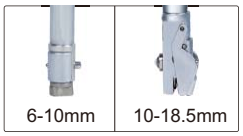
- Optional accessory: setting ring (code **6312**), bore gage setter

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2853-10	6-10mm	dial indicator, range 1mm, graduation 0.001mm (code **2313-1FA**)	±0.007mm	0.0015mm
2853-18	10-18.5mm		±0.007mm	0.0015mm

With digital indicator (data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

Code	Range	Indicator	Accuracy	Repeatability
2153-10	6-10mm	digital indicator, code **2108-101F**, range 12.7mm/0.5", resolution 0.001mm/0.00005"	±0.007mm	0.002mm
2153-18	10-18.5mm		±0.007mm	0.002mm



BORE GAGES FOR SMALL HOLES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

with digital indicator

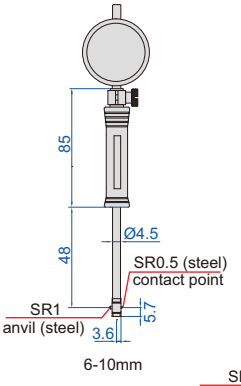
read the diameter directly, after imputing the size of setting ring.



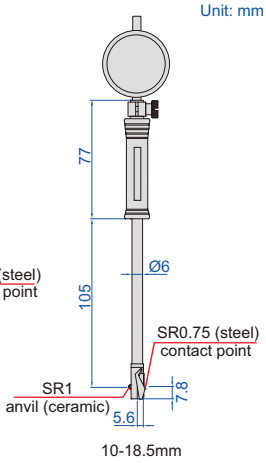
the minimum value tracking function can find the diameter automatically.



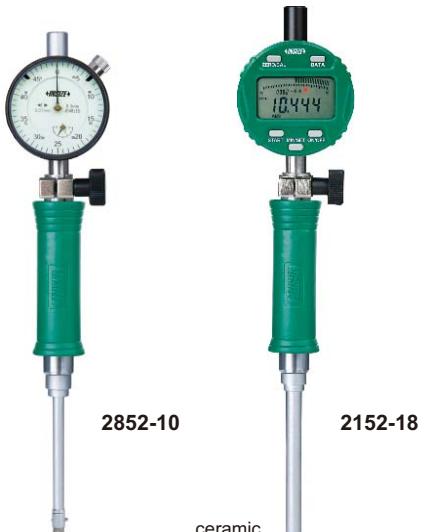
Unit: mm



6-10mm



10-18.5mm



2852-10 **2152-18**

ceramic anvil



- Optional accessory: setting ring (code **6312**), bore gage setter

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2852-10	6-10mm	dial indicator, range 3mm, graduation 0.01mm (code **2311-3F**)	±0.012mm	0.003mm
2852-18	10-18.5mm		±0.012mm	0.003mm

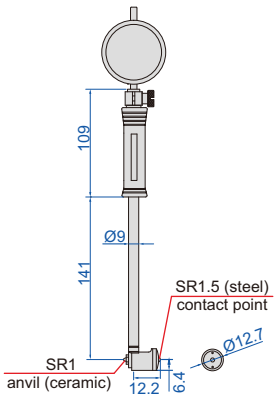
With digital indicator (data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

Code	Range	Indicator	Accuracy	Repeatability
2152-10	6-10mm	digital indicator, code **2108-10F**, range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.012mm	0.003mm
2152-18	10-18.5mm		±0.012mm	0.003mm

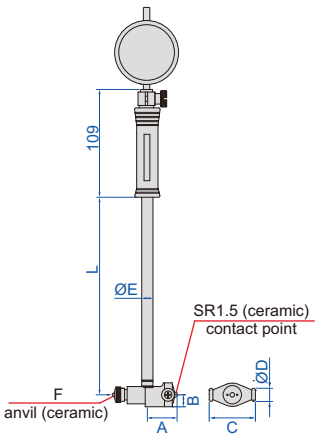


PRECISION BORE GAGES

Unit: mm



18-35mm



35mm up to 450mm



2825-160



2126-35

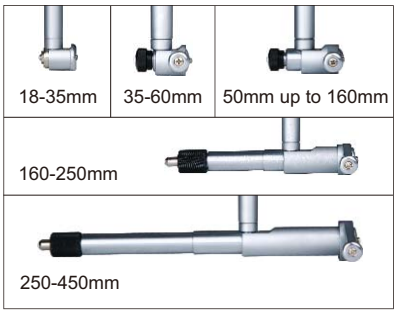
- Optional accessory: setting ring (code **6312**), bore gage setter

(mm)

Range	A	B	C	ØD	ØE	F	L
35-60mm	22	9	27	13	12.8	SR2	141
50-100mm	26	9	35	13	12.8	SR2	141
50-160mm	26	9	35	13	12.8	SR2	141
100-160mm	26	9	35	13	12.8	SR2	141
160-250mm	56.5	13	74.5	15	12.8	SR2	241
250-450mm	86.5	15	101.5	15	14.5	SR2.5	241

With dial indicator

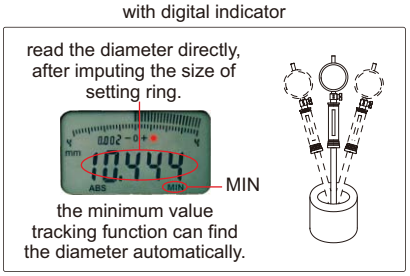
Code	Range	Indicator	Accuracy	Repeatability
2825-35	18-35mm	dial indicator, range 1mm, graduation 0.001mm (code **2313-1FA**)	±0.007mm	0.0015mm
2825-60	35-60mm		±0.007mm	0.0015mm
2825-100	50-100mm		±0.007mm	0.0015mm
2825-160	50-160mm		±0.007mm	0.0015mm
2825-161	100-160mm		±0.007mm	0.0015mm
2825-250	160-250mm		±0.007mm	0.0015mm
2825-450	250-450mm		±0.007mm	0.0015mm



With digital indicator
(data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

Code	Range	Indicator	Accuracy	Repeatability
2126-35	18-35mm	digital indicator, code **2108-101F**, range 12.7mm/0.5", resolution 0.001mm/0.00005"	±0.007mm	0.002mm
2126-60	35-60mm		±0.007mm	0.002mm
2126-100	50-100mm		±0.007mm	0.002mm
2126-160	50-160mm		±0.007mm	0.002mm
2126-161	100-160mm		±0.007mm	0.002mm
2126-250	160-250mm		±0.007mm	0.002mm
2126-450	250-450mm		±0.007mm	0.002mm

with digital indicator



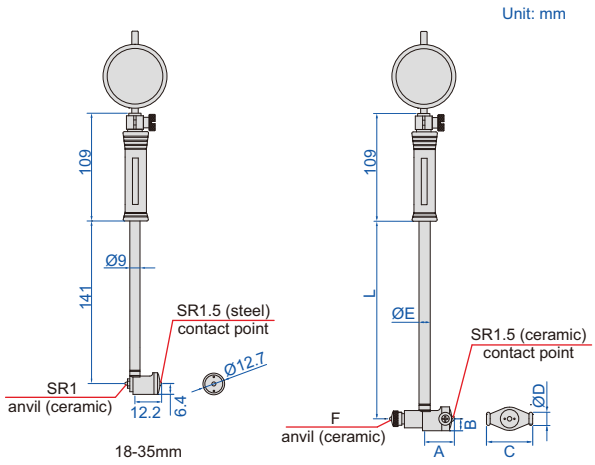
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BORE GAGES

POPULAR MODEL

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

VIDEO





2322-160A



2122-35A

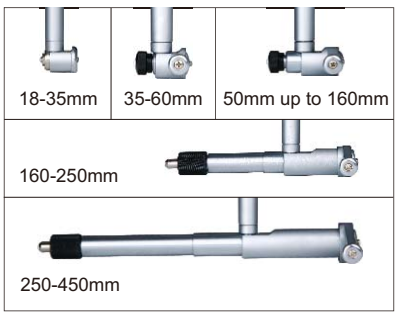
- Optional accessory: setting ring (code **6312**), long handle (code **7351**), bore gage setter

(mm)

Range	A	B	C	ØD	ØE	F	L
35-60mm	22	9	27	13	12.8	SR2	141
50-100mm	26	9	35	13	12.8	SR2	141
50-160mm	26	9	35	13	12.8	SR2	141
100-160mm	26	9	35	13	12.8	SR2	141
160-250mm	56.5	13	74.5	15	12.8	SR2	241
250-450mm	86.5	15	101.5	15	14.5	SR2.5	241

With dial indicator

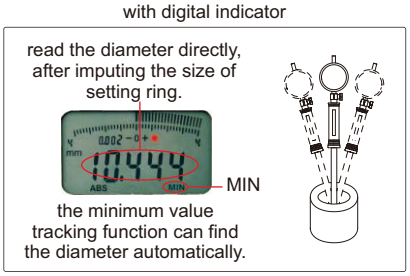
Code	Range	Indicator	Accuracy	Repeatability
2322-35A	18-35mm	dial indicator, range 10mm, graduation 0.01mm (code **2308-10FA**)	±0.015mm	0.003mm
2322-60A	35-60mm		±0.018mm	0.003mm
2322-100A	50-100mm		±0.018mm	0.003mm
2322-160A	50-160mm		±0.018mm	0.003mm
2322-161A	100-160mm		±0.018mm	0.003mm
2322-250A	160-250mm		±0.018mm	0.003mm
2322-450A	250-450mm		±0.018mm	0.003mm



With digital indicator
(data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

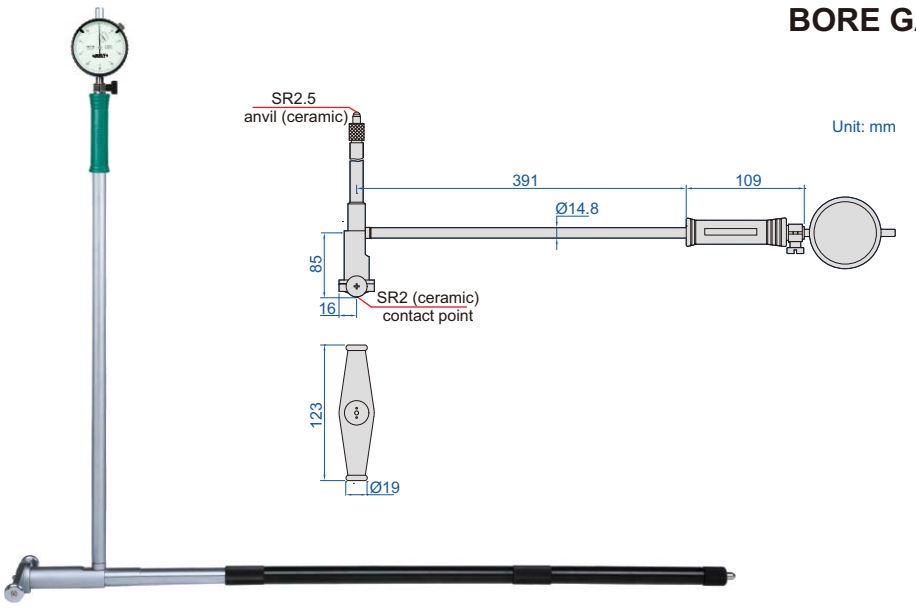
Code	Range	Indicator	Accuracy	Repeatability
2122-35A	18-35mm	digital indicator, code **2108-10F**, range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.015mm	0.003mm
2122-60A	35-60mm		±0.018mm	0.003mm
2122-100A	50-100mm		±0.018mm	0.003mm
2122-160A	50-160mm		±0.018mm	0.003mm
2122-161A	100-160mm		±0.018mm	0.003mm
2122-250A	160-250mm		±0.018mm	0.003mm
2122-450A	250-450mm		±0.018mm	0.003mm

with digital indicator



BORE GAGES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS



2828-800A

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2828-800A	400-800mm	dial indicator, code **2308-10FA**, range 10mm, graduation 0.01mm	±0.025mm	0.003mm

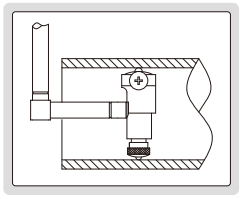
With digital indicator (data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

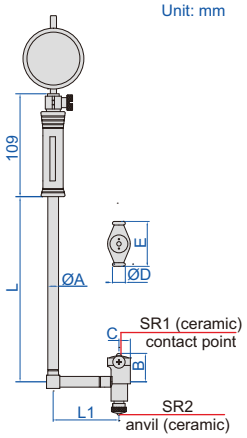
Code	Range	Indicator	Accuracy	Repeatability
2128-800A	400-800mm	digital indicator, code **2108-10F**, range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.025mm	0.003mm

BORE GAGES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

- Optional accessory: setting ring (code **6312**), long handle (code **7351**), bore gage setter







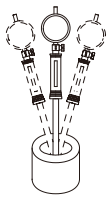
2827-160A

with digital indicator

read the diameter directly, after imputing the size of setting ring.



the minimum value tracking function can find the diameter automatically.



(mm)

Range	ØA	B	C	ØD	E	L	L1
35-60mm	12.8	22	9	13	27	141	75
50-160mm	12.8	28.5	9.2	13	35	141	76.2
160-250mm	14.5	62.0	12.7	15	74.5	391	100
250-450mm	14.5	91.5	15.0	15	101.5	391	100

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2827-60A	35-60mm	dial indicator, code **2308-10FA**, range 10mm, graduation 0.01mm	±0.018mm	0.003mm
2827-160A	50-160mm		±0.018mm	0.003mm
2827-250A	160-250mm		±0.018mm	0.003mm
2827-450A	250-450mm		±0.018mm	0.003mm

With digital indicator
(data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

Code	Range	Indicator	Accuracy	Repeatability
2127-60	35-60mm	digial indicator, code **2108-10F,** range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.018mm	0.003mm
2127-160	50-160mm		±0.018mm	0.003mm
2127-250	160-250mm		±0.018mm	0.003mm
2127-450	250-450mm		±0.018mm	0.003mm

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BORE GAGE SETS

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS



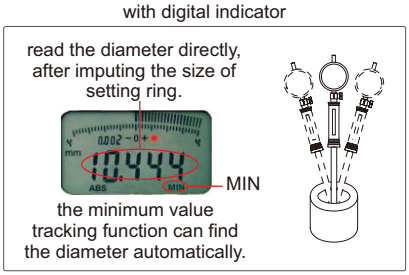
2824-S160



2724-S3

- Optional accessory: setting ring (code **6312**), long handle (code **7351**), bore gage setter

with digital indicator



packaging (code **2824-S3**)



With dial indicator

Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2824-S160	35-160mm	dial indicator, code **2308-10FA**, range 10mm, graduation 0.01mm	①35-50mm (dial indicator and handle are not included) ②50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2824-S3	18-160mm	dial indicator, code **2308-10FA**, range 10mm, graduation 0.01mm	①18-35mm ②35-60mm (dial indicator is not included) ③50-160mm (dial indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm

With digital indicator (data output cable code 7315-50M page 5, **7302-40M** page 13, **optional)**

Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2724-S160	35-160mm	digital indicator, code **2108-10F** range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	①35-50mm (digital indicator and handle are not included) ②50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2724-S3	18-160mm	digital indicator, code **2108-10F** range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	①18-35mm ②35-60mm (digital indicator is not included) ③50-160mm (digital indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm

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ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

MEASURE DIAMETER OF BORES WITH BARRIER INSIDE

BORE GAGE FOR BARRIER INSIDE BORE

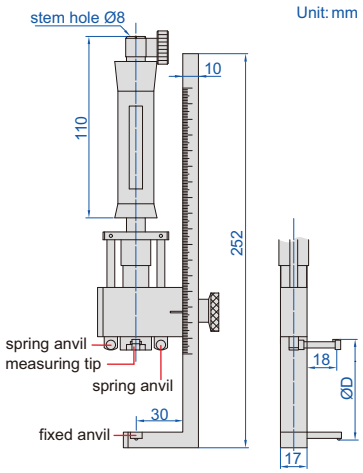
application



VIDEO

digital indicator is optional





- Measure diameter of bores with barrier inside
- Optional accessory:
  – 0.01mm graduation dial indicators
  – Setting ring (code **6312**)

2348-210

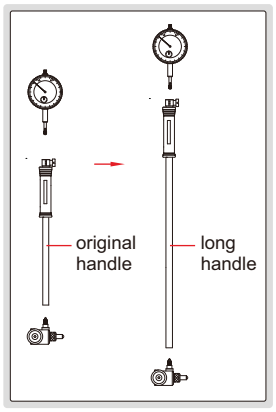
(mm)

Code	Range ØD	Diameter of barrier Ød	Travel of measuring tip	Accuracy (without dial indicator)	Measuring force
2348-210	40-210mm	<D-14 (less than 50mm)*	1.6	0.018	2N

*For example:
When measuring size ØD is 40mm, D-14=26mm, so the diameter of barrier should be less than 26mm.
When measuring size ØD is 70mm, D-14=56mm, however it should be less than 50mm,
so the diameter of barrier should be less than 50mm.

LONG HANDLES

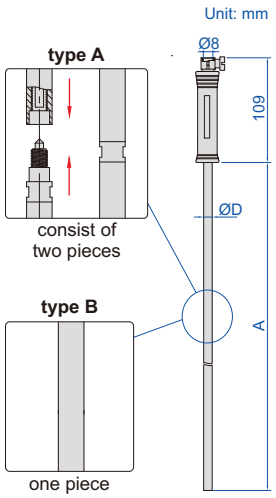
method of use (replace the original handle with long handle)



- To assist deep-hole measurement
- Can be used for bore gages **2122, 2322, 2824, 2724, 2127** and **2827**



7351-EX11



Code	Applicable bore gages	A	ØD	Type
7351-EX11	35-60mm, 50-100mm, 50-160mm, 100-160mm	475mm	13mm	B
7351-EX12		980mm	13mm	
7351-EX13		1480mm	14.5mm	A
7351-EX14		1980mm	14.5mm	
7351-EX21	160-250mm, 250-450mm	480mm	14.5mm	B
7351-EX22		980mm	14.5mm	
7351-EX23		1480mm	14.5mm	A
7351-EX24		1980mm	14.5mm	

ANVILS FOR BORE GAGES



7350-160

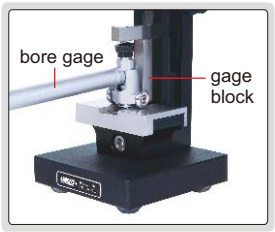
- For bore gages **2852, 2152, 2322, 2122, 2127, 2724, 2825, 2126, 2824, 2853, 2153** and **2827**

Code	Applicable bore gages	Material of measuring face	Quantity per set	Measuring range of anvil (mm)
7350-10	6-10mm	steel	9 pcs	6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10
7350-18	10-18.5mm	ceramic	9 pcs	10, 11, 12, 13, 14, 15, 16, 17, 18
7350-35	18-35mm	ceramic	9 pcs	18, 20, 22, 24, 26, 28, 30, 32, 34
7350-60	35-60mm	ceramic	6 pcs	35, 40, 45, 50, 55, 60
7350-100	50-100mm	ceramic	11 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100
7350-160	50-160mm	ceramic	12 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-161	100-160mm	ceramic	12 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-250	160-250mm	ceramic	5 pcs	160, 170, 180, 190, 200
7350-450	250-450mm	ceramic	5 pcs	250, 260, 270, 280, 290

BORE GAGE SETTERS

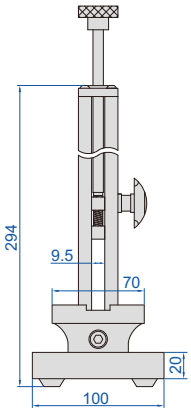
- Vertical and horizontal use
- To be used with gage blocks

application



VIDEO

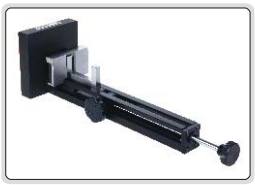
Unit: mm





7353-160

horizontal use



gage blocks for **7353-160**



Code	Range	Repeatability	Remark
7353-160	0-160mm	1.2μm	with gage block set
7353-160W	0-160mm	1.2μm	without gage block set

Gage block set for 7353-160

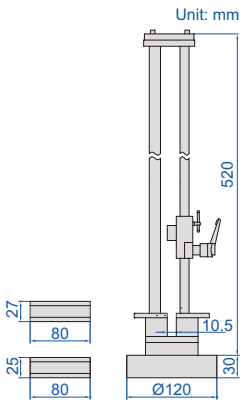
Blocks per set	Size (mm)	Step (mm)	Quantity	Remark
33	1.005		1 pc	grade 2 (ISO3650)
	1.01-1.09	0.01	9 pcs	
	1.1-1.9	0.1	9 pcs	
	1-9	1	9 pcs	
	10-30	10	3 pcs	
	50		1 pc	
	100		1 pc	

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BORE GAGE SETTER

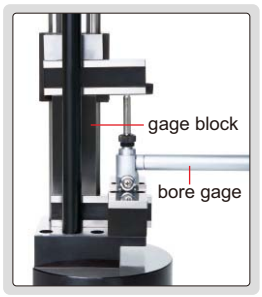
VIDEO

- Used together with gage blocks to set bore gages





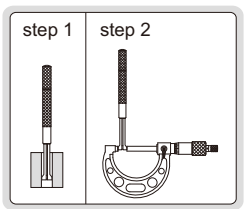
2395-400



Code	Setting range
2395-400	18-400mm

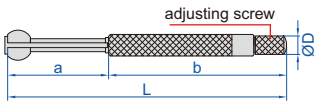
SMALL HOLE GAGE SET

- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish





4208-1

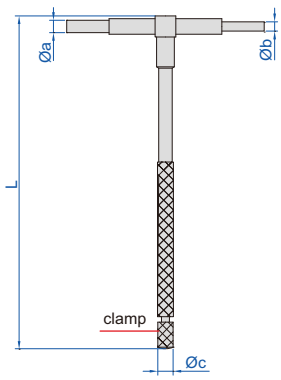


Code	Total range	Gages included
4208-1	3-13mm	3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm

(mm)

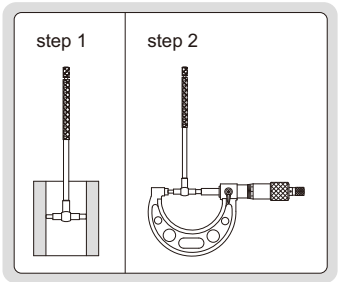
Range	L	a	b	ØD
3-5mm	76	24	52	5
5-7.5mm	79	27	52	5
7.5-10mm	88	30	58	6
10-13mm	91	34	58	6

TELESCOPING GAGE SET





4206-1



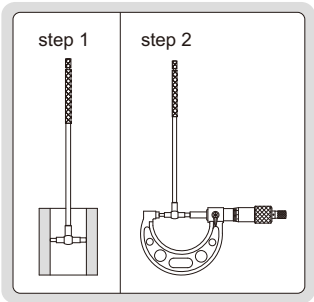
- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish

Code	Total range	Gages included
4206-1	8-150mm	8-12.7mm, 12.7-19mm, 19-32mm, 32-54mm, 54-90mm, 90-150mm

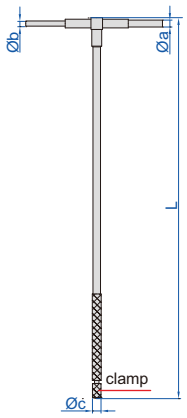
(mm)

Range	L	Øa	Øb	Øc
8-12.7mm	115	3.9	2.9	6.2
12.7-19mm	115	5.3	3.8	6.2
19-32mm	115	5.3	3.8	6.2
32-54mm	137	7.6	6.1	7.2
54-90mm	137	7.6	6.1	7.2
90-150mm	137	7.6	6.1	7.2

LONG HANDLE TELESCOPING GAGES







- For quick measurement of inside diameter of deep holes and width of slots
- Satin chrome finish

4209-6

(mm)

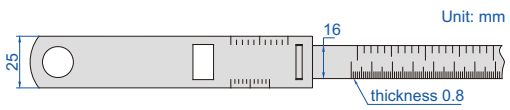
Code	Range	L	Øa	Øb	Øc
4209-1	8-12.7mm	300	3.9	2.9	6.2
4209-2	12.7-19mm	300	5.3	3.8	6.2
4209-3	19-32mm	300	5.3	3.8	6.2
4209-4	32-54mm	300	7.6	6.1	7.2
4209-5	54-90mm	300	7.6	6.1	7.2
4209-6	90-150mm	300	7.6	6.1	7.2

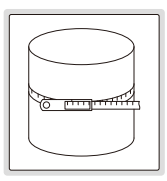
CIRCUMFERENCE TAPES (ECONOMIC TYPE)



7114-950

- Measure diameter and circumference of soft materials like pipes, trees, tires, etc.
- Graduation: 0.1mm
- Laser engraved scale
- Made of stainless steel





Code	Circumference range	Diameter range	Accuracy	
			circumference	diameter
7114-950	150-950mm	Ø50-300mm	±3mm	±1mm
7114-2200	940-2200mm	Ø300-700mm	±3mm	±1mm
7114-3460	2190-3460mm	Ø700-1100mm	±3mm	±1mm

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TAPER GAGES

REFER TO PAGE 374 FOR DETAILS



4833-2



TAPER GAGE SET
4837-1

TAPER BORE GAGES

REFER TO PAGE 375 FOR DETAILS



4852-15

SMALL TAPER BORE GAGE

REFER TO PAGE 375 FOR DETAILS



4855-5

INSIDE SPRING CALIPERS

REFER TO PAGE 383 FOR DETAILS



7261-150

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INSIZE ARC RADIUS MEASUREMENT

08



Large Diameter Gages
Page 186



Outside Diameter Variation Measuring Instruments
Page 187



Outside Diameter Measuring Instruments
Page 188



Digital Radius Gages
Page 189



Digital Radius Gages
Page 190-191



Digital Arc Radius Calipers
Page 191



Digital Radius Calipers
Page 192



Radius Gages
Page 192

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LARGE DIAMETER GAGE
CODE ISQ-RA600

INSIZE PLUS
MADE IN EUROPE

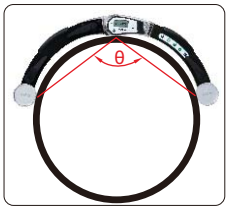
DATA OUTPUT

VIDEO



- To measure large external or internal diameters
- Automatic judgment and display external or internal diameter
- Backlight LCD display, can rotate 180° for easy reading
- Memory of 12 readings and average calculation
- With minimum and maximum measurement mode
- Angle can be displayed

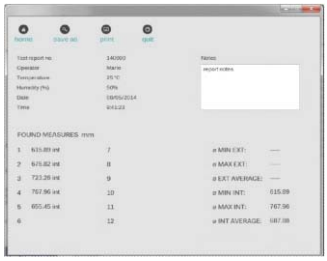

software flash disk
(included)



display of angle


external diameter measurement


internal diameter measurement


software (included),
data output, save and print

SPECIFICATION

Range	external	Ø500~6000mm/19.69~236.22"
	internal	Ø1100~6000mm/43.31~236.22"
Resolution		0.01mm/0.001"
Accuracy		±(0.01+D²/30)mm (D is the diameter to be measured, in meter)
Power supply		rechargeable battery (for 8 hours working)
Weight		3.8kg

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
Software and USB cable	1 pc

Accuracy sample by diameters

Diameter	Accuracy
500mm	±0.018mm
1000mm	±0.043mm
1500mm	±0.085mm
2000mm	±0.143mm
2500mm	±0.218mm
3000mm	±0.310mm
4000mm	±0.543mm
5000mm	±0.843mm
6000mm	±1.210mm

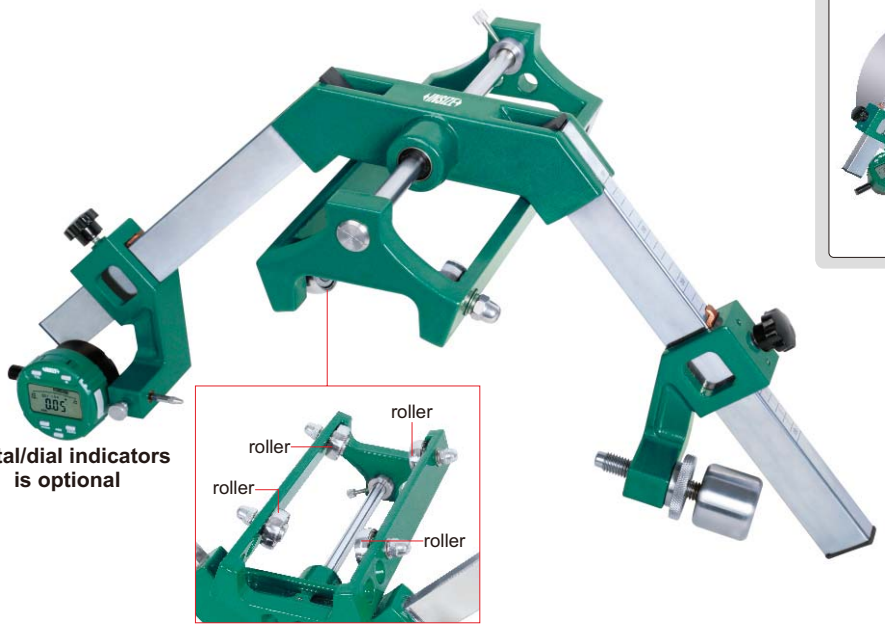
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CAN BE CUSTOM-MADE

OUTSIDE DIAMETER VARIATION MEASURING INSTRUMENTS

application

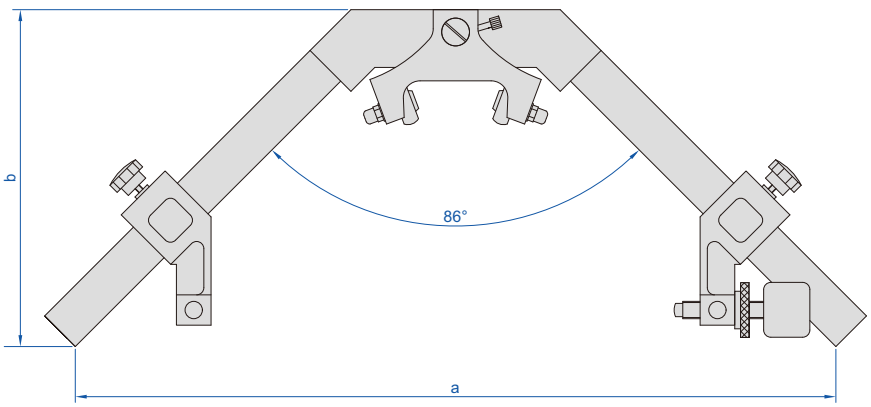




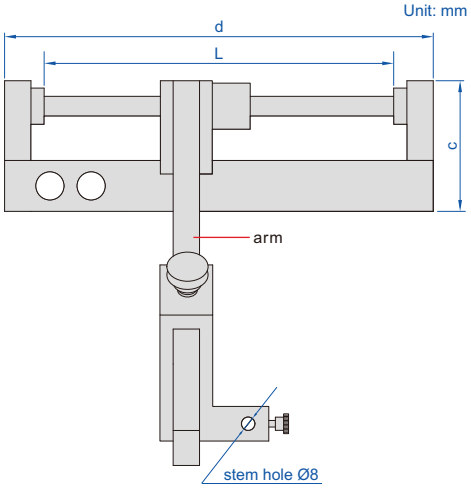
digital/dial indicators is optional

VIDEO

2715-350



Unit: mm



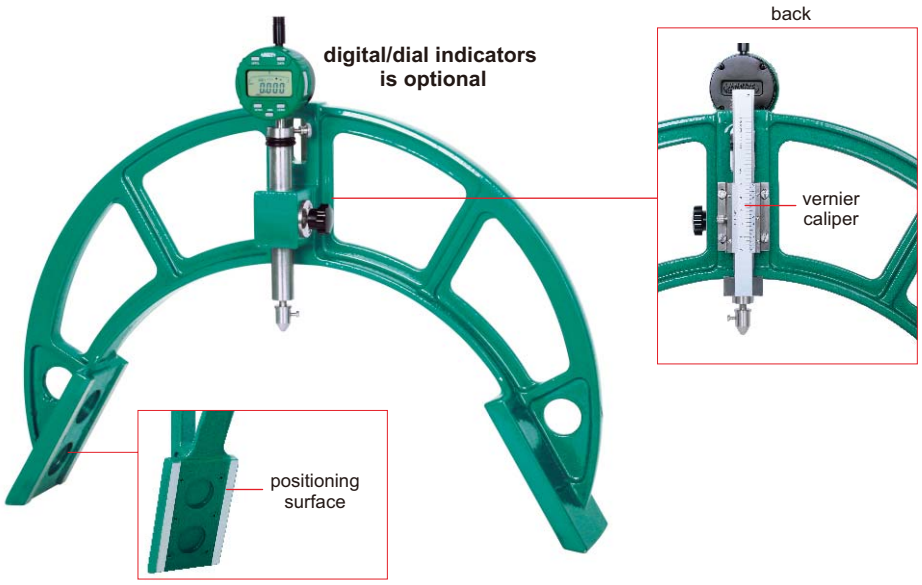
- Measurement of diameter variation, convexity, concavity, taper and other parameters
- Continuous measurement in the axis direction
- Four rollers are included
- Optional accessory: 0.01mm or 0.001mm graduation digital/dial indicators

(mm)

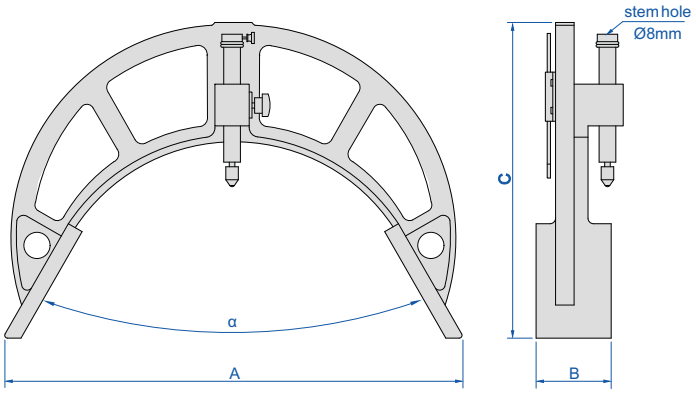
Code	Range (diameter)	Accuracy	Repeatability	Arm moving range (L)	a	b	c	d	Weight
2715-350	100-350mm/4-14"	0.01mm	3μm	200mm	500	230	80	260	4kg
2715-500	200-500mm/8-20"	0.01mm	3μm	151mm	630	260	95	260	5kg
2715-700	300-700mm/12-28"	0.01mm	3μm	197mm	910	372	112	320	6.5kg
2715-1000	500-1000mm/20-40"	0.01mm	3μm	190mm	1170	460	120	320	8kg
2715-1600	800-1600mm/32-64"	0.02mm	6μm	202mm	1860	690	180	320	12.5kg
2715-2000	1400-2000mm/56-80"	0.02mm	6μm	232mm	2156	860	210	350	18.5kg

OUTSIDE DIAMETER MEASURING INSTRUMENTS

VIDEO



2716-500



- Comparison measurement by digital/dial indicators. Need standard workpieces to set zero. Measure diameter/convex/concave/taper/roundness and other parameters, can also measure the wear and surface scratch of the workpieces
- Diameter measurement by vernier caliper, graduation: 0.02mm
- The frame is made of aluminum magnesium alloy with light weight and high strength
- Optional accessory: 0.01mm or 0.001mm digital/dial indicators

(mm)

Code	Range (diameter)	Repeatability (by digital/dial indicators)	Accuracy (by vernier caliper)	α	A	B	C	Weight
2716-60	18-60	0.01mm	0.04mm	60°	140	60	160	1kg
2716-120	60-120	0.01mm	0.04mm	60°	166	65	162	1.5kg
2716-200	120-200	0.01mm	0.04mm	60°	225	70	228	2kg
2716-300	200-300	0.01mm	0.04mm	60°	330	80	262	2.5kg
2716-400	300-400	0.01mm	0.04mm	60°	405	80	303	4kg
2716-500	400-500	0.01mm	0.04mm	60°	494	80	340	5kg
2716-600	500-600	0.01mm	0.04mm	60°	594	80	398	6kg
2716-700	600-700	0.01mm	0.04mm	60°	685	80	446	7.5kg
2716-800	700-800	0.01mm	0.04mm	60°	772	80	479	9kg
2716-900	800-900	0.01mm	0.04mm	60°	860	80	520	10kg
2716-1000	900-1000	0.01mm	0.04mm	60°	950	80	560	11.5kg
2716-1100	1000-1100	0.01mm	0.04mm	60°	1035	90	575	13kg
2716-1200	1000-1200	0.01mm	0.08mm	83.62°	960	100	460	12kg
2716-1300	1100-1300	0.01mm	0.08mm	83.62°	1000	100	485	13.5kg
2716-1400	1200-1400	0.01mm	0.08mm	83.62°	1100	100	512	15kg
2716-1600	1400-1600	0.01mm	0.08mm	83.62°	1260	100	540	17kg
2716-1800	1600-1800	0.01mm	0.08mm	83.62°	1460	100	570	19kg
2716-2000	1800-2000	0.01mm	0.08mm	83.62°	1645	100	605	21kg

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DIGITAL RADIUS GAGES

VIDEO

DATA OUTPUT



2188-55



2188-233



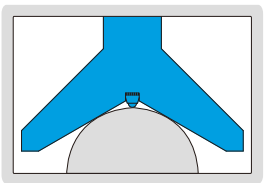
2188-143



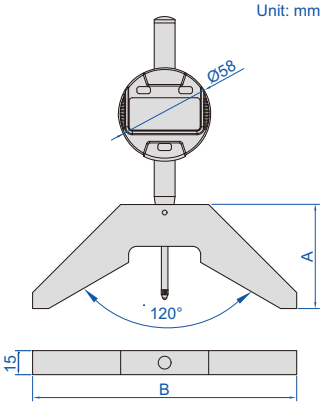
2188-323

- Measure radius of external arc, arc angle of measured surface should be larger than 60°
- Display radius value, no need to calcuate
- Button function: on/off, zero, data preset, inch/mm
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Optional accessory: setting standards, data output cable (code **7315-50M** page 5, **7302-40M** page 13)

application



Unit: mm



Code	Range (radius)	Resolution	Accuracy	A	B
2188-55	4-53mm/0.16-2.09"	0.01mm/0.0005"	±0.02mm	40mm	65mm
2188-143	48-143mm/1.89-5.63"	0.01mm/0.0005"	±0.03mm	65mm	165mm
2188-233	138-233mm/5.43-9.17"	0.01mm/0.0005"	±0.03mm	85mm	255mm
2188-323	228-323mm/8.98-12.72"	0.01mm/0.0005"	±0.04mm	95mm	345mm

Setting standards

Code	Setting standards	Remark
4110-10D00	setting standard for **2188-55**	included
2188-P143	setting standard for **2188-143**	**optional**
2188-P233	setting standard for **2188-233**	**optional**
2188-P323	setting standard for **2188-323**	**optional**



2188-P143

setting standard application



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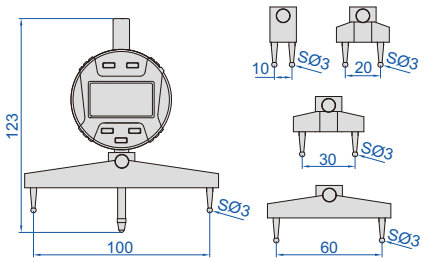
DIGITAL RADIUS GAGE (LOW ACCURACY)

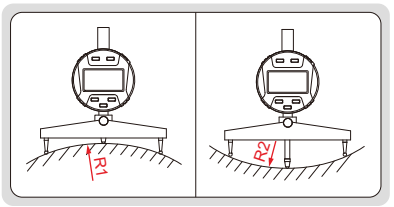
DATA OUTPUT



2183

Unit: mm





- Resolution: 0.01mm/0.001"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Display can be rotated by 320º
- Supplied with 5 jaws for different sizes of arc
- Data output
- Battery CR2032, automatic power off (time is adjustable)
- Optional accessory: data output cable (code **7315-2183**, **7302-2183**)

Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2183	5-910mm/0.2-35.83"	7-910mm/0.3-35.83"	±0.01R*

*R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.01x100=±1mm

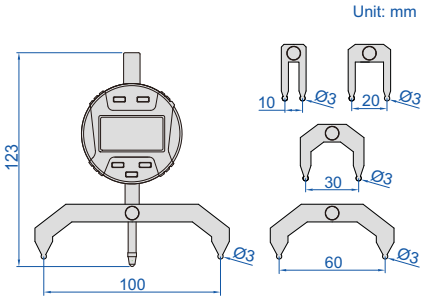
DIGITAL RADIUS GAGE

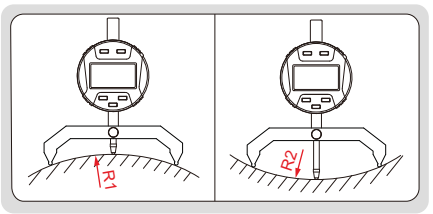
DATA OUTPUT



2511

Unit: mm



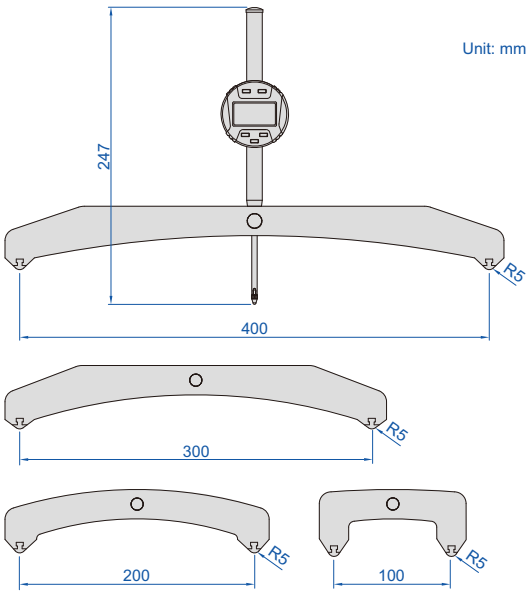


- Resolution: 0.01mm/0.001"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Cylindrical measuring jaws, self-positioning
- Display can be rotated by 320º
- Supplied with 5 jaws for different sizes of arc
- Data output
- Battery CR2032, automatic power off (time is adjustable)
- Optional accessory: data output cable (code **7315-2183**, **7302-2183**)

Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2511	5-910mm/0.2-35.83"	7-910mm/0.3-35.83"	±0.005R*

*R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.005x100=±0.5mm

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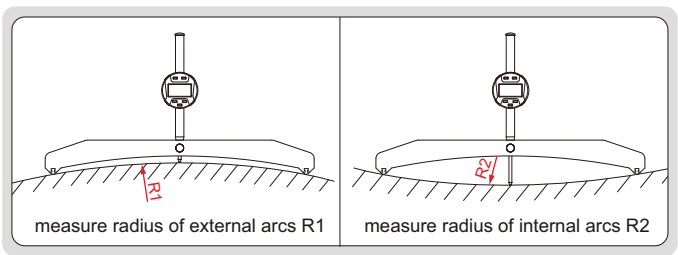
LARGE RANGE DIGITAL RADIUS GAGE

DATA OUTPUT



2197

- Measure radius of internal or external arcs
- Resolution: 0.01mm/0.001"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Display can be rotated by 320°
- Supplied with 4 jaws for different sizes of arc
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-2183**, **7302-2183**)



Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2197	100-15000mm/4-590"	100-15000mm/4-590"	±0.005R*

*R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.005x100=±0.5mm

VIDEO

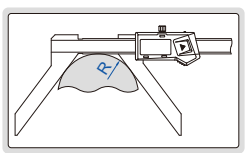
DIGITAL ARC RADIUS CALIPERS

DATA OUTPUT

- Non waterproof
- Measure the radius of arc less than half round
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel



1189-200B

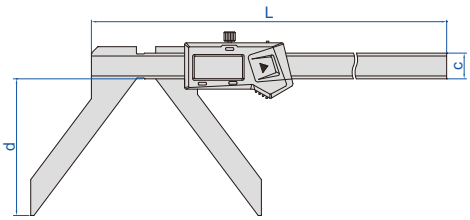


With data interface
(data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range (R)	Accuracy	L	c	d
1189-150B	5-150mm/0.2-6"	±0.05mm	263mm	16mm	65mm
1189-200B	5-200mm/0.2-8"	±0.07mm	313mm	16mm	85mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range (R)	Accuracy	L	c	d
1189-150BWL	5-150mm/0.2-6"	±0.05mm	263mm	16mm	65mm
1189-200BWL	5-200mm/0.2-8"	±0.07mm	313mm	16mm	85mm



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DIGITAL RADIUS CALIPERS

DATA OUTPUT

ATTENTION: THE ACTUAL RADIUS IS 2.414 TIMES OF THE READING

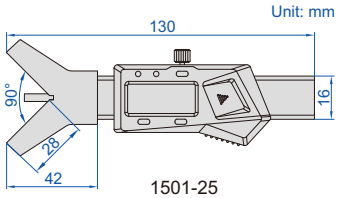


1501-25

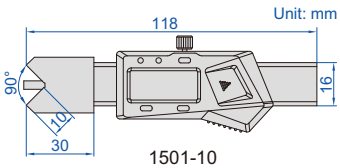


1501-10

VIDEO



1501-25

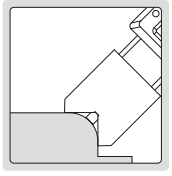


1501-10

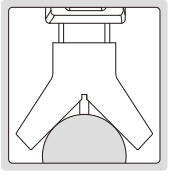
- Non waterproof
- Measure radius of external arc, arc angle of measured surface should be larger than 90°
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Supplied with pin gage for zero setting

Code	Range (radius)	Accuracy
1501-25	2-25mm/0.079-1"	±0.05mm
1501-10	2-10mm/0.079-0.394"	±0.05mm

1501-10 can measure small workpieces or workpieces with steps



application



pin gage (included)



RADIUS GAGES

REFER TO PAGE 370 FOR DETAILS



4801-17



4802-31



RADIUS GAGE SET
4804-26

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CHAMFER MEASUREMENT

09



Digital Chamfer Gages
Page 194



Chamfer Gages
Page 195



Digital Chamfer Gages
Page 195

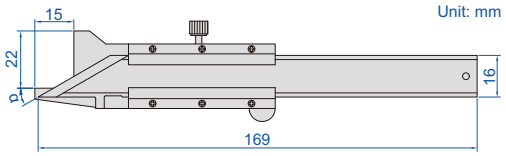
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CHAMFER GAGES

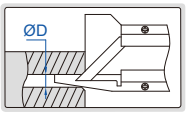


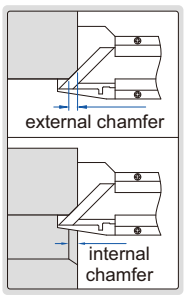
1267-6

- Measure 30º/45º/60º chamfer dimension
- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface



for internal chamfer measurement, diameter should be larger than ØD





Code	Range	Accuracy	Chamfer (α)	ØD
1267-6	0-10mm	±0.06mm	45º	7mm
1267-63	0-10mm	±0.06mm	30º	8mm
1267-66	0-10mm	±0.06mm	60º	7mm

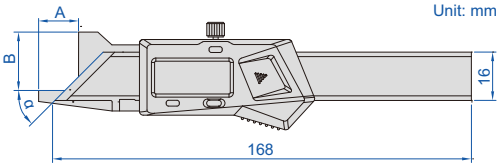
DIGITAL CHAMFER GAGES

DATA OUTPUT

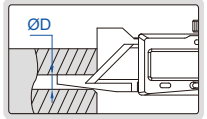


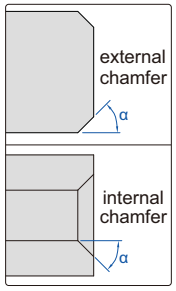
1180-6

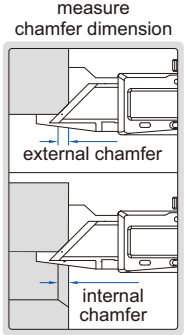
- Non waterproof
- Measure 15º/20º/30º/45º/60º chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel



for internal chamfer measurement, diameter should be larger than ØD







With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy	Chamfer (α)	A	B	ØD
1180-6	0-10mm/0-0.39"	±0.06mm	45º	15mm	22mm	7mm
1180-61	0-10mm/0-0.39"	±0.06mm	15º	33mm	20mm	11mm
1180-62	0-10mm/0-0.39"	±0.06mm	20º	33mm	20mm	11mm
1180-63	0-10mm/0-0.39"	±0.06mm	30º	15mm	22mm	8mm
1180-66	0-10mm/0-0.39"	±0.06mm	60º	14mm	21mm	7mm

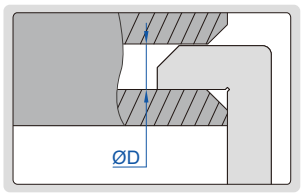
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	Chamfer (α)	A	B	ØD
1180-6WL	0-10mm/0-0.39"	±0.06mm	45º	15mm	22mm	7mm
1180-61WL	0-10mm/0-0.39"	±0.06mm	15º	33mm	20mm	11mm
1180-62WL	0-10mm/0-0.39"	±0.06mm	20º	33mm	20mm	11mm
1180-63WL	0-10mm/0-0.39"	±0.06mm	30º	15mm	22mm	8mm
1180-66WL	0-10mm/0-0.39"	±0.06mm	60º	14mm	21mm	7mm

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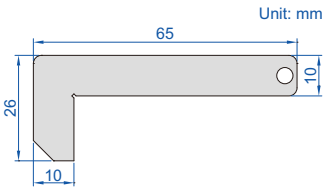
CHAMFER GAGE

for internal chamfer measurement, diameter should be larger than ØD



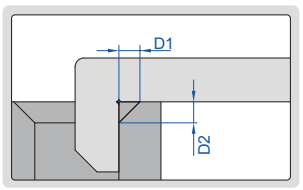


4844-1

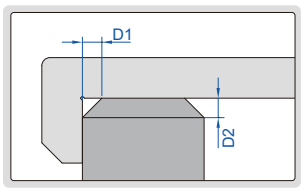


- To measure internal and external chamfers
- Made of stainless steel

internal chamfer



external chamfer



Code	Graduation	Accuracy	ØD
4844-1	0.5mm	±0.25mm	11mm

ATTENTION: THE ACTUAL LENGTH IS 1.414 TIMES OF THE READING

ATTENTION: CHAMFER OF HOLES CANNOT BE MEASURED

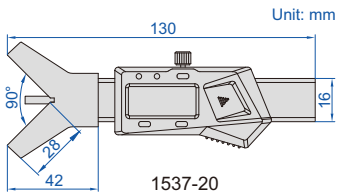
DATA OUTPUT

DIGITAL CHAMFER GAGES

VIDEO



1537-20

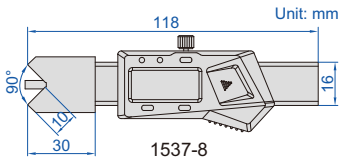


1537-20

- Non waterproof
- Measure 45º chamfer length
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Supplied with pin gage for zero setting

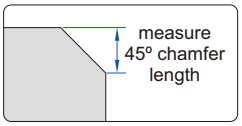


1537-8



1537-8

Code	Range	Accuracy
1537-20	0-20mm/0-0.787"	±0.05mm
1537-8	0-8mm/0-0.315"	±0.05mm



pin gage (included)

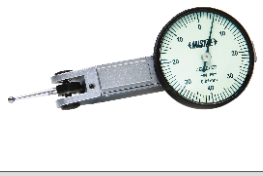


1537-8 can measure small workpieces or workpieces with steps



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10 INDICATORS, LINEAR GAGES, DIAL INDICATOR STANDS



Dial Test Indicators
Page 197-199



Styli For Dial Test Indicators
Page 199



Digital Indicators
Page 200-212



Zeroing Foot Switches
Page 209



High Precision Digital Indicators
Page 213



Dial Indicators
Page 213-218



Points
Page 219-221



Spindle Lift Knobs
Page 222



Shaft Sleeves
Page 222



Backs
Page 222-223



Dial Indicator Testers
Page 224



Optical Grating Linear Gages And Display Units
Page 225-228



Capacitance Type Linear Gages And Display Units
Page 228-230



Dial Test Indicator Holders
Page 231-232



Magnetic Stands
Page 233-238



Dial Indicator Stands (non-magnetic)
Page 238-239



Dial Indicator Stands
Page 240-246



Digital Height Gages
Page 246

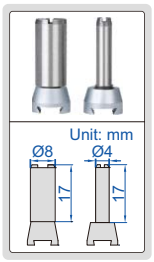
DIAL TEST INDICATORS

JEWELED BEARING

INSPECTION CERTIFICATE

- Meet DIN2270 (except **2380-02**, **2381-02**, **2381-021**)
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 199)

clamp (included)

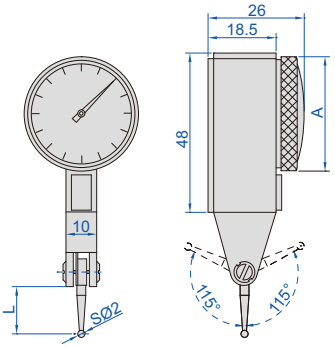




2380-08

POPULAR MODEL

Unit: mm



(mm)

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	A	L
2380-08*	0.8mm	0.01mm	13μm	3μm	0-40-0	Ø30	13.5
2381-08*	0.8mm	0.01mm	13μm	3μm	0-40-0	Ø37	13.5
2380-02*	0.2mm	0.002mm	6μm	2μm	0-100-0	Ø30	12.5
2381-02*	0.2mm	0.002mm	6μm	2μm	0-100-0	Ø37	12.5
2381-021*	0.2mm	0.001mm	6μm	2μm	0-100-0	Ø37	12.5

*Supplied with manufacturer inspection certificate

10

INCH DIAL TEST INDICATORS

JEWELED BEARING

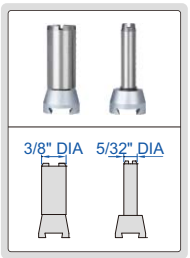
INSPECTION CERTIFICATE

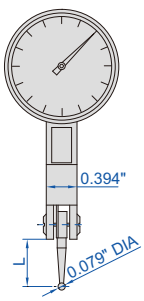
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: 5/32" DIA and 3/8" DIA

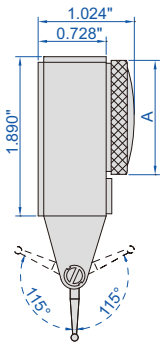


2380-31

clamp (included)







Code	Range	Graduation	Accuracy	Dial reading	A	L
2380-31*	0.03"	0.001"	±0.001"	0-15-0	1.181" DIA	0.50"
2380-35*	0.03"	0.0005"	±0.0005"	0-15-0	1.181" DIA	0.50"
2380-301*	0.008"	0.0001"	±0.0001"	0-40-0	1.181" DIA	0.563"
2381-31*	0.03"	0.001"	±0.001"	0-15-0	1.457" DIA	0.50"
2381-35*	0.03"	0.0005"	±0.0005"	0-15-0	1.457" DIA	0.50"
2381-301*	0.008"	0.0001"	±0.0001"	0-40-0	1.457" DIA	0.563"

*Supplied with manufacturer inspection certificate

LONG STYLUS DIAL TEST INDICATOR

JEWELED BEARING

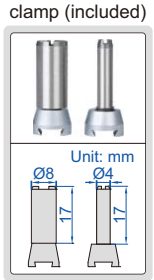
INSPECTION CERTIFICATE

- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 199)

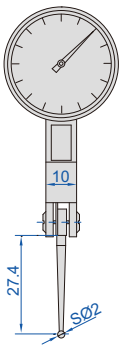


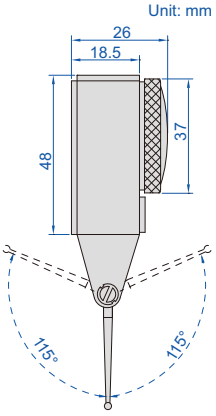
2383-08A

clamp (included)



Unit: mm





Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2383-08A*	0.8mm	0.01mm	13μm	3μm	0-40-0

*Supplied with manufacturer inspection certificate

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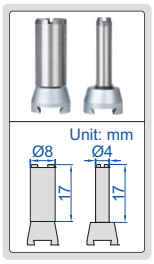
VERTICAL TYPE DIAL TEST INDICATOR

INSPECTION CERTIFICATE

JEWELED BEARING

- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 199)

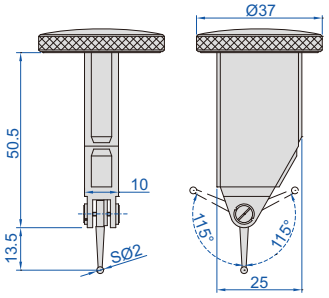
clamp (included)





2398-08

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2398-08*	0.8mm	0.01mm	13µm	3µm	0-40-0

*Supplied with manufacturer inspection certificate

TILTED FACE TYPE DIAL TEST INDICATOR

INSPECTION CERTIFICATE

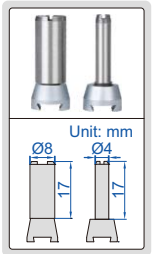
JEWELED BEARING

- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 199)

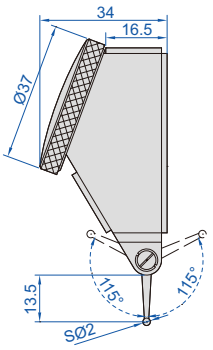


2399-08

clamp (included)



Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2399-08*	0.8mm	0.01mm	13µm	3µm	0-40-0

*Supplied with manufacturer inspection certificate

LARGE RANGE DIAL TEST INDICATOR

INSPECTION CERTIFICATE

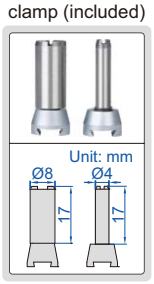
JEWELED BEARING

- Dial reading: 0-40-0
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 199)

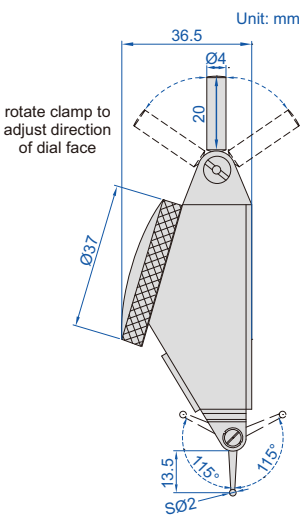


2386-16A

clamp (included)



Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis
2386-16A*	1.6mm	0.01mm	25µm	8µm

*Supplied with manufacturer inspection certificate

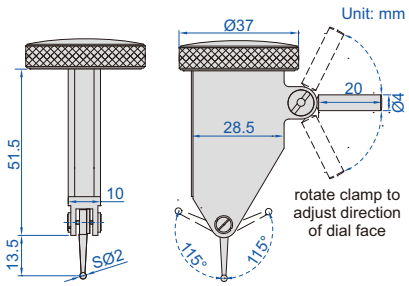
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JEWELED BEARING

INSPECTION CERTIFICATE

LARGE RANGE VERTICAL TYPE DIAL TEST INDICATOR

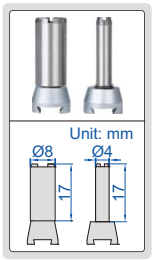
- Dial Reading: 0-40-0
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 199)





2480-16

clamp (included)



Code	Range	Graduation	Accuracy	Hysteresis
2480-16*	1.6mm	0.01mm	18µm	3µm

*Supplied with manufacturer inspection certificate

10

CLAMPS FOR DIAL TEST INDICATORS

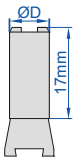
Code	ØD
6298-1	Ø4mm
6298-2	Ø8mm



6298-1



6298-2

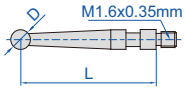


STYLI FOR DIAL TEST INDICATORS

Code	For dial test indicator	Material of contact point	L	D
6284-1	2380-08 2398-08 2381-08 2399-08	steel	13.5mm	SØ1mm
6284-31		ruby	13.5mm	SØ1mm
6284-3		carbide	13.5mm	SØ2mm
6284-4		ruby	13.5mm	SØ2mm
6284-8		carbide	13.5mm	SØ3mm
6284-21	2380-02 2381-02 2381-021	steel	12.5mm	SØ1mm
6284-22		carbide	12.5mm	SØ2mm
6284-24		ruby	12.5mm	SØ2mm
6284-23		carbide	12.5mm	SØ3mm
6284-61	2386-16A 2480-16	steel	13.5mm	SØ1mm
6284-62		carbide	13.5mm	SØ2mm
6284-63		ruby	13.5mm	SØ2mm
6284-64		carbide	13.5mm	SØ3mm
6284-81	2383-08A	steel	27.4mm	SØ1mm
6284-82		carbide	27.4mm	SØ2mm
6284-83		ruby	27.4mm	SØ2mm
6284-84		carbide	27.4mm	SØ3mm



6284-3



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DIGITAL INDICATORS (STANDARD TYPE)

DATA OUTPUT

INSPECTION CERTIFICATE

POPULAR MODEL



2112-10



2112-251

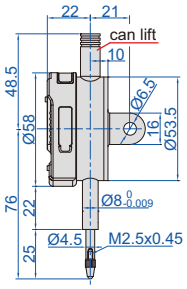


2112-25P

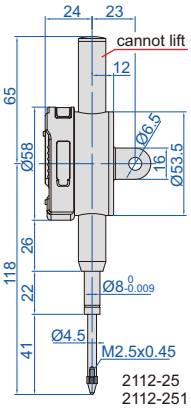


2112-501

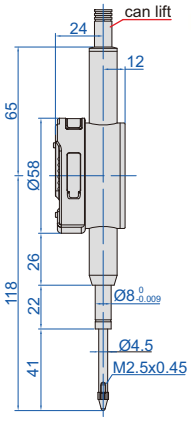
Unit: mm



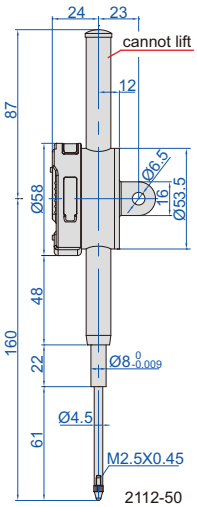
2112-10
2112-101



2112-25
2112-251



2112-25P
2112-251P



2112-50
2112-501

- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Switchable high/low frequency measurement mode, high frequency mode is suitable for high speed moving of spindle and has large power consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2112-101F*	12.7mm/0.5"	5μm	2μm	1.5N	flat back
2112-251F*	25.4mm/1"	5μm	3μm	2.2N	flat back
2112-501F*	50.8mm/2"	6μm	3μm	2.5N	flat back
2112-101*	12.7mm/0.5"	5μm	2μm	1.5N	lug back
2112-251*	25.4mm/1"	5μm	3μm	2.2N	lug back
2112-501*	50.8mm/2"	6μm	3μm	2.5N	lug back
2112-251P*	25.4mm/1"	5μm	3μm	2.2N	flat back, with lift cap
2112-501P*	50.8mm/2"	6μm	3μm	2.5N	flat back, with lift cap

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2112-10F*	12.7mm/0.5"	20μm	10μm	1.5N	flat back
2112-25F*	25.4mm/1"	20μm	10μm	2.2N	flat back
2112-50F*	50.8mm/2"	30μm	10μm	2.5N	flat back
2112-10*	12.7mm/0.5"	20μm	10μm	1.5N	lug back
2112-25*	25.4mm/1"	20μm	10μm	2.2N	lug back
2112-50*	50.8mm/2"	30μm	10μm	2.5N	lug back
2112-25P*	25.4mm/1"	20μm	10μm	2.2N	flat back, with lift cap
2112-50P*	50.8mm/2"	30μm	10μm	2.5N	flat back, with lift cap

*Supplied with manufacturer inspection certificate

2112-251P/501P/25P/50P



spindle lift knob is included



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DATA OUTPUT

INSPECTION CERTIFICATE

METRIC DIGITAL INDICATORS



2116-10



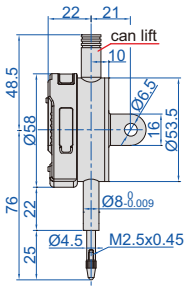
2116-251



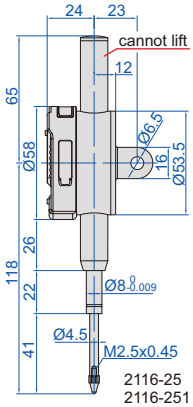
2116-251P



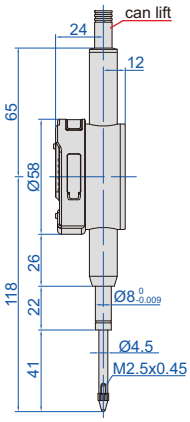
2116-501



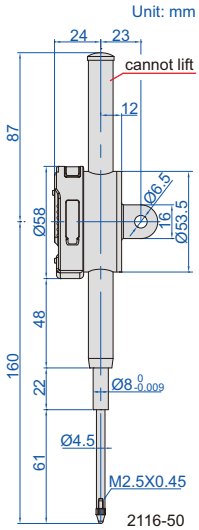
2116-10
2116-101



2116-25
2116-251



2116-25P
2116-251P



2116-50
2116-501

- Button function: on/off, zero, data preset, change measuring direction, absolute/incremental measurement
- Switchable high/low frequency measurement mode, high frequency mode is suitable for high speed moving of spindle and has large power consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

Resolution 0.001mm

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2116-101F*	12.7mm	5μm	2μm	1.5N	flat back
2116-251F*	25.4mm	5μm	3μm	2.2N	flat back
2116-501F*	50.8mm	6μm	3μm	2.5N	flat back
2116-101*	12.7mm	5μm	2μm	1.5N	lug back
2116-251*	25.4mm	5μm	3μm	2.2N	lug back
2116-501*	50.8mm	6μm	3μm	2.5N	lug back
2116-251P*	25.4mm	5μm	3μm	2.2N	flat back, with lift cap
2116-501P*	50.8mm	6μm	3μm	2.5N	flat back, with lift cap

Resolution 0.01mm

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2116-10F*	12.7mm	20μm	10μm	1.5N	flat back
2116-25F*	25.4mm	20μm	10μm	2.2N	flat back
2116-50F*	50.8mm	30μm	10μm	2.5N	flat back
2116-10*	12.7mm	20μm	10μm	1.5N	lug back
2116-25*	25.4mm	20μm	10μm	2.2N	lug back
2116-50*	50.8mm	30μm	10μm	2.5N	lug back
2116-25P*	25.4mm	20μm	10μm	2.2N	flat back, with lift cap
2116-50P*	50.8mm	30μm	10μm	2.5N	flat back, with lift cap

*Supplied with manufacturer inspection certificate

2116-251P/501P/25P/50P



spindle lift knob is included



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DIGITAL INDICATORS (ADVANCED TYPE)

INSPECTION CERTIFICATE

DATA OUTPUT


2103-10


2104-25


2104-25P

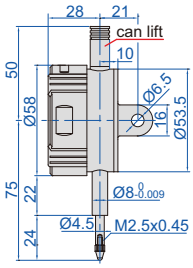

2103-50

analog pointer

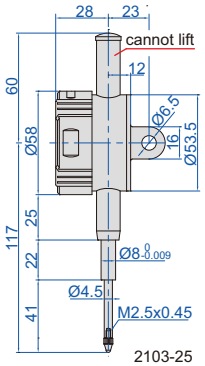


spindle lift knob is included

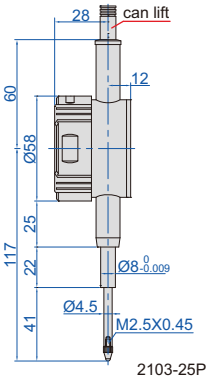




2103-10
2104-10

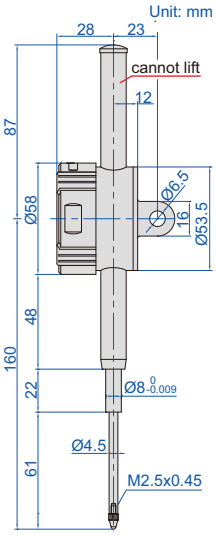


2103-25
2104-25



2103-25P
2104-25P

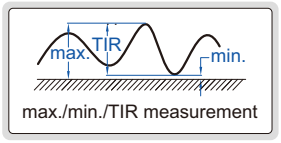
Unit: mm



2103-50
2104-50

- Reading in digital and analog
- Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable), data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

max./min./TIR

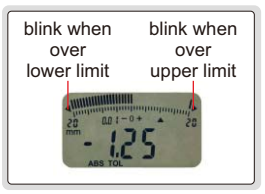


max./min./TIR measurement

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2103-10F*	12.7mm/0.5"	5μm	2μm	1.5N	flat back
2103-25F*	25.4mm/1"	5μm	3μm	2.2N	flat back
2103-50F*	50.8mm/2"	6μm	3μm	2.5N	flat back
2103-10*	12.7mm/0.5"	5μm	2μm	1.5N	lug back
2103-25*	25.4mm/1"	5μm	3μm	2.2N	lug back
2103-50*	50.8mm/2"	6μm	3μm	2.5N	lug back
2103-25P*	25.4mm/1"	5μm	3μm	2.2N	flat back, with lift cap
2103-50P*	50.8mm/2"	6μm	3μm	2.5N	flat back, with lift cap

alarm when over tolerance



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2104-10F*	12.7mm/0.5"	20μm	10μm	1.5N	flat back
2104-25F*	25.4mm/1"	20μm	10μm	2.2N	flat back
2104-50F*	50.8mm/2"	30μm	10μm	2.5N	flat back
2104-10*	12.7mm/0.5"	20μm	10μm	1.5N	lug back
2104-25*	25.4mm/1"	20μm	10μm	2.2N	lug back
2104-50*	50.8mm/2"	30μm	10μm	2.5N	lug back
2104-25P*	25.4mm/1"	20μm	10μm	2.2N	flat back, with lift cap
2104-50P*	50.8mm/2"	30μm	10μm	2.5N	flat back, with lift cap

*Supplied with manufacturer inspection certificate



display can be rotated by 320°

2103-25P/50P
2104-25P/50P



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DIGITAL INDICATORS (WITH TRANSMISSION BUTTON AND SIGNAL LIGHT)

INSPECTION CERTIFICATE

DATA OUTPUT



2138-10



2139-25



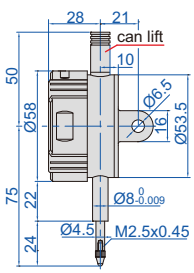
2139-25P



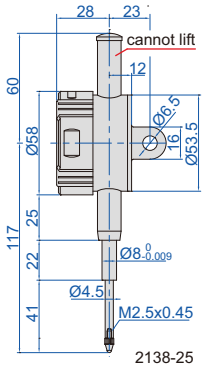
2138-50

spindle lift knob is included

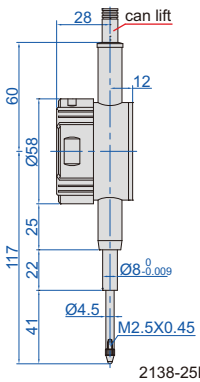




2138-10
2139-10

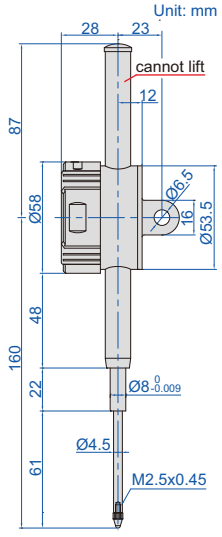


2138-25
2139-25



2138-25P
2139-25P

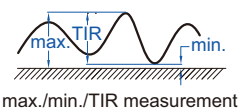
Unit: mm



2138-50
2139-50

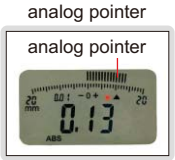
- Reading in digital and analog
- Display can be rotated by 320°
- Button function: on/off, zero, tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement, data output
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (flat back: code **7315-51** page 5, **7302-40M** page 13, **7305-40M** page 9; lug back: code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

max./min./TIR



max./min./TIR measurement

analog pointer

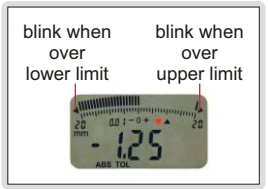


Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2138-10F*	12.7mm/0.5"	5μm	2μm	1.5N	flat back
2138-25F*	25.4mm/1"	5μm	3μm	2.2N	flat back
2138-50F*	50.8mm/2"	6μm	3μm	2.5N	flat back
2138-10*	12.7mm/0.5"	5μm	2μm	1.5N	lug back
2138-25*	25.4mm/1"	5μm	3μm	2.2N	lug back
2138-50*	50.8mm/2"	6μm	3μm	2.5N	lug back
2138-25P*	25.4mm/1"	5μm	3μm	2.2N	flat back, with lift cap
2138-50P*	50.8mm/2"	6μm	3μm	2.5N	flat back, with lift cap

VIDEO

alarm when over tolerance



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2139-10F*	12.7mm/0.5"	20μm	10μm	1.5N	flat back
2139-25F*	25.4mm/1"	20μm	10μm	2.2N	flat back
2139-50F*	50.8mm/2"	30μm	10μm	2.5N	flat back
2139-10*	12.7mm/0.5"	20μm	10μm	1.5N	lug back
2139-25*	25.4mm/1"	20μm	10μm	2.2N	lug back
2139-50*	50.8mm/2"	30μm	10μm	2.5N	lug back
2139-25P*	25.4mm/1"	20μm	10μm	2.2N	flat back, with lift cap
2139-50P*	50.8mm/2"	30μm	10μm	2.5N	flat back, with lift cap

*Supplied with manufacturer inspection certificate



display can be rotated by 320°

2138-25P/50P
2129-25P/50P



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WATERPROOF DIGITAL INDICATORS

WATERPROOF

DATA OUTPUT

INSPECTION CERTIFICATE

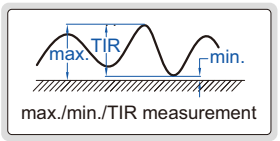
alarm when over tolerance



spindle lift knob is included (except **2115-101/101F, 2115-10/10F**)



max./min./TIR





2115-10

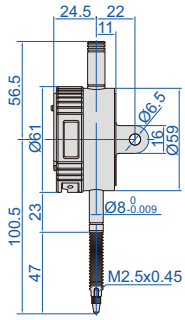


2115-25

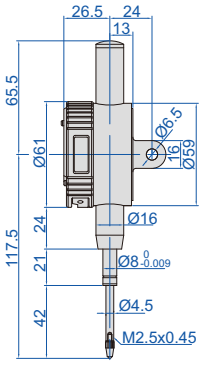


2115-50

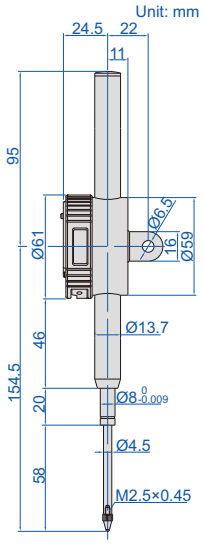
- Dust/waterproof
- Button function: on/off, zero, mm/inch, data preset, tolerance, change measuring direction, max./min./TIR measurement, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)



2115-10
2115-101



2115-25
2115-251



2115-50
2115-501

Resolution 0.001mm/0.00005"

Code	Range	Dust/waterproof	Accuracy	Hysteresis	Remark
2115-101*	12.7mm/0.5"	IP65	5μm	2μm	lug back
2115-251*	25.4mm/1"	IP54	5μm	3μm	lug back
2115-501*	50.8mm/2"	IP54	6μm	3μm	lug back
2115-101F*	12.7mm/0.5"	IP65	5μm	2μm	flat back
2115-251F*	25.4mm/1"	IP54	5μm	3μm	flat back
2115-501F*	50.8mm/2"	IP54	6μm	3μm	flat back

Resolution 0.01mm/0.0005"

Code	Range	Dust/waterproof	Accuracy	Hysteresis	Remark
2115-10*	12.7mm/0.5"	IP65	20μm	10μm	lug back
2115-25*	25.4mm/1"	IP54	20μm	10μm	lug back
2115-50*	50.8mm/2"	IP54	30μm	10μm	lug back
2115-10F*	12.7mm/0.5"	IP65	20μm	10μm	flat back
2115-25F*	25.4mm/1"	IP54	20μm	10μm	flat back
2115-50F*	50.8mm/2"	IP54	30μm	10μm	flat back

*Supplied with manufacturer inspection certificate

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VIDEO

DATA OUTPUT

INSPECTION CERTIFICATE

ADJUSTABLE COEFFICIENT DIGITAL INDICATORS



2501-10



2501-25

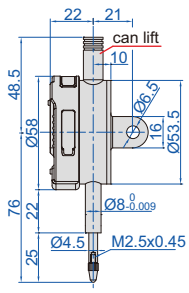


2501-25P

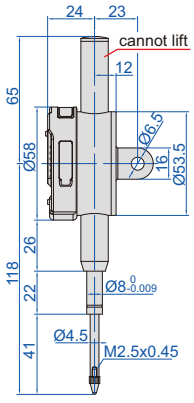


2501-50

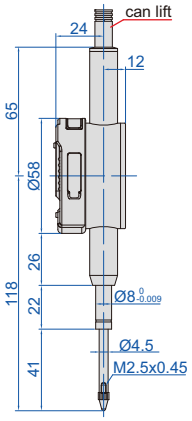
Unit: mm



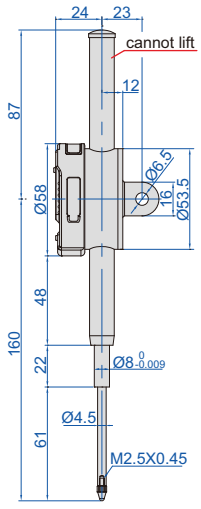
2501-10



2501-25



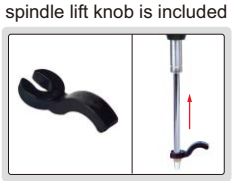
2501-25P



2501-50

- DISPLAY READING = COEFFICIENT X SPINDLE MOVEMENT.
  The coefficient can be adjusted from 0 to 9.9999.
  For example, coefficient is 4.5562, spindle moves 3.60mm,
  display reading is 4.5562 x 3.60=16.40mm
- Button function: on/off, zero, data preset, inch/mm,
  coefficient set, measuring direction change
- Switchable high/low frequency measurement mode, high frequency
  mode is suitable for high speed moving of spindle and has large power
  consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable
  (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9),
  backs (page 222~223), contact points (page 219~221)

spindle lift knob is included



2501-25P/50P



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2501-10*	12.7mm/0.5"	20μm	10μm	1.5N	lug back
2501-25*	25.4mm/1"	20μm	10μm	2.2N	lug back
2501-50*	50.8mm/2"	30μm	10μm	2.5N	lug back
2501-10F*	12.7mm/0.5"	20μm	10μm	1.5N	flat back
2501-25F*	25.4mm/1"	20μm	10μm	2.2N	flat back
2501-50F*	50.8mm/2"	30μm	10μm	2.5N	flat back
2501-25P*	25.4mm/1"	20μm	10μm	2.2N	flat back, with lift cap
2501-50P*	50.8mm/2"	30μm	10μm	2.5N	flat back, with lift cap

*Supplied with manufacturer inspection certificate

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DIGITAL INDICATORS FOR BORE GAGES (WITH TRANSMISSION BUTTON AND SIGNAL LIGHT)

INSPECTION CERTIFICATE

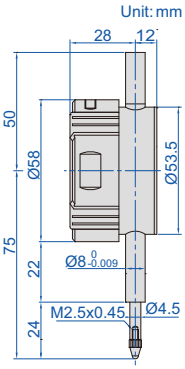
THE ORIGINAL DATA REMAINS AFTER POWER OFF

DATA OUTPUT





2108-10F



VIDEO

- Specially designed for bore gages
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after imputing the size of setting ring
- Reading in digital and analog
- Display can be rotated by 320º
- Button function: on/off, minimum value tracking, calibration, data preset, inch/metric conversion
- Data remains after power off, no need to recalibrate after power on
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-51** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221), spindle lift knob (code **7332**)

analog pointer



read the diameter directly, after imputing the size of setting ring.



the minimum value tracking function can find the diameter automatically.



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2108-10F*	12.7mm/0.5"	0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	20µm	10µm	flat back
2108-101F*	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back

*Supplied with manufacturer inspection certificate

WATERPROOF DIGITAL INDICATORS FOR BORE GAGES

IP54 WATERPROOF

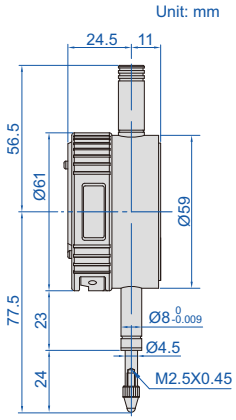
DATA OUTPUT

THE ORIGINAL DATA REMAINS AFTER POWER OFF

INSPECTION CERTIFICATE

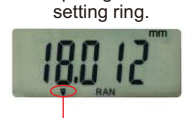


2137-10F

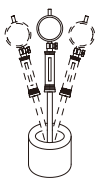


- Specially designed for bore gages
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after imputing the size of setting ring
- Button function: on/off, minimum value tracking, calibration, data preset, inch/metric conversion
- Data remains after power off, no need to recalibrate after power on
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221), spindle lift knob (code **7332**)

read the diameter directly, after imputing the size of setting ring.



the minimum value tracking function can find the diameter automatically.



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2137-10F*	12.7mm/0.5"	0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	20µm	10µm	flat back
2137-101F*	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back

*Supplied with manufacturer inspection certificate

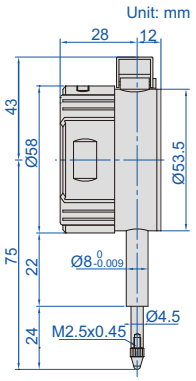
DATA OUTPUT

INSPECTION CERTIFICATE

DIGITAL INDICATORS WITH LIFTING LEVER



2109-10

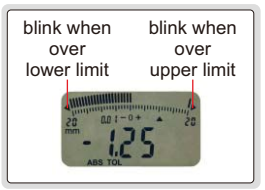


- Reading in digital and analog
- Display can be rotated by 320º
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

analog pointer



alarm when over tolerance



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2109-10 *	10mm/0.4"	0.01mm/0.0005"	20μm	10μm	flat back
2109-101 *	10mm/0.4"	0.001mm/0.00005"	5μm	2μm	flat back

*Supplied with manufacturer inspection certificate

DATA OUTPUT

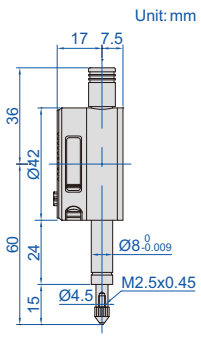
INSPECTION CERTIFICATE

COMPACT DIGITAL INDICATORS

- Button function:
  in/mm: short press for inch/metric conversion
  long press to change measuring direction
  ABS: short press for absolute/incremental measurement
  long press to preset data
  0/ON: short press to turn on when power is off
  short press to set zero when power is on
  long press to turn off
- Keep preset data in memory after restart
- CR1632 battery, automatic power off
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), contact points (page 219~221)



2114-51F



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2114-5F *	5mm/0.2"	0.01mm/0.0005"	20μm	10μm	flat back
2114-51F *	5mm/0.2"	0.001mm/0.00005"	5μm	2μm	flat back

*Supplied with manufacturer inspection certificate

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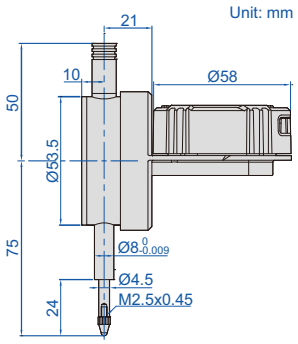
BACK PLUNGER TYPE DIGITAL INDICATORS

INSPECTION CERTIFICATE

DATA OUTPUT



2118-10



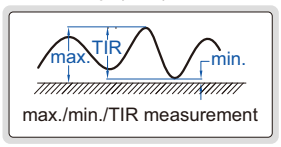
10

- Display can rotate 320º, and display direction is changeable
- Reading in digital and analog
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

spindle lift knob is included



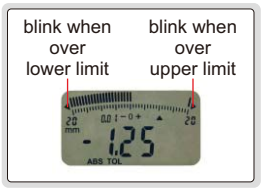
max./min./TIR



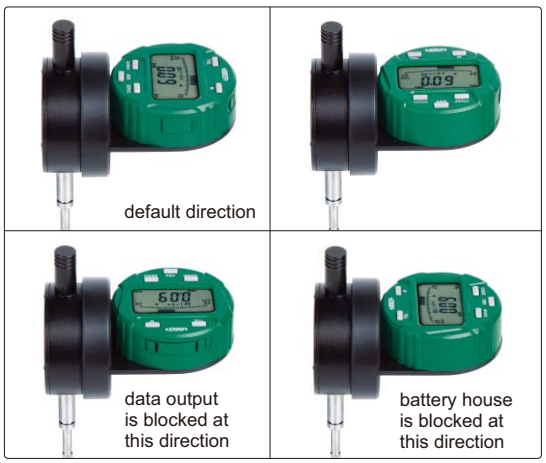
analog pointer



alarm when over tolerance



display direction is changeable



remark: to change above direction, 4 fixing screws on the back of display need to be removed first.

display can rotate 320º



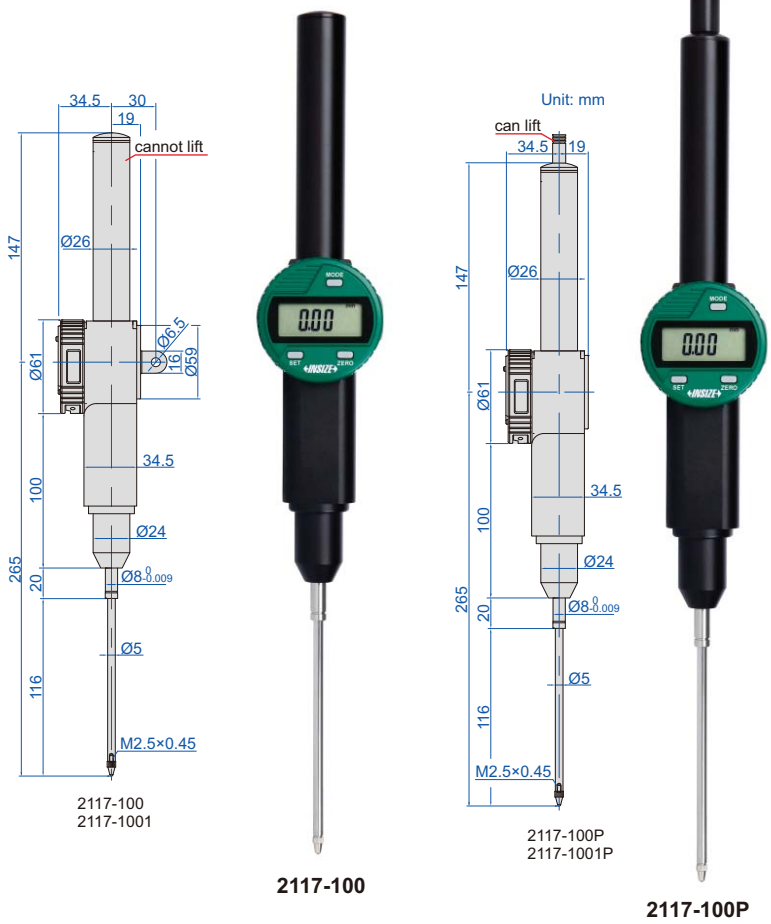
Code	Range	Resolution	Accuracy	Hysteresis	Remark
2118-10 *	12.7mm/0.5"	0.01mm/0.0005"	20μm	10μm	flat back
2118-101 *	12.7mm/0.5"	0.001mm/0.00005"	5μm	2μm	flat back

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LARGE STROKE DIGITAL INDICATORS

DATA OUTPUT



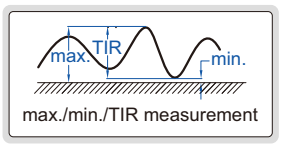
2117-100

2117-100P

- Button function: on/off, zero, mm/inch, data preset, tolerance, change measuring direction, max./min./TIR measurement, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off
- Maximum measuring force: 3.2N
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 222~223), contact points (page 219~221)

10

max./min./TIR



max./min./TIR measurement

spindle lift knob is included



alarm when over tolerance



2117-100P/1001P



Resolution 0.01mm/0.0005"

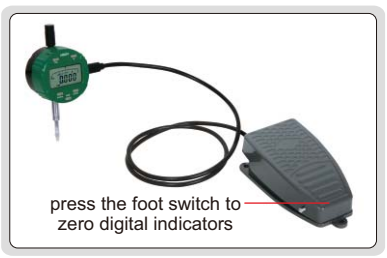
Code	Range	Accuracy	Hysteresis	Remark
2117-100	100mm/4"	30μm	10μm	lug back
2117-100P	100mm/4"	30μm	10μm	flat back, with lift cap

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Remark
2117-1001	100mm/4"	9μm	3μm	lug back
2117-1001P	100mm/4"	9μm	3μm	flat back, with lift cap

ZEROING FOOT SWITCH

application





7360-1M

- For zeroing of digital indicators

Code	Description	Interface of digital indicators	Applicable products
7360-1M	zeroing foot switch with cable (length 2.5m)		 for digital indicators

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INDUCTIVE DIGITAL COMPARATOR

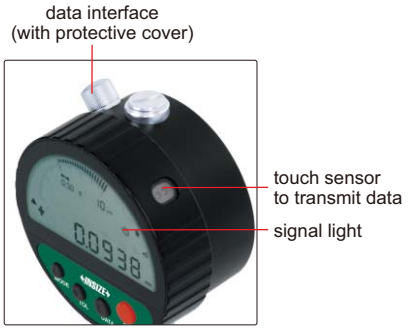
ATTENTION: RECHARGEABLE BATTERY, FOR 12 HOURS CONTINUOUS WORKING

IP54 WATERPROOF

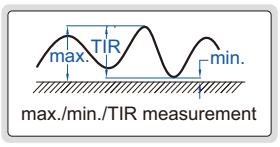
DATA OUTPUT



2149-2



max./min./TIR



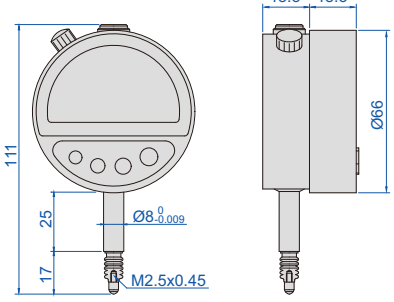
wireless receiver (**optional**)



printer (**optional**)



Unit: mm



- Built-in wireless transmission
- IP54 dust/waterproof
- Reading in digital and analog
- Display can be rotated by 320°
- Can store 10 set parameters, and the parameter can be searched and recalled
- 999 groups value can be stored
- Touch sensor: use the sensor to transmit data, avoiding press the button to cause deformation of the dial indicator stand and affect the zero position
- Button function: on/off, zero, data hold, measuring direction change, inch/metric conversion, data preset, absolute/incremental measurement, max./min./TIR measurement, tolerance Go and No-Go display, data output, analog pointer resolution and range change, print data
- Power: rechargeable battery, for 12 hours continuous working
- Ruby probe
- Data output
- Optional accessory: wireless receiver (code **2149-RE**, transmission distance is 2 meters), printer (code **ISF-DF-PRINTER**)

Code	Range	Resolution	Accuracy	Hysteresis	Repeatability	Measuring force
2149-2	2mm/0.08"	0.1μm/0.000005"	0.5μm	0.2μm	0.3μm	0.8-1N

CONTINUOUS DATA COLLECTION CAN BE CUSTOMIZED (PRESS "DATA" BUTTON TO START CONTINUOUS COLLECTION, PRESS AGAIN TO STOP; COLLECTION FREQUENCY CAN BE CUSTOMIZED, THE FASTEST DATA COLLECTION IS 10PCS PER SECOND)

INSPECTION CERTIFICATE

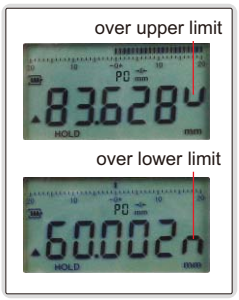
WIRELESS HIGH PRECISION DIGITAL INDICATORS

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

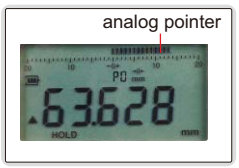
ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

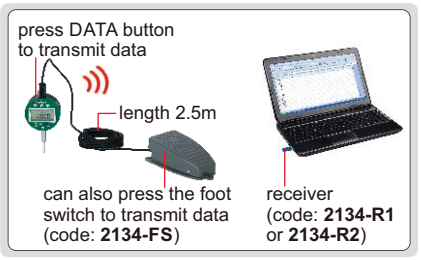
alarm when over tolerance



analog pointer



transmit data





2134-10

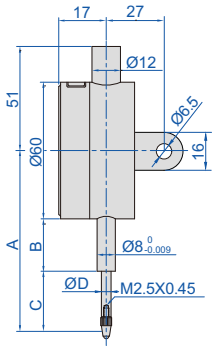


2134-25

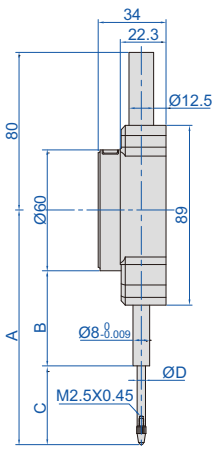


2134-50

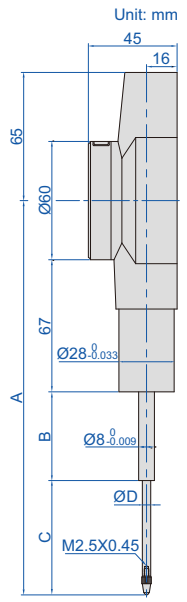
- Built-in wireless transmission, Zigbee singal
- Linear ball bearings for ten million times use
- Absolute encoder, the original data remains after power off
- Reading in digital and analog
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Optional accessory: contact points (page 219~221), foot switch, code: **2134-FS**
  wireless receiver, code: **2134-R1** (keyboard format)
  2134-R2 (serial port format)



2134-10L
2134-101L



2134-25
2134-251



2134-50

Standard precision

Carbide probe

Adjustable resolution: 0.0005mm/0.00002"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2134-10*	12.7mm/0.5"	3μm	1.5μm	75.4mm	20.6mm	24.8mm	5mm	flat back
2134-10L*	12.7mm/0.5"	3μm	1.5μm	75.4mm	20.6mm	24.8mm	5mm	lug back
2134-25*	25.4mm/1"	3μm	1.5μm	109.5mm	38.5mm	41mm	5mm	flat back
2134-50*	50.8mm/2"	3μm	1.5μm	201mm	32mm	72mm	4.5mm	flat back

High precision

Ruby probe

Adjustable resolution: 0.0002mm/0.00001"
0.001mm/0.00005"
0.01mm/0.0005"

(mm)

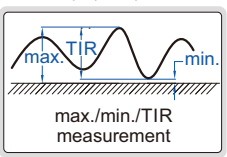
Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2134-101*	12.7mm/0.5"	1.5μm	1μm	77.4	26	21.4	4	flat back
2134-101L*	12.7mm/0.5"	1.5μm	1μm	77.4	26	21.4	4	lug back
2134-251*	25.4mm/1"	1.8μm	1μm	116.1	42.5	44	4	flat back

*Supplied with manufacturer inspection certificate

spindle lift knob is included



max./min./TIR



max./min./TIR measurement

HIGH PRECISION DIGITAL INDICATORS

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

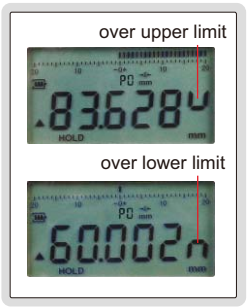
ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

DATA OUTPUT

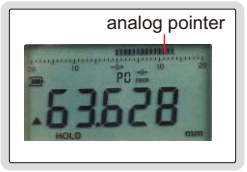
ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

INSPECTION CERTIFICATE

alarm when over tolerance



analog pointer





2133-10



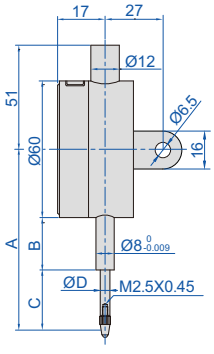
2133-25



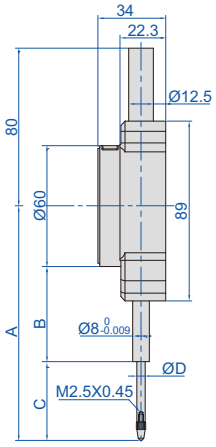
2133-50

- Linear ball bearings for ten million times use
- Absolute encoder, the original data remains after power off
- Reading in digital and analog
- Data output
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Optional accessory: contact points (page 219~221), wireless transmitter, code **7315-60** page 5 data output cable (keyboard format), code **7302-60** page 13 data output cable (serial port format), code **7305-G60** page 11 (cable length 3m, optional cable length maximum 15m; RS232 protocol, optional RS485 protocol)

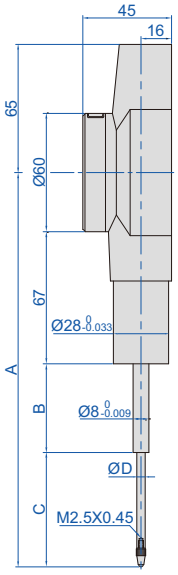
Unit: mm



2133-10L
2133-101L



2133-25
2133-251



2133-50

Standard precision

Carbide probe

Adjustable resolution: 0.0005mm/0.00002"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2133-10*	12.7mm/0.5"	3μm	1.5μm	75.4mm	20.6mm	24.8mm	5mm	flat back
2133-10L*	12.7mm/0.5"	3μm	1.5μm	75.4mm	20.6mm	24.8mm	5mm	lug back
2133-25*	25.4mm/1"	3μm	1.5μm	109.5mm	38.5mm	41mm	5mm	flat back
2133-50*	50.8mm/2"	3μm	1.5μm	201mm	32mm	72mm	4.5mm	flat back

spindle lift knob is included



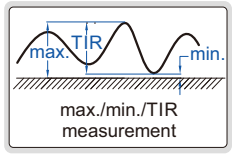
High precision

Ruby probe

Adjustable resolution: 0.0002mm/0.00001"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2133-101*	12.7mm/0.5"	1.5μm	1μm	77.4mm	26mm	21.4mm	4mm	flat back
2133-101L*	12.7mm/0.5"	1.5μm	1μm	77.4mm	26mm	21.4mm	4mm	lug back
2133-251*	25.4mm/1"	1.8μm	1μm	116.1mm	42.5mm	44mm	4mm	flat back

max./min./TIR



max./min./TIR measurement

*Supplied with manufacturer inspection certificate

HIGH PRECISION DIGITAL INDICATORS

DATA OUTPUT | Ø28MM STEM SUITABLE FOR REINFORCED CLAMPING | ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

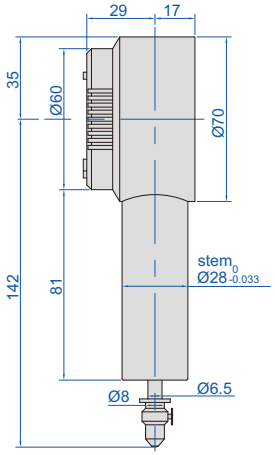
LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE | ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

- Linear ball bearings for ten million times use
- Ø28mm stem suitable for reinforced clamping
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
  0.001mm/0.00005"
  0.01mm/0.0005"
- Reading in digital and analog
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Ruby probe

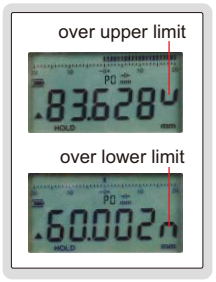


2140-6

Unit: mm



alarm when over tolerance



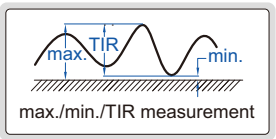
analog pointer



With data interface
Optional accessory:
wireless transmitter, code **7315-60** page 5
data output cable (keyboard format), code **7302-60** page 13
data output cable (serial port format), code **7305-G60** page 11
(cable length 3m, optional cable length maximum 15m; RS232 protocol, optional RS485 protocol)

Code	Range	Accuracy	Hysteresis	Remark
2140-6	0-6mm/0-0.24"	1.6μm	0.8μm	flat back

max./min./TIR



Built-in wireless
Optional accessory:
wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Hysteresis	Remark
2140-6WL*	0-6mm/0-0.24"	1.6μm	0.8μm	flat back

*Continuous data collection can be customized (press "DATA" button to start continuous collection, press again to stop; collection frequency can be customized, the fastest data collection is 10 pcs per second)

wireless receiver
2134-R1, 2134-R2 (optional)



PRECISION DIAL INDICATORS

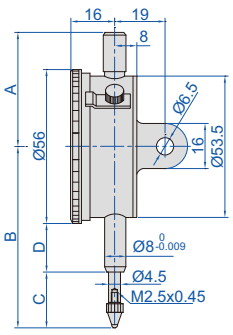
JEWELED BEARING | INSPECTION CERTIFICATE

- Graduation: 0.001mm
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2313-1A

Unit: mm



(mm)

Code	Range	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	A	B	C	D
2313-1FA*	1mm	5μm	2μm	0.2mm	0-100-0	flat back	45	62.5	19.5	15
2313-2FA*	2mm	6μm	2.5μm	0.2mm	0-100-0	flat back	45	62.5	19.5	15
2313-1A*	1mm	5μm	2μm	0.2mm	0-100-0	lug back	45	62.5	19.5	15
2313-2A*	2mm	6μm	2.5μm	0.2mm	0-100-0	lug back	45	62.5	19.5	15

*Supplied with manufacturer inspection certificate

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COMPACT DIAL INDICATORS

JEWELED BEARING

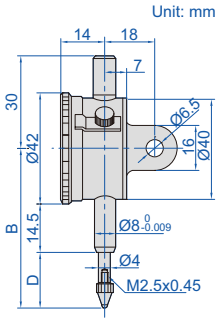
INSPECTION CERTIFICATE

- Meet DIN878
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2311-5

Unit: mm



(mm)

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D
2311-3F *	3mm	0.01mm	12μm	3μm	0.5mm	0-50	flat back	46	10.5
2311-5F *	5mm	0.01mm	14μm	3μm	0.5mm	0-50	flat back	48	12.5
2311-3 *	3mm	0.01mm	12μm	3μm	0.5mm	0-50	lug back	46	10.5
2311-5 *	5mm	0.01mm	14μm	3μm	0.5mm	0-50	lug back	48	12.5

*Supplied with manufacturer inspection certificate

10

DIAL INDICATORS (STANDARD TYPE)

JEWELED BEARING

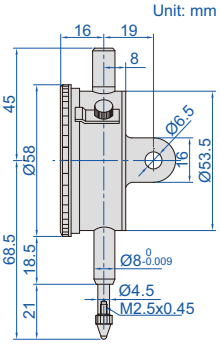
INSPECTION CERTIFICATE

- Meet DIN878
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2308-10A

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2308-3FA *	3mm	0.01mm	12μm	3μm	1mm	0-100	flat back
2308-5FA *	5mm	0.01mm	14μm	3μm	1mm	0-100	flat back
2308-10FA *	10mm	0.01mm	17μm	3μm	1mm	0-100	flat back
2308-3A *	3mm	0.01mm	12μm	3μm	1mm	0-100	lug back
2308-5A *	5mm	0.01mm	14μm	3μm	1mm	0-100	lug back
2308-10A *	10mm	0.01mm	17μm	3μm	1mm	0-100	lug back

*Supplied with manufacturer inspection certificate

DIAL INDICATORS (BASIC TYPE)

POPULAR MODEL

INSPECTION CERTIFICATE

- Meet DIN878
- Jeweled bearing
- Supplied with limit hands and bezel clamp
- Packed in carton box
- Optional accessory: backs (page 222~223), contact points (page 219~221)

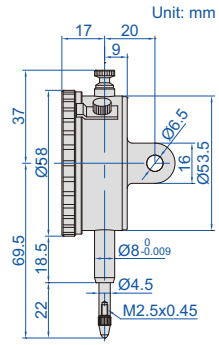
carton box





2301-10

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2301-10F *	10mm	0.01mm	17μm	3μm	1mm	0-100	flat back
2301-10 *	10mm	0.01mm	17μm	3μm	1mm	0-100	lug back with spare flat back

*Supplied with manufacturer inspection certificate

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REVERSE READING DIAL INDICATORS

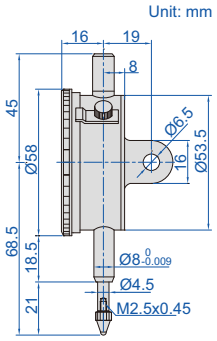
INSPECTION CERTIFICATE | JEWELED BEARING

- Meet DIN878
- Suitable for depth and step measurements
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2801-10

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2801-10F *	10mm	0.01mm	17μm	3μm	1mm	100-0	flat back
2801-10 *	10mm	0.01mm	17μm	3μm	1mm	100-0	lug back

*Supplied with manufacturer inspection certificate

10

SHOCKPROOF DIAL INDICATORS

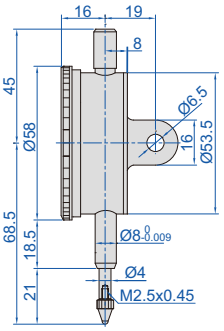
INSPECTION CERTIFICATE | SHOCK PROOF | JEWELED BEARING

- Meet DIN878
- Shockproof
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2314-10A

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2314-3FA *	3mm	0.01mm	12μm	3μm	1mm	0-100	flat back
2314-5FA *	5mm	0.01mm	14μm	3μm	1mm	0-100	flat back
2314-10FA *	10mm	0.01mm	17μm	3μm	1mm	0-100	flat back
2314-3A *	3mm	0.01mm	12μm	3μm	1mm	0-100	lug back
2314-5A *	5mm	0.01mm	14μm	3μm	1mm	0-100	lug back
2314-10A *	10mm	0.01mm	17μm	3μm	1mm	0-100	lug back

*Supplied with manufacturer inspection certificate

WATERPROOF DIAL INDICATORS

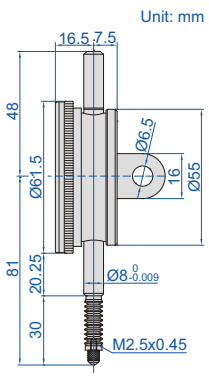
IP54 WATERPROOF | INSPECTION CERTIFICATE

- Meet DIN878
- IP54 dust/waterproof
- With limit pointers
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2324-10A

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2324-10FA *	10mm	0.01mm	17μm	3μm	1mm	0-100	flat back
2324-10A *	10mm	0.01mm	17μm	3μm	1mm	0-100	lug back

*Supplied with manufacturer inspection certificate

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DIAL INDICATORS (LONG STROKE)

INSPECTION CERTIFICATE

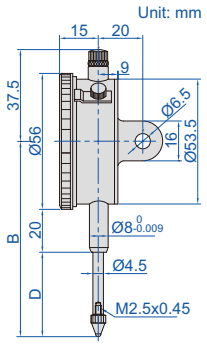
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2310-30A

(mm)

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D
2310-20FA*	20mm	0.01mm	25μm	5μm	1mm	0-100	flat back	83	35
2310-30FA*	30mm	0.01mm	35μm	7μm	1mm	0-100	flat back	88	40
2310-20A*	20mm	0.01mm	25μm	5μm	1mm	0-100	lug back	83	35
2310-30A*	30mm	0.01mm	35μm	7μm	1mm	0-100	lug back	88	40



*Supplied with manufacturer inspection certificate

DIAL INDICATORS (LONG STROKE, BASIC TYPE)

POPULAR MODEL

INSPECTION CERTIFICATE

- Supplied with limit pointers and bezel clamp
- Packed in carton box
- Optional accessory: backs (page 222~223), contact points (page 219~221)

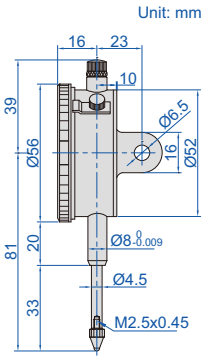
carton box





2302-25

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2302-25F*	25mm	0.01mm	35μm	7μm	1mm	0-100	flat back
2302-25*	25mm	0.01mm	35μm	7μm	1mm	0-100	lug back with spare flat back



*Supplied with manufacturer inspection certificate

DOUBLE FACE DIAL INDICATOR

INSPECTION CERTIFICATE

- Meet DIN878
- Read from both sides
- Jeweled bearing
- Supplied with limit pointers
- Optional accessory: contact points (page 219~221)



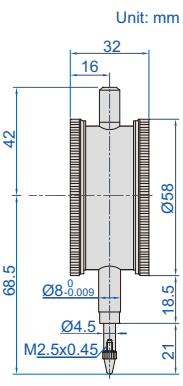
front

2328-10



back

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
2328-10*	10mm	0.01mm	17μm	3μm	1mm	0-100



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DIAL INDICATORS (GRADUATION 0.1mm)

- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 222~223), contact points (page 219~221)

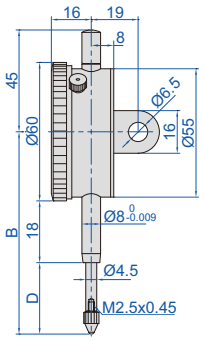


2318-30

(mm)

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D
2318-10F	10mm	0.1mm	40μm	20μm	10mm	0-10	flat back	70	20
2318-20F	20mm	0.1mm	50μm	20μm	10mm	0-10	flat back	85	35
2318-25F	25mm	0.1mm	60μm	20μm	10mm	0-10	flat back	85	35
2318-30F	30mm	0.1mm	60μm	20μm	10mm	0-10	flat back	90	40
2318-10	10mm	0.1mm	40μm	20μm	10mm	0-10	lug back	70	20
2318-20	20mm	0.1mm	50μm	20μm	10mm	0-10	lug back	85	35
2318-25	25mm	0.1mm	60μm	20μm	10mm	0-10	lug back	85	35
2318-30	30mm	0.1mm	60μm	20μm	10mm	0-10	lug back	90	40

Unit: mm



10

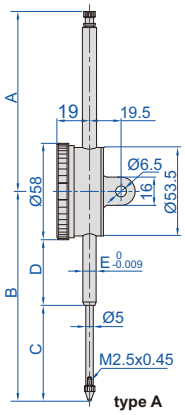
INSPECTION CERTIFICATE | JEWELED BEARING | SHOCK PROOF

DIAL INDICATORS (LONG STROKE)

- Shockproof
- Jeweled bearing
- Supplied with limit pointers
- Optional accessory: backs (page 222~223), contact points (page 219~221)

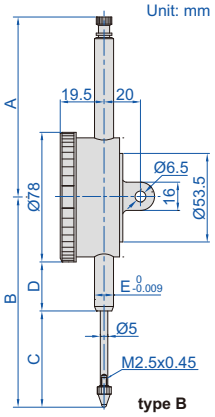


2309-50



type A

Unit: mm



type B

stem clamp Ø10mm for **2309-100D**



back of type B



(mm)

Code	Type	A	B	C	D	E
2309-30F	A	37.5	89.5	40.9	19.5	Ø8
2309-30	A	37.5	89.5	40.9	19.5	Ø8
2309-50	A	108.3	126.2	57.7	39.5	Ø8
2309-50D	B	108.3	126.2	57.7	29.5	Ø8
2309-80	A	138.4	168.4	88	51.3	Ø8
2309-80D	B	138.4	168.4	88	41.3	Ø8
2309-100D	B	167.6	207.8	108	60.8	Ø10

Code	Range	Graduation	Type	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2309-30F *	30mm	0.01mm	A	35μm	7μm	1mm	0-100	flat back
2309-30 *	30mm	0.01mm	A	35μm	7μm	1mm	0-100	lug back
2309-50 *	50mm	0.01mm	A	40μm	8μm	1mm	0-100	flat back with spare lug back
2309-50D *	50mm	0.01mm	B	40μm	8μm	1mm	0-100	flat back with spare lug back
2309-80	80mm	0.01mm	A	50μm	9μm	1mm	0-100	flat back with spare lug back
2309-80D	80mm	0.01mm	B	50μm	9μm	1mm	0-100	flat back with spare lug back
2309-100D	100mm	0.01mm	B	50μm	9μm	1mm	0-100	flat back with spare lug back

Note: 1) **2309-80, 2309-80D** and **2309-100D** can only be used vertically
2) **2309-100D** is supplied with stem clamp Ø10mm for magnetic stands (code **6200-60**, **6201-60**, **6202-80**, **6202-100**)
3) **2309-30** and **2309-30F** can not accept optional backs (page 222~223)

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ONE REVOLUTION DIAL INDICATORS

SHOCK PROOF

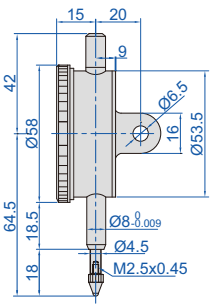
INSPECTION CERTIFICATE

- Meet DIN878
- Eliminate the possibility of reading errors due to miscounting
- Shockproof
- Supplied with limit pointers
- Optional accessory: backs (page 222~223), contact points (page 219~221)



2316-05

Unit: mm



Code	Range	Dial indicator stroke	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2316-05F*	0.5mm	5mm	0.01mm	9μm	3μm	25-0-25	flat back
2316-1F*	1mm	5mm	0.01mm	9μm	3μm	50-0-50	flat back
2316-05*	0.5mm	5mm	0.01mm	9μm	3μm	25-0-25	lug back
2316-1*	1mm	5mm	0.01mm	9μm	3μm	50-0-50	lug back

*Supplied with manufacturer inspection certificate

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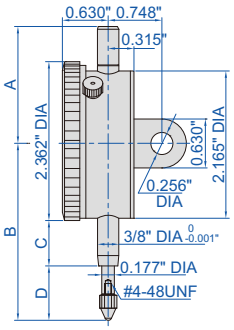
INCH DIAL INDICATORS

INSPECTION CERTIFICATE

- Meet ASME B89.1.10M-2001
- With lug back
- Supplied with limit pointers and bezel clamp



2307-1



Code	Range	Graduation	Accuracy		Range/rev	Dial reading
			First 2.5 rev	Overall		
2307-025*	0.25"	0.001"	±0.001"	±0.001"	0.1"	0-100
2307-05*	0.5"	0.001"	±0.001"	±0.002"	0.1"	0-100
2307-1*	1"	0.001"	±0.001"	±0.002"	0.1"	0-100
2307-2*	2"	0.001"	±0.001"	±0.004"	0.1"	0-100
2307-0255*	0.25"	0.0005"	±0.0005"	±0.0015"	0.05"	0-50
2307-055*	0.5"	0.0005"	±0.0005"	±0.0015"	0.05"	0-50
2307-105*	1"	0.0005"	±0.0005"	±0.002"	0.05"	0-50
2307-205*	2"	0.0005"	±0.0005"	±0.002"	0.05"	0-50

*Supplied with manufacturer inspection certificate

Range	A	B	C	D
0.25"	1.811"	2.953"	0.787"	0.984"
0.5"	1.811"	2.953"	0.787"	0.984"
1"	1.811"	3.346"	0.787"	1.378"
2"	4.370"	5.472"	1.969"	2.323"

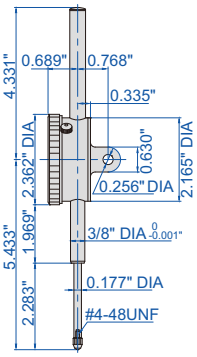
INCH LONG STROKE DIAL INDICATOR

INSPECTION CERTIFICATE

- Graduation 0.001"
- With lug back
- Supplied with limit pointers and bezel clamp



2326-2



Code	Range	Accuracy		Range/rev	Dial reading
		first 2.5 rev	overall		
2326-2*	2"	±0.001"	±0.004"	0.1"	0-100

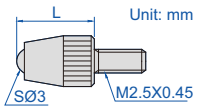
*Supplied with manufacturer inspection certificate

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BALL POINTS



6282-0101

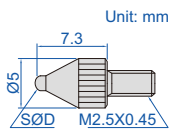


Code	Material of measuring face	L (mm)
6282-0101	carbide	7.3
6282-0103	ceramic	7.3
6282-0104	carbide	8.3
6282-0106	carbide	12.1
6282-0107	carbide	14
6282-0108	carbide	15
6282-0109	ceramic	15
6282-0110	carbide	17

Code	Material of measuring face	L (mm)
6282-0111	carbide	19.3
6282-0112	carbide	20
6282-0113	ceramic	20
6282-0114	carbide	22
6282-0115	carbide	25
6282-0116	ceramic	25
6282-0117	carbide	30
6282-0118	ceramic	30

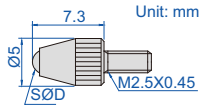


6282-0301





6282-0304



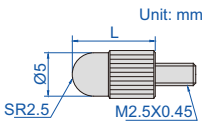
Code	Material of measuring face	SØD (mm)
6282-0301	steel	1
6282-0302	carbide	1.5
6282-0303	carbide	1.8
6282-0304	carbide	2.5
6282-0305	carbide	4

10

SHELL TYPE POINTS



6282-0202



Code	Material of measuring face	L (mm)
6282-0202	steel	5
6282-0203	steel	10
6282-0205	steel	15

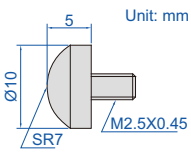
Code	Material of measuring face	L (mm)
6282-0207	steel	20
6282-0208	steel	25
6282-0210	steel	30

SPHERICAL POINT

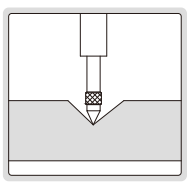
Code	Material of measuring face
6282-0401	steel



6282-0401



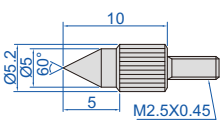
CONICAL POINTS



Code	Material of measuring face
6282-0601	steel
6282-0701	steel
6282-0801	steel
6282-0901	steel

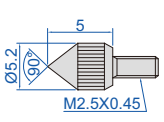


6282-0601



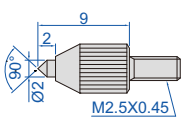


6282-0701



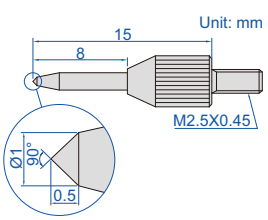


6282-0801





6282-0901

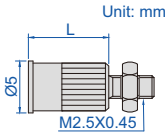


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FLAT POINTS



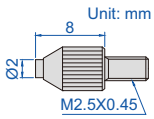
6282-1101



Code	Material of measuring face	L (mm)
6282-1101	steel	8
6282-1102	steel	10



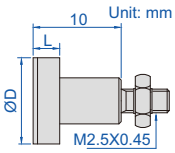
6282-1301



Code	Material of measuring face
6282-1301	carbide



6282-1201





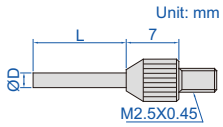
Code	Material of measuring face	ØD	L
6282-1201	steel	10mm	3mm
6282-1202	steel	15mm	4mm
6282-1203	steel	20mm	3mm
6282-1204	steel	25mm	4mm
6282-1205	steel	30mm	4mm

10

NEEDLE POINTS



6282-1711



(mm)

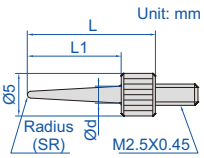
Code	Material of measuring face	ØD	L
6282-1701	steel	0.45	3
6282-1702	steel	0.45	5
6282-1703	carbide	1	3
6282-1704	carbide	1	5
6282-1705	carbide	1	8
6282-1706	carbide	1	10
6282-1707	carbide	1	20
6282-1708	carbide	1	40
6282-1709	carbide	1.5	5

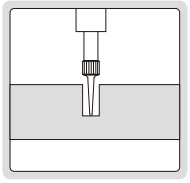
(mm)

Code	Material of measuring face	ØD	L
6282-1710	carbide	1.5	10
6282-1711	carbide	1.5	13
6282-1712	carbide	1.5	20
6282-1713	carbide	1.5	40
6282-1714	carbide	2	8
6282-1715	carbide	2	18
6282-1716	carbide	2	28
6282-1717	carbide	2	40



6282-1601





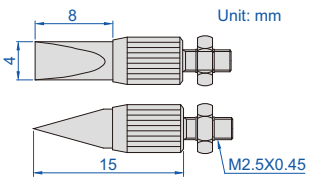
(mm)

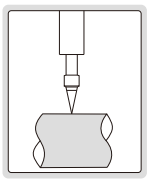
Code	Material of measuring face	L1	L	SR	Ød
6282-1601	steel	11	15	0.4	2
6282-1602	steel	13	17	0.2	2
6282-1603	steel	21	25	0.4	3
6282-1604	steel	31	35	0.4	3

KNIFE EDGE POINT



6282-1001





Code	Material of measuring face
6282-1001	steel

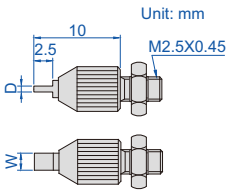
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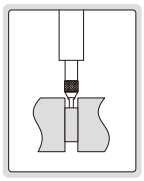
BLADE POINTS

Code	Material of measuring face	D	W
6282-1801	steel	0.4mm	2mm
6282-1802	steel	0.6mm	2mm
6282-1803	steel	1mm	4mm



6282-1801



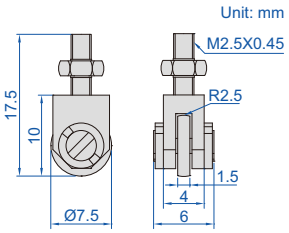


ROLLER POINT

Code	Material of measuring face
6282-1901	steel



6282-1901



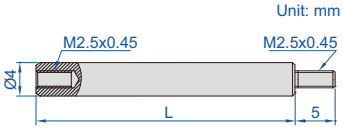
EXTENSION RODS

Code	Material	L (mm)
6282-2001	steel	10
6282-2002	steel	15
6282-2003	steel	20
6282-2004	steel	25
6282-2005	steel	30
6282-2006	steel	35
6282-2007	steel	40
6282-2008	steel	45
6282-2009	steel	50

Code	Material	L (mm)
6282-2010	steel	55
6282-2011	steel	60
6282-2012	steel	65
6282-2013	steel	70
6282-2014	steel	75
6282-2015	steel	80
6282-2016	steel	90
6282-2017	steel	100



6282-2010

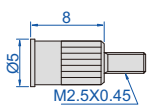


POINT SET

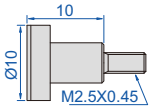


6282-S6

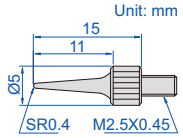
Code	Material of measuring face
6282-S6	steel



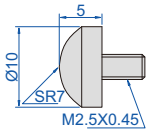
flat point



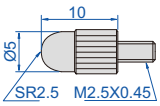
flat point



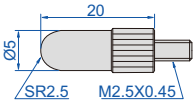
needle point



spherical point



shell type point



shell type point

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SPINDLE LIFT KNOB

- For dial/digital indicators with spindle diameter Ø4.5mm or Ø5mm

Code
7332

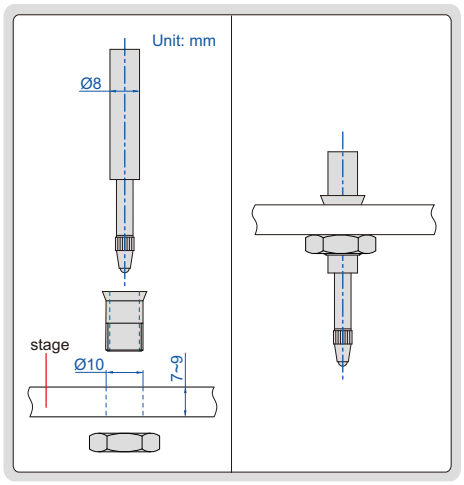




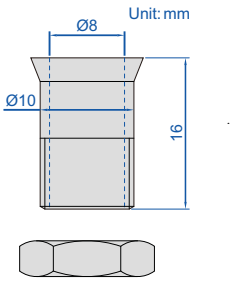
7332

SHAFT SLEEVE









7333

- For dial indicators and probes with shaft diameter Ø8mm

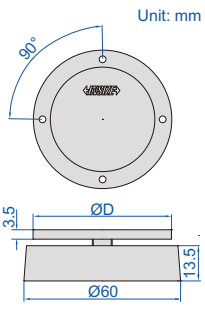
Code
7333

MAGNETIC BACKS

Code	ØD	For digital/dial indicators
7331-M1	51.5mm	2103
		2104
		2108
		2109
		2112
		2115
		2116
		2117
		2118
		2138
		2139
		2501
		2301
		2302
		2308
		2309 (except 2309-30, 2309-30F)
		2313
		2314
		2316
		2324
		2801
7331-M2	54mm	2318



7331-M2





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FLAT BACKS

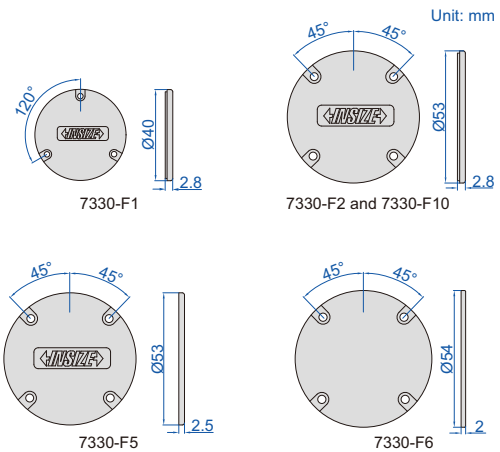


7330-F2

Code	For digital/dial indicators
7330-F1	2311
7330-F2	2301 2302 2308 2309 (except 2309-30, 2309-30F) 2313 2314 2316 2324 2801

Code	For digital/dial indicators
7330-F5	2103 2104 2108 2109 2112 2115 2116 2117 2118 2138 2139 2501
7330-F6	2318
7330-F10	2310

Unit: mm



LUG BACKS

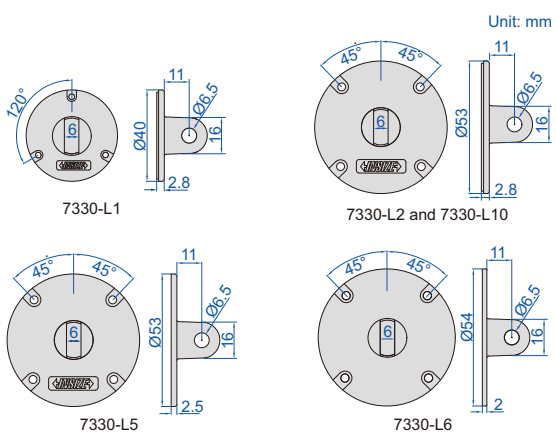


7330-L2

Code	For digital/dial indicators
7330-L1	2311
7330-L2	2301 2302 2308 2309 (except 2309-30, 2309-30F) 2313 2314 2316 2324 2801

Code	For digital/dial indicators
7330-L5	2103 2104 2108 2109 2112 2115 2116 2117 2118 2138 2139 2501
7330-L6	2318
7330-L10	2310

Unit: mm

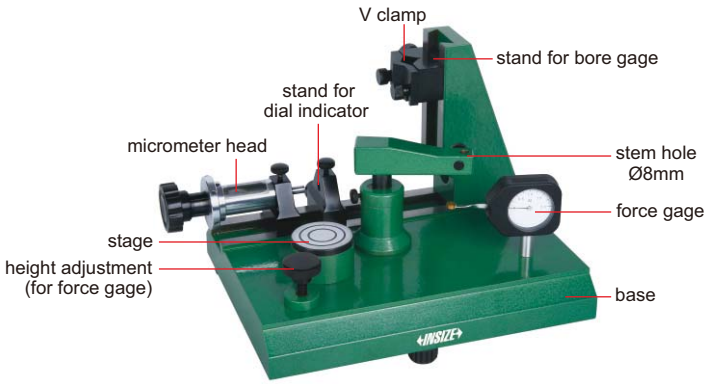


DIAL INDICATOR TESTER
CODE 2396-25A

ATTENTION: NOT SUITABLE FOR DIAL INDICATORS WITH GRADUATION 0.001MM

VIDEO

- To calibrate dial indicators, test indicators and dial bore gages
- Dimension: 270x210x205mm
- Weight: 11kg



2396-25A

Micrometer head

Range	Sampling interval	Accuracy	Hysteresis
0-25mm	0.1mm	4μm (0-25mm), 3μm (0-10mm), 2μm (0-1mm)	1μm

Force gage

Range	Graduation	Accuracy
0-1.6N	0.05N	±5% (of load capacity)

Stage

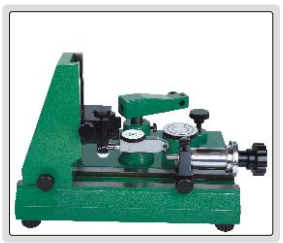
Diameter	Flatness	Roughness
50mm	1μm	0.05μm



inspect accuracy of dial indicators (range 0-25mm)



inspect accuracy of dial bore gages (range 6-450mm)



inspect accuracy of test indicators



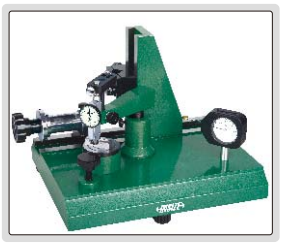
check force of dial indicators



check repeatability of dial indicators



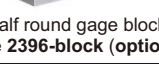
check the effect of lateral force on accuracy of dial indicators (half round gage block is required)



check the effect of lateral force on accuracy of test indicators (half round gage block is required)

Half round gage block (optional)

Code	Parallelism
2396-block	1μm



half round gage block code **2396-block** (**optional**)

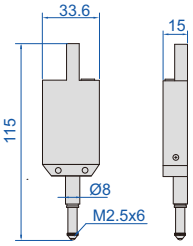
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LINEAR GAGES AND DISPLAY UNIT

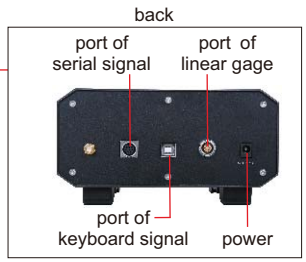
VIDEO



Unit: mm







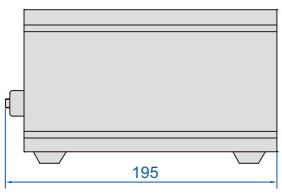
linear gage
7131-01

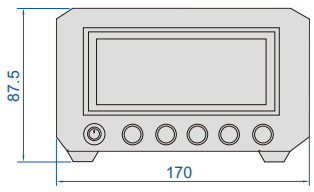
dispaly unit
7131-1A

10

- Linear gage type: optical grating
- Dispaly unit: display displacement data in real time, data preset, set tolerance and make judgment (out of upper tolerance, within tolerance, out of lower tolerance), set zero, change measuring direction, resolution (0.1μm/1μm), unit switch (μm/mm/inch)
- Two data transmission methods: can output keyboard signal and data can be transmitted to excel, word, txt etc, can also output serial signal and transmit data to serial communication software

Unit: mm

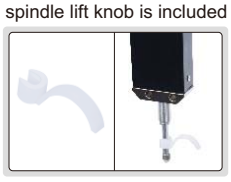




LINEAR GAGE SPECIFICATION

Code	7131-01	7131-02
Range	12.5mm	12.5mm
Resolution	0.1μm	1μm
Accuracy (19~20°C)	1μm	3μm
Repeatability	0.2μm	2μm
Linear gage type	optical grating	
Working life	ten million times	
Dust/waterproof	IP50	
Measuring force	0.7±0.3N	
Cable length	900mm	
Operation environment	0~40°C, 20~80%RH	
Power supply	5~24V	
Dimension (L×W×H)	33.6×15×115mm	
Weight	133g	

spindle lift knob is included



application



DISPLAY UNIT SPECIFICATION

Code	7131-1A
Display	4" LCD screen
Unit	μm, mm, inch
Quantity of linear gage to be connected	1 pc
Dimension (L×W×H)	170×195×87.5mm
Weight	1.45kg

INSPECTION CERTIFICATE

DUSTPROOF WATERPROOF

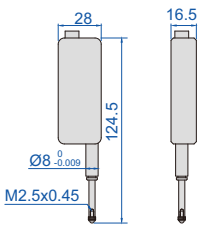
ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

DIGITAL LINEAR GAGES





Unit: mm



- Scale type: optical grating
- Absolute encoder, the original data remains after power off
- Digital signal output, amplifier is not required
- Measuring force: ≤1.5N
- Dust/waterproof: IP43/IP66
- Baud rate: 9600 (can be customized)
- Cable length: 3m (can be customized)

7130-10

7130-10L

To be continued

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Continued from previous page

Dust/waterproof IP43, resolution 0.1µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-10	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-10L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-11	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-11L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	
7130-12	0-12.5mm	0.5µm	1µm	horizontal	RS485	
7130-12L	0-12.5mm	0.5µm	1µm	vertical	RS485	
7130-13	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-13L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-14	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-14L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	

10

Dust/waterproof IP43, resolution 0.5µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-20	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-20L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-21	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-21L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	
7130-22	0-12.5mm	1.5µm	3µm	horizontal	RS485	
7130-22L	0-12.5mm	1.5µm	3µm	vertical	RS485	
7130-23	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-23L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-24	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-24L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.1µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-30	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-30L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-31	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-31L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	
7130-32	0-12.5mm	0.5µm	1µm	horizontal	RS485	
7130-32L	0-12.5mm	0.5µm	1µm	vertical	RS485	
7130-33	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-33L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-34	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-34L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.5µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-40	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-40L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-41	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-41L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	
7130-42	0-12.5mm	1.5µm	3µm	horizontal	RS485	
7130-42L	0-12.5mm	1.5µm	3µm	vertical	RS485	
7130-43	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-43L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-44	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-44L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	

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INSPECTION CERTIFICATE

DUSTPROOF WATERPROOF

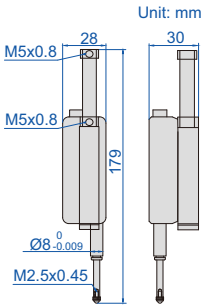
ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

PNEUMATIC DIGITAL LINEAR GAGES

- Scale type: optical grating
- Absolute encoder, the original data remains after power off
- Digital signal output, amplifier is not required
- Air pressure: 0.2-0.5MPa
- Measuring force: ≤1.5N
- Dust/waterproof: IP43/IP66
- Baud rate: 9600 (can be customized)
- Cable length: 3m (can be customized)



7134-10L



10

Dust/waterproof IP43, resolution 0.1μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-10	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-10L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-11	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-11L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	
7134-12	0-12.5mm	0.5μm	1μm	horizontal	RS485	
7134-12L	0-12.5mm	0.5μm	1μm	vertical	RS485	
7134-13	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-13L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-14	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-14L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	

Dust/waterproof IP43, resolution 0.5μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-20	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-20L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-21	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-21L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	
7134-22	0-12.5mm	1.5μm	3μm	horizontal	RS485	
7134-22L	0-12.5mm	1.5μm	3μm	vertical	RS485	
7134-23	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-23L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-24	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-24L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.1μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-30	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-30L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-31	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-31L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	
7134-32	0-12.5mm	0.5μm	1μm	horizontal	RS485	
7134-32L	0-12.5mm	0.5μm	1μm	vertical	RS485	
7134-33	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-33L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-34	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-34L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	

To be continued

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Continued from previous page

Dust/waterproof IP66, resolution 0.5μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-40	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-40L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-41	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-41L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	
7134-42	0-12.5mm	1.5μm	3μm	horizontal	RS485	
7134-42L	0-12.5mm	1.5μm	3μm	vertical	RS485	
7134-43	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-43L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-44	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-44L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	

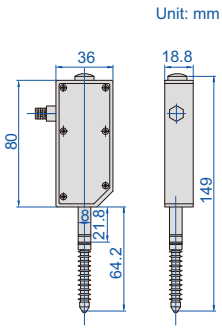
10

LINEAR GAGES

LINEAR GAGE **IP65** WATERPROOF



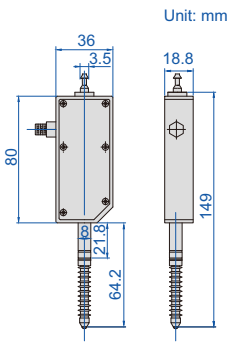
7107-12



7107-11
7107-12



7107-12V



7107-11V
7107-12V

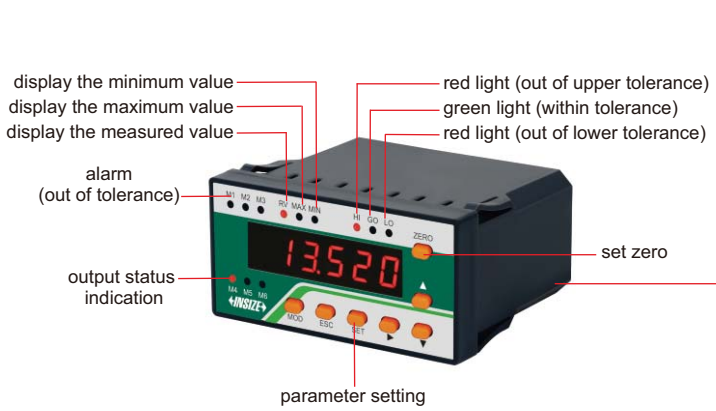
- Capacitance type linear encoder
- Shock-proof, water proof, dust proof, suitable for high speed movement, long working life
- Optional: display unit **7106-1A**, multichannel interface box **7107-1** or **7107-2**

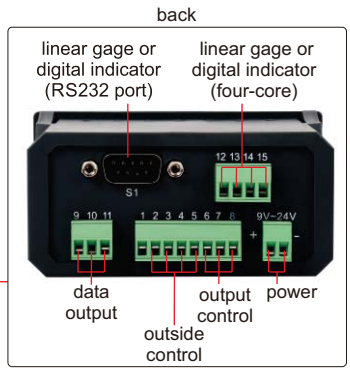
SPECIFICATION

Code	7107-11	7107-12	7107-11V	7107-12V
Measuring range	12mm/0.47"	12mm/0.47"	12mm/0.47"	12mm/0.47"
Resolution	0.01mm/0.0004"	0.001mm/0.00004"	0.01mm/0.0004"	0.001mm/0.00004"
Accuracy	20μm	5μm	20μm	5μm
Hysteresis	10μm	2μm	10μm	2μm
Driving type	spring		pneumatic	
Measuring force	1.5N		adjusted by air pressure	
Measuring principle	capacitance type linear encoder			
Voltage	5V			
Sampling frequency	100 times/sec			
Working life	ten million times			
Dust/waterproof	IP65			
Cable length	2m			
Data output	RS232			

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DISPLAY UNIT FOR CAPACITANCE LINEAR GAGES CODE 7106-1A

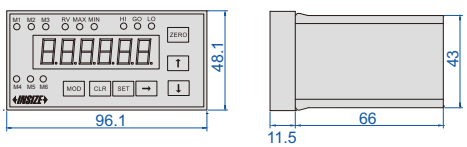




7106-1A

- Can be connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gage, can also be connected with digital indicator (data cable **7309-C01M** is needed)
- Set tolerance and make judgment (out of upper tolerance, within tolerance, out of lower tolerance), output the judgment to control outside devices, control from outside (set zero, hold reading and collect data)
- Software of display unit (included): in the software, it is possible to set tolerance and show judgment (red when out of tolerance, green when within tolerance), set zero, collect data manually or automatically (time is adjustable), output data to Excel, print report

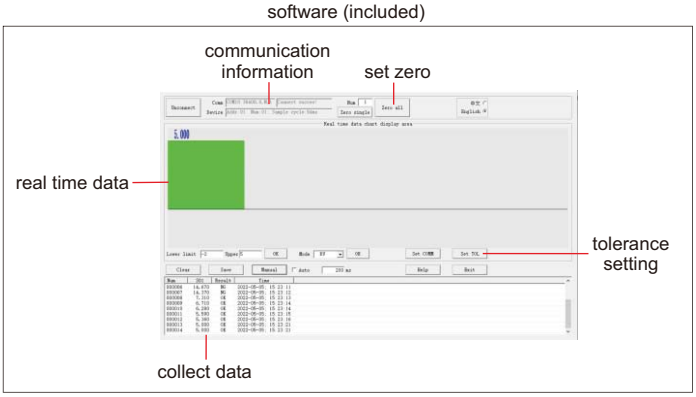
Unit: mm



connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gage



software (included)



connected with digital indicator (data cable **7309-C01M** is needed)



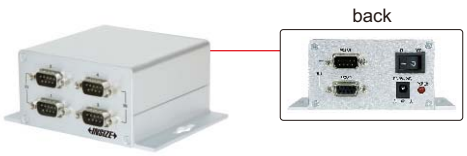
suitable for **2112, 2114, 2115, 2116, 2501, 2103** and **2104** series digital indicators

SPECIFICATION

Display	6 digits
Quantity of linear gage or digital indicator to be connected	1 pc
Tolerance	set tolerance and make judgment with alarm and lights (out of upper tolerance, within tolerance, out of lower tolerance)
Output control	output the tolerance judgment (out of upper tolerance, within tolerance, out of lower tolerance) to control outside devices
Outside control	control the display units from outside (set zero, hold reading and collect data)
Data output	connect to computer software and serial communication
Power supply	DC 9~24V

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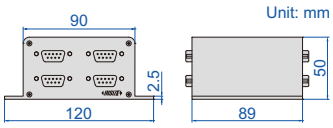
MULTICHANNEL INTERFACE BOXES FOR CAPACITANCE LINEAR GAGES



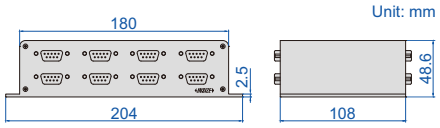
7107-1



7107-2



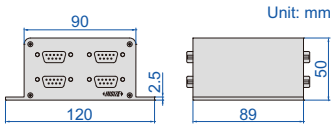
7107-1



7107-2



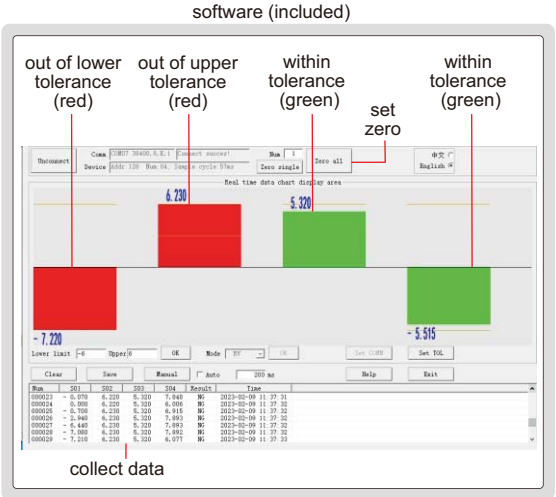
7107-3



7107-3

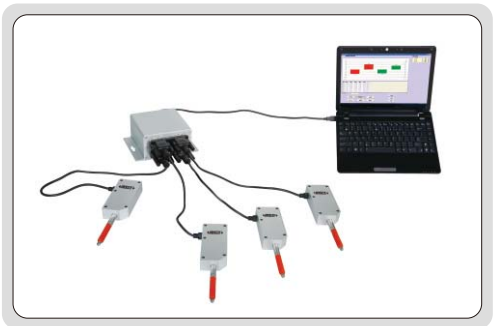
- Can be connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gages, can also be connected with digital indicators (data cable **7309-C01M** is needed)
- Connection box (code: **7107-3**) is needed to connect interface boxes, when two or more interface boxes are used. Maximum 4 interface boxes can be connected.
- Software of interface boxes (included): in the software, it is possible to set tolerance of each channel and show judgment (red when out of tolerance, green when within tolerance), set zero, collect data manually or automatically (time is adjustable), output data to Excel, print report.

software (included)



VIDEO

connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gages



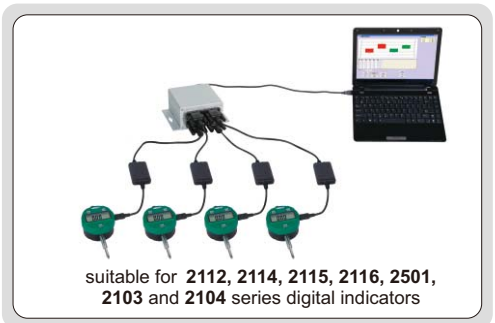
INTERFACE BOX SPECIFICATION

Code	7107-1	7107-2
Quantity of linear gages or digital indicators to be connected	4 pcs	8 pcs
Data output	RS232 and RS485	
Power supply	DC 9~24V	

CONNECTION BOX (OPTIONAL) SPECIFICATION

Code	7107-3
Quantity of interface boxes to be connected	4 pcs (maximum 4 interface boxes can be connected)
Data output	RS232 and RS485
Power supply	DC 9~24V

connected with digital indicators (data cable **7309-C01M** is needed)



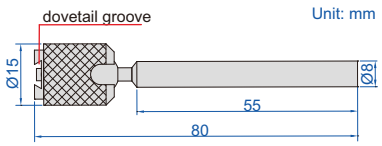
suitable for **2112, 2114, 2115, 2116, 2501, 2103** and **2104** series digital indicators

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DIAL TEST INDICATOR UNIVERSAL HOLDER



6297-1





- Set the indicators at the desired attitude to the workpiece

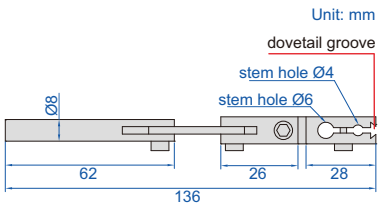
Code
6297-1

10

DIAL TEST INDICATOR HOLDER



6296-1





- Supplied with hex key

Code
6296-1

DIAL TEST INDICATOR HOLDERS

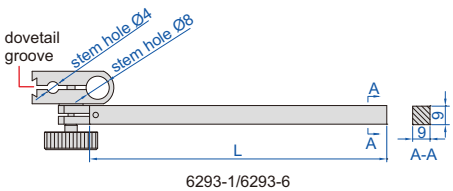


6293-1

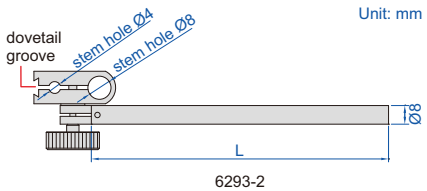


6293-2





6293-1/6293-6



6293-2

Code	Stem section	Stem length (L)
6293-1	9x9mm	100mm
6293-6	9x9mm	50mm
6293-2	Ø8mm	115mm

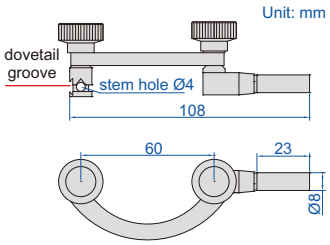
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DIAL TEST INDICATOR HOLDER

- Can be used with dial test indicators



6291-1



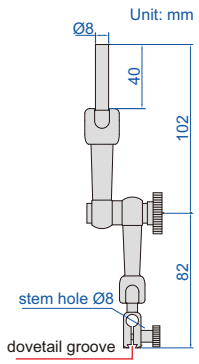
Code
6291-1

DIAL TEST INDICATOR HOLDER

- Can be used with dial test indicators



6295-1A



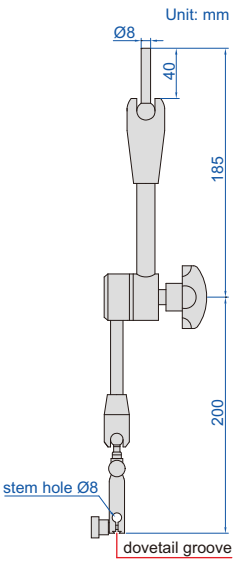
Code
6295-1A

DIAL INDICATOR HOLDER

- Can be used with dial test indicators or dial indicators



6294-1A



Code
6294-1A

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HYDRAULIC UNIVERSAL MAGNETIC STANDS



6229-60



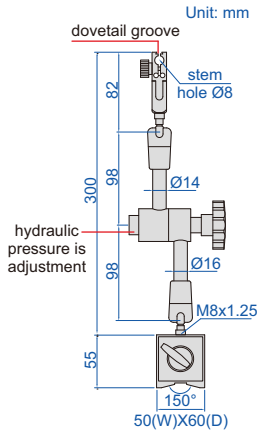
6229-80



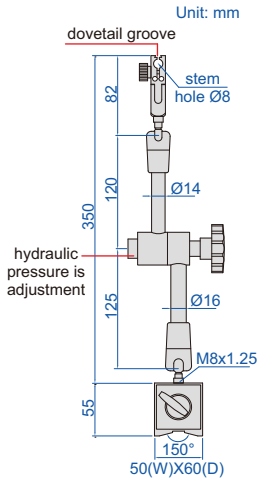
6229-100



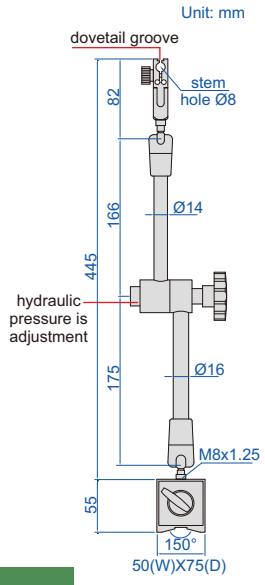
6229-101



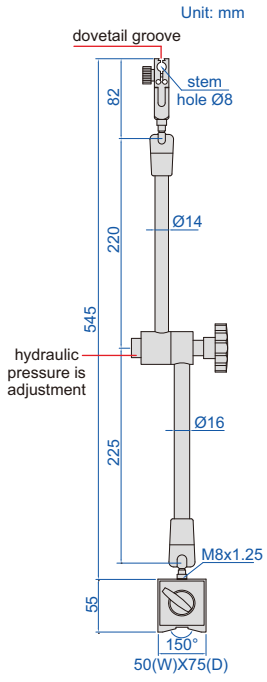
6229-60



6229-80



6229-100

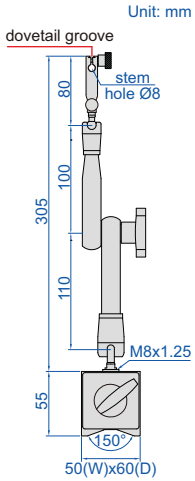


6229-101

- Hydraulic pressure is adjustment
- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6229-60	60kgf	Ø8mm	with fine adjustment and dovetail groove
6229-80	80kgf	Ø8mm	with fine adjustment and dovetail groove
6229-100	100kgf	Ø8mm	with fine adjustment and dovetail groove
6229-101	100kgf	Ø8mm	with fine adjustment and dovetail groove

LARGE LOCKING FORCE MAGNETIC STAND





6219-80

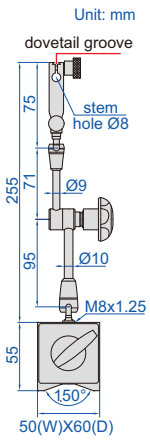
- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6219-80	80kgf	Ø8mm	with fine adjustment and dovetail groove

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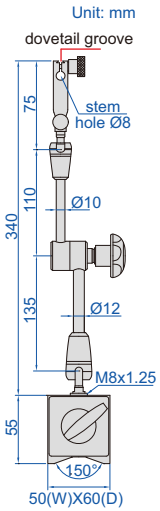
UNIVERSAL MAGNETIC STANDS

POPULAR MODEL



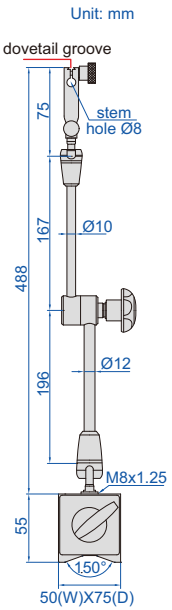
6210-81


6210-81



6210-80


6210-80



6210-100


6210-100

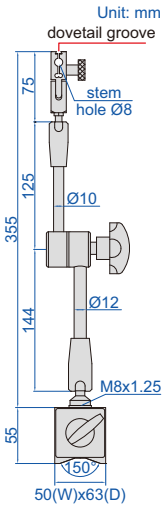
- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6210-81	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-80	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-100	100kgf	Ø8mm	with fine adjustment and dovetail groove

UNIVERSAL MAGNETIC STAND (ECONOMIC TYPE)

ATTENTION: LOW LOCKING FORCE


6208-80A

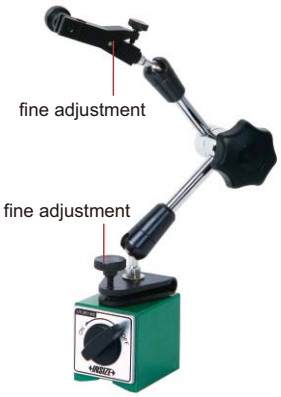


- For digital/dial indicators and dial test indicators

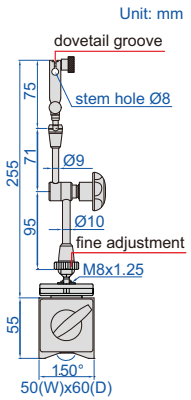
Code	Magnetic force	Applicable holding stem	Remark
6208-80A	80kgf	Ø8mm	with fine adjustment and dovetail groove

MAGNETIC STAND WITH TWO FINE ADJUSTMENTS

- With two fine adjustments on the head and on the base
- For digital/dial indicators and dial test indicators



6272-80



Code	Magnetic force	Applicable holding stem	Remark
6272-80	80kgf	Ø8mm	with two fine adjustments and dovetail groove

10

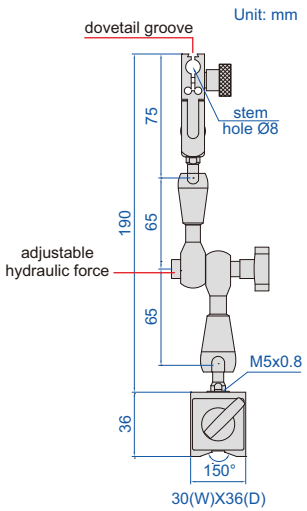
ATTENTION: FOR DIAL TEST INDICATORS ONLY

HYDRAULIC MINI MAGNETIC STAND

- For dial test indicators
- With fine adjustment and dovetail groove
- Adjustable hydraulic force



6228-40



Code	Magnetic force	Applicable holding stem
6228-40	40kgf	Ø8mm

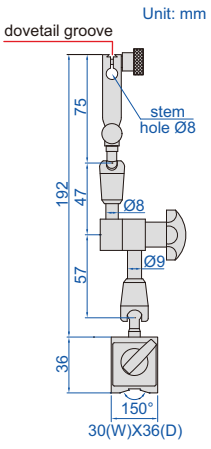
ATTENTION: FOR DIAL TEST INDICATORS ONLY

MINI MAGNETIC STAND

- For dial test indicators
- With fine adjustment and dovetail groove



6224-40



Code	Magnetic force	Applicable holding stem
6224-40	40kgf	Ø8mm

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MAGNETIC STANDS

POPULAR MODEL



6200-60



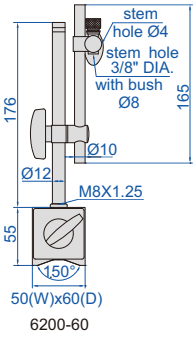
6201-60



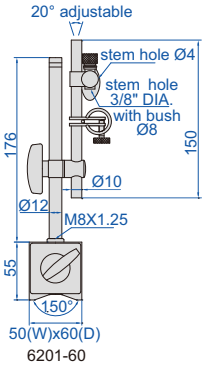
6202-80



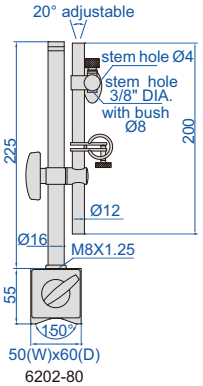
6202-100



6200-60

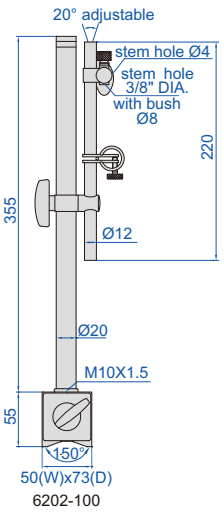


6201-60



6202-80

Unit: mm



6202-100

- For digital/dial indicators and dial test indicators

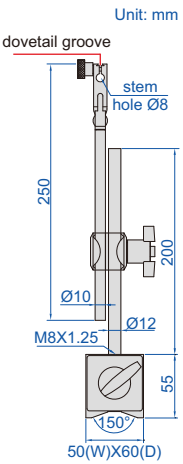
Code	Magnetic force	Applicable holding stem	Remark
6200-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	without fine adjustment
6201-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-80	80kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-100	100kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment

MAGNETIC STAND



6216-80

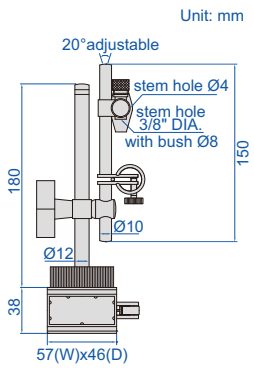
Unit: mm



- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6216-80	80kgf	Ø8mm	with fine adjustment and dovetail groove

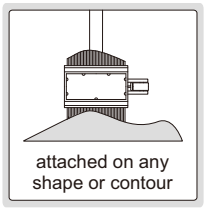
MAGNETIC STAND FOR UNEVEN SURFACES





6215-60

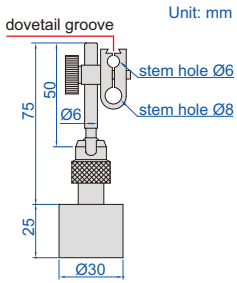
- For digital/dial indicators and dial test indicators
- With fine adjustment



Code	Magnetic force	Applicable holding stem
6215-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.

MINI MAGNETIC STAND

10





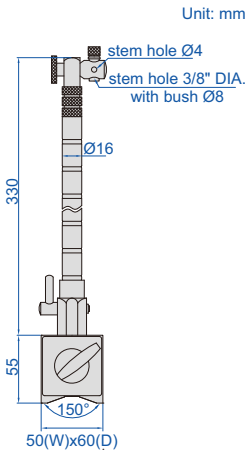
6211-10

ATTENTION: FOR DIAL TEST INDICATORS ONLY

- For dial test indicators
- With dovetail groove

Code	Magnetic force	Applicable holding stem
6211-10	10kgf	Ø6mm, Ø8mm

FLEX ARM MAGNETIC STAND





6207-80A

ATTENTION: FOR DIAL TEST INDICATORS ONLY

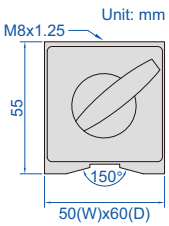
- For dial test indicators

Code	Magnetic force	Applicable holding stem
6207-80A	80kgf	Ø8mm, Ø4mm, 3/8" DIA.

MAGNETIC BASES



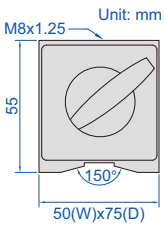
6212-80



6212-80



6212-100



6212-100

Code	Magnetic force
6212-80	80kgf
6212-100	100kgf

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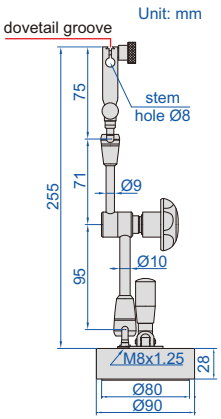
VACUUM STAND

- Suitable for granite surface plates or cast iron surface plates
- For digital/dial indicators and dial test indicators

Code	Diameter of vacuum disc	Vacuum force	Applicable holding stem	Remark
6217-B	Ø80mm	80kgf	Ø8mm	with fine adjustment and dovetail groove



6217-B



10

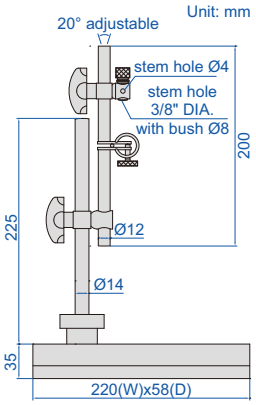
UNIVERSAL STAND

- For digital/dial indicators and dial test indicators
- With fine adjustment

Code	Applicable holding stem
6214-A	Ø8mm, Ø4mm, 3/8" DIA.



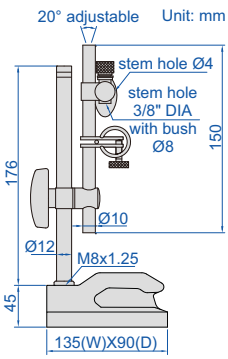
6214-A



DIAL INDICATOR STANDS (NON-MAGNETIC)



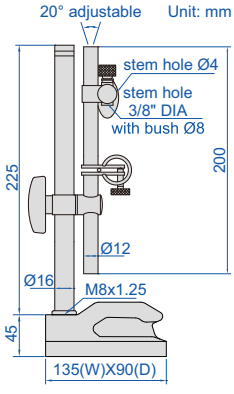
6226-60



6226-60



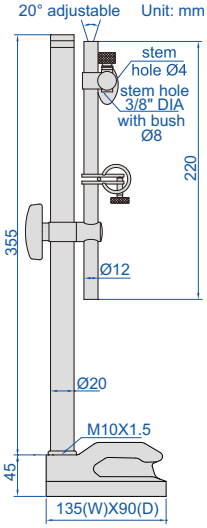
6226-80



6226-80



6226-100



6226-100

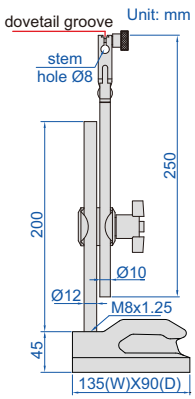
Code	Applicable holding stem	Remark
6226-60	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment
6226-80	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment
6226-100	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment

- Hardened base
- Suitable for granite surface plates and cast iron surface plates
- For digital/dial indicators and dial test indicators

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DIAL INDICATOR STAND (NON-MAGNETIC)

- Hardened base
- Suitable for granite surface plates and cast iron surface plates
- For digital/dial indicators and dial test indicators





6227-80

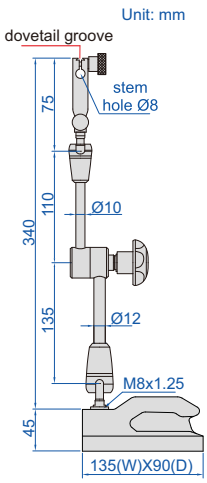
Code	Applicable holding stem	Remark
6227-80	Ø8mm	with fine adjustment and dovetail groove

10

UNIVERSAL DIAL INDICATOR STANDS (NON-MAGNETIC)



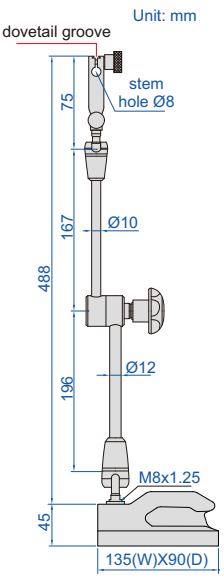
6225-80



6225-80



6225-100



6225-100

- Hardened base
- Suitable for granite surface plates and cast iron surface plates
- For digital/dial indicators and dial test indicators

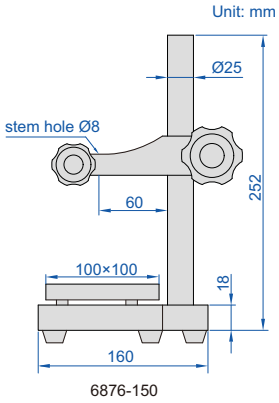
Code	Applicable holding stem	Remark
6225-80	Ø8mm	with fine adjustment and dovetail groove
6225-100	Ø8mm	with fine adjustment and dovetail groove

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DIAL INDICATOR STANDS



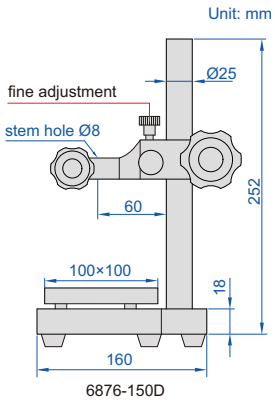
6876-150



6876-150



6876-150D



6876-150D

Code	Applicable holding stem	Anvil	Remark
6876-150	Ø8mm	ceramic, plain, flatness 1.5μm	without fine adjustment
6876-150D	Ø8mm	ceramic, plain, flatness 1.5μm	with fine adjustment, fine adjustment range 3mm

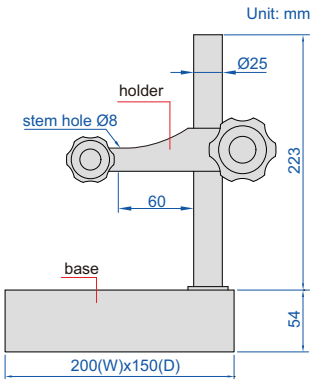
- Vertical travel of holder: 150mm
- Ceramic anvil
- Supplied with dust cover

GRANITE DIAL INDICATOR STANDS (BASIC TYPE)

POPULAR MODEL



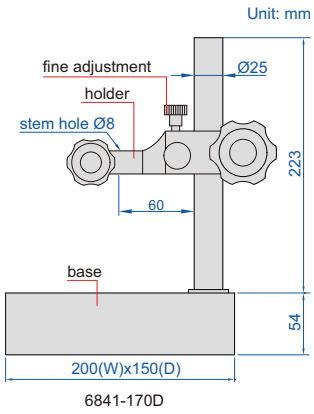
6841-170



6841-170



6841-170D



6841-170D

Code	Applicable holding stem	Base	Remark
6841-170	Ø8mm	flatness 2.5μm	without fine adjustment
6841-170D	Ø8mm	flatness 2.5μm	with fine adjustment, fine adjustment range 3mm

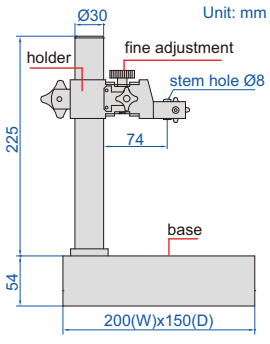
- Vertical travel of holder: 170mm
- Supplied with dust cover

GRANITE DIAL INDICATOR STAND

- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Supplied with dust cover



6866-150

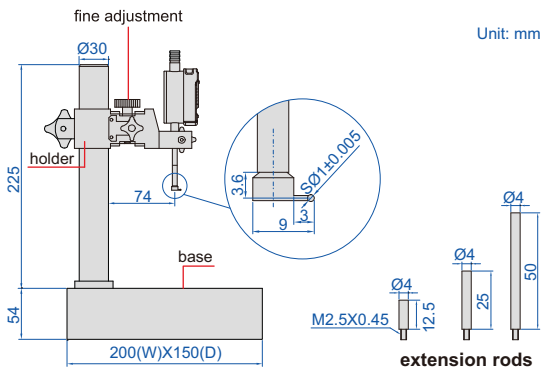


Code	Applicable holding stem	Base
6866-150	Ø8mm	flatness 2.5μm

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DATA OUTPUT

DIGITAL GROOVE MEASUREMENT STANDS



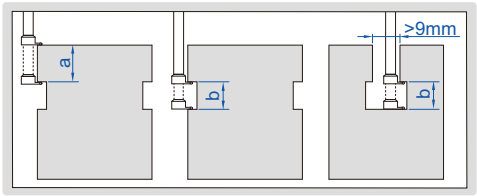


6870-150

10

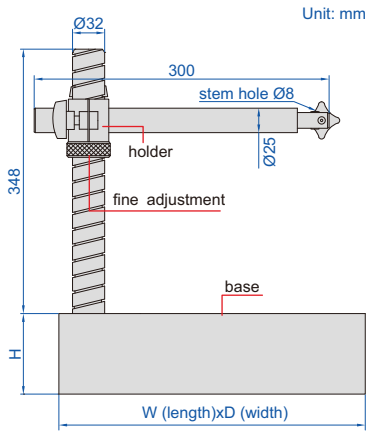
- Button function: on/off, zero, mm/inch, measuring direction change, data preset, absolute/incremental measurement
- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Supplied with extension rods: 12.5mm (1 pc), 25mm (1 pc), 50mm (1 pc)
- Supplied with groove point and dust cover
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)

measure width (b) and depth (a) of groove



Code	Digital indicator stroke	Digital indicator resolution	Accuracy	Applicable holding stem	Base
6870-150	12.7mm/0.5"	0.01mm/0.0005"	±20μm	Ø8mm	flatness 2.5μm
6870-1501	12.7mm/0.5"	0.001mm/0.00005"	±5μm	Ø8mm	flatness 2.5μm

GRANITE DIAL INDICATOR STANDS





6867-250



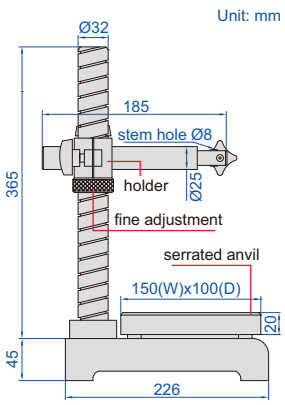
6867-400

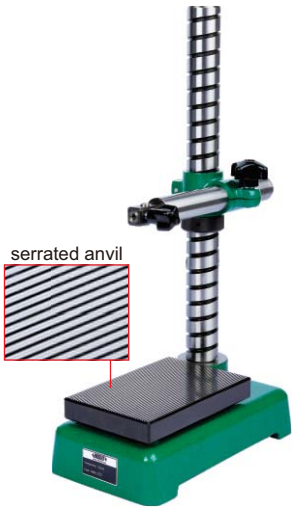
- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover

Code	Applicable holding stem	W	D	H	Base
6867-250	Ø8mm	300mm	300mm	75mm	flatness 2.8μm
6867-400	Ø8mm	400mm	300mm	100mm	flatness 3μm

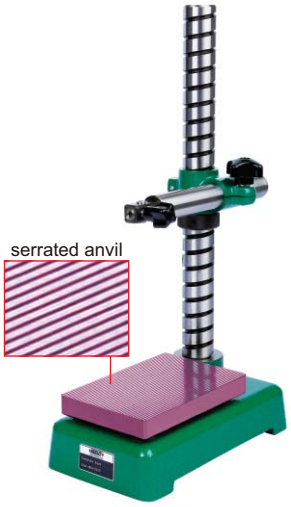
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DIAL INDICATOR STANDS





6864-250

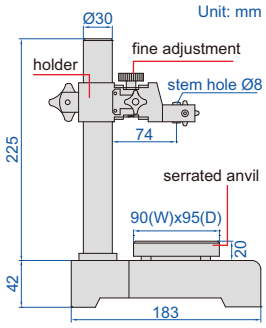


6864-250T

- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover

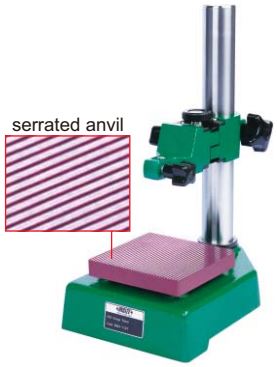
Code	Applicable holding stem	Anvil
6864-250	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5μm
6864-250T	Ø8mm	ceramic, serrated, flatness 1.5μm

DIAL INDICATOR STANDS





6863-150



6863-150T

- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Supplied with dust cover

Code	Applicable holding stem	Anvil
6863-150	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5μm
6863-150T	Ø8mm	ceramic, serrated, flatness 1.5μm

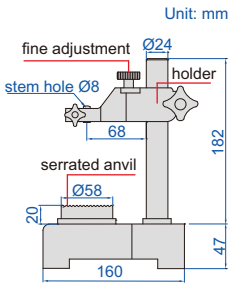
DIAL INDICATOR STANDS



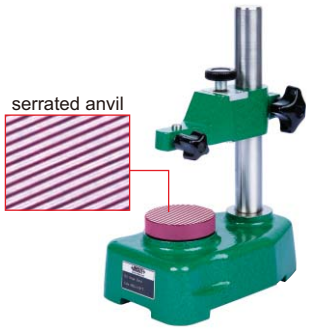
6862-1001



6862-1002



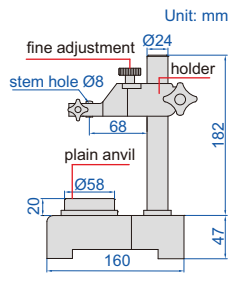
6862-1001
6862-1001T



6862-1001T



6862-1002T



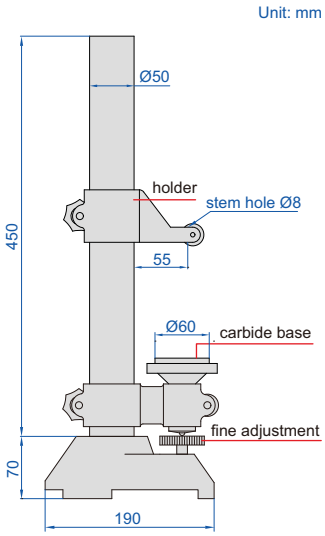
6862-1002
6862-1002T

Code	Applicable holding stem	Anvil
6862-1001	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6862-1002	Ø8mm	steel (hardness HRC60±2), plain, flatness 1.5µm
6862-1001T	Ø8mm	ceramic, serrated, flatness 1.5µm
6862-1002T	Ø8mm	ceramic, plain, flatness 1.5µm

- Vertical travel of holder: 100mm
- Fine adjustment range: 2mm
- Supplied with dust cover

HEAVY DUTY DIAL INDICATOR STAND

- Vertical travel of holder: 300mm
- Fine adjustment range: 5mm
- Carbide base
- Supplied with dust cover
- Optional accessory:
  holder with stem hole Ø28 (code **6869-D28**)





6869-300

Code	Applicable holding stem	Base
6869-300	Ø8mm	plain, flatness 1µm, carbide

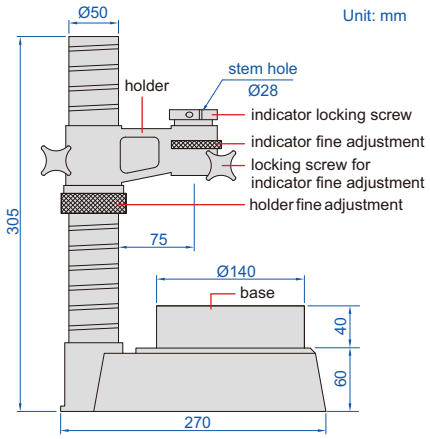
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DIAL INDICATOR STAND

GAGE BLOCKS ARE NEEDED FOR ZERO SETTING



digital/dial indicator is optional



6842-150

VIDEO

locating fork for workpiece (included)



rotary lever probe (included)

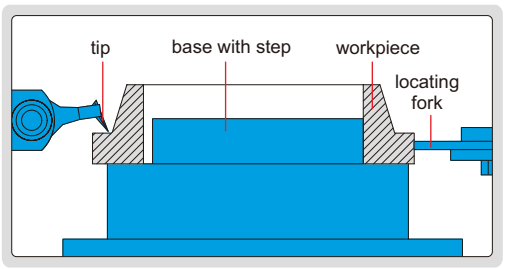


base with step (included)



- Vertical travel of holder: 180mm
- Holder fine adjustment range: entire stroke
- Indicator fine adjustment range: 10mm
- Optional accessory: Ø28mm/Ø8mm bush (code **6843-B8**), 0.001mm digital/dial indicators, high precision digital indicators (code **2140-6**, **2140-6WL**), gage blcoks (**4101** series, for zero setting)

the tip of rotary lever probe can reach narrow areas



Code	Applicable holding stem	Base
6842-150	Ø28mm	flatness 2μm

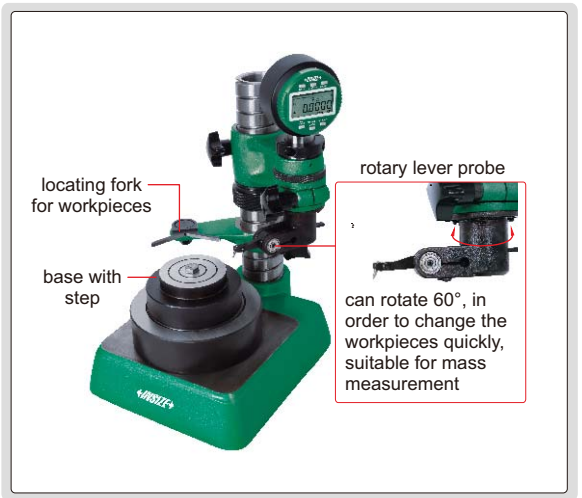
Ø28mm/Ø8mm bush (optional)



Code
6843-B8

application





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TRANSFER STANDS

application



rigid construction, designed to make comparison height measurement (set zero with gage block then measure height of workpiece) with dial indicators or digital indicators (variation of measuring force is high)

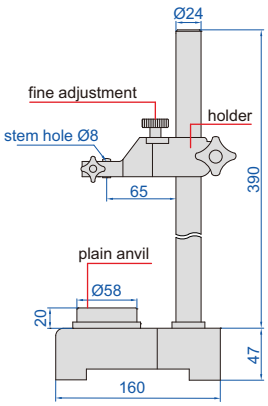


6865-300



6865-300T

Unit: mm



- Vertical travel of holder: 335mm
- Fine adjustment range: 2mm
- Supplied with dust cover

Code	Applicable holding stem	Anvil
6865-300	Ø8mm	steel (hardness HRC60±2), plain, flatness 1.5μm
6865-300T	Ø8mm	ceramic, plain, flatness 1.5μm

DIGITAL HEIGHT GAGES

REFER TO PAGE 81-83 FOR DETAILS



1155-505



1157-501



1158-100

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INDICATING MEASURING INSTRUMENTS

11



Internal Caliper Gages
Page 248-251



External Caliper Gages
Page 252-253



Thickness Gages
Page 254-257



Rubber Thickness Gages
Page 258



Tube Thickness Gages
Page 259-260



Snap Gages
Page 260-263



Step And Gap Gages
Page 264



Mini Digital Height Gages
Page 264



Height Gages
Page 265



Crankshaft Testers
Page 266



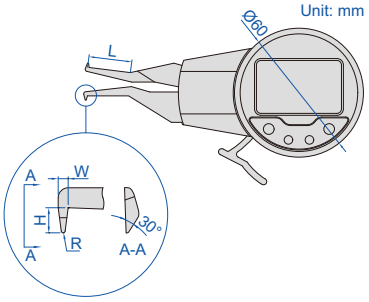
Keyway Gages
Page 266-267

DIGITAL INTERNAL CALIPER GAGES

DATA OUTPUT

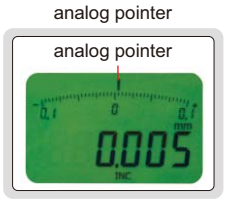


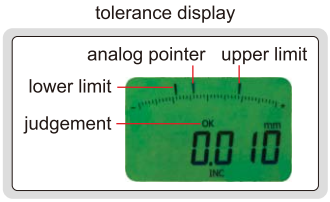
2121-15

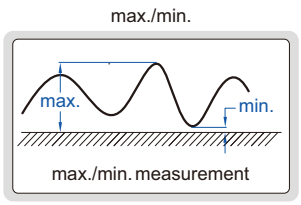


11

- Resolution: 0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code **7315-30** page 4, **7302-30** page 12)







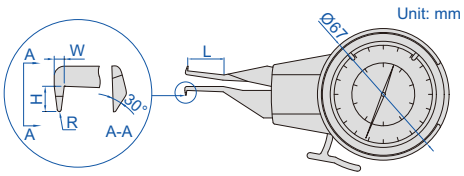
(mm)

Code	Range	Accuracy	Repeatability	L	H	W	R
2121-15	5-15mm/0.2-0.6"	±0.03mm	0.01mm	20	2	1.5	R0.3
2121-25	5-25mm/0.2-1.0"	±0.03mm	0.01mm	35	1.5	1.0	R0.3
2121-31	10-30mm/0.4-1.2"	±0.03mm	0.01mm	55	5.5	2.5	R0.5
2121-41	20-40mm/0.8-1.6"	±0.03mm	0.01mm	80	6.0	3.0	R0.5
2121-51	30-50mm/1.2-2.0"	±0.03mm	0.01mm	80	8.0	3.0	R0.5
2121-61	40-60mm/1.6-2.4"	±0.03mm	0.01mm	80	8.0	3.0	R0.5

INTERNAL DIAL CALIPER GAGES



2222-15



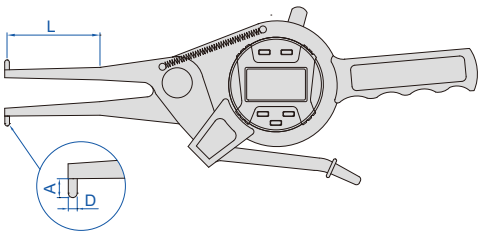
(mm)

Code	Range	Graduation	Accuracy	L	H	W	R
2222-15	5-15mm	0.01mm	±0.03mm	20	2	1.5	R0.3
2222-25	5-25mm	0.01mm	±0.03mm	35	1.5	1.0	R0.3
2222-301	10-30mm	0.01mm	±0.03mm	55	5.5	2.5	R0.5
2222-401	20-40mm	0.01mm	±0.03mm	80	6.0	3.0	R0.5
2222-501	30-50mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5
2222-60	40-60mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5

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DIGITAL INTERNAL CALIPER GAGES

DATA OUTPUT



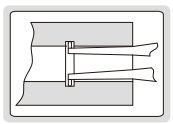


2151-35

- Carbide measuring tips
- Reading in digit and analog
- With transmission button and signal light
- Display can be rotated by 320º
- Button function: on/off, zero, tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, data output, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

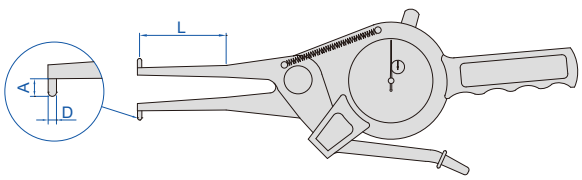
(mm)

Code	Range	Resolution	Accuracy	L	A	D
2151-35	15-35mm/0.6-1.4"	0.01mm/0.0005"	±0.04mm	50	3	Ø3
2151-AL35	15-35mm/0.6-1.4"	0.01mm/0.0005"	±0.04mm	200	3	Ø3
2151-55	35-55mm/1.4-2.2"	0.01mm/0.0005"	±0.04mm	80	6	Ø3
2151-AL55	35-55mm/1.4-2.2"	0.01mm/0.0005"	±0.04mm	250	8	Ø3
2151-75	55-75mm/2.2-3"	0.01mm/0.0005"	±0.04mm	90	8	Ø3
2151-AL75	55-75mm/2.2-3"	0.01mm/0.0005"	±0.04mm	250	8	Ø3
2151-95	75-95mm/3-3.8"	0.01mm/0.0005"	±0.04mm	100	8	Ø3
2151-115	95-115mm/3.8-4.6"	0.01mm/0.0005"	±0.04mm	120	10	Ø3.2
2151-135	115-135mm/4.6-5.4"	0.01mm/0.0005"	±0.04mm	120	10	Ø3.2



11

INTERNAL DIAL CALIPER GAGES



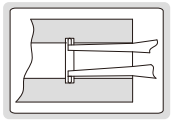


2321-35

- Carbide measuring tips

(mm)

Code	Range	Graduation	Accuracy	L	A	D
2321-35	15-35mm	0.01mm	±0.04mm	50	3	Ø3
2321-AL35	15-35mm	0.01mm	±0.04mm	200	3	Ø3
2321-55	35-55mm	0.01mm	±0.04mm	80	6	Ø3
2321-AL55	35-55mm	0.01mm	±0.04mm	250	8	Ø3
2321-75	55-75mm	0.01mm	±0.04mm	90	8	Ø3
2321-AL75	55-75mm	0.01mm	±0.04mm	250	8	Ø3
2321-95	75-95mm	0.01mm	±0.04mm	100	8	Ø3
2321-115	95-115mm	0.01mm	±0.04mm	120	10	Ø3.2
2321-135	115-135mm	0.01mm	±0.04mm	120	10	Ø3.2

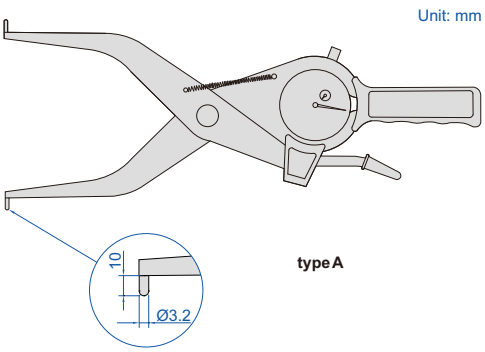


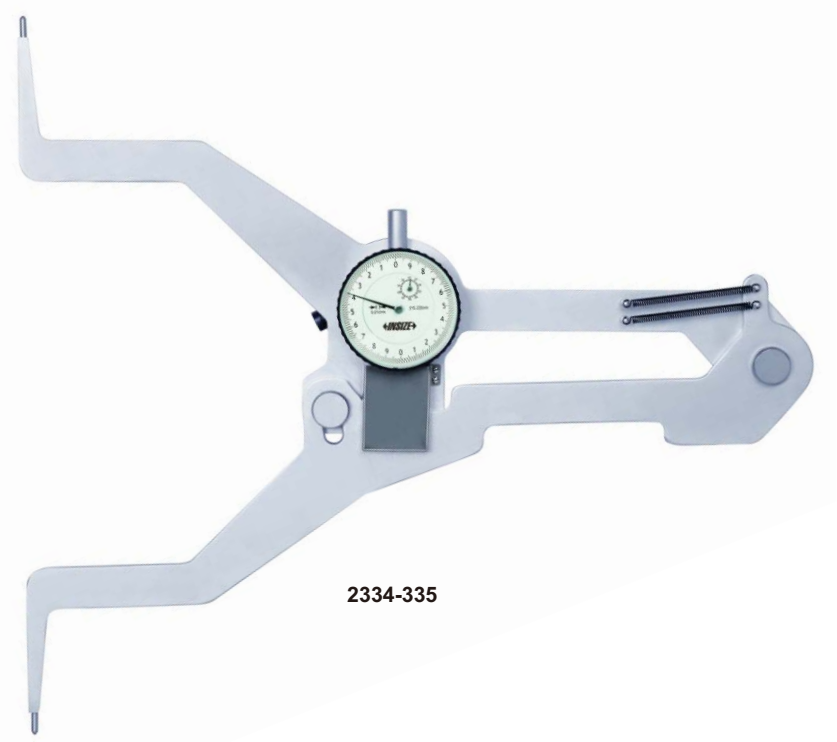
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LARGE RANGE INTERNAL DIAL CALIPER GAGES

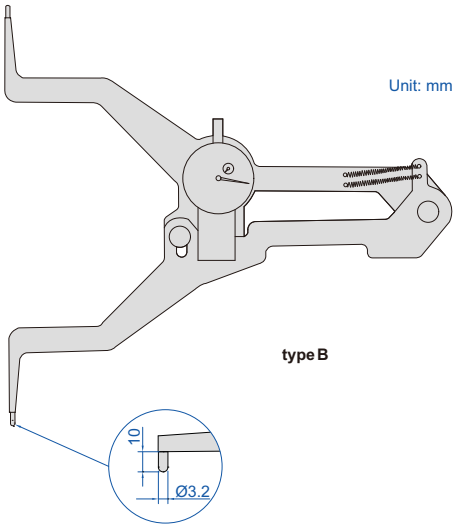


2334-155





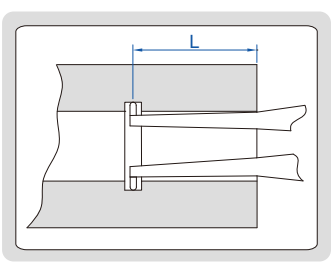
2334-335



- Carbide measuring tips

(mm)

Code	Range	Graduation	Accuracy	Type	L
2334-155	135-155mm	0.01mm	±0.04mm	A	<200
2334-175	155-175mm	0.01mm	±0.04mm	A	<200
2334-195	175-195mm	0.01mm	±0.04mm	A	<200
2334-215	195-215mm	0.01mm	±0.04mm	A	<200
2334-235	215-235mm	0.01mm	±0.04mm	A	<200
2334-255	235-255mm	0.01mm	±0.04mm	A	<200
2334-275	255-275mm	0.01mm	±0.04mm	A	<200
2334-295	275-295mm	0.01mm	±0.04mm	A	<200
2334-315	295-315mm	0.01mm	±0.04mm	A	<200
2334-335	315-335mm	0.01mm	±0.04mm	B	<200
2334-355	335-355mm	0.01mm	±0.04mm	B	<200
2334-375	355-375mm	0.01mm	±0.04mm	B	<200

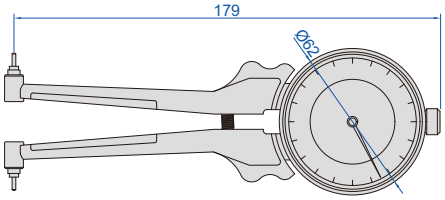


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INTERNAL DIAL CALIPER GAGE WITH INTERCHANGEABLE POINTS

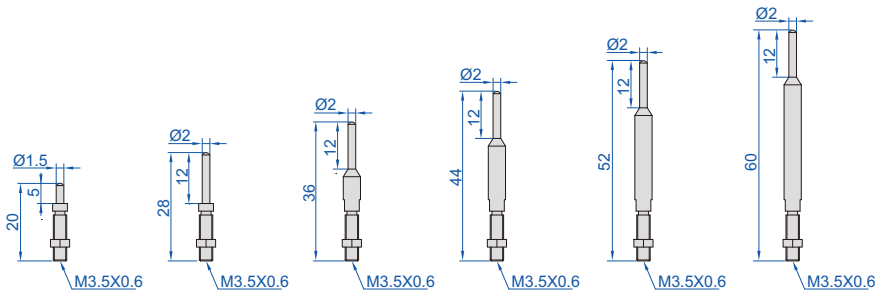


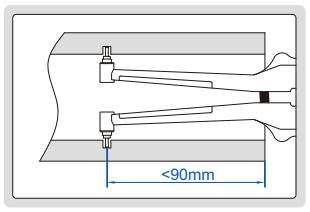
Unit: mm



2223-153

Unit: mm





6 pair of points (included)



- Supplied with 6 pairs of points

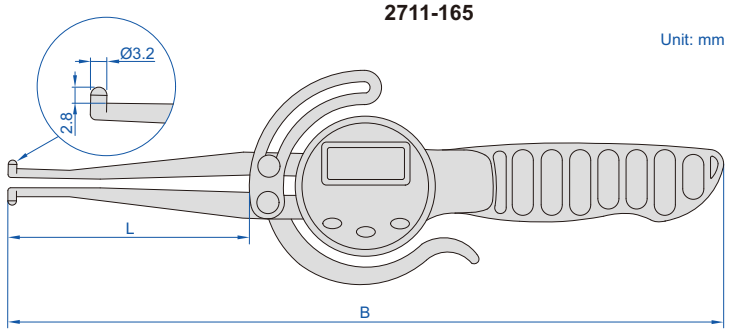
Code	Range	Dial indicator range	Graduation	Accuracy
2223-153	55-153mm	2mm	0.01mm	±0.02mm

DIGITAL INTERNAL CALIPER GAGES (ECONOMIC TYPE)

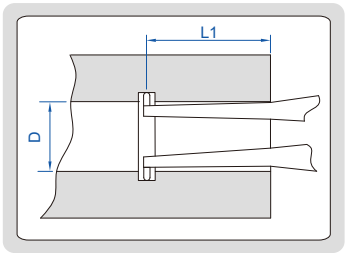


2711-165

Unit: mm



sizes to be measured



- Button function: on/off, zero, mm/inch, data hold
- Battery CR2032, automatic power off

(mm)

Code	Range	Resolution	Accuracy	Repeatability	L	B
2711-165	12.7-165mm/0.5-6.5"	0.1mm/0.01"	±0.3mm	0.2mm	85	252
2711-216	12.7-216mm/0.5-8.5"	0.1mm/0.01"	±0.3mm	0.2mm	160	327

(mm)

Code 2711-165		Code 2711-216	
D	L1	D	L1
Ø13	<42	Ø13	<50
Ø15	<45	Ø15	<55
Ø17	<50	Ø17	<60
Ø20	<60	Ø20	<65
Ø25	<75	Ø25	<75
Ø27	<80	Ø30	<95
Ø29~165	<85	Ø35~216	<160

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DIGITAL EXTERNAL CALIPER GAGES

DATA OUTPUT

- Resolution: 0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170º
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code **7315-30** page 4, **7302-30** page 12)

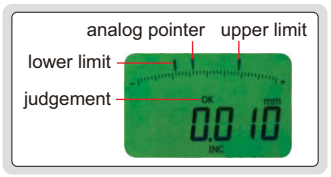


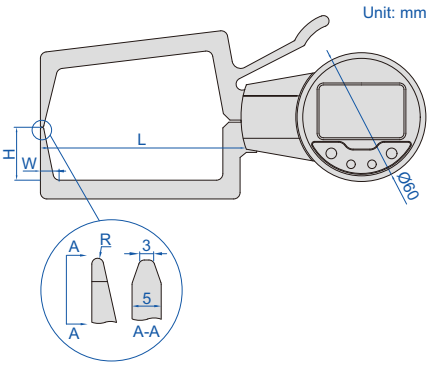
2131-21

analog pointer



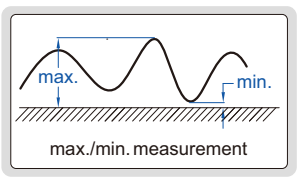
tolerance display



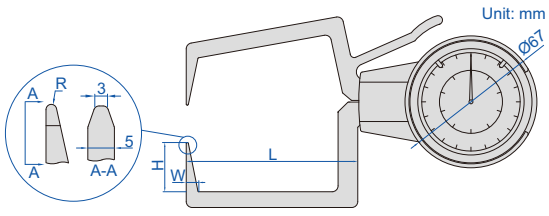


Code	Range	Accuracy	Repeatability	L	H	W	R
2131-21	0-20mm/0-0.8"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-31	10-30mm/0.4-1.2"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-41	20-40mm/0.8-1.6"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-51	30-50mm/1.2-2.0"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-61	40-60mm/1.6-2.4"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm

max./min.



EXTERNAL DIAL CALIPER GAGES





2333-201

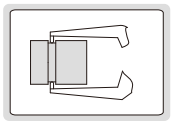
(mm)

Code	Range	Graduation	Accuracy	L	H	W	R
2333-201	0-20mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-301	10-30mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-401	20-40mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-501	30-50mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-601	40-60mm	0.01mm	±0.03mm	80	25	6.5	R0.5

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DATA OUTPUT

DIGITAL EXTERNAL CALIPER GAGES

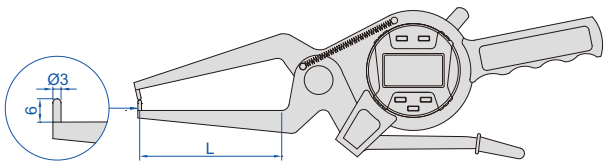




2132-20

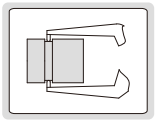
- Carbide measuring tips
- Reading in digit and analog
- With transmission button and signal light
- Display can be rotated by 320º
- Button function: on/off, zero, tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement, data output
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

Unit: mm



Code	Range	Resolution	Accuracy	L (mm)
2132-20	0-20mm/0-0.8"	0.01mm/0.0005"	±0.04mm	60
2132-40	20-40mm/0.8-1.6"	0.01mm/0.0005"	±0.04mm	60
2132-60	40-60mm/1.6-2.4"	0.01mm/0.0005"	±0.04mm	55
2132-80	60-80mm/2.4-3.2"	0.01mm/0.0005"	±0.04mm	55
2132-100	80-100mm/3.2-4"	0.01mm/0.0005"	±0.04mm	55

EXTERNAL DIAL CALIPER GAGES

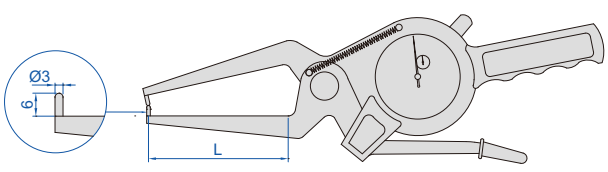




2332-20

- Carbide measuring tips

Unit: mm



Code	Range	Graduation	Accuracy	L (mm)
2332-20	0-20mm	0.01mm	±0.04mm	60
2332-40	20-40mm	0.01mm	±0.04mm	60
2332-60	40-60mm	0.01mm	±0.04mm	55
2332-80	60-80mm	0.01mm	±0.04mm	55
2332-100	80-100mm	0.01mm	±0.04mm	55

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DIGITAL THICKNESS GAGES

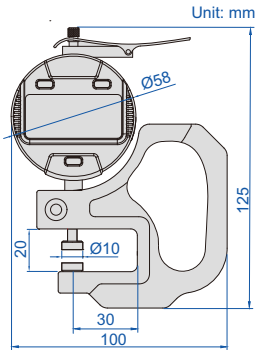
POPULAR MODEL

DATA OUTPUT

- Ceramic spindle tip and anvil
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)



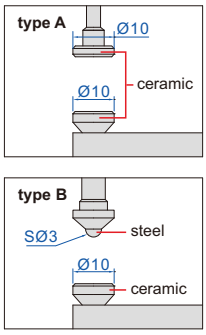
2871-101

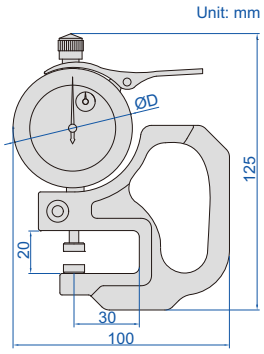


Code	Range	Resolution	Accuracy
2871-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2871-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

11

THICKNESS GAGES







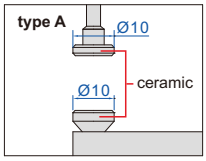
2364-10

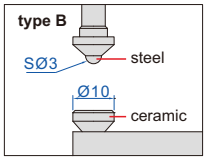


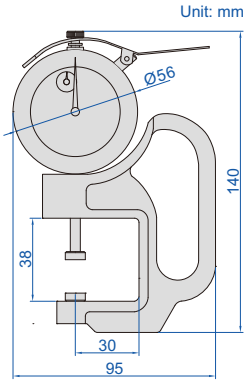
2364-1

Code	Range	Graduation	Accuracy	Type	ØD
2364-10	0-10mm	0.01mm	±0.02mm	A	58mm
2364-10B	0-10mm	0.01mm	±0.02mm	B	58mm
2364-1	0-1mm	0.001mm	±0.005mm	A	56mm

THICKNESS GAGES









2366-30

Code	Range	Graduation	Accuracy	Type
2366-30	0-30mm	0.01mm	±0.035mm	A
2366-30B	0-30mm	0.01mm	±0.035mm	B

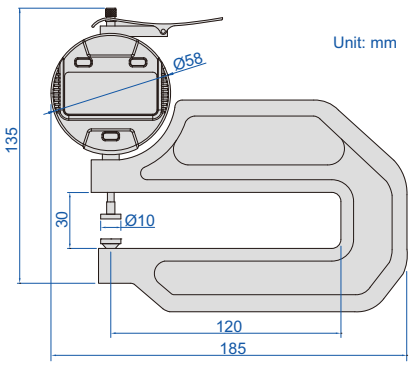
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DIGITAL THICKNESS GAGES

DATA OUTPUT

measuring tips and anvils can be custom-made







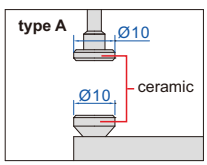
2872-10

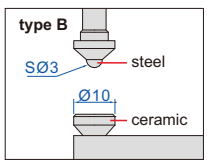
- Ceramic spindle tip and anvil
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

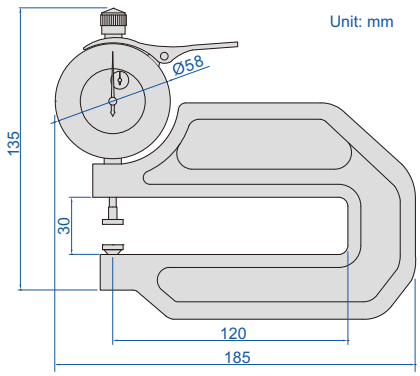
Code	Range	Resolution	Accuracy
2872-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2872-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm

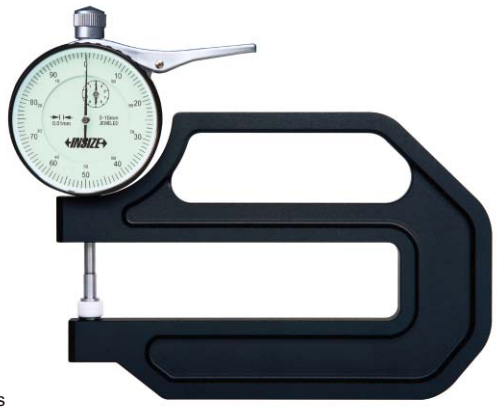
11

THICKNESS GAGES









2365-10

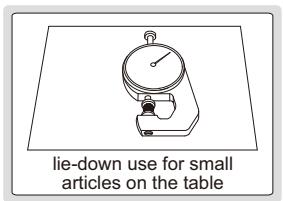
Code	Range	Graduation	Accuracy	Type
2365-10	0-10mm	0.01mm	±0.02mm	A
2365-20	0-20mm	0.01mm	±0.03mm	A
2365-10B	0-10mm	0.01mm	±0.02mm	B
2365-20B	0-20mm	0.01mm	±0.03mm	B

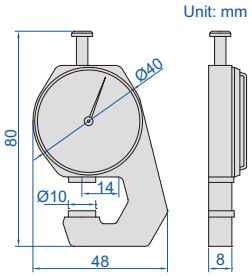
measuring tips and anvils can be custom-made



THICKNESS GAGE

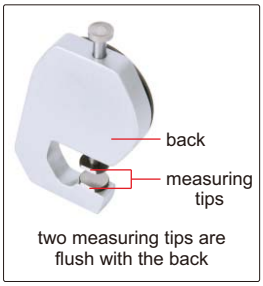
SUITABLE FOR JEWELLERY







2361-10



Code	Range	Graduation	Accuracy
2361-10	0-10mm	0.1mm	±0.05mm

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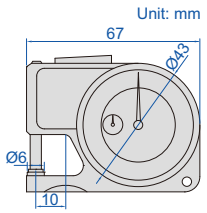
THICKNESS GAGE

- Stainless steel spindle tip and anvil

Code	Range	Graduation	Accuracy
2363-10	0-10mm	0.01mm	±0.03mm



2363-10



DIGITAL ROLLER THICKNESS GAGES

DATA OUTPUT



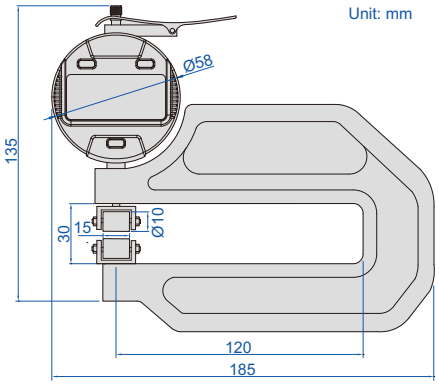
2877-4



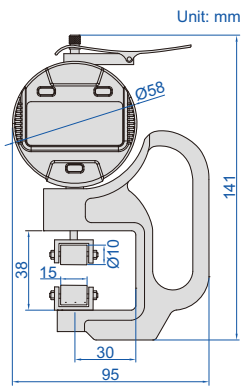
2877-10

- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy
2877-4	0-4.5mm/0-0.18"	0.01mm/0.0005"	±0.02mm
2877-41	0-4.5mm/0-0.18"	0.001mm/0.00005"	±0.01mm
2877-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2877-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm



2877-4/2877-41



2877-10/2877-101

HIGH PRECISION DIGITAL THICKNESS GAGES

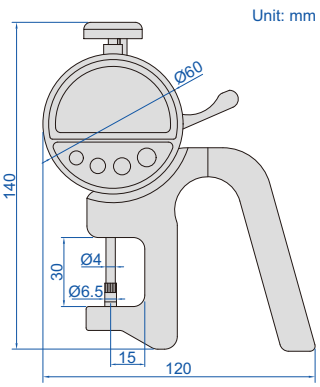
MEASURING TIPS AND ANVILS CAN BE CUSTOM-MADE

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

ATTENTION: RECHARGEABLE BATTERY, FOR 12 HOURS CONTINUOUS WORKING

DATA OUTPUT

- Absolute encoder, the original data remains after power off
- Button function: on/off, zero, tolerance, absolute/incremental measurement, max./min./TIR, data preset, mm/inch, data output, data hold
- Measuring force: 0.5-1N
- Reading in digital and analog
- Power: rechargeable battery, for 12 hours continuous working
- Data output
- Supplied with data output cable (keyboard format)

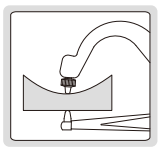




2879-10

Code	Range	Resolution	Accuracy	Repeatability
2879-10	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm
2879-101	0-10mm/0-0.4"	0.0005mm/0.00002"	±0.0015mm	0.0005mm

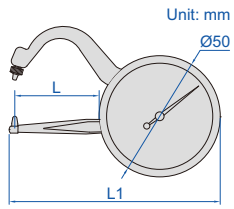
THICKNESS GAGES



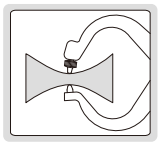
Code	Range	Graduation	Accuracy	L	L1
2862-101	0-10mm	0.05mm	±0.1mm	35mm	85mm
2862-102	0-10mm	0.05mm	±0.1mm	60mm	110mm



2862-101



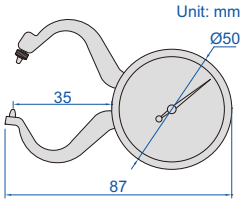
THICKNESS GAGE



Code	Range	Graduation	Accuracy
2863-10	0-10mm	0.05mm	±0.1mm



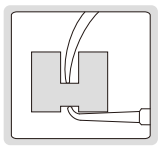
2863-10



11

THICKNESS GAGE WITH POINTED TIPS

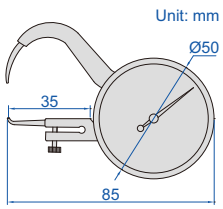
- Pointed tips fit into small grooves and recesses



Code	Range	Graduation	Accuracy
2866-10	0-10mm	0.05mm	±0.1mm



2866-10



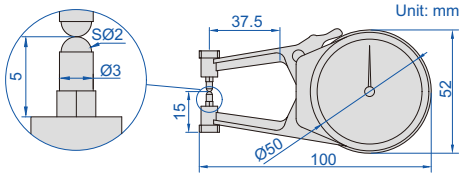
THICKNESS GAGE

- Main baby is made of hard plastic



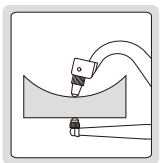
Code	Range	Graduation	Accuracy
2870-10	0-10mm	0.1mm	±0.1mm

2870-10



DIGITAL THICKNESS GAGE

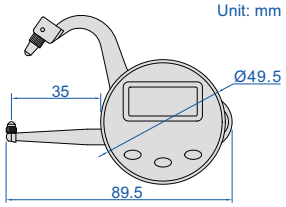
- Resolution: 0.01mm, 0.001", 1/64"
- Buttons: on/off, zero, unit (mm/in/fraction), data hold
- Battery CR2032, automatic power off



Code	Range	Accuracy	Repeatability
2710-25	0-25.4mm/0-1"	0.05mm	0.02mm



2710-25



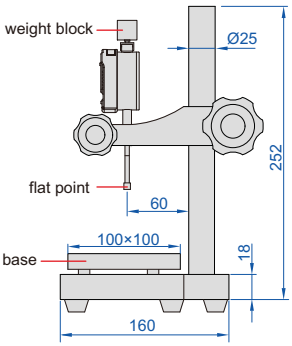
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DIGITAL RUBBER THICKNESS GAGES

DATA OUTPUT



Unit: mm

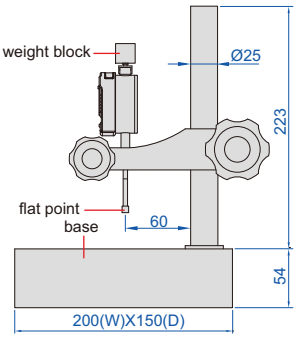


2878-6A
2878-6B

2878-6B



Unit: mm



2878-71A
2878-71B

2878-71B

- Measure thickness of vulcanized rubber and plastic products
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Supplied with dust cover
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13), flat points, weight blocks

Code	Range	Resolution	Accuracy	Flat point diameter	Pressure	Base
2878-6A	12.7mm/0.5"	0.01mm/0.0005"	20μm	6mm	22kPa±5kPa	ceramic, plain, flatness 1.5μm
2878-6B	12.7mm/0.5"	0.001mm/0.00005"	5μm	6mm	22kPa±5kPa	ceramic, plain, flatness 1.5μm
2878-71A	12.7mm/0.5"	0.01mm/0.0005"	20μm	6mm	22kPa±5kPa	granite, plain, flatness 2.5μm
2878-71B	12.7mm/0.5"	0.001mm/0.00005"	5μm	6mm	22kPa±5kPa	granite, plain, flatness 2.5μm

Flat points and weight blocks (optional)

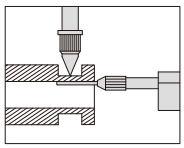
Flat point	Flat point code	Pressure				
		10kPa±2kPa	22kPa±5kPa	20kPa±3kPa	70kPa±5kPa	1.6kPa±0.1kPa
		weight block code	weight block code	weight block code	weight block code	weight block code
Ø4mm	**2878-P4**	–	**2878-W4B**	–	–	–
Ø5mm	**2878-P5**	**2878-W5A**	**2878-W5B**	**2878-W5C**	**2878-W5D**	–
Ø6mm	**2878-P6**	**2878-W6A**	**2878-W6B**	–	–	–
Ø8mm	**2878-P8**	**2878-W8A**	**2878-W8B**	–	–	–
Ø10mm	**2878-P10**	**2878-W10A**	**2878-W10B**	**2878-W10C**	–	–
Ø25mm	**2878-P25**	–	–	–	–	**2878-W25E**
1x4mm (rectangle)	**2878-P14**	–	–	–	**2878-W14D**	–

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DIGITAL TUBE THICKNESS GAGES

DATA OUTPUT

measure wall thickness of grooves





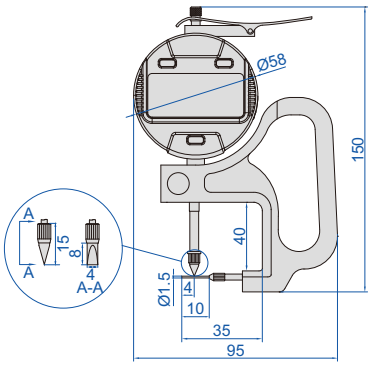
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy
2873-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2873-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm



2873-10

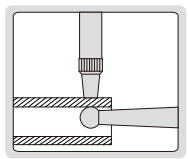
Unit: mm



11

DIGITAL TUBE THICKNESS GAGES

DATA OUTPUT



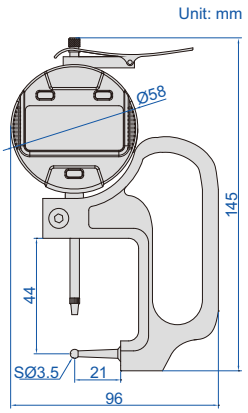
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy
2876-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2876-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

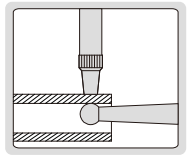


2876-10

Unit: mm



TUBE THICKNESS GAGE



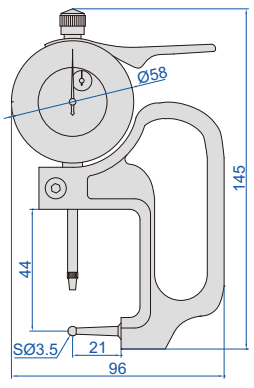
- Measure tube wall thickness

Code	Range	Graduation	Accuracy
2367-10A	0-10mm	0.01mm	±0.02mm



2367-10A

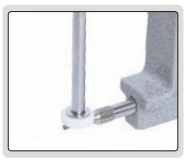
Unit: mm

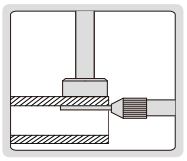


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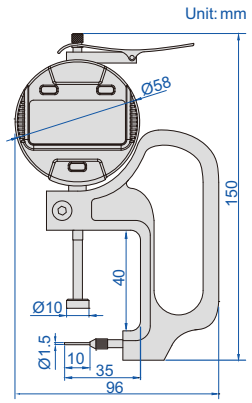
DIGITAL TUBE THICKNESS GAGES

DATA OUTPUT









2859-101

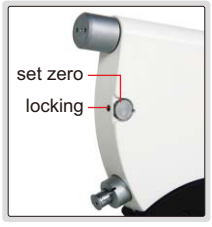
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy
2859-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2859-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

DIAL SNAP GAGES

INSIZE PLUS
MADE IN EUROPE

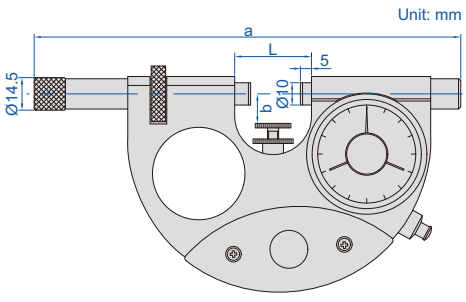
IP54 WATERPROOF





3335-25

- Quick Go/No-Go measurement for mass production
- Anvil retracting stroke: 2.5mm
- Dial indicator: measuring range ±0.07mm, graduation 1µm, accuracy ±1µm
- Constant measuring force over the whole range: 8.5N
- Carbide measuring faces
- IP54 dust/waterproof
- Zero position of dial indicator is adjustable and can be locked (supplied with locking wrench)
- Adjustable platform height



Code	Range	L	a	b
3335-25	0-25mm	35mm	191mm	<15mm
3335-50	25-50mm	60mm	215mm	<25mm
3335-75	50-75mm	84mm	239mm	<37.5mm
3335-100	75-100mm	110mm	265mm	<50mm

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ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

IP54 WATERPROOF

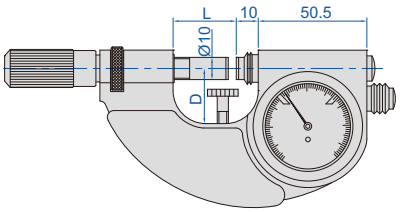
DIAL SNAP GAGES

- Quick measurement for mass production
- Dial indicator: range ±0.04mm, graduation 0.001mm, accuracy 0.001mm
- IP54 dust/waterproof
- Measuring force: 5-10N
- Carbide measuring faces
- Optional accessory: gage blocks grade 0 (**4101-A** series), for zero setting



3334-25

Unit: mm



Code	Range	L	D
3334-25	0-25mm	28.5mm	25mm
3334-50	25-50mm	53.5mm	35mm
3334-75	50-75mm	78.5mm	47.5mm
3334-100	75-100mm	103.5mm	60mm

QUICK AND ACCURATE MEASUREMENT OF CYLINDRICAL WORKPIECES

INSPECTION CERTIFICATE

DIAL SNAP GAGES

VIDEO

- Left anvil retracting stroke: 2mm
- Measuring force: 6-8N
- Flatness of anvil: 1.5μm
- Repeatability: 1μm
- Carbide measuring faces for anvils
- Front edges of anvils are chamfered for easy workpiece insertion
- Optional accessory: dial indicators and digital indicators (reading 0.001mm or 0.01mm)



digital indicator is optional

2186-25

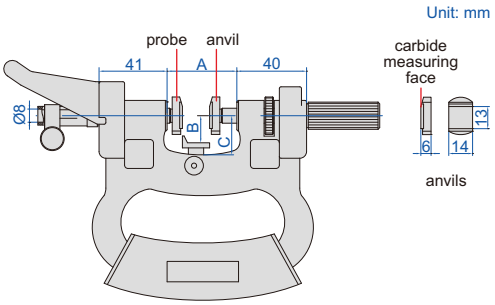
application



(mm)

Code	Range	Parallelism of measuring faces	A	B	C
2186-25*	0-25mm	4μm	42	11-18	20
2186-50*	25-50mm	4μm	69	11-32	41
2186-75*	50-75mm	5μm	94	17-41	51
2186-100*	75-100mm	6μm	119	31-55	65
2186-125*	100-125mm	6μm	144	42-70	75
2186-150*	125-150mm	8μm	169	55-82	90
2186-175*	150-175mm	8μm	194	68-95	100
2186-200*	175-200mm	10μm	219	85-110	115
2186-225*	200-225mm	10μm	244	95-120	130
2186-250*	225-250mm	10μm	269	110-135	145
2186-275*	250-275mm	12μm	294	120-150	160
2186-300*	275-300mm	12μm	319	128-160	170

Unit: mm



*Supplied with manufacturer inspection certificate

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DIAL SNAP GAGES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

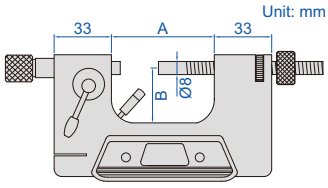
- Quick measurement for mass production
- Anvil retracting stroke: 3mm
- Measuring force: 6-9N
- Carbide measuring faces
- Optional accessory:
  dial indicators (graduation 0.01mm),
  digital indicators (resolution 0.01mm/0.0005")



digital indicator is optional

2184-50W

Code	Range	A	B
2184-25W	0-25mm	34mm	18mm
2184-50W	0-50mm	62mm	32mm
2184-100W	50-100mm	112mm	62mm
2184-150W	100-150mm	162mm	85mm
2184-200W	150-200mm	212mm	110mm

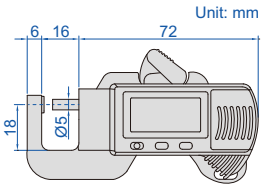


DIGITAL SNAP GAGE

ATTENTION: NO DATA OUTPUT



2166-12



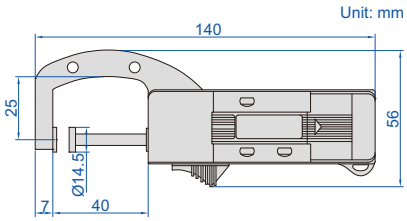
Code	Range	Resolution	Accuracy
2166-12	0-12mm/0-0.5"	0.01mm/0.0005"	±0.03mm

DIGITAL SNAP GAGE

ATTENTION: NO DATA OUTPUT



2167-25



Code	Range	Resolution	Accuracy
2167-25	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm

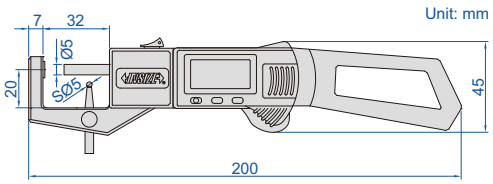
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DIGITAL SNAP GAGE

ATTENTION: NO DATA OUTPUT

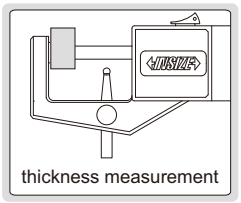


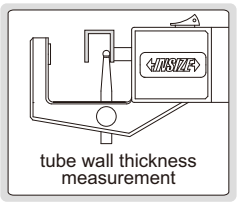
2163-25



- Resolution: 0.01mm/0.0005"
- Accuracy: ±0.04mm
- For thickness and tube wall thickness measurement

Code	Thickness range	Tube wall thickness range
2163-25	0-25mm/0-1"	0-2mm/0.08"


thickness measurement


tube wall thickness measurement

11

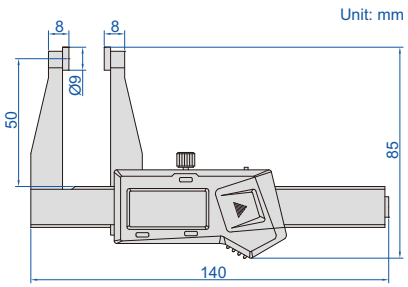
DIGITAL SNAP GAGES

DATA OUTPUT



1163-50A

- Non waterproof
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Resolution	Accuracy
1163-50A	0-50mm/0-2"	0.01mm/0.0005"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Resolution	Accuracy
1163-50AWL	0-50mm/0-2"	0.01mm/0.0005"	±0.03mm

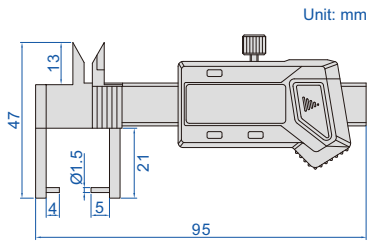
DIGITAL 3-PURPOSE SNAP GAGE

ATTENTION: NO DATA OUTPUT

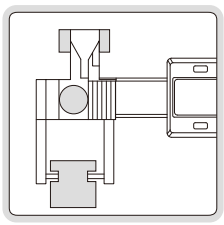
SUITABLE FOR JEWELLERY



2164-25A



VIDEO



- Non waterproof
- Buttons: zero, mm/inch, on/off
- Battery LR44
- Made of stainless steel

Code	Range	Resolution	Accuracy
2164-25A	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm

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STEP AND GAP GAGES

DATA OUTPUT

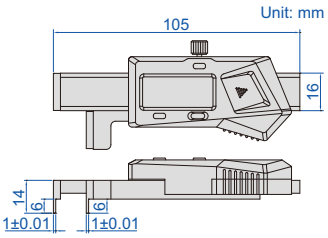


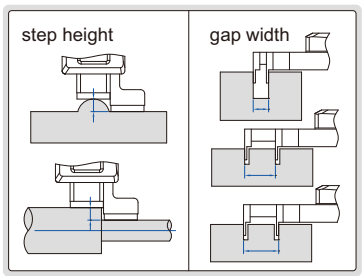
2168-12

zero setting block (included)



- Non waterproof
- Measure step height and gap width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Supplied with zero setting block





With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
2168-12	0-12.7mm/0-0.5"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
2168-12WL	0-12.7mm/0-0.5"	±0.03mm

MINI DIGITAL HEIGHT GAGES

DATA OUTPUT

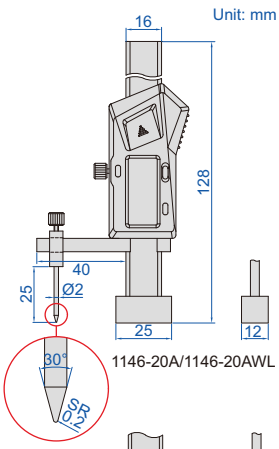
- Non waterproof
- Measure height difference of two surfaces (**1146-20B**, **1146-20BWL** suitable for surfaces with barrier, such as rivet)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



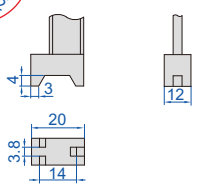
1146-20A



1146-20B



1146-20A/1146-20AWL



1146-20B/1146-20BWL

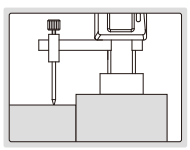
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1146-20A	0~±20mm/0~±0.8"	±0.02mm
1146-20B	0~±20mm/0~±0.8"	±0.02mm

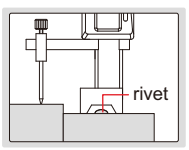
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1146-20AWL	0~±20mm/0~±0.8"	±0.02mm
1146-20BWL	0~±20mm/0~±0.8"	±0.02mm

application of **1146-20A/1146-20AWL**



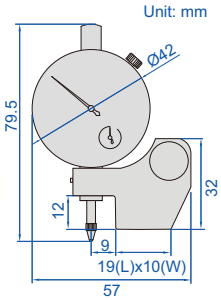
application of **1146-20B/1146-20BWL**



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DIAL HEIGHT GAGES

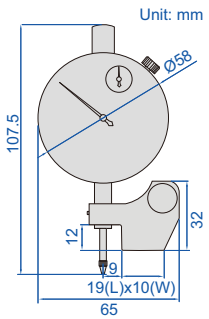




2147-4A

2147-4A

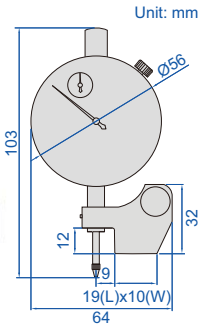




2147-4B

2147-4B

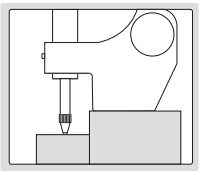




2147-21

2147-21

- Measure height difference of two surfaces

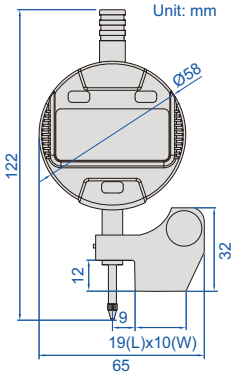


Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
2147-4A	0~±5mm (adjustable)	5mm	0.01mm	±0.014mm
2147-4B	0~±5mm	10mm	0.01mm	±0.017mm
2147-21	0~±2mm (adjustable)	2mm	0.001mm	±0.006mm

DATA OUTPUT

DIGITAL HEIGHT GAGES

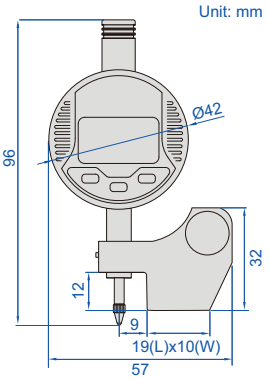




2146-4A

2146-4A
2146-41A



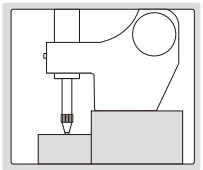


2146-4B

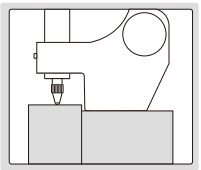
2146-4B
2146-41B

- Measure height difference of two surfaces
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)

measure sinked step



measure raised step

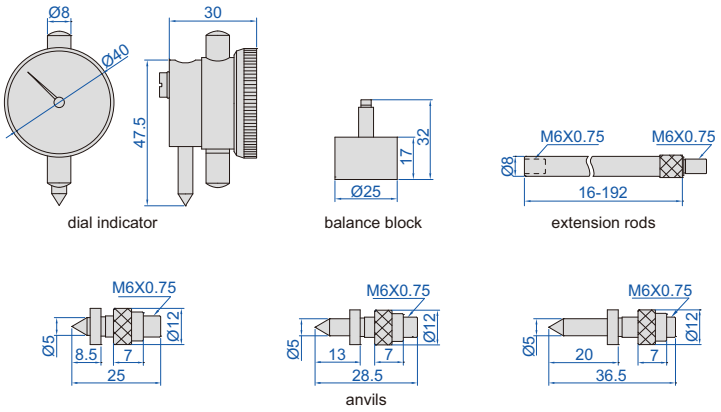


Code	Range (adjustable)	Digital indicator stroke	Digital indicator resolution	Accuracy
2146-4A	0~4mm/0~0.16" (sinked) 0~12.7mm/0~0.5" (raised)	12.7mm/0.5"	0.01mm/0.0005"	±0.02mm
2146-41A		12.7mm/0.5"	0.001mm/0.00005"	±0.005mm
2146-4B	0~4mm/0~0.16" (sinked) 0~5mm/0~0.2" (raised)	5mm/0.2"	0.01mm/0.0005"	±0.02mm
2146-41B		5mm/0.2"	0.001mm/0.00005"	±0.005mm

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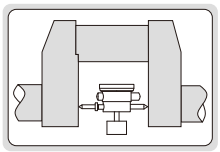
CRANKSHAFT TESTERS

Unit: mm





2841-500



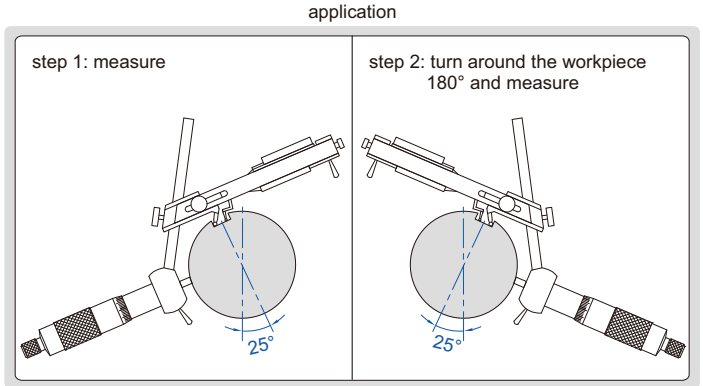
- To test crankshaft deflection
- The balance block is mounted on the back of dial indicator to keep the dial indicator facing up

Code	Range	Dial indicator range	Graduation	Extension rods	Accuracy
2841-300	60-300mm	3mm	0.01mm	16mm, 32mm, 64mm, 128mm	±0.016mm
2841-500	60-500mm	3mm	0.01mm	16mm, 32mm, 64mm, 96mm, 128mm, 192mm	±0.016mm

KEYWAY SYMMETRY GAGE

VIDEO

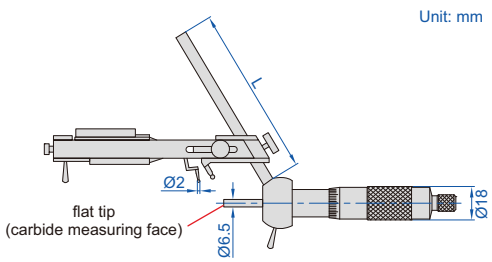
application





4865-14

Unit: mm



- Used to measure the symmetry of shaft keyways

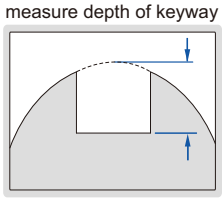
Code	Range		Graduation	Accuracy	L
	diameter of shaft	width of keyway			
4865-14	14-110mm	5-28mm	0.01mm	0.02mm	100mm

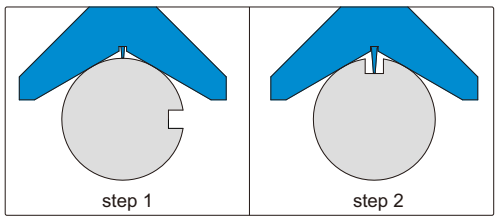
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DIGITAL KEYWAY DEPTH GAGE

DATA OUTPUT

measure depth of keyway

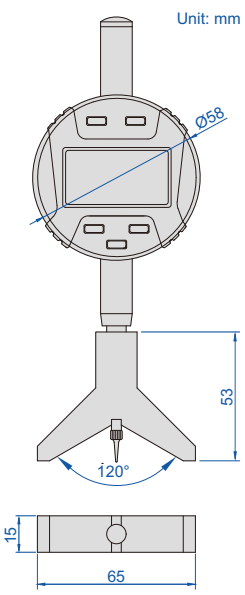




- Measure keyway depth of cylindrical workpieces with diameter Ø10-100mm
- Button function: on/off, zero, inch/metric conversion absolute/incremental measurement, data preset, measuring direction change
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Pointed tip
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)



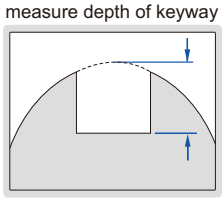
2182-25

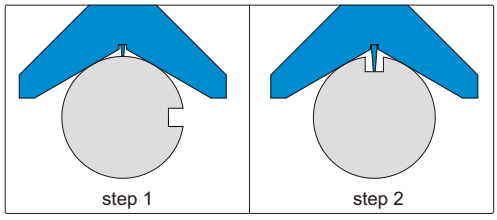


Code	Range	Resolution	Accuracy
2182-25	0-25.4mm/0-1"	0.01mm/0.0005"	±0.02mm

DIAL KEYWAY DEPTH GAGE

measure depth of keyway

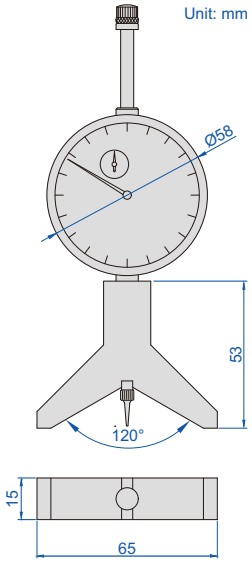




- Measure keyway depth of cylindrical workpieces with diameter Ø10-100mm
- Stainless steel base
- Pointed tip



2189-30



Code	Range	Graduation	Accuracy
2189-30	0-30mm	0.01mm	±0.03mm

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12 PETROLEUM PIPE THREAD MEASUREMENT

INSIZE



Thread Pitch Measuring Instruments
Page 269-270



Thread Taper Measuring Instruments
Page 271-273



Thread Height Measuring Instruments
Page 274-275



Thread Crest Diameter Measuring Instruments
Page 276-279



Groove Diameter Measuring Instruments
Page 280



Groove Width Measuring Instruments
Page 281



Calipers With Interchangeable Ball Tips
Page 282



RTJ Ring Groove Calipers
Page 282

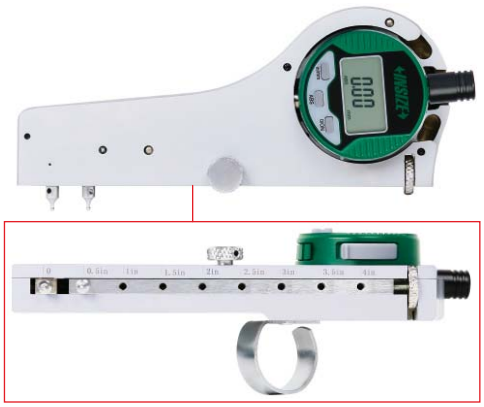


Thread Gages For Petroleum Equipment
Page 282

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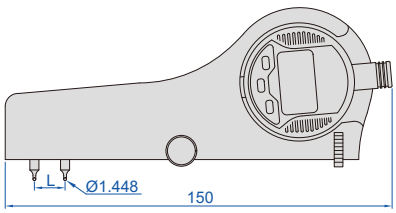
MEET INTERNATIONAL STANDARD API5B

DIGITAL THREAD PITCH MEASURING INSTRUMENT

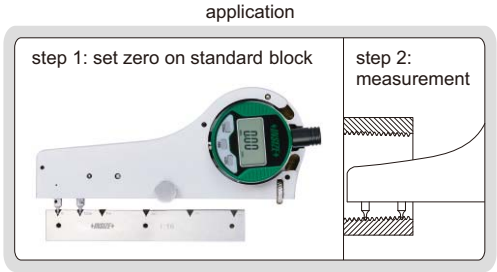


2245-4

Unit: mm



application



- Measure the pitch of external thread and internal thread with nominaldiameter larger than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13), ball points (code **6252** series), standard pitch blocks (code **6251** series)

Code	Range (L)	Digital indicator stroke	Resolution	Accuracy
2245-4	0.5-4"/12.7-101.6mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

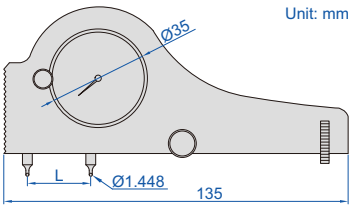
MEET INTERNATIONAL STANDARD API5B

THREAD PITCH MEASURING INSTRUMENTS

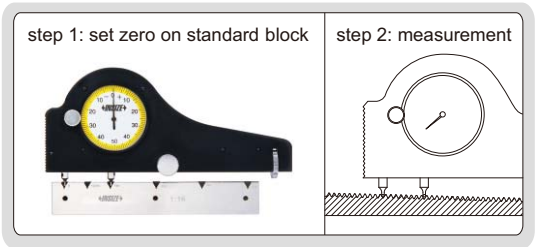
2234-4



Unit: mm



application



- Measure the pitch of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: ball points (code **6252** series), standard pitch blocks (code **6251** series)

Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
2234-4	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
2234-4E	0.5-4"/12.7-101.6mm	0.025"	0.0005"	0.0008"

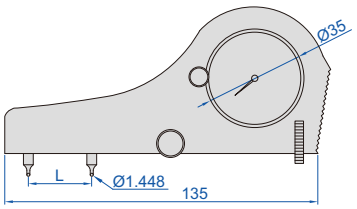
INTERNAL THREAD PITCH MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

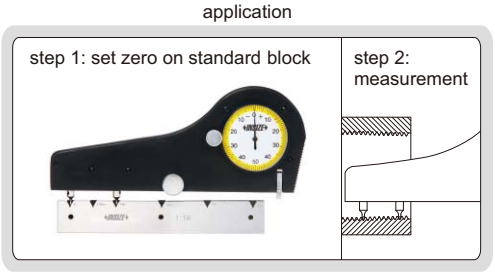


2235-4

Unit: mm



application



- Measure the pitch of internal thread with nominal diameter larger than 1 1/2" (38.1mm) and less than 5 1/2" (139.7mm)
- Optional accessory: ball points (code **6252** series), standard pitch blocks (code **6251** series)

Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
2235-4	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
2235-4E	0.5-4"/12.7-101.6mm	0.025"	0.0005"	0.0008"

STANDARD PITCH BLOCKS

CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

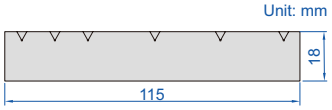


6251-S8

- Set zero of internal and external pitch measuring instruments (code **2234**, **2235**, **2245**)

Code	Taper	Threads per inch
6251-S8	1:16	8, 10
6251-S5	1:16	5
6251-S4	1:6	4

Unit: mm



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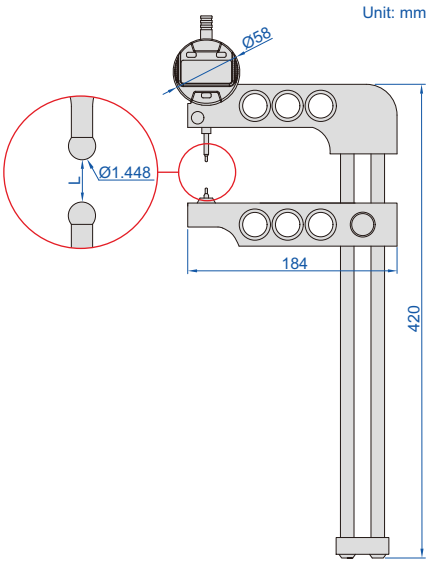
MEET INTERNATIONAL STANDARD API5B

DIGITAL EXTERNAL THREAD TAPER MEASURING INSTRUMENT

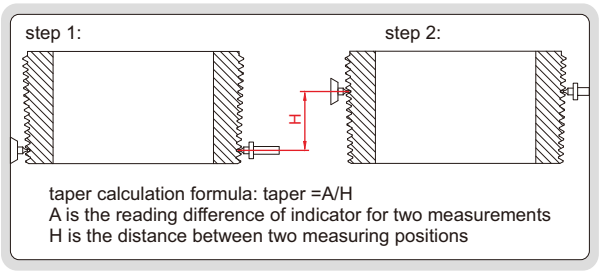
- Measure the taper of external thread
- Digital indicator stroke: 10mm/0.4"
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13), ball points (code **6252** series)



2240-10



principle of measurement



Code	Range (L)	Resolution	Accuracy
2240-10	0-10"/0-254mm	0.0005"/0.01mm	0.03mm

12

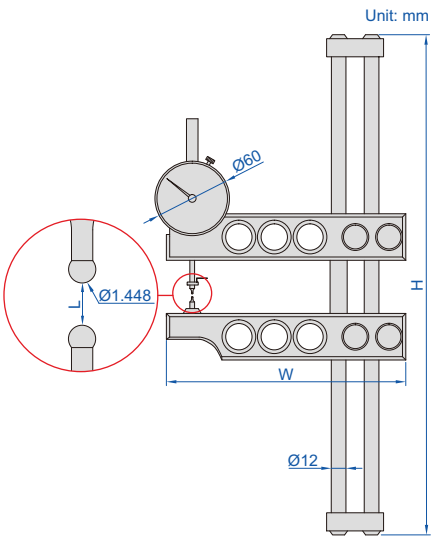
MEET INTERNATIONAL STANDARD API5B

EXTERNAL THREAD TAPER MEASURING INSTRUMENTS

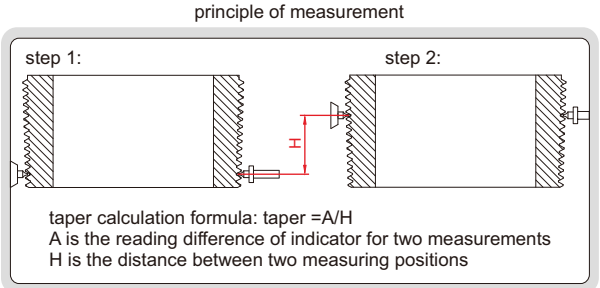
- Measure the taper of external thread
- Dial indicator stroke: 0.5"
- Dial indicator graduation: 0.001"
- Optional accessory: ball points (code **6252** series)



2230-10



principle of measurement



Code	Range (L)	Accuracy	H	W
2230-10	0-10"/0-254mm	0.0015"	400mm	200mm
2230-45	1-4 1/2"/25.4-114.3mm	0.0015"	278mm	178mm
2230-16	8-16"/203.2-406.4mm	0.0015"	600mm	260mm
2230-20	8-20"/203.2-508mm	0.0015"	680mm	260mm

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INTERNAL THREAD TAPER MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

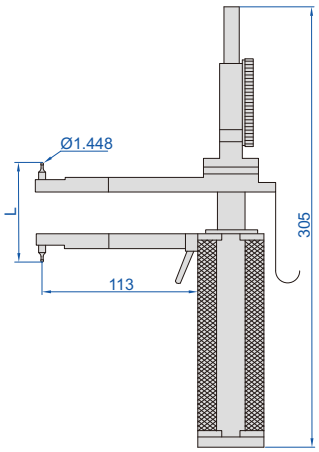


2231-6

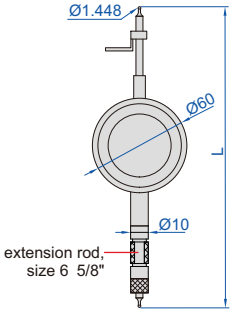


2231-16

Unit: mm

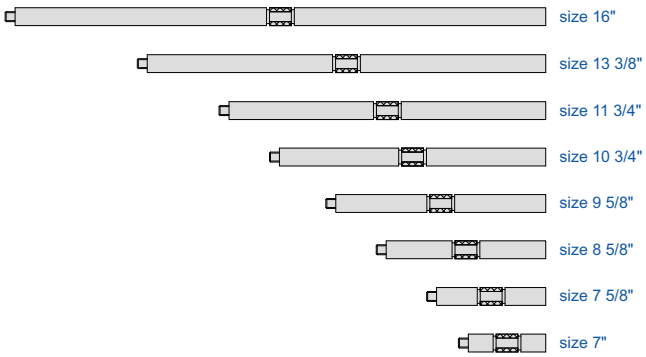


2231-6



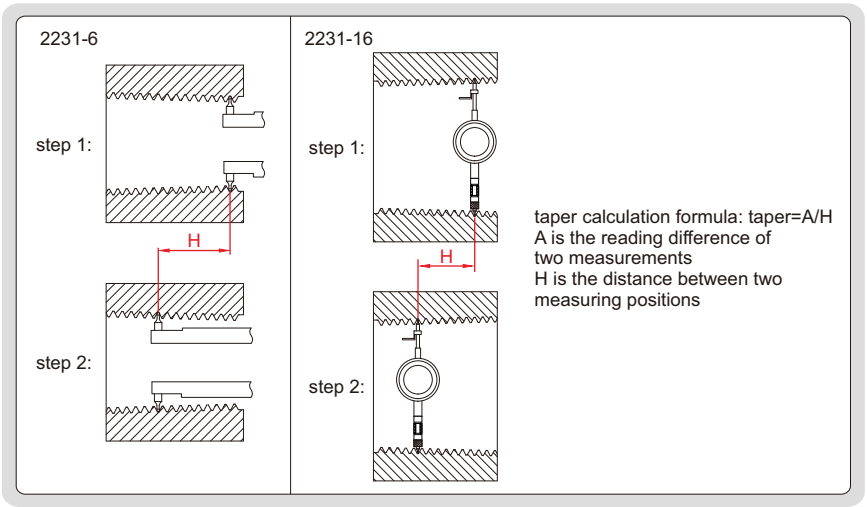
2231-16

Unit: mm



- Measure the taper of internal thread
- Optional accessory:
  ball points (code **6252** series)

principle of measurement



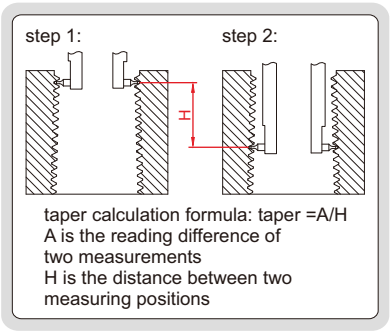
Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy	Remark
2231-6	1.5-6"/38.1-152.4mm	1"	0.001"	0.0015"	—
2231-16	5 1/2-16"/139.7-406.4mm	0.5"	0.001"	0.0015"	with 9 extension rods

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MEET INTERNATIONAL STANDARD API5B

DIGITAL INTERNAL THREAD TAPER MEASURING INSTRUMENT

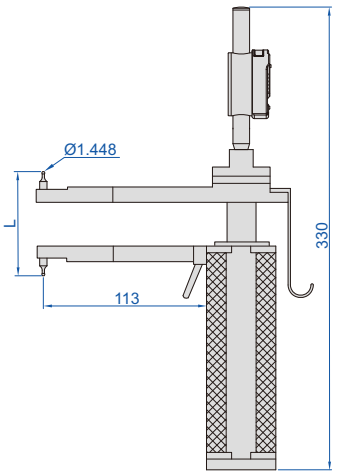
principle of measurement





2241-6

Unit: mm



- Measure the taper of internal thread
- Digital indicator stroke: 25.4mm/1"
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13), ball points (code **6252** series)

Code	Range (L)	Resolution	Accuracy
2241-6	1.5-6"/38.1-152.4mm	0.0005"/0.01mm	0.04mm

12

BALL POINTS

- Supplied in pair
- For taper measuring instruments (code **2230**, **2231**, **2240**, **2241**) and pitch measuring instruments (code **2234**, **2235**, **2245**)

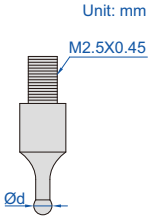


6252-B10

Code	Thread type	Threads per inch	Ball dia. (Ød)	
			taper	pitch
6252-B8	round thread, line pipe	8	1.829mm	1.829mm
6252-B10	round thread, line pipe	10	1.448mm	1.448mm
6252-B115	line pipe	11.5	1.27mm	1.27mm
6252-B14	line pipe	14	1.041mm	1.041mm
6252-B18	line pipe	18	0.813mm	0.813mm
6252-B27	line pipe	27	0.533mm	0.533mm
6252-B5	buttress thread	5	2.286mm	—
6252-B51	buttress thread	5	—	1.575mm
6252-B52	extreme line thread	5, 6	1.524mm	—
6252-B53	extreme line thread	5	—	2.667mm*
6252-B6	extreme line thread	6	—	2.210mm*

*0.58mm off the top of ball

Unit: mm

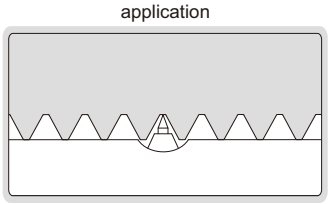


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DIGITAL INTERNAL THREAD HEIGHT MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

application

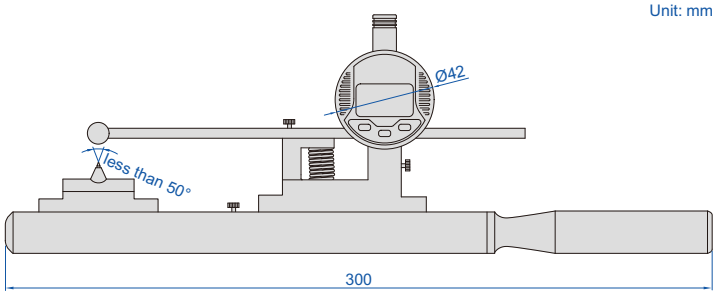




2243-35

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-50M** page 13), thread height standard blocks (code **6250**)

Unit: mm

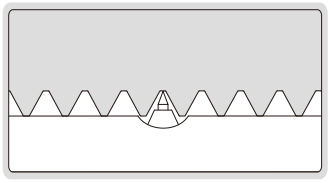


Code	Range	Resolution	Accuracy
2243-35	0-0.135"/0-3.5mm	0.005"/0.01mm	0.02mm

INTERNAL THREAD HEIGHT MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

application

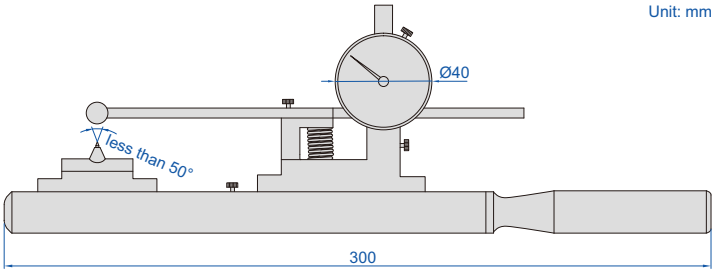




2233-35

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code **6250**)

Unit: mm



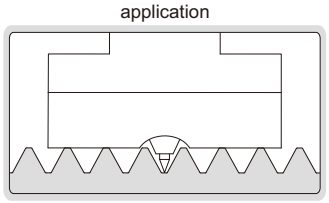
Code	Range	Dial indicator graduation	Accuracy
2233-35	0-3.5mm	0.01mm	0.02mm
2233-35E	0-1/4"	0.0005"	0.0008"

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DIGITAL THREAD HEIGHT MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

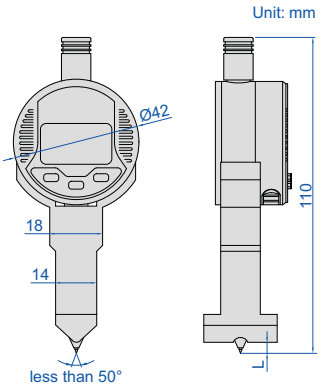
application



- Measure the height of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13), thread height standard blocks (code **6250**)



2242-35



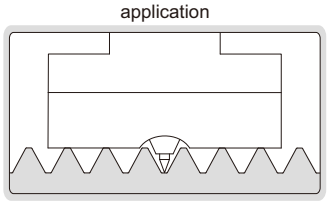
Code	Range (L)	Resolution	Accuracy
2242-35	0-0.135"/0-3.5mm	0.0005"/0.01mm	0.02mm

12

THREAD HEIGHT MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

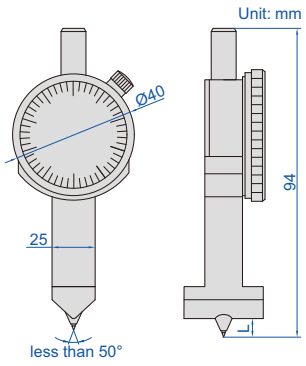
application



- Measure the height of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code **6250**)



2232-35



Code	Range (L)	Dial indicator graduation	Accuracy
2232-35	0-3.5mm	0.01mm	0.02mm
2232-35E	0-1/4"	0.0005"	0.0008"

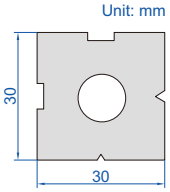
THREAD HEIGHT STANDARD BLOCKS

CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

- Set zero of internal and external thread height measuring instruments (code **2232**, **2233**, **2242**, **2243**)



6250-8



Code	Taper	Number of thread per inch
6250-4	1:4	4
6250-5	1:4	5
6250-8	1:16	8, 10
6250-51	1:16	5

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DIGITAL DEPTH GAGE (60° KNIFE EDGE BASE)

REFER TO PAGE 77 FOR DETAILS



front view side view

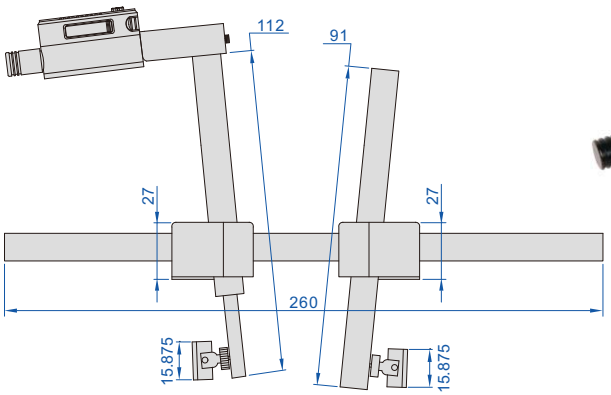
2143-101

DIGITAL INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENT

12

MEET INTERNATIONAL STANDARD API5B

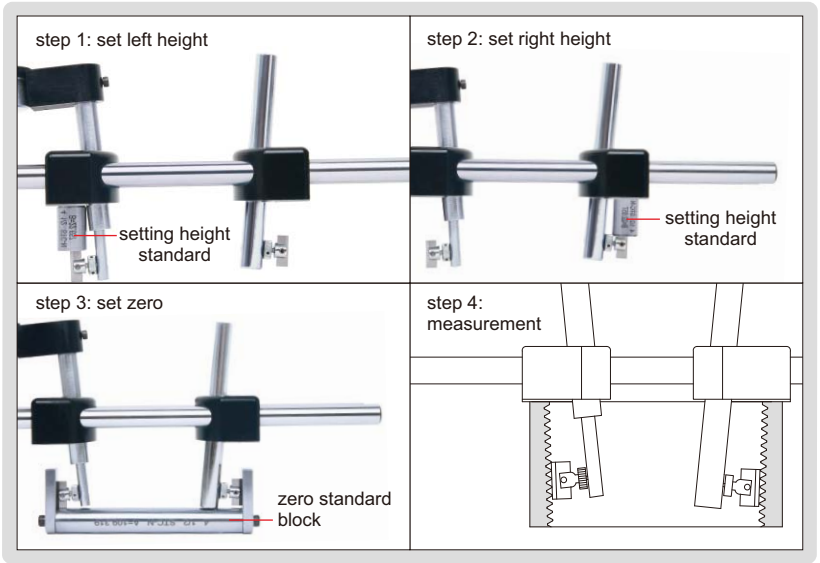
Unit: mm





2247-5

application



- Measure the crest diameter of internal thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13), height standard and zero standard block (code **2237-G□□□**, **2237-K□□□**)

Code	Range	Digital indicator stroke	Resolution	Accuracy
2247-5	2 3/8-5 1/2"/60.325-139.7mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

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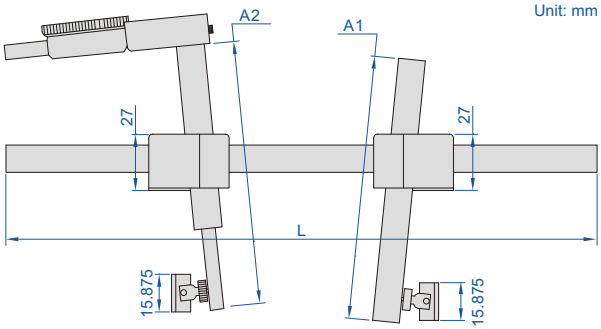
MEET INTERNATIONAL STANDARD API5B

INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS

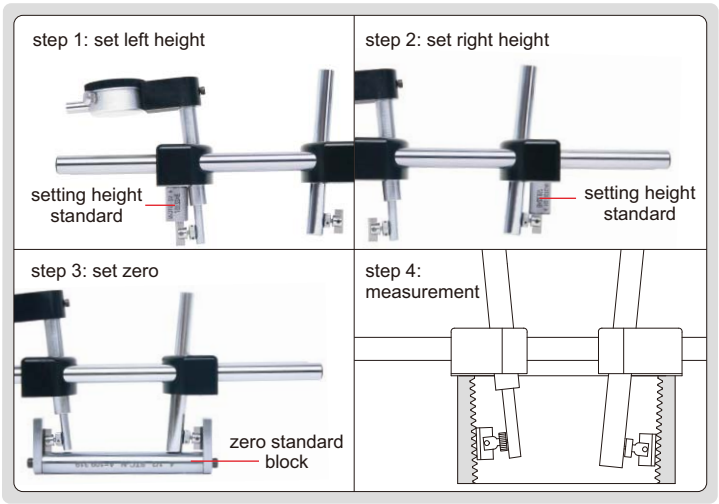


2237-5

Unit: mm



application



- Measure the crest diameter of internal thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 20" (508mm)
- Optional accessory: height standard and zero standard block

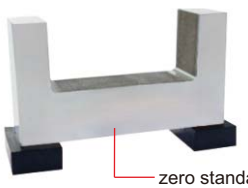
Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy	L	A1	A2
2237-5	2 3/8-5 1/2"/60.325-139.7mm	5mm	0.01mm	0.02mm	260mm	112mm	91mm
2237-5E	2 3/8-5 1/2"/60.325-139.7mm	0.25"	0.0005"	0.0008"	260mm	112mm	91mm
2237-20	4 1/2-20"/114.3-508mm	0.50"	0.0005"	0.002"	12", 18" or 24" *	177mm	182mm

* Select suitable length of arm according to workpieces


height standard



zero standard block A


zero standard block B

HEIGHT STANDARD AND ZERO STANDARD BLOCK (optional)

Code	Remark
2237-G□□□*	including height standard and zero standard block A (without taper)
2237-K□□□*	including height standard and zero standard block B (with taper)

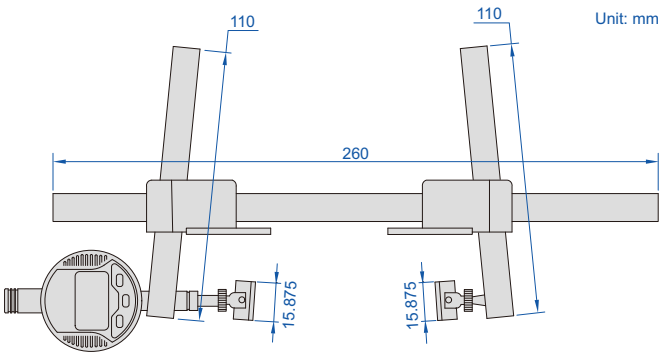
* Can be customized according to workpieces

DIGITAL EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

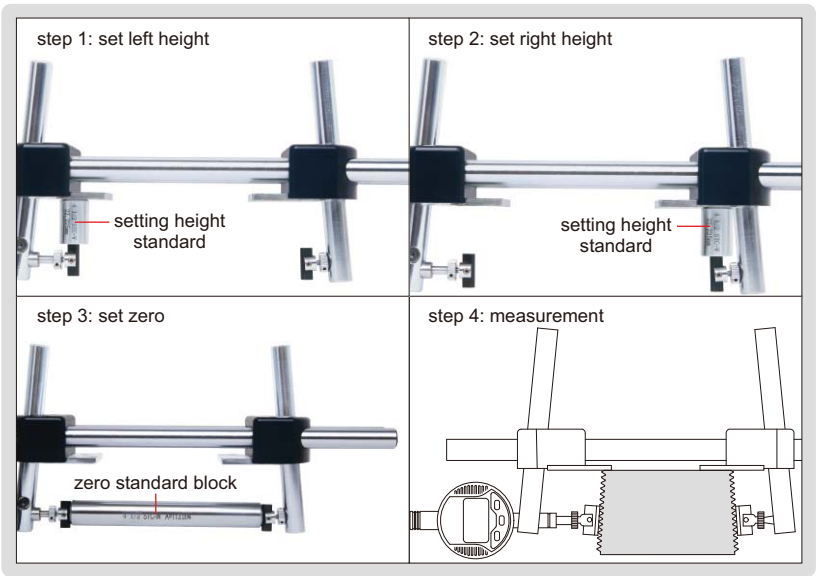


2246-5



- Measure the crest diameter of external thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13), height standard and zero standard block (code **2236-G□□□**, **2236-K□□□**)

application



Code	Range	Digital indicator stroke	Resolution	Accuracy
2246-5	2 3/8-5 1/2"/60.325-139.7mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

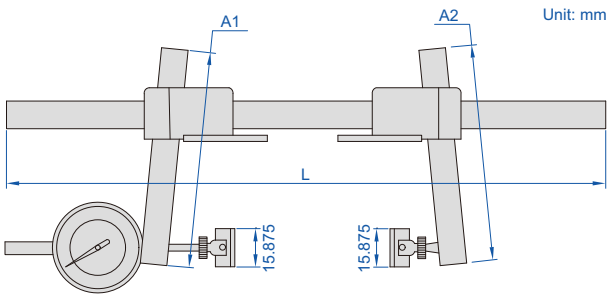
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MEET INTERNATIONAL STANDARD API5B

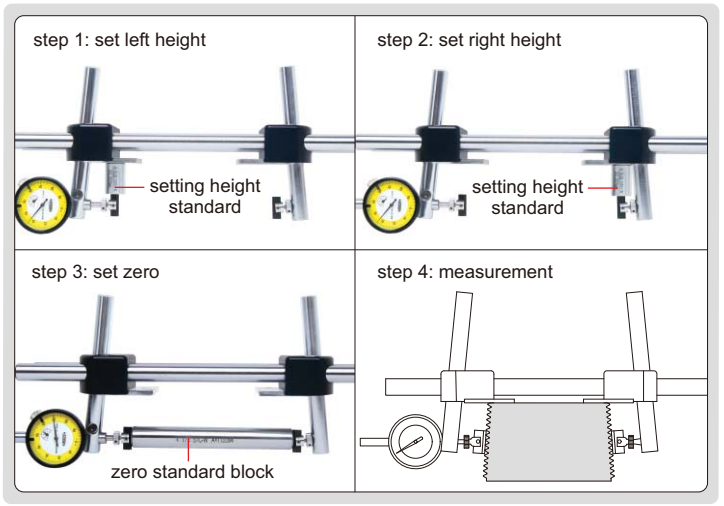
EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS



2236-5



application



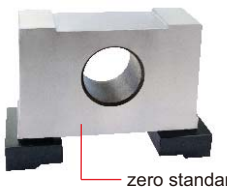
- Measure the crest diameter of external thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 20" (508mm)
- Optional accessory: height standard and zero standard block

Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy	L	A1	A2
2236-5	2 3/8-5 1/2"/60.325-139.7mm	5mm	0.01mm	0.02mm	260mm	110mm	110mm
2236-5E	2 3/8-5 1/2"/60.325-139.7mm	0.25"	0.0005"	0.0008"	260mm	110mm	110mm
2236-20	2 3/8-20"/60.325-508mm	0.50"	0.0005"	0.002"	12", 18" or 24"*	177mm	160mm

*Select suitable length of arm according to workpieces


height standard


zero standard block A


zero standard block B

HEIGHT STANDARD AND ZERO STANDARD BLOCK (optional)

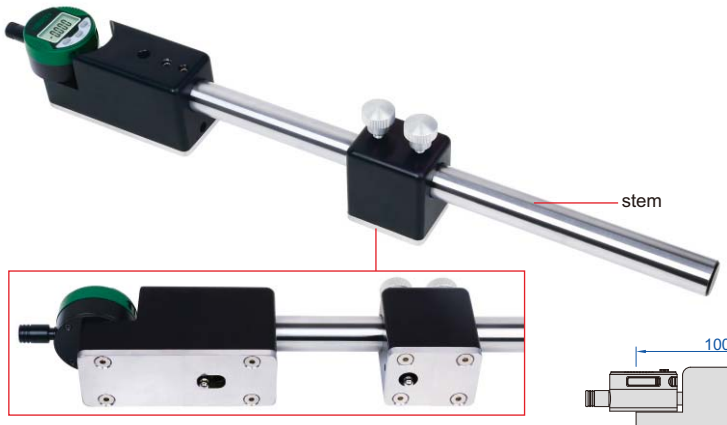
Code	Remark
2236-G□□□*	including height standard and zero standard block A (without taper)
2236-K□□□*	including height standard and zero standard block B (with taper)

*Can be customized according to workpieces

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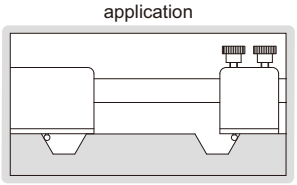
DIGITAL GROOVE DIAMETER MEASURING INSTRUMENT

POINT DIAMETER CAN BE CUSTOM-MADE

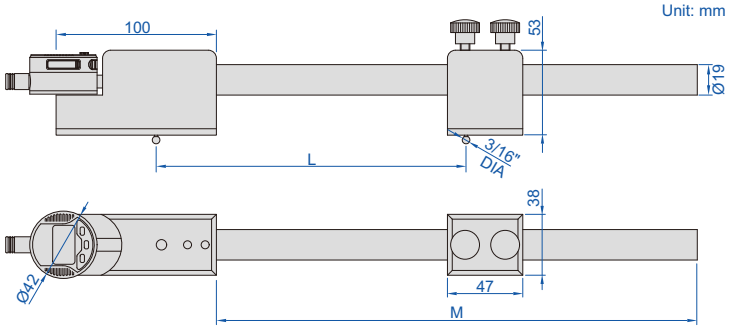


2261-5

application



Unit: mm



12

- Measure the groove diameter of flange ring groove
- Point height is adjustable
- Optional: data output cable (code **7315-50M** page 5, **7302-40M** page 13), groove standard block (code **6254**)

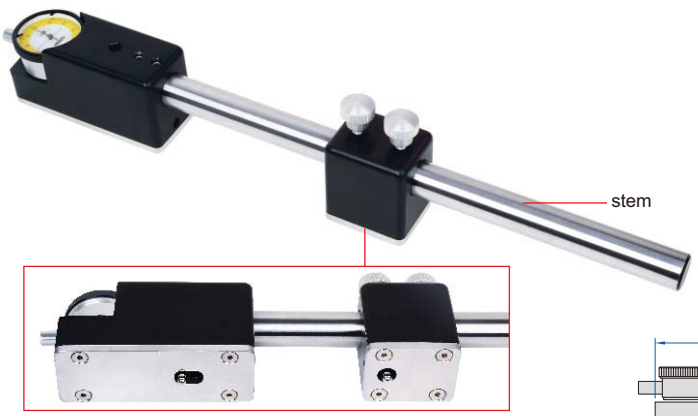
Code	Range (L)	Movable point stroke	Resolution	Repeatability	M
2261-5	2.6-13"/66-330mm	0.2"/5mm	0.00005"/0.001mm	0.002mm	12"/300mm

Stem (optional)

Code	M
2261-M24	24"/600mm
2261-M30	30"/750mm
2261-M36	36"/900mm

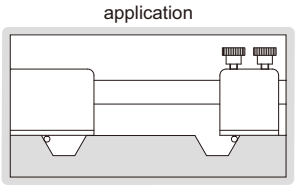
GROOVE DIAMETER MEASURING INSTRUMENTS

POINT DIAMETER CAN BE CUSTOM-MADE

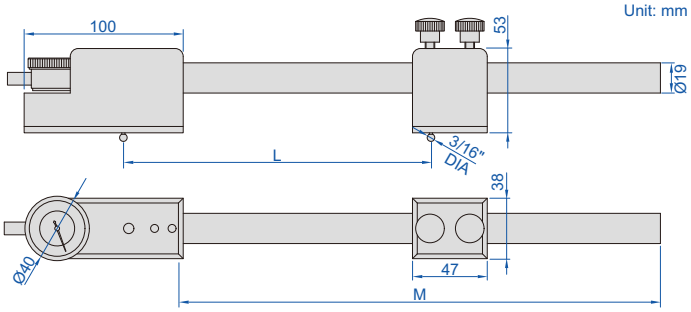


2251-5

application



Unit: mm



- Measure the groove diameter of flange ring groove
- Point height is adjustable
- Optional: groove standard block (code **6254**)

Code	Range (L)	Movable point stroke	Graduation	Repeatability	M
2251-5	2.6-13"/66-330mm	0.2"/5mm	0.01mm	0.005mm	12"/300mm
2251-5E	2.6-13"/66-330mm	0.2"/5mm	0.0005"	0.0002"	12"/300mm

Stem (optional)

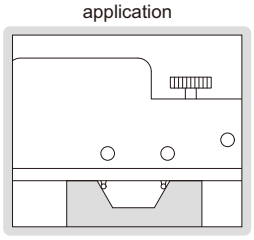
Code	M
2261-M24	24"/600mm
2261-M30	30"/750mm
2261-M36	36"/900mm

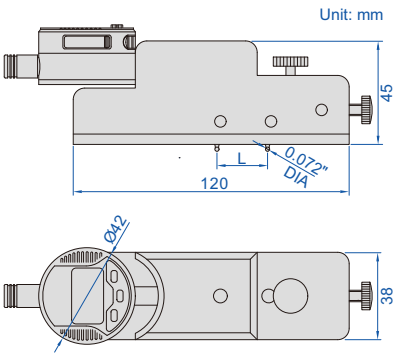
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DIGITAL GROOVE WIDTH MEASURING INSTRUMENT

POINT DIAMETER CAN BE CUSTOM-MADE

application







- Measure the groove width of flange ring groove
- Point height is adjustable
- Optional: data output cable (code **7315-50M** page 5, **7302-40M** page 13), groove standard block (code **6254**)

2260-4

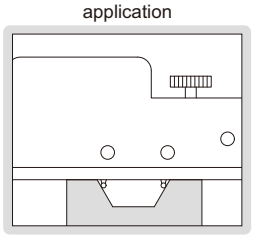
Code	Range (L)	Movable point stroke	Resolution	Repeatability
2260-4	0.55-1.4"/14-35.5mm	0.16"/4mm	0.00005"/0.001mm	0.002mm

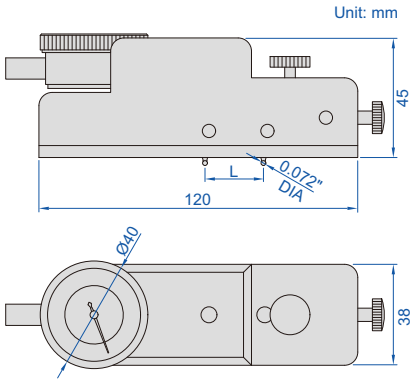
12

GROOVE WIDTH MEASURING INSTRUMENTS

POINT DIAMETER CAN BE CUSTOM-MADE

application







- Measure the groove width of flange ring groove
- Point height is adjustable
- Optional: groove standard block (code **6254**)

2250-4

Code	Range (L)	Movable point stroke	Graduation	Repeatability
2250-4	0.55-1.4"/14-35.5mm	0.16"/4mm	0.01mm	0.005mm
2250-4E	0.55-1.4"/14-35.5mm	0.16"/4mm	0.0005"	0.0002"

STANDARD GROOVE BLOCK CODE 6254

CUSTOM-MADE



- Set zero of groove width and groove diameter measuring instruments (code **2250**, **2251**, **2260**, **2261**)

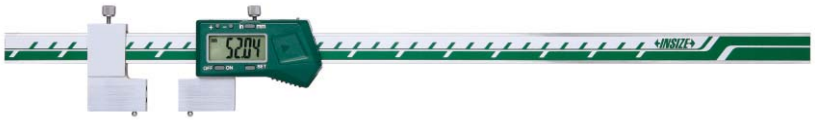
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DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS

REFER TO PAGE 59 FOR DETAILS



1527-3001



1528-3001

DIGITAL RTJ RING GROOVE CALIPERS

REFER TO PAGE 58 FOR DETAILS



1179-300



1179-600

THREAD GAGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT

REFER TO PAGE 331 FOR DETAILS



4177-23

CASING, TUBING AND LINE PIPE THREAD GAGES OF PETROLEUM AND GAS EQUIPMENT

REFER TO PAGE 332~333 FOR DETAILS



4178-21T

STANDARDS AND GAGE BLOCKS

13



Gage Blocks
Page 284-289



Caliper Inspection Gage Block Sets
Page 289-290



Micrometer Inspection Gage Block Sets
Page 290-291



Gage Block Holders
Page 291



Gage Block Accessories
Page 292



Cylinder Gage Blocks
Page 293



CMM Check Masters
Page 294-295



Caliper/Height Gage Checkers
Page 296



Angle Gage Blocks
Page 297



Taper Gages
Page 297



Pin Gages
Page 298-301



Pin Gage Handles
Page 301-303



Cylinder Gages
Page 304



Adjustable Snap Gages
Page 305



Setting Rings
Page 306



Plain Plug Gages
Page 307



Measuring Balls
Page 308-309



Threaded Hole Location Gages
Page 309-310



Thread Depth Gages
Page 311-312



Thread Ring/Plug Gages
Page 313-333

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GAGE BLOCKS

Accuracy according to ISO3650

Nominal length (mm)	Grade 0		Grade 1		Grade 2	
	Limit deviation of length	Tolerance for the variation in length	Limit deviation of length	Tolerance for the variation in length	Limit deviation of length	Tolerance for the variation in length
over 0.5 to 10	±0.12μm	0.10μm	±0.20μm	0.16μm	±0.45μm	0.30μm
over 10 to 25	±0.14μm	0.10μm	±0.30μm	0.16μm	±0.60μm	0.30μm
over 25 to 50	±0.20μm	0.10μm	±0.40μm	0.18μm	±0.80μm	0.30μm
over 50 to 75	±0.25μm	0.12μm	±0.50μm	0.18μm	±1.00μm	0.35μm
over 75 to 100	±0.30μm	0.12μm	±0.60μm	0.20μm	±1.20μm	0.35μm
over 100 to 150	±0.40μm	0.14μm	±0.80μm	0.20μm	±1.60μm	0.40μm
over 150 to 200	±0.50μm	0.16μm	±1.00μm	0.25μm	±2.00μm	0.40μm
over 200 to 250	±0.60μm	0.16μm	±1.20μm	0.25μm	±2.40μm	0.45μm
over 250 to 300	±0.70μm	0.18μm	±1.40μm	0.25μm	±2.80μm	0.50μm
over 300 to 400	±0.90μm	0.20μm	±1.80μm	0.30μm	±3.60μm	0.50μm
over 400 to 500	±1.10μm	0.25μm	±2.20μm	0.35μm	±4.40μm	0.60μm
over 500 to 600	±1.30μm	0.25μm	±2.60μm	0.40μm	±5.00μm	0.70μm
over 600 to 700	±1.50μm	0.30μm	±3.00μm	0.45μm	±6.00μm	0.70μm
over 700 to 800	±1.70μm	0.30μm	±3.40μm	0.50μm	±6.50μm	0.80μm
over 800 to 900	±1.90μm	0.35μm	±3.80μm	0.50μm	±7.50μm	0.90μm
over 900 to 1000	±2.00μm	0.40μm	±4.20μm	0.60μm	±8.00μm	1.00μm

Grade and application

Grade	Application
0	To be used as basic standards in calibration laboratories by skilled inspection staff, to calibrate or set high accuracy measuring instruments, to calibrate gage blocks of grade 1 and 2.
1	To be used in inspection rooms, to check gages, inspect high accuracy parts and set measuring instruments.
2	To be used in workshops, to check production gages, set measuring instruments and mount tools.

WEAR BLOCK SETS

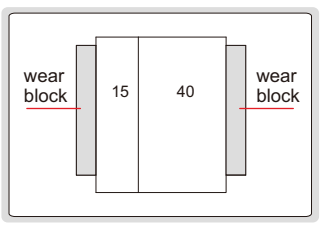
INSPECTION CERTIFICATE

- Protect the measuring surfaces of gage blocks from excessive wear
- Meet ISO3650
- Supplied with manufacturer inspection certificate



4111-2

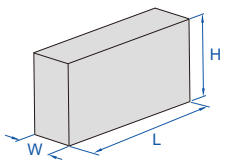
Blocks per set	Size	Material	Code	
			Grade 0	Grade 1
2	1.0mm	ceramic	**4111-1**	**4111-11**
2	1.0mm	alloy steel	**4111-1A**	**4111-11A**
2	2.0mm	ceramic	**4111-2**	**4111-12**
2	2.0mm	alloy steel	**4111-2A**	**4111-12A**



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INSPECTION CERTIFICATE

CERAMIC GAGE BLOCK SETS



Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm



4105-87

- Made of ceramic, extremely wear resistance and corrosion resistance, excellent dimension stability
- Meet ISO3650
- Supplied with manufacturer inspection certificate

Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
112	1.0005		1	4105-112	4105-1112
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
103	1.005		1	4105-103	4105-1103
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
88	1.0005		1	4105-88	4105-188
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-100	10	10		
87	1.001-1.009	0.001	9	4105-87	4105-187
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-100	10	10		
76	1.005		1	4105-76	4105-176
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-40	10	4		
	50-100	25	3		
56	0.5		1	4105-56	4105-156
	1.001-1.009	0.001	9		
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	1	24		
	25-100	25	4		

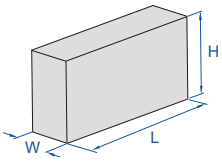
Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
47	1.005		1	4105-47A	4105-147A
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	1	24		
	25-100	25	4		
47	1.005		1	4105-47	4105-147
	1.01-1.19	0.01	19		
	1.2-1.9	0.1	8		
	1-9	1	9		
	10-100	10	10		
46	1.001-1.009	0.001	9	4105-46	4105-146
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-100	10	10		
34	1.0005		1	4105-34	4105-134
	1.001-1.009	0.001	9		
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-5	1	5		
	10		1		
32	1.005		1	4105-32	4105-132
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-30	10	3		
	50		1		

CERAMIC INDIVIDUAL GAGE BLOCKS

INSPECTION CERTIFICATE



4106-A80



Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

- Grade 0 and 1 gage blocks are available
- Made of ceramic, extremely wear resistance and corrosion resistance
- Meet ISO3650
- Supplied with manufacturer inspection certificate

Code explanation:

4106-X□□□□□

→ **A for grade 0**

→ **B for grade 1**

Code examples:

Size (L)	Grade	Code
0.5mm	**0**	**4106-AD5**
10mm	**1**	**4106-B10**

Size	Code
0.5mm	**4106-XD5**
1mm	**4106-X1**
1.0005mm	**4106-X1D0005**
1.001mm	**4106-X1D001**
1.002mm	**4106-X1D002**
1.003mm	**4106-X1D003**
1.004mm	**4106-X1D004**
1.005mm	**4106-X1D005**
1.006mm	**4106-X1D006**
1.007mm	**4106-X1D007**
1.008mm	**4106-X1D008**
1.009mm	**4106-X1D009**
1.01mm	**4106-X1D01**
1.02mm	**4106-X1D02**
1.03mm	**4106-X1D03**
1.04mm	**4106-X1D04**
1.05mm	**4106-X1D05**
1.06mm	**4106-X1D06**
1.07mm	**4106-X1D07**
1.08mm	**4106-X1D08**
1.09mm	**4106-X1D09**
1.1mm	**4106-X1D1**
1.11mm	**4106-X1D11**
1.12mm	**4106-X1D12**
1.13mm	**4106-X1D13**
1.14mm	**4106-X1D14**
1.15mm	**4106-X1D15**
1.16mm	**4106-X1D16**
1.17mm	**4106-X1D17**
1.18mm	**4106-X1D18**
1.19mm	**4106-X1D19**
1.2mm	**4106-X1D2**
1.21mm	**4106-X1D21**
1.22mm	**4106-X1D22**

Size	Code
1.23mm	**4106-X1D23**
1.24mm	**4106-X1D24**
1.25mm	**4106-X1D25**
1.26mm	**4106-X1D26**
1.27mm	**4106-X1D27**
1.28mm	**4106-X1D28**
1.29mm	**4106-X1D29**
1.3mm	**4106-X1D3**
1.31mm	**4106-X1D31**
1.32mm	**4106-X1D32**
1.33mm	**4106-X1D33**
1.34mm	**4106-X1D34**
1.35mm	**4106-X1D35**
1.36mm	**4106-X1D36**
1.37mm	**4106-X1D37**
1.38mm	**4106-X1D38**
1.39mm	**4106-X1D39**
1.4mm	**4106-X1D4**
1.41mm	**4106-X1D41**
1.42mm	**4106-X1D42**
1.43mm	**4106-X1D43**
1.44mm	**4106-X1D44**
1.45mm	**4106-X1D45**
1.46mm	**4106-X1D46**
1.47mm	**4106-X1D47**
1.48mm	**4106-X1D48**
1.49mm	**4106-X1D49**
1.5mm	**4106-X1D5**
1.6mm	**4106-X1D6**
1.7mm	**4106-X1D7**
1.8mm	**4106-X1D8**
1.9mm	**4106-X1D9**
2mm	**4106-X2**
2.5mm	**4106-X2D5**

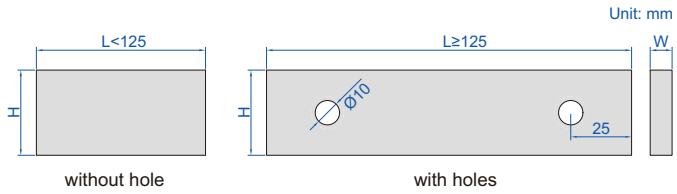
Size	Code
3mm	**4106-X3**
3.5mm	**4106-X3D5**
4mm	**4106-X4**
4.5mm	**4106-X4D5**
5mm	**4106-X5**
5.1mm	**4106-X5D1**
5.5mm	**4106-X5D5**
6mm	**4106-X6**
6.5mm	**4106-X6D5**
7mm	**4106-X7**
7.5mm	**4106-X7D5**
7.7mm	**4106-X7D7**
8mm	**4106-X8**
8.5mm	**4106-X8D5**
9mm	**4106-X9**
9.5mm	**4106-X9D5**
10mm	**4106-X10**
10.3mm	**4106-X10D3**
10.5mm	**4106-X10D5**
11mm	**4106-X11**
11.5mm	**4106-X11D5**
12mm	**4106-X12**
12.5mm	**4106-X12D5**
12.9mm	**4106-X12D9**
13mm	**4106-X13**
13.5mm	**4106-X13D5**
14mm	**4106-X14**
14.5mm	**4106-X14D5**
15mm	**4106-X15**
15.5mm	**4106-X15D5**
16mm	**4106-X16**
16.5mm	**4106-X16D5**
17mm	**4106-X17**
17.5mm	**4106-X17D5**

Size	Code
17.6mm	**4106-X17D6**
18mm	**4106-X18**
18.5mm	**4106-X18D5**
19mm	**4106-X19**
19.5mm	**4106-X19D5**
20mm	**4106-X20**
20.2mm	**4106-X20D2**
20.5mm	**4106-X20D5**
21mm	**4106-X21**
21.5mm	**4106-X21D5**
22mm	**4106-X22**
22.5mm	**4106-X22D5**
22.8mm	**4106-X22D8**
23mm	**4106-X23**
23.5mm	**4106-X23D5**
24mm	**4106-X24**
24.5mm	**4106-X24D5**
25mm	**4106-X25**
30mm	**4106-X30**
40mm	**4106-X40**
41.3mm	**4106-X41D3**
50mm	**4106-X50**
60mm	**4106-X60**
70mm	**4106-X70**
75mm	**4106-X75**
80mm	**4106-X80**
90mm	**4106-X90**
100mm	**4106-X100**
125mm	**4106-X125**
131.4mm	**4106-X131D4**
150mm	**4106-X150**

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STEEL GAGE BLOCK SETS

INSPECTION CERTIFICATE



without hole　　with holes

Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Code example:
"**-122**" stands for "**4100-122**"

- Made of alloy steel
- Meet ISO3650
- Gage blocks ≥125mm have clamping holes
- Supplied with manufacturer inspection certificate



POPULAR MODEL

4100-87

Blocks per set	Gage blocks included in set			Code (4100)		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
122	1.0005		1	-122	-1122	-2122
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	1.6-1.9	0.1	4			
	0.5-24.5	0.5	49			
	30-100	10	8			
	25-75	50	2			
112	1.0005		1	-112	-1112	-2112
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
103	1.005		1	-103	-1103	-2103
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
88	1.0005		1	-88	-188	-288
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
87	1.001-1.009	0.001	9	-87	-187	-287
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
83	0.5		1	-83	-183	-283
	1		1			
	1.005		1			
	1.01-1.49	0.01	49			
	1.5-1.9	0.1	5			
	2-9.5	0.5	16			
	10-100	10	10			
76	1.005		1	-76	-176	-276
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-40	10	4			
	50-100	25	3			

Blocks per set	Gage blocks included in set			Code (4100)		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
56	0.5		1	-56	-156	-256
	1.001-1.009	0.001	9			
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-24	1	24			
	25-100	25	4			
47	1.005		1	-47A	-147A	-247A
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-24	1	24			
	25-100	25	4			
47	1.005		1	-47	-147	-247
	1.01-1.19	0.01	19			
	1.2-1.9	0.1	8			
	1-9	1	9			
	10-100	10	10			
46	1.001-1.009	0.001	9	-46	-146	-246
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-100	10	10			
34	1.0005		1	-34	-134	-234
	1.001-1.009	0.001	9			
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-5	1	5			
	10		1			
32	1.005		1	-32	-132	-232
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-30	10	3			
	50		1			
9	1.001-1.009	0.001	9	-9	-19	-29
9	0.991-0.999	0.001	9	-9A	-19A	-29A
8	125-175	25	3	-8	-18	-28
	200-250	50	2			
	300-500	100	3			

STEEL INDIVIDUAL GAGE BLOCKS

CUSTOM-MADE
CAN SUPPLY ANY SIZES FROM 0.5 TO 1000MM, SUCH AS 72.672MM

INSPECTION CERTIFICATE

- Grade 0, 1 and 2 gage blocks are available
- Made of alloy steel
- Meet ISO3650
- Gage blocks with clamping holes: 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000mm
- Supplied with manufacturer inspection certificate

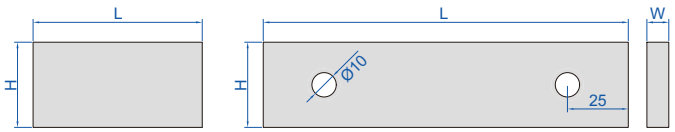


4101-A70



4101-A200

Unit: mm



Code explanation:

4101-X□□□□□

- A for grade 0
- B for grade 1
- C for grade 2

Code examples:

Size (L)	Grade	Code
0.5mm	0	4101-AD5
1mm	1	4101-B1
10.5mm	2	4101-C10D5

Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

13

Size	Code
0.5mm	4101-XD5
0.991mm	4101-XD991
0.992mm	4101-XD992
0.993mm	4101-XD993
0.994mm	4101-XD994
0.995mm	4101-XD995
0.996mm	4101-XD996
0.997mm	4101-XD997
0.998mm	4101-XD998
0.999mm	4101-XD999
1mm	4101-X1
1.0005mm	4101-X1D0005
1.001mm	4101-X1D001
1.002mm	4101-X1D002
1.003mm	4101-X1D003
1.004mm	4101-X1D004
1.005mm	4101-X1D005
1.006mm	4101-X1D006
1.007mm	4101-X1D007
1.008mm	4101-X1D008
1.009mm	4101-X1D009
1.01mm	4101-X1D01
1.02mm	4101-X1D02
1.03mm	4101-X1D03
1.04mm	4101-X1D04
1.05mm	4101-X1D05
1.06mm	4101-X1D06
1.07mm	4101-X1D07
1.08mm	4101-X1D08
1.09mm	4101-X1D09
1.1mm	4101-X1D1
1.11mm	4101-X1D11
1.12mm	4101-X1D12
1.13mm	4101-X1D13
1.14mm	4101-X1D14
1.15mm	4101-X1D15
1.16mm	4101-X1D16
1.17mm	4101-X1D17
1.18mm	4101-X1D18

Size	Code
1.19mm	4101-X1D19
1.2mm	4101-X1D2
1.21mm	4101-X1D21
1.22mm	4101-X1D22
1.23mm	4101-X1D23
1.24mm	4101-X1D24
1.25mm	4101-X1D25
1.26mm	4101-X1D26
1.27mm	4101-X1D27
1.28mm	4101-X1D28
1.29mm	4101-X1D29
1.3mm	4101-X1D3
1.31mm	4101-X1D31
1.32mm	4101-X1D32
1.33mm	4101-X1D33
1.34mm	4101-X1D34
1.35mm	4101-X1D35
1.36mm	4101-X1D36
1.37mm	4101-X1D37
1.38mm	4101-X1D38
1.39mm	4101-X1D39
1.4mm	4101-X1D4
1.41mm	4101-X1D41
1.42mm	4101-X1D42
1.43mm	4101-X1D43
1.44mm	4101-X1D44
1.45mm	4101-X1D45
1.46mm	4101-X1D46
1.47mm	4101-X1D47
1.48mm	4101-X1D48
1.49mm	4101-X1D49
1.5mm	4101-X1D5
1.6mm	4101-X1D6
1.7mm	4101-X1D7
1.8mm	4101-X1D8
1.9mm	4101-X1D9
2mm	4101-X2
2.5mm	4101-X2D5
3mm	4101-X3

Size	Code
3.5mm	4101-X3D5
4mm	4101-X4
4.5mm	4101-X4D5
5mm	4101-X5
5.1mm	4101-X5D1
5.5mm	4101-X5D5
6mm	4101-X6
6.5mm	4101-X6D5
7mm	4101-X7
7.5mm	4101-X7D5
7.7mm	4101-X7D7
8mm	4101-X8
8.5mm	4101-X8D5
9mm	4101-X9
9.5mm	4101-X9D5
10mm	4101-X10
10.3mm	4101-X10D3
10.5mm	4101-X10D5
11mm	4101-X11
11.5mm	4101-X11D5
12mm	4101-X12
12.5mm	4101-X12D5
12.9mm	4101-X12D9
13mm	4101-X13
13.5mm	4101-X13D5
14mm	4101-X14
14.5mm	4101-X14D5
15mm	4101-X15
15.5mm	4101-X15D5
16mm	4101-X16
16.5mm	4101-X16D5
17mm	4101-X17
17.5mm	4101-X17D5
17.6mm	4101-X17D6
18mm	4101-X18
18.5mm	4101-X18D5
19mm	4101-X19
19.5mm	4101-X19D5
20mm	4101-X20

Size	Code
20.2mm	4101-X20D2
20.5mm	4101-X20D5
21mm	4101-X21
21.5mm	4101-X21D5
22mm	4101-X22
22.5mm	4101-X22D5
22.8mm	4101-X22D8
23mm	4101-X23
23.5mm	4101-X23D5
24mm	4101-X24
24.5mm	4101-X24D5
25mm	4101-X25
30mm	4101-X30
35mm	4101-X35
40mm	4101-X40
41.3mm	4101-X41D3
45mm	4101-X45
50mm	4101-X50
60mm	4101-X60
70mm	4101-X70
75mm	4101-X75
80mm	4101-X80
90mm	4101-X90
100mm	4101-X100
125mm	4101-X125
131.4mm	4101-X131D4
150mm	4101-X150
175mm	4101-X175
200mm	4101-X200
250mm	4101-X250
300mm	4101-X300
400mm	4101-X400
500mm	4101-X500
600mm	4101-X600
700mm	4101-X700
750mm	4101-X750
800mm	4101-X800
900mm	4101-X900
1000mm	4101-X1000

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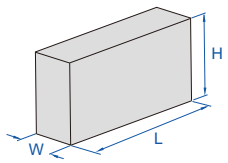
INSPECTION CERTIFICATE

CARBIDE GAGE BLOCK SETS

- Made of carbide, extremely wear resistance and corrosion resistance, excellent dimension stability
- Meet ISO3650
- Supplied with manufacturer inspection certificate



4164-32



Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
122	1.0005		1	4164-122	4164-1122
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	1.6-1.9	0.1	4		
	0.5-24.5	0.5	49		
	30-100	10	8		
	25-75	50	2		
112	1.0005		1	4164-112	4164-1112
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
103	1.005		1	4164-103	4164-1103
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
87	1.001-1.009	0.001	9	4164-87	4164-187
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-100	10	10		
83	0.5		1	4164-83	4164-183
	1		1		
	1.005		1		
	1.01-1.49	0.01	49		
	1.5-1.9	0.1	5		
	2-9.5	0.5	16		
	10-100	10	10		

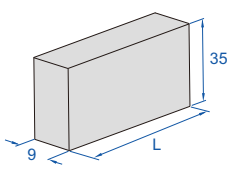
Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
76	1.005		1	4164-76	4164-176
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-40	10	4		
	50-100	25	3		
47	1.005		1	4164-47A	4164-147A
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	1	24		
	25-100	25	4		
47	1.005		1	4164-47	4164-147
	1.01-1.19	0.01	19		
	1.2-1.9	0.1	8		
	1-9	1	9		
	10-100	10	10		
46	1.001-1.009	0.001	9	4164-46	4164-146
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-100	10	10		
32	1.005		1	4164-32	4164-132
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-30	10	3		
	50		1		

CALIPER INSPECTION GAGE BLOCK SET



4108-3005

Unit: mm



INSPECTION CERTIFICATE

- Meet ISO3650/grade 2
- Supplied with manufacturer inspection certificate

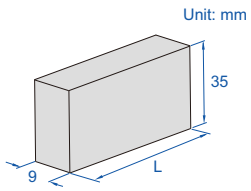
(mm)

Code	Material	Gage blocks included in set (L)	Applicable calipers
4108-3005	alloy steel	30, 41.3, 131.4, 243.5, 281.2	0-150, 0-200, 0-300

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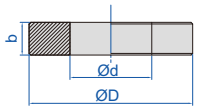
CALIPER INSPECTION GAGE BLOCK AND RING GAGE SETS

INSPECTION CERTIFICATE





4176-30



Ring gage sizes:

diameter (Ød)*	b	ØD
Ø4mm	5mm	22mm
Ø25mm	14mm	53mm

* The size of the ring gage when supplied may have deviation. For example, the size Ø25mm may be 24.996mm

- Gage blocks meet ISO3650
  Ring gages meet DIN2250-1:2008
- Supplied with manufacturer inspection certificate

13

Grade of gage blocks: 2 **(mm)**

Code	Material	Gage blocks included in set (L)	Ring gages included in set (Ød)	Applicable calipers
4176-30	alloy steel	30, 41.3, 131.4	4, 25	0-150

Grade of gage blocks: 1 **(mm)**

Code	Material	Gage blocks included in set (L)	Ring gages included in set (Ød)	Applicable calipers
4176-301	alloy steel	30, 41.3, 131.4	4, 25	0-150

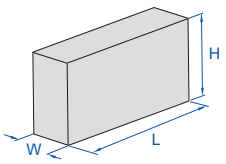
MICROMETER INSPECTION GAGE BLOCK SETS

INSPECTION CERTIFICATE

- One piece of optical flat is included in **4107-10** and **4107-101**
- Meet ISO3650/grade 0
- Supplied with manufacturer inspection certificate



4107-10



Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Code	Material	Gage blocks included in set (mm)	Applicable micrometer	Optical flat
4107-10	ceramic	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25, optical flat	0-25mm	included
4107-101	alloy steel	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25, optical flat	0-25mm	included
4107-112	alloy steel	25, 27.5, 30.1, 32.7, 35.3, 37.9, 40, 42.6, 45.2, 47.8, 50	25-50mm	not included
4107-113	alloy steel	50, 52.5, 55.1, 57.7, 60.3, 62.9, 65, 67.6, 70.2, 72.8, 75	50-75mm	not included
4107-114	alloy steel	75, 77.5, 80.1, 82.7, 85.3, 87.9, 90, 92.6, 95.2, 97.8, 100	75-100mm	not included
4107-115	alloy steel	5.12, 10.24, 15.36, 21.5, 25, 30.12, 35.24, 40.36, 46.5, 50, 55.12, 60.24, 65.36, 71.5, 75, 80.12, 85.24, 90.36, 96.5, 100	0-100mm	not included

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INSPECTION CERTIFICATE

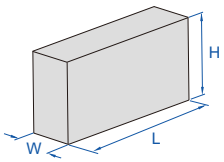
MICROMETER INSPECTION GAGE BLOCK SET

application





4160-10



Dimension:

Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

- Meet ISO3650/grade 0
- One piece of optical flat is included (size Ø30x12mm)
- Supplied with manufacturer inspection certificate

optical flat (included)



Code	Material	Gage blocks included in set	Applicable micrometer
4160-10	alloy steel	2.5mm, 5.1mm, 7.7mm, 10.3mm, 12.9mm, 15mm, 17.6mm, 20.2mm, 22.8mm, 25mm	0-25mm

13

GAGE BLOCK HOLDERS

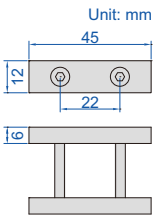
- Made of aluminum
- To be used with individual steel gage blocks (code **4101**) as Go and No-Go gage

Code	Applicable gage block size
6883-1	1.5-5mm
6883-2	5-10mm
6883-3	10-15mm
6883-4	15-20mm
6883-5	20-25mm



6883-4

Unit: mm



to be used as Go and No-Go gage



VIDEO

GAGE BLOCK HOLDER

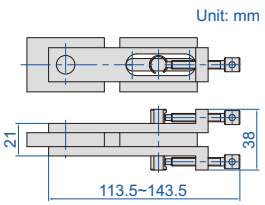
- For gage blocks over 125mm with clamping holes
- Optional accessory: gage block holder accessory, gage block accessory (code **6881**)

Code
6886-1



6886-1

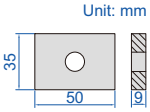
Unit: mm



GAGE BLOCK HOLDER ACCESSORY



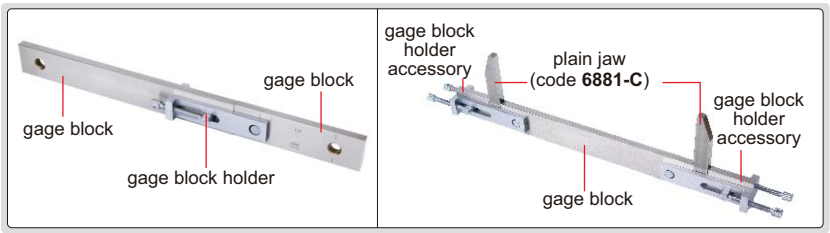
Unit: mm



Code
6886-A

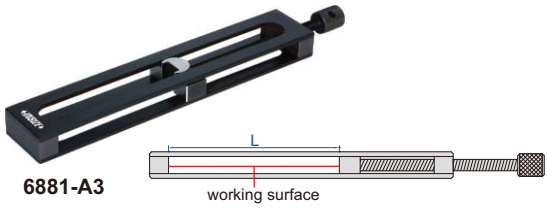
6886-A

application



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GAGE BLOCK ACCESSORIES



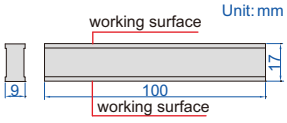
6881-A3

Code	Name	Clamping range* (L)
6881-A1	holder	0-25mm
6881-A2	holder	25-50mm
6881-A3	holder	50-100mm
6881-A4	holder	100-200mm
6881-A5	holder	200-300mm
6881-A6**	holder	300-500mm
6881-A7**	holder	500-750mm
6881-A8**	holder	750-1000mm

*The actual clamping range should deduct the width of jaws
Not suitable for base **6881-B



6881-D



Code	Name	Remark
6881-D	parallel jaw	made of carbide



6881-S17

GAGE BLOCK ACCESSORY SET

Code	Remark
6881-S17	17 pcs (including below items)

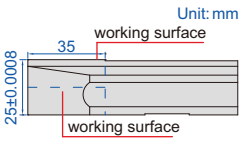
holder, 0-25mm (code 6881-A1)	1 pc
holder, 25-50mm (code 6881-A2)	1 pc
holder, 50-100mm (code 6881-A3)	1 pc
holder, 100-200mm (code 6881-A4)	1 pc
holder, 200-300mm (code 6881-A5)	1 pc
base (code 6881-B)	1 pc
plain jaw (code 6881-C)	1 pair
parallel jaw (code 6881-D)	1 pc
half round jaw, 2.5mm (code 6881-E1)	1 pair
half round jaw, 5.0mm (code 6881-E2)	1 pair
half round jaw, 6.0mm (code 6881-E3)	1 pair
scriber (code 6881-F)	1 pc
centre point (code 6881-G)	1 pc

VIDEO

Code	Name
6881-B	base

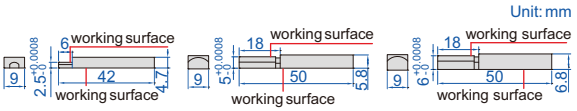


6881-B





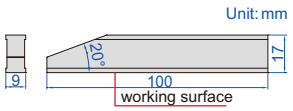
6881-E2



Code	Name	Size	Remark
6881-E1	half round jaw	2.5mm	made of carbide, supplied in pair
6881-E2	half round jaw	5.0mm	made of carbide, supplied in pair
6881-E3	half round jaw	6.0mm	made of carbide, supplied in pair



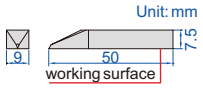
6881-C



Code	Name	Remark
6881-C	plain jaw	made of carbide, supplied in pair



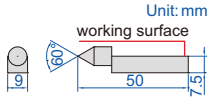
6881-F



Code	Name	Remark
6881-F	scriber	made of carbide

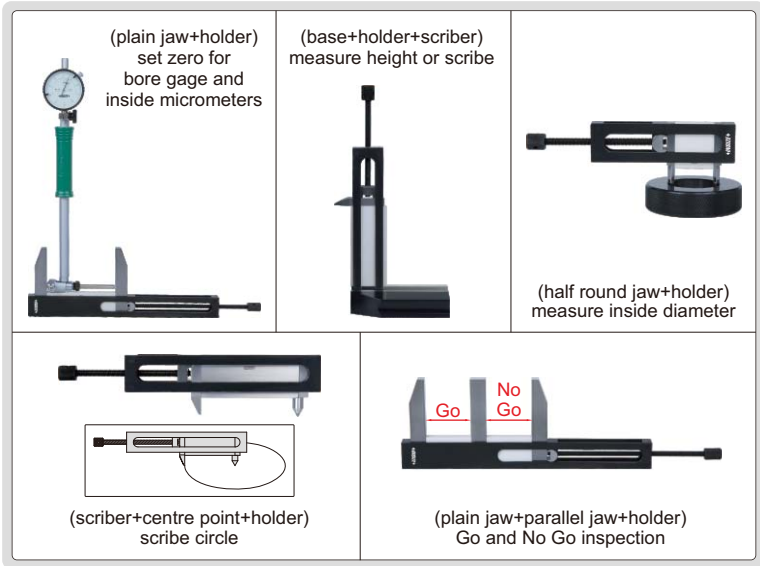


6881-G



Code	Name	Remark
6881-G	centre point	the tip is made of carbide

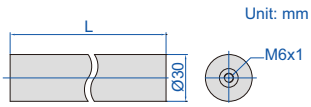
application



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CYLINDER GAGE BLOCKS

CUSTOM-MADE
CAN SUPPLY ANY LENGTH, SUCH AS 80.672MM



- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Meet ISO3650 grade 1
- Can be connected with M6x1 screw and combined to any sizes up to 4m



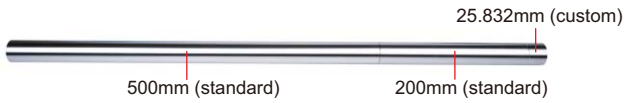
INSPECTION CERTIFICATE

Code	Length (L)
4001-25*	25mm
4001-50*	50mm
4001-75*	75mm
4001-100*	100mm
4001-200*	200mm
4001-300*	300mm
4001-400*	400mm
4001-500*	500mm

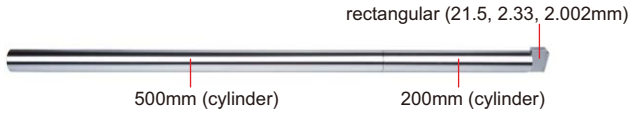
*Supplied with manufacturer inspection certificate

can be combined to any sizes up to 4m

Combination 1: combined by several standard size cylinder gage blocks and one custom size cylinder gage block
For example: 500 (standard) + 200 (standard) + 25.832 (custom)=725.832mm
Note: in order to reduce cost, custom size should be within 100mm



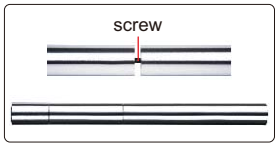
Combination 2: combined by standard size cylinder gage blocks and rectangular gage blocks
For example: 500 (cylinder) + 200 (cylinder) + 21.5 (rectangular) + 2.33 (rectangular) + 2.002 (rectangular)=725.832mm



high stability in vertical position, suitable for checking height gages



connected with M6x1mm screw

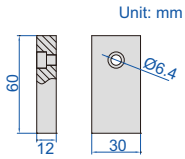


13

INTERNAL BLOCKS



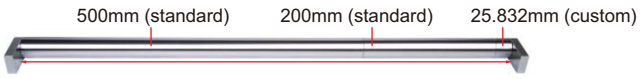
4001-A



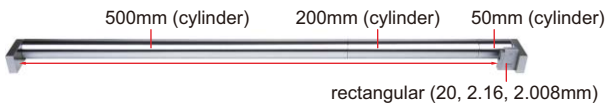
- Can be attached to cylinder and rectangular gage blocks
- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Supplied in a matched pair

Code	Size	Flatness
4001-A	12mm	0.2μm

Combination 1: combined by several standard size cylinder gage blocks and one custom size cylinder gage block
For example: 500 (standard) + 200 (standard) + 25.832 (custom)=725.832mm
Note: in order to reduce cost, custom size should be within 100mm



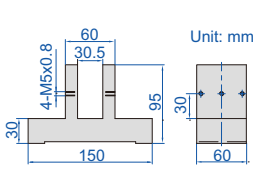
Combination 2: combined by standard size cylinder gage blocks and rectangular gage blocks
For example: 500 (cylinder) + 200 (cylinder) + 50 (rectangular) - 20 (rectangular) - 2.16 (rectangular) - 2.008 (rectangular)=725.832mm



BASE

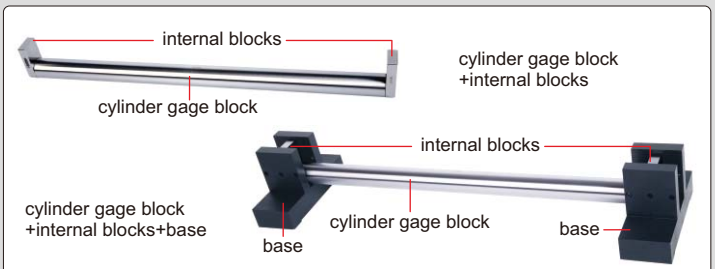


4001-B



Code	Remark
4001-B	supplied in pair

working with base



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CMM CHECK MASTERS

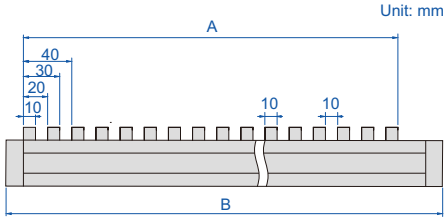
INSPECTION CERTIFICATE



6882-600A

- To check the accuracy of table movements of machine tools and calibrate CMM
- Horizontal use and vertical use
- Constructed with ceramic gage blocks
- Can be used with stand
- Optional accessory: stand (code **6877**)

Unit: mm



Standard accuracy

Code	Size	Step	A	B
6882-300A*	0-300mm	10mm	310mm	350mm
6882-400A*	0-400mm	10mm	410mm	450mm
6882-500A*	0-500mm	10mm	510mm	550mm
6882-600A*	0-600mm	10mm	610mm	650mm
6882-1000A*	0-1000mm	10mm	1010mm	1050mm

High accuracy

Code	Size	Step	A	B
6882-300H*	0-300mm	10mm	310mm	350mm
6882-400H*	0-400mm	10mm	410mm	450mm
6882-500H*	0-500mm	10mm	510mm	550mm
6882-600H*	0-600mm	10mm	610mm	650mm
6882-1000H*	0-1000mm	10mm	1010mm	1050mm

*Supplied with manufacturer inspection certificate



horizontal use

Accuracy

Range (mm)	Standard accuracy	High accuracy
≤300	±1.3μm	±0.8μm
>300, ≤400	±1.6μm	±1.0μm
>400, ≤500	±2.0μm	±1.0μm
>500, ≤600	±2.5μm	±1.0μm
>600, ≤800	±3.0μm	±2.5μm
>800, ≤1000	±4.0μm	±2.5μm



can be used with stand **(optional)**

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INSPECTION CERTIFICATE

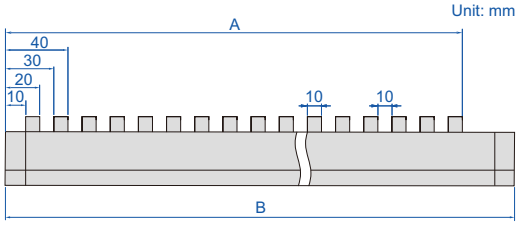
CMM CHECK MASTERS (ADVANCED TYPE)



6874-1000

- To check the accuracy of table movements of machine tools and calibrate CMM
- Horizontal use and vertical use
- Constructed with ceramic gage blocks
- Can be used with stand
- Optional accessory: stand (code **6874**)

Unit: mm



Code	Size	Step	A	B
6874-300 *	0-300mm	10mm	320mm	345mm
6874-450 *	0-450mm	10mm	470mm	495mm
6874-600 *	0-600mm	10mm	620mm	645mm
6874-1000 *	0-1000mm	10mm	1020mm	1045mm

*Supplied with ISO17025 calibration cartificate of Shenzhen Institute of Metrology&Quality Inspection (SMQ)



ISO17025 calibration certificate

Accuracy

Range (mm)	Accuracy	Work face size variation
≤100	±1.0μm	0.5μm
>100, ≤200	±1.1μm	0.5μm
>200, ≤300	±1.3μm	0.6μm
>300, ≤400	±1.6μm	0.7μm
>400, ≤500	±2.0μm	0.8μm
>500, ≤600	±2.5μm	1.0μm
>600, ≤800	±3.0μm	1.4μm
>800, ≤1000	±4.0μm	1.8μm



can be used with stand **(optional)**

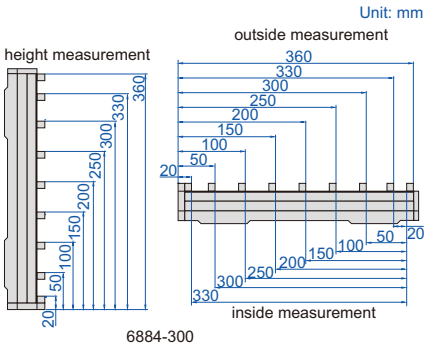
Stand (optional)

Code	Applicable check masters
6874-A	6874-300, 6874-450, 6874-600
6874-B	6874-1000

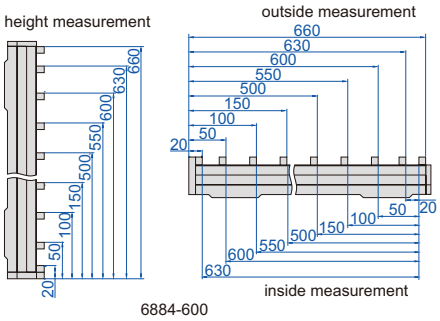
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CALIPER/HEIGHT GAGE CHECKERS

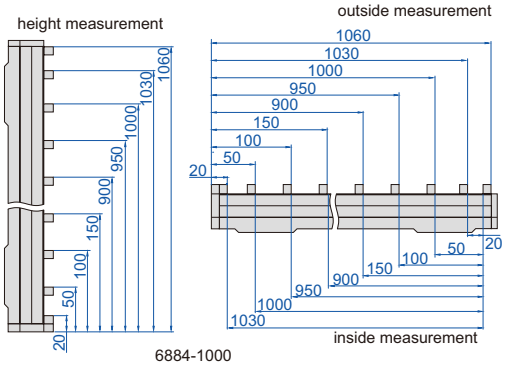
INSPECTION CERTIFICATE



6884-300



6884-600



6884-1000



horizontal use

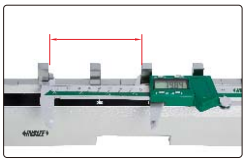


vertical use

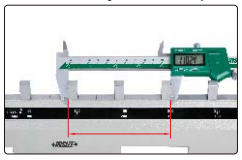
6884-300

- To check calipers and height gages
- Constructed with steel gage blocks

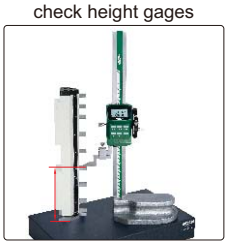
check upper jaws of calipers



check lower jaws of calipers



check height gages



(mm)

Code	Size	Range of inside measurement	Range of outside measurement	Range of height measurement	Accuracy
6884-300*	0-300mm	20, 50, 100, 150, 200, 250, 300, 330	20, 50, 100, 150, 200, 250, 300, 330, 360	20, 50, 100, 150, 200, 250, 300, 330, 360	±3μm
6884-600*	0-600mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	±5μm
6884-1000*	0-1000mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060	±7μm

*Supplied with manufacturer inspection certificate

INSIDE MICROMETER ACCESSORY

- Supplied with a pair of 5mm carbide gage blocks

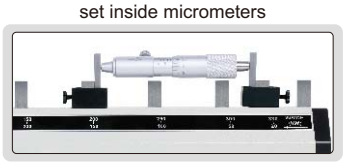
Code
6884-A10*

*Supplied with manufacturer inspection certificate



6884-A10

set inside micrometers



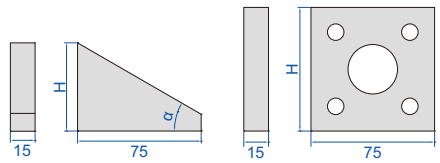
INSPECTION CERTIFICATE

ANGLE GAGE BLOCKS



4002-15

Unit: mm



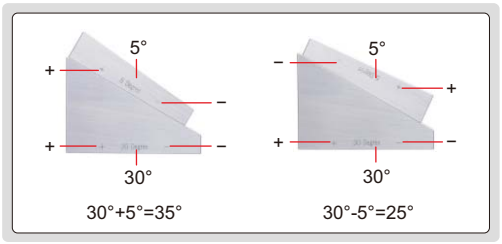
inspect angle



set angle of plate



combination



Individual

Code	Angle (α)	H (mm)
4002-A1*	1°	11.5
4002-A3*	3°	14.0
4002-A5*	5°	16.5
4002-A9*	9°	22.0
4002-A15*	15°	30. 5
4002-A27*	27°	48.0
4002-A30*	30°	53.5
4002-A41*	41°	75.0
4002-A45*	45°	84.0
4002-B1*	1'	10.0
4002-B3*	3'	10.0
4002-B5*	5'	10.0
4002-B9*	9'	10.0
4002-B20*	20'	10.0
4002-B27*	27'	10.0
4002-B30*	30'	10.0
4002-C6*	6"	10.0
4002-C12*	12"	10.0
4002-C18*	18"	10.0
4002-C30*	30"	10.0
4002-D*	90°/90°/90°/90°	75.0

- Accuracy: ±2"
- To inspect protractor, taper gage, index plate, index head and goniometer, can also be used to set angle
- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Can be combined to any angle with interval 6 seconds after combination (6", 12", 18", ... , 360°)

Set

Code	Angle (α)	Total quantity
4002-13*	1°, 3°, 9°, 27°, 41°, 1', 3', 9', 27', 6", 18", 30", 90°/90°/90°/90°	13
4002-15*	1°, 3°, 5°, 15°, 30°, 45°, 1', 3', 5', 20', 30', 6", 12", 30", 90°/90°/90°/90°	15

*Supplied with manufacturer inspection certificate

TAPER RING GAGES

Code	Taper
6328-BT30	BT30
6328-BT40	BT40
6328-BT45	BT45
6328-BT50	BT50
6328-BT55	BT55

Code	Taper
6328-BT60	BT60
6328-BT65	BT65
6328-BT70	BT70
6328-BT75	BT75
6328-BT80	BT80



6328-BT40

TAPER PLUG GAGES

Code	Taper
6329-BT30	BT30
6329-BT40	BT40
6329-BT45	BT45
6329-BT50	BT50
6329-BT55	BT55

Code	Taper
6329-BT60	BT60
6329-BT65	BT65
6329-BT70	BT70
6329-BT75	BT75
6329-BT80	BT80



6329-BT40

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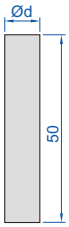
CARBIDE PIN GAGE SETS

- Meet DIN2269, grade 1
- Made of carbide
- Hardness HRA90-90.5
- Diameter accuracy: ±1μm



4194-10D

Unit: mm



Code	Diameter Ød (mm)	Step	Pin gages per set
4194-1S	0.30, 0.31, 0.32, ···· 1.00	0.01mm	71
4194-2S	1.00, 1.01, 1.02, ···· 2.00	0.01mm	101
4194-3S	2.00, 2.01, 2.02, ···· 3.00	0.01mm	101
4194-4S	3.00, 3.01, 3.02, ···· 4.00	0.01mm	101
4194-5S	4.00, 4.01, 4.02, ···· 5.00	0.01mm	101
4194-6S	5.00, 5.01, 5.02, ···· 6.00	0.01mm	101
4194-7S	6.00, 6.01, 6.02, ···· 7.00	0.01mm	101
4194-8S	7.00, 7.01, 7.02, ···· 8.00	0.01mm	101
4194-9S	8.00, 8.01, 8.02, ···· 9.00	0.01mm	101
4194-10S	9.00, 9.01, 9.02, ···· 10.00	0.01mm	101
4194-10D	10.00, 10.01, 10.02, ···· 10.50	0.01mm	51
4194-11	10.50, 10.51, 10.52, ···· 11.00	0.01mm	51
4194-11D	11.00, 11.01, 11.02, ···· 11.50	0.01mm	51
4194-12	11.50, 11.51, 11.52, ···· 12.00	0.01mm	51
4194-12D	12.00, 12.01, 12.02, ···· 12.50	0.01mm	51
4194-13	12.50, 12.51, 12.52, ···· 13.00	0.01mm	51
4194-13D	13.00, 13.01, 13.02, ···· 13.50	0.01mm	51
4194-14	13.50, 13.51, 13.52, ···· 14.00	0.01mm	51
4194-14D	14.00, 14.01, 14.02, ···· 14.50	0.01mm	51
4194-15	14.50, 14.51, 14.52, ···· 15.00	0.01mm	51

CARBIDE INDIVIDUAL PIN GAGES

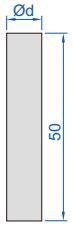
INSPECTION CERTIFICATE

- Meet DIN2269, grade 1
- Diameter range: Ø0.300~Ø30.000mm with three decimal, for example 0.311mm, 5.562mm, 16.298mm
- Diameter accuracy: ±1μm
- Made of carbide
- Hardness HRA90-90.5
- Optional accessory: wooden box (code **7340**)



4193-8D015

Unit: mm



Ordering examples:

Diameter	Code
0.311mm	4193-0D311
5.562mm	4193-5D562
16.298mm	4193-16D298

Note: “D” stands for “.”

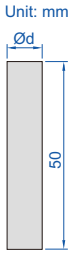
Code	Diameter range Ød (mm)
4193-□□□□□*	0.300~30.000

*Supplied with manufacturer inspection certificate

STEEL PIN GAGE SETS

POPULAR MODEL

- Meet DIN2269, grade 1
- Made of alloy steel
- Hardness HRC62-65
- Diameter accuracy: ±1μm





4166-10

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-2S	1.00, 1.01, 1.02, ···· 2.00	0.01mm	101
4166-3S	2.00, 2.01, 2.02, ···· 3.00	0.01mm	101
4166-4S	3.00, 3.01, 3.02, ···· 4.00	0.01mm	101
4166-5S	4.00, 4.01, 4.02, ···· 5.00	0.01mm	101
4166-6S	5.00, 5.01, 5.02, ···· 6.00	0.01mm	101
4166-7S	6.00, 6.01, 6.02, ···· 7.00	0.01mm	101
4166-8S	7.00, 7.01, 7.02, ···· 8.00	0.01mm	101
4166-9S	8.00, 8.01, 8.02, ···· 9.00	0.01mm	101
4166-10S	9.00, 9.01, 9.02, ···· 10.00	0.01mm	101

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-411	1.0, 1.1, 1.2, ···· 5.0	0.1mm	41
4166-511	5.0, 5.1, 5.2, ···· 10.0	0.1mm	51
4166-512	10.0, 10.1, 10.2, ···· 15.0	0.1mm	51
4166-513	15.0, 15.1, 15.2, ···· 20.0	0.1mm	51

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-0D	0.20, 0.21, 0.22, ···· 0.50	0.01mm	31
4166-1	0.50, 0.51, 0.52, ···· 1.00	0.01mm	51
4166-1D	1.00, 1.01, 1.02, ···· 1.50	0.01mm	51
4166-2	1.50, 1.51, 1.52, ···· 2.00	0.01mm	51
4166-2D	2.00, 2.01, 2.02, ···· 2.50	0.01mm	51
4166-3	2.50, 2.51, 2.52, ···· 3.00	0.01mm	51
4166-3D	3.00, 3.01, 3.02, ···· 3.50	0.01mm	51
4166-4	3.50, 3.51, 3.52, ···· 4.00	0.01mm	51
4166-4D	4.00, 4.01, 4.02, ···· 4.50	0.01mm	51
4166-5	4.50, 4.51, 4.52, ···· 5.00	0.01mm	51
4166-5D	5.00, 5.01, 5.02, ···· 5.50	0.01mm	51
4166-6	5.50, 5.51, 5.52, ···· 6.00	0.01mm	51
4166-6D	6.00, 6.01, 6.02, ···· 6.50	0.01mm	51
4166-7	6.50, 6.51, 6.52, ···· 7.00	0.01mm	51
4166-7D	7.00, 7.01, 7.02, ···· 7.50	0.01mm	51
4166-8	7.50, 7.51, 7.52, ···· 8.00	0.01mm	51
4166-8D	8.00, 8.01, 8.02, ···· 8.50	0.01mm	51
4166-9	8.50, 8.51, 8.52, ···· 9.00	0.01mm	51
4166-9D	9.00, 9.01, 9.02, ···· 9.50	0.01mm	51
4166-10	9.50, 9.51, 9.52, ···· 10.00	0.01mm	51

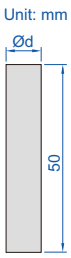
Code	Diameter Ød (mm)	Step	Pin gages per set
4166-10D	10.00, 10.01, 10.02, ···· 10.50	0.01mm	51
4166-11	10.50, 10.51, 10.52, ···· 11.00	0.01mm	51
4166-11D	11.00, 11.01, 11.02, ···· 11.50	0.01mm	51
4166-12	11.50, 11.51, 11.52, ···· 12.00	0.01mm	51
4166-12D	12.00, 12.01, 12.02, ···· 12.50	0.01mm	51
4166-13	12.50, 12.51, 12.52, ···· 13.00	0.01mm	51
4166-13D	13.00, 13.01, 13.02, ···· 13.50	0.01mm	51
4166-14	13.50, 13.51, 13.52, ···· 14.00	0.01mm	51
4166-14D	14.00, 14.01, 14.02, ···· 14.50	0.01mm	51
4166-15	14.50, 14.51, 14.52, ···· 15.00	0.01mm	51
4166-15D	15.00, 15.01, 15.02, ···· 15.50	0.01mm	51
4166-16	15.50, 15.51, 15.52, ···· 16.00	0.01mm	51
4166-16D	16.00, 16.01, 16.02, ···· 16.50	0.01mm	51
4166-17	16.50, 16.51, 16.52, ···· 17.00	0.01mm	51
4166-17D	17.00, 17.01, 17.02, ···· 17.50	0.01mm	51
4166-18	17.50, 17.51, 17.52, ···· 18.00	0.01mm	51
4166-18D	18.00, 18.01, 18.02, ···· 18.50	0.01mm	51
4166-19	18.50, 18.51, 18.52, ···· 19.00	0.01mm	51
4166-19D	19.00, 19.01, 19.02, ···· 19.50	0.01mm	51
4166-20	19.50, 19.51, 19.52, ···· 20.00	0.01mm	51

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STEEL INDIVIDUAL PIN GAGES WITH TWO DECIMAL PLACES (0.01MM STEP)

- Meet DIN2269, grade 1
- Diameter range: Ø0.20~Ø20.00mm
- Diameter accuracy: ±1μm
- Made of alloy steel
- Hardness HRC62-65
- Optional accessory: wooden box (code **7340**)





4110-9D98

Ordering examples:

Diameter	Code
0.21mm	4110-0D21
5.56mm	4110-5D56
16.00mm	4110-16D00

Note : “D” stands for “.”

13

Code
4110-□□□□

Diameter Ød (mm)
0.20, 0.21, 0.22, 0.23, ···· 1.00
1.01, 1.02, 1.03, 1.04, ···· 2.00
2.01, 2.02, 2.03, 2.04, ···· 3.00
3.01, 3.02, 3.03, 3.04, ···· 4.00
4.01, 4.02, 4.03, 4.04, ···· 5.00
5.01, 5.02, 5.03, 5.04, ···· 6.00
6.01, 6.02, 6.03, 6.04, ···· 7.00
7.01, 7.02, 7.03, 7.04, ···· 8.00
8.01, 8.02, 8.03, 8.04, ···· 9.00
9.01, 9.02, 9.03, 9.04, ···· 10.00

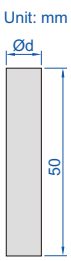
Diameter Ød (mm)
10.01, 10.02, 10.03, 10.04, ···· 11.00
11.01, 11.02, 11.03, 11.04, ···· 12.00
12.01, 12.02, 12.03, 12.04, ···· 13.00
13.01, 13.02, 13.03, 13.04, ···· 14.00
14.01, 14.02, 14.03, 14.04, ···· 15.00
15.01, 15.02, 15.03, 15.04, ···· 16.00
16.01, 16.02, 16.03, 16.04, ···· 17.00
17.01, 17.02, 17.03, 17.04, ···· 18.00
18.01, 18.02, 18.03, 18.04, ···· 19.00
19.01, 19.02, 19.03, 19.04, ···· 20.00

STEEL INDIVIDUAL PIN GAGES WITH THREE DECIMAL PLACES (0.001MM STEP)

INSPECTION CERTIFICATE

- Meet DIN2269, grade 1
- Diameter range: Ø0.200~Ø30.000mm with three decimal, for example 0.211mm, 5.562mm, 16.298mm
- Diameter accuracy: ±1μm
- Made of alloy steel
- Hardness HRC62-65
- Optional accessory: wooden box (code **7340**)





4118-8D015

Ordering examples:

Diameter	Code
0.211mm	4118-0D211
5.562mm	4118-5D562
16.298mm	4118-16D298

Note: “D” stands for “.”

Code	Diameter range Ød (mm)
4118-□□□□□*	0.200~30.000

*Supplied with manufacturer inspection certificate

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CERAMIC INDIVIDUAL PIN GAGES

- Meet DIN2269, grade 1
- Diameter range: Ø1.000~Ø15.000mm
- With three decimal, for example 1.211mm, 5.562mm, 14.955mm
- Diameter accuracy: ±1μm
- Made of ceramic, extremely wear resistance, corrosion resistance and dimensional stability
- Optional accessory: wooden box (code **7340**)





4192-10D000

Ordering examples:

Diameter	Code
1.211mm	4192-1D211
5.562mm	4192-5D562
14.955mm	4192-14D955

Note : “D” stands for “.”

Code	Diameter range Ød (mm)
4192-□□□□	1.000-15.000

BOXES FOR PIN GAGES

- For individual pin gages (**4110, 4118, 4192** and **4193** series)



7340

Code	Applicable pin gage diameter Ød	Quantity of pin gages
7340	0.20-10.00mm	51 pcs
7340-101	0.20-10.00mm	101 pcs
7340-201	10.00-15.00mm	51 pcs
7340-202	15.00-20.00mm	51 pcs

PIN GAGE HANDLES (OPERATED WITHOUT WRENCH)

- Operated without wrench
- Made of aluminum
- Pin gages can be installed



7342-M1

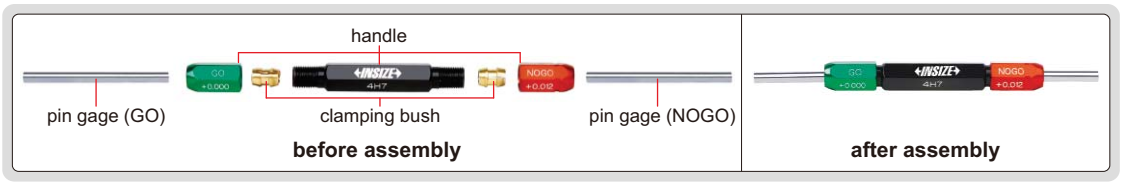
Code	Applicable pin gage diameter
7342-M0	0.30-1.50mm/0.011-0.060"
7342-M1	1.51-6.35mm/0.061-0.250"
7342-M2	6.36-12.70mm/0.251-0.500"
7342-M3	12.71-15.88mm/0.501-0.625"
7342-M4	15.89-19.00mm/0.626-0.750"
7342-M5	19.01-21.13mm/0.751-0.832"
7342-M6	21.14-23.27mm/0.833-0.916"
7342-M7	23.28-25.40mm/0.917-1.000"

application



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PIN GAGE HANDLES (OPERATED WITH WRENCH)





Handle



brass clamping bush
(0.2~7.14mm)



aluminum clamping bush
(7.14~24.80mm)

13

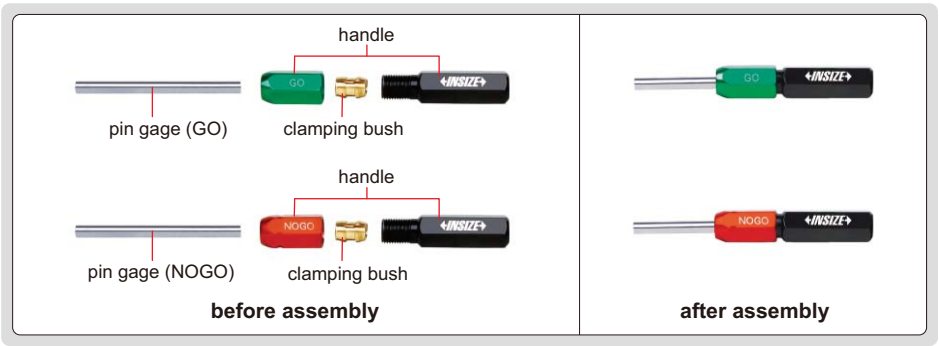
- Wrench is needed to install pins
- Clamping bushes (0.2~7.14mm) are made of brass, clamping bushes (7.14~24.80mm) are made of aluminum

Code	Applicable pin gage diameter	Including	
		handle	clamping bush (mm)
7341-0S	0.2-1.02mm	1 pc	6 pairs (the clamping range are 0.2-0.38, 0.38-0.51, 0.51-0.64, 0.64-0.76, 0.76-0.89, 0.89-1.02)
7341-1S	1.02-1.91mm	1 pc	7 pairs (the clamping range are 1.02-1.14, 1.14-1.27, 1.27-1.40, 1.40-1.52, 1.52-1.65, 1.65-1.78, 1.78-1.91)
7341-2S	1.91-3.33mm	1 pc	8 pairs (the clamping range are 1.91-2.08, 2.08-2.26, 2.26-2.44, 2.44-2.62, 2.62-2.79, 2.79-2.97, 2.97-3.15, 3.15-3.33)
7341-3S	3.33-4.57mm	1 pc	7 pairs (the clamping range are 3.33-3.51, 3.51-3.68, 3.68-3.86, 3.86-4.04, 4.04-4.22, 4.22-4.39, 4.39-4.57)
7341-4S	4.57-5.79mm	1 pc	6 pairs (the clamping range are 4.57-4.78, 4.78-4.98, 4.98-5.18, 5.18-5.38, 5.38-5.59, 5.59-5.79)
7341-5S	5.79-7.14mm	1 pc	6 pairs (the clamping range are 5.79-5.99, 5.99-6.20, 6.20-6.40, 6.40-6.63, 6.63-6.88, 6.88-7.14)

Code	Applicable pin gage diameter	Including	
		handle	clamping bush (mm)
7341-6S	7.14-8.66mm	1 pc	6 pairs (the clamping range are 7.14-7.39, 7.39-7.65, 7.65-7.90, 7.90-8.15, 8.15-8.41, 8.41-8.66)
7341-7S	8.66-10.31mm	1 pc	6 pairs (the clamping range are 8.66-8.92, 8.9 -9.17, 9.17-9.42, 9.42-9.70, 9.70-10.01, 10.01-10.31)
7341-8S	10.31-11.81mm	1 pc	4 pairs (the clamping range are 10.31-10.67,10.67-11.05, 11.05-11.43, 11.43-11.81)
7341-9S	11.81-12.95mm	1 pc	3 pairs (the clamping range are 11.81-12.19, 12.19-12.57, 12.57-12.95)
7341-10S	12.95-14.71mm	1 pc	4 pairs (the clamping range are 12.95-13.51, 13.51-13.89, 13.89-14.30, 14.30-14.71)
7341-11S	14.71-16.13mm	1 pc	4 pairs (the clamping range are 14.71-15.09, 15.09-15.49, 15.49-15.88, 15.88-16.13)
7341-12S	16.13-17.88mm	1 pc	4 pairs (the clamping range are 16.13-16.66, 16.66-17.07, 17.07-17.48, 17.48-17.88)
7341-13S	17.88-19.30mm	1 pc	4 pairs (the clamping range are 17.88-18.26, 18.26-18.67, 18.67-19.05, 19.05-19.30)
7341-15S	19.30-24.80mm	1 pc	8 pairs (the clamping range are 19.30-19.84, 19.84-20.62, 20.62-21.41, 21.41-22.23, 22.23-23.03, 23.03-23.80, 23.80-24.59, 24.59-24.80)

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SINGLE END PIN GAGE HANDLES (OPERATED WITH WRENCH)



- Wrench is needed to install pins
- Clamping bushes (0.2~7.14mm) are made of brass, clamping bushes (7.14~24.80mm) are made of aluminum



7344-4G
green (GO)



7344-4R
red (NOGO)



brass clamping bush
(0.2~7.14mm)



aluminum clamping bush
(7.14~24.80mm)

Code		Including		Applicable pin gage diameter
green (GO)	red (NOGO)	handle	clamping bush (mm)	
7344-0G	7344-0R	1 pc	6 pcs (the clamping range are 0.2-0.38, 0.38-0.51, 0.51-0.64, 0.64-0.76, 0.76-0.89, 0.89-1.02)	0.2-1.02mm
7344-1G	7344-1R	1 pc	7 pcs (the clamping range are 1.02-1.14, 1.14-1.27, 1.27-1.40, 1.40-1.52, 1.52-1.65, 1.65-1.78, 1.78-1.91)	1.02-1.91mm
7344-2G	7344-2R	1 pc	8 pcs (the clamping range are 1.91-2.08, 2.08-2.26, 2.26-2.44, 2.44-2.62, 2.62-2.79, 2.79-2.97, 2.97-3.15, 3.15 -3.33)	1.91-3.33mm
7344-3G	7344-3R	1 pc	7 pcs (the clamping range are 3.33-3.51, 3.51-3.68, 3.68-3.86, 3.86-4.04, 4.04-4.22, 4.22-4.39, 4.39-4.57)	3.33-4.57mm
7344-4G	7344-4R	1 pc	6 pcs (the clamping range are 4.57-4.78, 4.78-4.98, 4.98-5.18, 5.18-5.38, 5.38-5.59, 5.59-5.79)	4.57-5.79mm
7344-5G	7344-5R	1 pc	6 pcs (the clamping range are 5.79-5.99, 5.99-6.20, 6.20-6.40, 6.40-6.63, 6.63-6.88, 6.88-7.14)	5.79-7.14mm
7344-6G	7344-6R	1 pc	6 pcs (the clamping range are 7.14-7.39, 7.39-7.65, 7.65-7.90, 7.90-8.15, 8.15-8.41, 8.41-8.66)	7.14-8.66mm
7344-7G	7344-7R	1 pc	6 pcs (the clamping range are 8.66-8.92, 8.92-9.17, 9.17-9.42, 9.42-9.70, 9.70-10.01, 10.01-10.31)	8.66-10.31mm
7344-8G	7344-8R	1 pc	4 pcs (the clamping range are 10.31-10.67, 10.67-11.05, 11.05-11.43, 11.43-11.81)	10.31-11.81mm
7344-9G	7344-9R	1 pc	3 pcs (the clamping range are 11.81-12.19, 12.19-12.57, 12.57-12.95)	11.81-12.95mm
7344-10G	7344-10R	1 pc	4 pcs (the clamping range are 12.95-13.51, 13.51-13.89, 13.89-14.30, 14.30-14.71)	12.95-14.71mm
7344-11G	7344-11R	1 pc	4 pcs (the clamping range are 14.71-15.09, 15.09-15.49, 15.49-15.88, 15.88-16.13)	14.71-16.13mm
7344-12G	7344-12R	1 pc	4 pcs (the clamping range are 16.13-16.66, 16.66-17.07, 17.07-17.48, 17.48-17.88)	16.13-17.88mm
7344-13G	7344-13R	1 pc	4 pcs (the clamping range are 17.88-18.26, 18.26-18.67, 18.67-19.05, 19.05-19.30)	17.88-19.30mm
7344-15G	7344-15R	1 pc	8 pcs (the clamping range are 19.30-19.84, 19.84-20.62, 20.62-21.41, 21.41-22.23, 22.23-23.03, 23.03-23.80, 23.80-24.59, 24.59-24.80)	19.30-24.80mm

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CYLINDER GAGES

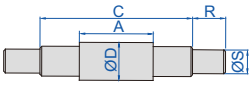
CAN SUPPLY CUSTOM SIZES FROM Ø3.000mm TO Ø200.000mm, FOR EXAMPLE, Ø20.218mm

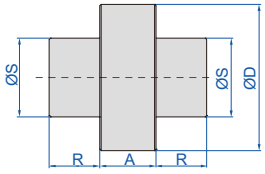
INSPECTION CERTIFICATE

- Made of tungsten steel, quenched, ultra-low temperature treatment
- Wear resistant, long life, dimension stability
- Hardness HRC60-62



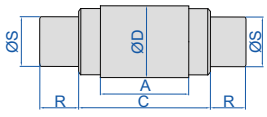
6316-30





(mm)

Diameter ØD *	A	C	R	ØS	Deviation**	Roundness and cylindricity
3.0-3.81	9.52	17.46	11.1	2.4	±5μm	0.5μm
3.81-5.84	11.11	19.05	11.1	3.2	±5μm	0.5μm
5.84-9.27	12.7	20.64	11.1	5.6	±5μm	0.5μm



(mm)

Diameter ØD *	A	C	R	ØS	Deviation**	Roundness and cylindricity
9.27-12.95	14.29	22.22	12.7	8.7	±5μm	0.5μm
12.95-20.96	15.88	23.81	12.7	12.7	±5μm	0.5μm
20.96-28.83	17.46	25.4	15.9	19	±5μm	0.7μm
28.83-38.35	20.64	28.58	15.9	25.4	±5μm	0.7μm

(mm)

Diameter ØD *	A	ØS	R	Deviation**	Roundness and cylindricity
38.35-51.05	31.8	22.2	15.8	±5μm	1μm
51.05-63.75	31.8	22.2	15.8	±5μm	1μm
63.75-76.45	38.1	25.4	39.8	±5μm	1.2μm
76.45-89.15	38.1	25.4	39.8	±5μm	1.2μm
89.15-101.85	38.1	25.4	39.8	±5μm	1.2μm
101.85-114.55	38.1	25.4	39.8	±5μm	1.2μm
114.55-127.25	38.1	25.4	39.8	±5μm	1.6μm
127.25-139.95	38.1	25.4	39.8	±5μm	1.6μm
139.95-152.62	38.1	25.4	39.8	±5μm	1.6μm
152.65-165.35	38.1	25.4	39.8	±5μm	1.6μm
165.35-178.05	38.1	25.4	39.8	±5μm	2μm
178.05-190.75	38.1	25.4	39.8	±5μm	2μm
190.75-203.45	38.1	25.4	39.8	±5μm	2μm

* For example, 3-3.81 indicates 3mm<D≤3.8mm

** Deviation (difference between the ordered size and the size marked on the cylinder gages when supplied).
For example, the ordered size is Ø3.000mm, the size marked on the cylinder gages when supplied may be Ø3.003mm

Code	ØD
6316-3*	Ø3mm
6316-4*	Ø4mm
6316-5*	Ø5mm
6316-6*	Ø6mm
6316-7*	Ø7mm
6316-8*	Ø8mm
6316-9*	Ø9mm
6316-10*	Ø10mm
6316-11*	Ø11mm
6316-12*	Ø12mm
6316-13*	Ø13mm
6316-14*	Ø14mm
6316-15*	Ø15mm

Code	ØD
6316-16*	Ø16mm
6316-17*	Ø17mm
6316-18*	Ø18mm
6316-19*	Ø19mm
6316-20*	Ø20mm
6316-21*	Ø21mm
6316-22*	Ø22mm
6316-23*	Ø23mm
6316-24*	Ø24mm
6316-25*	Ø25mm
6316-26*	Ø26mm
6316-27*	Ø27mm
6316-28*	Ø28mm

Code	ØD
6316-29*	Ø29mm
6316-30*	Ø30mm
6316-31*	Ø31mm
6316-32*	Ø32mm
6316-33*	Ø33mm
6316-34*	Ø34mm
6316-35*	Ø35mm
6316-36*	Ø36mm
6316-37*	Ø37mm
6316-38*	Ø38mm
6316-39*	Ø39mm
6316-40*	Ø40mm
6316-41*	Ø41mm

Code	ØD
6316-42*	Ø42mm
6316-43*	Ø43mm
6316-44*	Ø44mm
6316-45*	Ø45mm
6316-46*	Ø46mm
6316-47*	Ø47mm
6316-48*	Ø48mm
6316-49*	Ø49mm
6316-50*	Ø50mm
6316-55*	Ø55mm
6316-60*	Ø60mm
6316-62*	Ø62mm
6316-65*	Ø65mm

Code	ØD
6316-70*	Ø70mm
6316-75*	Ø75mm
6316-80*	Ø80mm
6316-85*	Ø85mm
6316-87*	Ø87mm
6316-90*	Ø90mm
6316-95*	Ø95mm
6316-100*	Ø100mm
6316-125*	Ø125mm
6316-150*	Ø150mm
6316-175*	Ø175mm
6316-200*	Ø200mm

*Supplied with manufacturer inspection certificate

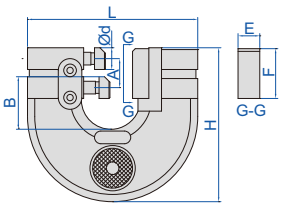
FAST AND ACCURATE MEASUREMENT OF CYLINDERS

ADJUSTABLE SNAP GAGES

- Used as Go/No-Go gage by setting upper and lower limits
- Flatness of anvil: 1.5µm
- Parallelism of measuring faces:
  range 0-32mm: 3µm
  range 32-89mm: 4µm
  range 89-300mm: 5µm



2187-19



(mm)

Code	Range	L	A	B	E	F	H	Ød
2187-6	0-6mm	74	15	17.5	12.2	27.2	71.5	7
2187-13	6-13mm	85	15	26	12.2	27.2	79.5	12.3
2187-19	13-19mm	93	15	27	12.2	27.2	83	12.3
2187-25	19-25mm	100	15	33.5	12.2	27.2	89.5	12.3
2187-32	25-32mm	111	18	38.5	15.2	35.2	104	15.3
2187-38	32-38mm	117	18	41.5	15.2	35.2	105	15.3
2187-44	38-44mm	123	18	44.5	15.2	35.2	109	15.3
2187-51	44-51mm	130	18	48	15.2	35.2	117	15.3
2187-57	51-57mm	136	18	45	15.2	35.2	119	15.3
2187-63	57-63mm	143	18	50	15.2	35.2	122	15.3
2187-70	63-70mm	156	20	58	15.2	35.2	132	15.3
2187-76	70-76mm	163	20	60.5	15.2	35.2	137	15.3
2187-82	76-82mm	169	20	64.5	15.2	35.2	140	15.3
2187-89	82-89mm	175	20	66.5	15.2	35.2	146	15.3
2187-95	89-95mm	181	20	69.5	15.2	35.2	149	15.3
2187-101	95-101mm	188	20	70	15.2	35.2	154	15.3
2187-108	101-108mm	198	24	79	15.2	39.2	166	15.3
2187-114	108-114mm	204	24	81	15.2	39.2	172	15.3
2187-120	114-120mm	210	24	86	15.2	39.2	179	15.3
2187-127	120-127mm	217	24	89.5	15.2	39.2	186	15.3
2187-133	127-133mm	223	24	92.5	15.2	39.2	192	15.3
2187-139	133-139mm	229	24	95.5	15.2	39.2	197	15.3
2187-146	139-146mm	235	24	98.5	15.2	39.2	201	15.3
2187-152	146-152mm	242	24	102	15.2	39.2	205	15.3
2187-163	152-163mm	273	21.4	106.7	18.2	39.2	211	18.3
2187-175	163-175mm	273	21.4	106.7	18.2	39.2	211	18.3
2187-188	175-188mm	298.5	21.4	119.7	18.2	39.2	227	18.3
2187-200	188-200mm	298.5	21.4	119.7	18.2	39.2	227	18.3
2187-213	200-213mm	324	21.4	131.7	18.2	39.2	242	18.3
2187-225	213-225mm	324	21.4	131.7	18.2	39.2	242	18.3
2187-238	225-238mm	349.5	21.4	144.7	18.2	39.2	250	18.3
2187-250	238-250mm	349.5	21.4	149	18.2	39.2	250	18.3
2187-263	250-263mm	375.5	21.4	157.7	18.2	39.2	278	18.3
2187-275	263-275mm	375.5	21.4	157.7	18.2	39.2	278	18.3
2187-288	275-288mm	400	21.4	170.7	18.2	39.2	291	18.3
2187-300	288-300mm	400	21.4	170.7	18.2	39.2	291	18.3

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SETTING RINGS

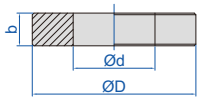
INSPECTION CERTIFICATE

CAN SUPPLY CUSTOM SETTING RINGS FROM Ø1.500MM TO Ø400.000MM, FOR EXAMPLE, Ø17.085MM

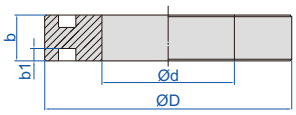
- For zero setting of inside micrometers, three points internal micrometers and bore gages
- The size marked on the setting ring is checked at the direction of the marking line
- Deviation (difference between the ordered size and the size marked on the setting ring when supplied): For example, the ordered size is Ø10.125mm, the size marked on the setting ring when supplied may be Ø10.135mm
- Meet DIN2250-1:2008



6312-20



Ø1.5mm-100mm



Ø100mm-400mm

(mm)

Diameter d**	b	ØD	Deviation	Roundness and cylindricity
Ø1.5-2.5	4	22	±10.0μm	0.3μm
Ø2.5-3	5	22	±10.0μm	0.3μm
Ø3-5	5	22	±10.0μm	0.4μm
Ø5-10	8	32	±10.0μm	0.4μm
Ø10-15	10	38	±10.0μm	0.5μm
Ø15-18	12	45	±10.0μm	0.5μm
Ø18-20	12	45	±10.0μm	0.6μm
Ø20-25	14	53	±10.0μm	0.6μm
Ø25-30	16	63	±10.0μm	0.6μm
Ø30-32	16	63	±10.0μm	0.7μm
Ø32-40	18	71	±10.0μm	0.7μm
Ø40-50	20	85	±10.0μm	0.7μm
Ø50-60	20	100	±10.0μm	0.8μm
Ø60-70	24	112	±10.0μm	0.8μm
Ø70-80	24	125	±10.0μm	0.8μm
Ø80-90	24	140	±10.0μm	1.0μm
Ø90-100	24	160	±10.0μm	1.0μm

**For example Ø3-5mm means Ø3mm<diameter d≤Ø5mm

(mm)

Diameter d**	b	b1	ØD	Deviation	Roundness and cylindricity
Ø100-110	30	8	164	±10.0μm	1.0μm
Ø110-130	34	10	192	±10.0μm	1.0μm
Ø130-150	34	10	220	±10.0μm	1.2μm
Ø150-170	36	10	248	±10.0μm	1.5μm
Ø170-190	36	10	276	±10.0μm	1.5μm
Ø190-210	38	10	300	±10.0μm	1.5μm
Ø210-230	38	10	324	±10.0μm	2.5μm
Ø230-250	40	12	350	±10.0μm	2.5μm
Ø250-270	40	12	375	±10.0μm	3.0μm
Ø270-290	42	12	400	±10.0μm	3.0μm
Ø290-300	42	12	425	±10.0μm	3.0μm
Ø300-320	42	12	430	±10.0μm	4.0μm
Ø320-330	42	12	440	±10.0μm	4.0μm
Ø330-340	42	12	450	±10.0μm	4.0μm
Ø340-350	42	12	460	±10.0μm	4.0μm
Ø350-360	42	12	470	±10.0μm	4.0μm
Ø360-370	42	12	480	±10.0μm	4.0μm
Ø370-380	42	12	490	±10.0μm	4.0μm
Ø380-390	42	12	500	±10.0μm	4.0μm
Ø390-400	42	12	510	±10.0μm	4.0μm

(mm)

Code	Size
6312-1D5 *	Ø1.5
6312-2 *	Ø2
6312-2D5 *	Ø2.5
6312-3 *	Ø3
6312-3D5 *	Ø3.5
6312-4 *	Ø4
6312-4D5 *	Ø4.5
6312-5 *	Ø5
6312-5D5 *	Ø5.5
6312-6 *	Ø6
6312-6D5 *	Ø6.5
6312-7 *	Ø7
6312-7D5 *	Ø7.5
6312-8 *	Ø8
6312-8D5 *	Ø8.5
6312-9 *	Ø9
6312-9D5 *	Ø9.5
6312-10 *	Ø10
6312-10D5 *	Ø10.5
6312-11 *	Ø11
6312-11D5 *	Ø11.5
6312-12 *	Ø12

(mm)

Code	Size
6312-12D5 *	Ø12.5
6312-13 *	Ø13
6312-13D5 *	Ø13.5
6312-14 *	Ø14
6312-14D5 *	Ø14.5
6312-15 *	Ø15
6312-15D5 *	Ø15.5
6312-16 *	Ø16
6312-16D5 *	Ø16.5
6312-17 *	Ø17
6312-17D5 *	Ø17.5
6312-18 *	Ø18
6312-18D5 *	Ø18.5
6312-19 *	Ø19
6312-19D5 *	Ø19.5
6312-20 *	Ø20
6312-20D5 *	Ø20.5
6312-21 *	Ø21
6312-21D5 *	Ø21.5
6312-22 *	Ø22
6312-22D5 *	Ø22.5
6312-23 *	Ø23

(mm)

Code	Size
6312-23D5 *	Ø23.5
6312-24 *	Ø24
6312-24D5 *	Ø24.5
6312-25 *	Ø25
6312-25D5 *	Ø25.5
6312-26 *	Ø26
6312-26D5 *	Ø26.5
6312-27 *	Ø27
6312-27D5 *	Ø27.5
6312-28 *	Ø28
6312-28D5 *	Ø28.5
6312-29 *	Ø29
6312-29D5 *	Ø29.5
6312-30 *	Ø30
6312-31 *	Ø31
6312-32 *	Ø32
6312-33 *	Ø33
6312-34 *	Ø34
6312-35 *	Ø35
6312-36 *	Ø36
6312-37 *	Ø37
6312-38 *	Ø38

(mm)

Code	Size
6312-39 *	Ø39
6312-40 *	Ø40
6312-41 *	Ø41
6312-42 *	Ø42
6312-43 *	Ø43
6312-44 *	Ø44
6312-45 *	Ø45
6312-46 *	Ø46
6312-47 *	Ø47
6312-48 *	Ø48
6312-49 *	Ø49
6312-50 *	Ø50
6312-55 *	Ø55
6312-60 *	Ø60
6312-62 *	Ø62
6312-65 *	Ø65
6312-70 *	Ø70
6312-75 *	Ø75
6312-80 *	Ø80
6312-85 *	Ø85
6312-87 *	Ø87
6312-90 *	Ø90

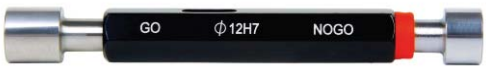
(mm)

Code	Size
6312-95 *	Ø95
6312-100 *	Ø100
6312-112D5 *	Ø112.5
6312-125 *	Ø125
6312-137D5 *	Ø137.5
6312-150 *	Ø150
6312-162D5 *	Ø162.5
6312-175 *	Ø175
6312-187D5 *	Ø187.5
6312-200 *	Ø200
6312-212D5 *	Ø212.5
6312-225 *	Ø225
6312-237D5 *	Ø237.5
6312-250 *	Ø250
6312-262D5 *	Ø262.5
6312-275 *	Ø275
6312-287D5 *	Ø287.5
6312-300 *	Ø300
6312-350 *	Ø350
6312-400 *	Ø400

*Supplied with manufacturer inspection certificate

PLAIN PLUG GAGES

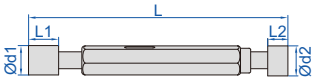
CUSTOM-MADE
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



4124-12

type A

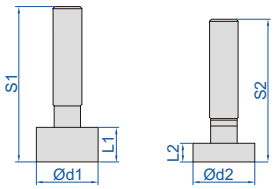




type A

type B





type B

- Supplied with Go and No-Go gages together
- Class H7
- Hardness HRC 60±2
- Standard DIN7150-2

Size tolerance of H7 (mm)

Diameter Ød	Type	Size tolerance of Go gage (µm)	Size tolerance of No-Go gage (µm)	L1	L2	L	S1, S2
≥2, ≤3	A	+0.5 / +2.5	+9 / +11	6.5	4.5	62	–
>3, ≤6	A	+0.75 / +3.25	+10.75 / +13.25	8	6	74	–
>6, ≤10	A	+0.75 / +3.25	+13.75 / +16.25	10	7	87	–
>10, ≤14	A	+1 / +4	+16.5 / +19.5	12	8	99	–
>14, ≤18	A	+1 / +4	+16.5 / +19.5	14	10	114	–
>18, ≤24	A	+1 / +5	+19 / +23	16	12	132	–
>24, ≤30	A	+1 / +5	+19 / +23	18	14	136	–
>30, ≤40	A	+1.5 / +5.5	+23 / +27	20	15	155	–
>40, ≤50	A	+1.5 / +5.5	+23 / +27	25	18	169	–
>50, ≤65	B	+1.5 / +6.5	+27.5 / +32.5	30	18	–	164, 152
>65, ≤80	B	+1.5 / +6.5	+27.5 / +32.5	35	25	–	169, 159
>80, ≤100	B	+2 / +8	+32 / +38	35	25	–	169, 159

Code	Diameter	Type
4124-2	2mm	A
4124-3	3mm	A
4124-4	4mm	A
4124-5	5mm	A
4124-6	6mm	A
4124-7	7mm	A
4124-8	8mm	A
4124-9	9mm	A
4124-10	10mm	A
4124-11	11mm	A
4124-12	12mm	A
4124-13	13mm	A
4124-14	14mm	A
4124-15	15mm	A
4124-16	16mm	A

Code	Diameter	Type
4124-17	17mm	A
4124-18	18mm	A
4124-19	19mm	A
4124-20	20mm	A
4124-21	21mm	A
4124-22	22mm	A
4124-23	23mm	A
4124-24	24mm	A
4124-25	25mm	A
4124-26	26mm	A
4124-27	27mm	A
4124-28	28mm	A
4124-29	29mm	A
4124-30	30mm	A
4124-31	31mm	A

Code	Diameter	Type
4124-32	32mm	A
4124-33	33mm	A
4124-34	34mm	A
4124-35	35mm	A
4124-36	36mm	A
4124-37	37mm	A
4124-38	38mm	A
4124-39	39mm	A
4124-40	40mm	A
4124-41	41mm	A
4124-42	42mm	A
4124-43	43mm	A
4124-44	44mm	A
4124-45	45mm	A
4124-46	46mm	A

Code	Diameter	Type
4124-47	47mm	A
4124-48	48mm	A
4124-49	49mm	A
4124-50	50mm	A
4124-52	52mm	B
4124-55	55mm	B
4124-60	60mm	B
4124-65	65mm	B
4124-70	70mm	B
4124-75	75mm	B
4124-80	80mm	B
4124-85	85mm	B
4124-90	90mm	B
4124-95	95mm	B
4124-100	100mm	B

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CERAMIC MEASURING BALLS

INSPECTION CERTIFICATE



4190-40D000

- Zirconia material, high strength and hardness, extremely wear resistance and corrosion resistance, good insulation, antistatic and magnetic resistance
- Mirror surface without holes
- Supplied with manufacturer inspection certificate

Individual

Code	Diameter	Accuracy	Roundness
4190-1D000	1.000mm	±2µm	0.5µm
4190-1D200	1.200mm	±2µm	0.5µm
4190-1D300	1.300mm	±2µm	0.5µm
4190-1D340	1.340mm	±2µm	0.5µm
4190-1D500	1.500mm	±2µm	0.5µm
4190-1D588	1.588mm (1/16")	±2µm	0.5µm
4190-1D750	1.750mm	±2µm	0.5µm
4190-2D000	2.000mm	±2µm	0.5µm
4190-2D381	2.381mm (3/32")	±2µm	0.5µm
4190-2D500	2.500mm	±2µm	0.5µm
4190-2D778	2.778mm (7/64")	±2µm	0.5µm
4190-3D000	3.000mm	±2µm	0.5µm
4190-3D175	3.175mm (1/8")	±2µm	0.5µm
4190-3D500	3.500mm	±2µm	0.5µm
4190-3D969	3.969mm (5/32")	±2µm	0.5µm
4190-4D000	4.000mm	±2µm	0.5µm
4190-4D500	4.500mm	±2µm	0.5µm
4190-4D763	4.763mm (3/16")	±2µm	0.5µm
4190-5D000	5.000mm	±2µm	0.5µm
4190-5D556	5.556mm (7/32")	±2µm	0.5µm
4190-5D953	5.953mm (15/64")	±2µm	0.5µm
4190-6D000	6.000mm	±2µm	0.5µm
4190-6D350	6.350mm (1/4")	±2µm	0.5µm
4190-6D500	6.500mm	±2µm	0.5µm
4190-6D747	6.747mm (17/64")	±2µm	0.5µm
4190-7D000	7.000mm	±2µm	0.5µm
4190-7D144	7.144mm (9/32")	±2µm	0.5µm
4190-7D500	7.500mm	±2µm	0.5µm
4190-7D938	7.938mm (5/16")	±2µm	0.5µm
4190-8D000	8.000mm	±2µm	0.5µm
4190-8D731	8.731mm (11/32")	±2µm	0.5µm

Individual

Code	Diameter	Accuracy	Roundness
4190-9D525	9.525mm (3/8")	±2µm	0.5µm
4190-10D000	10.000mm	±2µm	0.5µm
4190-10D318	10.318mm (13/32")	±2µm	0.5µm
4190-11D000	11.000mm	±2µm	0.5µm
4190-11D113	11.113mm (7/16")	±2µm	0.5µm
4190-11D509	11.509mm (29/64")	±2µm	0.5µm
4190-11D906	11.906mm (15/32")	±2µm	0.5µm
4190-12D000	12.000mm	±2µm	0.5µm
4190-12D303	12.303mm (31/64")	±2µm	0.5µm
4190-12D700	12.700mm (1/2")	±2µm	0.5µm
4190-13D000	13.000mm	±2µm	0.6µm
4190-13D494	13.494mm (17/32")	±2µm	0.6µm
4190-14D000	14.000mm	±2µm	0.6µm
4190-14D288	14.288mm (9/16")	±2µm	0.6µm
4190-15D000	15.000mm	±2µm	0.6µm
4190-15D081	15.081mm (19/32")	±2.5µm	0.6µm
4190-15D875	15.875mm (5/8 ")	±2.5µm	0.6µm
4190-16D000	16.000mm	±2.5µm	0.6µm
4190-16D669	16.669mm (21/32")	±2.5µm	0.6µm
4190-17D462	17.462mm (11/16")	±2.5µm	0.6µm
4190-18D000	18.000mm	±2.5µm	0.6µm
4190-18D256	18.256mm (23/32")	±2.5µm	0.6µm
4190-19D050	19.050mm (3/4")	±2.5µm	0.6µm
4190-19D844	19.844mm (25/32")	±2.5µm	0.6µm
4190-20D000	20.000mm	±2.5µm	0.6µm
4190-22D000	22.000mm	±2.5µm	1µm
4190-22D225	22.225mm (7/8")	±2.5µm	1µm
4190-23D812	23.812mm (15/16")	±2.5µm	1µm
4190-25D000	25.000mm	±2.5µm	1µm
4190-40D000	40.000mm	±2.5µm	1.5µm

Set (25 pairs)

Code	Ceramic balls included (one pair per size)
4190-S25	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 6.5, 7, 7.5, 8, 10, 11, 12, 13, 14, 15, 16, 18, 20, 22, 25mm

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STEEL MEASURING BALLS

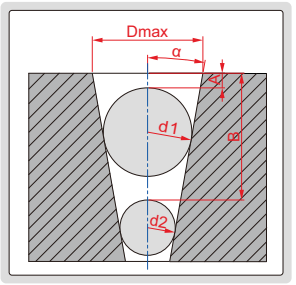
- To measure angle and diameter of taper holes
- Material: tool steel
- Hardness: HRC63
- Diameter accuracy: ±3μm
- Roundness: 1μm
- Supplied with manufacturer inspection certificate

INSPECTION CERTIFICATE



4168-S25

calculate angle (α) and diameter (Dmax) according to the ball diameter (d1, d2), height (A) and depth (B)



Individual

Code	Diameter
4168-01	1mm
4168-02	2mm
4168-03	3mm
4168-04	4mm
4168-05	5mm
4168-06	6mm
4168-07	7mm
4168-08	8mm
4168-09	9mm
4168-10	10mm
4168-11	11mm
4168-12	12mm
4168-13	13mm

Individual

Code	Diameter
4168-14	14mm
4168-15	15mm
4168-16	16mm
4168-17	17mm
4168-18	18mm
4168-19	19mm
4168-20	20mm
4168-21	21mm
4168-22	22mm
4168-23	23mm
4168-24	24mm
4168-25	25mm

Set (25 pairs)

Code	Steel balls included (one pair per size)
4168-S25	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25mm

13

THREADED HOLE LOCATION GAGES

ANY SIZE WITHIN THE RANGE OF M3-M150MM CAN BE CUSTOMIZED

ACCURACY CLASS CAN BE CUSTOMIZED

INSIZE PLUS
MADE IN EUROPE



the concentricity between this surface and threaded part is less than 3μm

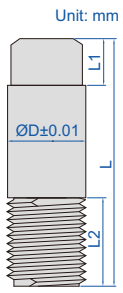
the taper of the thread part (top is big and bottom is small) lets the gage fixed in the thread holes



4662-12R



4662-3

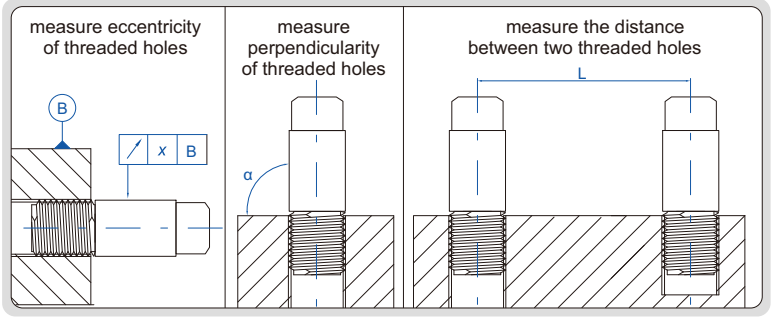


(mm)

Code	Size	L	L1	L2	ØD
4662-3	M3×0.5-6H	29	8	6	3
4662-4	M4×0.7-6H	31.4	8	8.4	4
4662-5	M5×0.8-6H	32.6	8	9.6	5
4662-6	M6×1-6H	47	10	12	6
4662-8	M8×1.25-6H	50	10	15	8
4662-8P	M8×1-6H	47	10	12	8
4662-10	M10×1.5-6H	53	10	18	10
4662-10P	M10×1-6H	47	10	12	10
4662-12	M12×1.75-6H	56	10	21	12
4662-12P	M12×1-6H	47	10	12	12
4662-12R	M12×1.5-6H	53	10	18	12
4662-14	M14×2-6H	59	10	24	14
4662-14P	M14×1-6H	47	10	12	14
4662-14R	M14×1.5-6H	53	10	18	14
4662-16	M16×2-6H	59	10	24	16
4662-16P	M16×1-6H	47	10	12	16
4662-16R	M16×1.5-6H	53	10	18	16
4662-20	M20×2.5-6H	65	10	30	20
4662-20P	M20×1-6H	47	10	12	20
4662-20R	M20×1.5-6H	53	10	18	20

- Hardness: HRC60-63

application

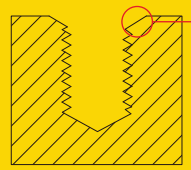


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THREADED HOLE LOCATION GAGES

INSIZE PLUS
MADE IN EUROPE

ATTENTION: ONLY FOR THE WORKPIECES THAT THE CHAMFER IS CONCENTRIC WITH THE SCREW PART

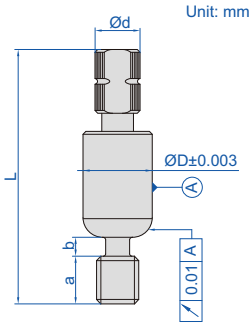




the concentricity between this surface and threaded part is less than 0.01mm

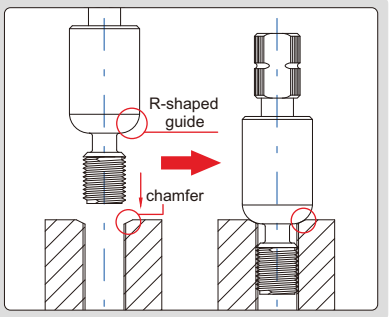


4676-12

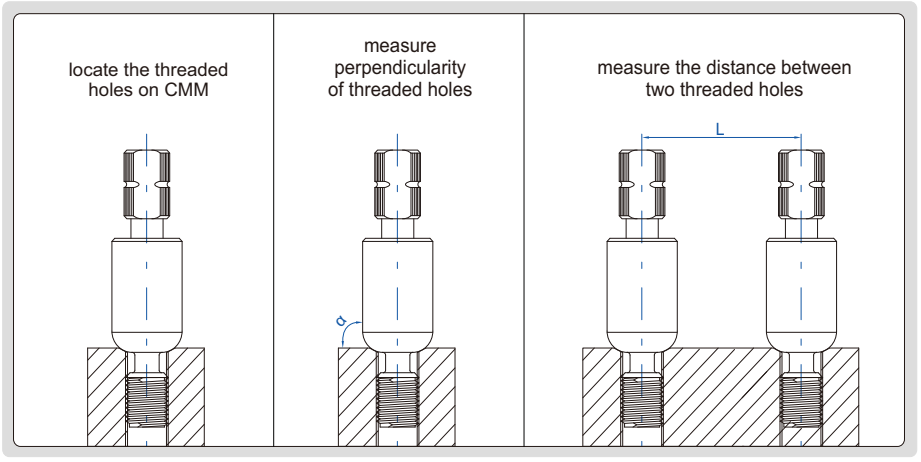


- Only for the workpieces that the chamfer is concentric with the screw part

there is a R-shaped guide, which leads the gage to the center of the threaded holes by fitting the R-shaped guide on the chamfer of the threaded holes



application



(mm)

Code	Size	Ød	ØD	a	b	L
4676-3	M3×0.5	4	7	4	2	26
4676-4	M4×0.7	4	7	4	2	26
4676-5	M5×0.8	5.5	9	6	2	33
4676-6	M6×1.0	5.5	9	6	2	33
4676-8	M8×1.25	8.5	13	9	3.5	48
4676-10	M10×1.5	8.5	13	9	3.5	48
4676-12	M12×1.75	12	17	10	3.5	55

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INSPECTION CERTIFICATE

DATA OUTPUT

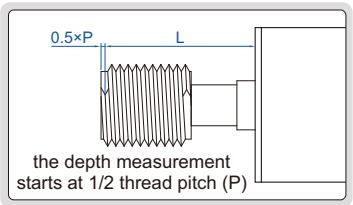
DIGITAL THREAD DEPTH GAGES

INSIZE PLUS
MADE IN EUROPE

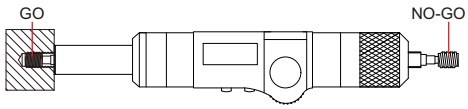
VIDEO



4649-6



the depth measurement starts at 1/2 thread pitch (P)



check GO and NO-GO while measuring the depth of thread holes

- Supplied with GO and NO-GO gages together
- Check GO and NO-GO while measuring the depth of thread holes
- Resolution: 0.01mm/0.0005"
- Depth 0-40mm: accuracy ±0.04mm; Depth 40-80mm: accuracy ±0.06mm
- Data output
- Button function: on/of, inch/metric conversion, reading hold, data preset, absolute/incremental measurement
- Battery CR2032, automatic power off, move the digital unit to turn on power
- The GO gage can be replaced after wear
- Optional accessory: data output cable (code **7302-85**), zero block (code **4668-SETTER**), removal tool (code **4668-TOOL**)

Metric thread

Code	Size	Depth range
4649-2*	M2x0.4-6H	0-8mm
4649-2D5*	M2.5x0.45-6H	0-10mm
4649-3*	M3x0.5-6H	0-12mm
4649-3D5*	M3.5x0.6-6H	0-14mm
4649-4*	M4x0.7-6H	0-16mm
4649-5*	M5x0.8-6H	0-20mm
4649-6*	M6x1-6H	0-24mm
4649-7*	M7x1-6H	0-28mm
4649-8*	M8x1.25-6H	0-32mm
4649-10*	M10x1.5-6H	0-40mm
4649-12*	M12x1.75-6H	0-48mm
4649-14*	M14x2-6H	0-56mm
4649-16*	M16x2-6H	0-64mm
4649-18*	M18x2.5-6H	0-72mm
4649-20*	M20x2.5-6H	0-80mm
4649-22*	M22x2.5-6H	0-80mm
4649-24*	M24x3-6H	0-80mm
4649-27*	M27x3-6H	0-80mm
4649-30*	M30x3.5-6H	0-80mm

Metric fine thread

Code	Size	Depth range
4649-8P*	M8x1-6H	0-32mm
4649-10P*	M10x1-6H	0-40mm
4649-10T*	M10x1.25-6H	0-40mm
4649-12P*	M12x1-6H	0-48mm
4649-12T*	M12x1.25-6H	0-48mm
4649-12R*	M12x1.5-6H	0-48mm
4649-14P*	M14x1-6H	0-56mm
4649-14T*	M14x1.25-6H	0-56mm
4649-14R*	M14x1.5-6H	0-56mm
4649-16P*	M16x1-6H	0-64mm
4649-16R*	M16x1.5-6H	0-64mm
4649-18P*	M18x1-6H	0-72mm
4649-18R*	M18x1.5-6H	0-72mm
4649-20P*	M20x1-6H	0-80mm
4649-20R*	M20x1.5-6H	0-80mm
4649-22P*	M22x1-6H	0-80mm
4649-22R*	M22x1.5-6H	0-80mm
4649-24P*	M24x1-6H	0-80mm
4649-24R*	M24x1.5-6H	0-80mm

*Supplied with manufacturer inspection certificate

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THREAD DEPTH GAGES

INSIZE PLUS
MADE IN EUROPE

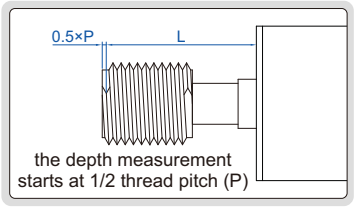
INSPECTION CERTIFICATE



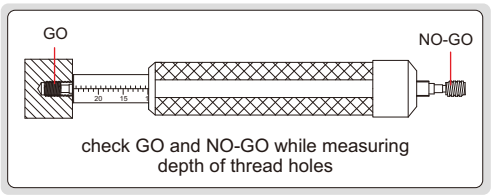
4666-6



4666-14PA



- Supplied with GO and NO-GO gages together
- Check GO and NO-GO while measuring the depth thread holes
- The GO gage can be replaced after wear
- Optional accessory: zero block (code **4668-SETTER**), removal tool (code **4668-TOOL**)



Metric thread (without vernier reading, graduation: 0.5mm, accuracy: ±0.25mm)

Code	Size	Depth range
4666-2*	M2x0.4-6H	0-8mm
4666-2D5*	M2.5x0.45-6H	0-10mm
4666-3*	M3x0.5-6H	0-12mm
4666-3D5*	M3.5x0.6-6H	0-14mm
4666-4*	M4x0.7-6H	0-16mm
4666-5*	M5x0.8-6H	0-20mm
4666-6*	M6x1-6H	0-24mm
4666-7*	M7x1-6H	0-28mm
4666-8*	M8x1.25-6H	0-32mm
4666-10*	M10x1.5-6H	0-40mm
4666-12*	M12x1.75-6H	0-48mm
4666-14*	M14x2-6H	0-56mm
4666-16*	M16x2-6H	0-64mm
4666-18*	M18x2.5-6H	0-72mm
4666-20*	M20x2.5-6H	0-80mm
4666-22*	M22x2.5-6H	0-80mm
4666-24*	M24x3-6H	0-80mm
4666-27*	M27x3-6H	0-80mm
4666-30*	M30x3.5-6H	0-80mm

Metric thread (with vernier reading, graduation: 0.1mm, accuracy: ±0.1mm)

Code	Size	Depth range
4666-2A*	M2x0.4-6H	0-8mm
4666-2D5A*	M2.5x0.45-6H	0-10mm
4666-3A*	M3x0.5-6H	0-12mm
4666-3D5A*	M3.5x0.6-6H	0-14mm
4666-4A*	M4x0.7-6H	0-16mm
4666-5A*	M5x0.8-6H	0-20mm
4666-6A	M6x1-6H	0-24mm
4666-7A*	M7x1-6H	0-28mm
4666-8A*	M8x1.25-6H	0-32mm
4666-10A*	M10x1.5-6H	0-40mm
4666-12A*	M12x1.75-6H	0-48mm
4666-14A*	M14x2-6H	0-56mm
4666-16A*	M16x2-6H	0-64mm
4666-18A*	M18x2.5-6H	0-72mm
4666-20A*	M20x2.5-6H	0-80mm
4666-22A*	M22x2.5-6H	0-80mm
4666-24A*	M24x3-6H	0-80mm
4666-27A*	M27x3-6H	0-80mm
4666-30A*	M30x3.5-6H	0-80mm

VIDEO

Metric fine thread (without vernier reading, graduation: 0.5mm, accuracy: ±0.25mm)

Code	Size	Depth range
4666-8P*	M8x1-6H	0-32mm
4666-10P*	M10x1-6H	0-40mm
4666-10T*	M10x1.25-6H	0-40mm
4666-12P*	M12x1-6H	0-48mm
4666-12T*	M12x1.25-6H	0-48mm
4666-12R*	M12x1.5-6H	0-48mm
4666-14P*	M14x1-6H	0-56mm
4666-14T*	M14x1.25-6H	0-56mm
4666-14R*	M14x1.5-6H	0-56mm
4666-16P*	M16x1-6H	0-64mm
4666-16R*	M16x1.5-6H	0-64mm
4666-18P*	M18x1-6H	0-72mm
4666-18R*	M18x1.5-6H	0-72mm
4666-20P*	M20x1-6H	0-80mm
4666-20R*	M20x1.5-6H	0-80mm
4666-22P*	M22x1-6H	0-80mm
4666-22R*	M22x1.5-6H	0-80mm
4666-24P*	M24x1-6H	0-80mm
4666-24R*	M24x1.5-6H	0-80mm

Metric fine thread (with vernier reading, graduation: 0.1mm, accuracy: ±0.1mm)

Code	Size	Depth range
4666-8PA*	M8x1-6H	0-32mm
4666-10PA*	M10x1-6H	0-40mm
4666-10TA*	M10x1.25-6H	0-40mm
4666-12PA*	M12x1-6H	0-48mm
4666-12TA*	M12x1.25-6H	0-48mm
4666-12RA*	M12x1.5-6H	0-48mm
4666-14PA*	M14x1-6H	0-56mm
4666-14TA*	M14x1.25-6H	0-56mm
4666-14RA*	M14x1.5-6H	0-56mm
4666-16PA*	M16x1-6H	0-64mm
4666-16RA*	M16x1.5-6H	0-64mm
4666-18PA*	M18x1-6H	0-72mm
4666-18RA*	M18x1.5-6H	0-72mm
4666-20PA*	M20x1-6H	0-80mm
4666-20RA*	M20x1.5-6H	0-80mm
4666-22PA*	M22x1-6H	0-80mm
4666-22RA*	M22x1.5-6H	0-80mm
4666-24PA*	M24x1-6H	0-80mm
4666-24RA*	M24x1.5-6H	0-80mm

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DLC COATED THREAD RING GAGES AND PLUG GAGES



DLC coated GO ring gage



DLC coated GO plug gage

- The DLC coating has the following advantages:
  — High hardness, extremely wear resistance
  — Low friction coefficient
  — Corrosion resistance
- Plug gages: GO is coated, NO-GO is not;
  Ring gages: GO is coated, NO-GO is not
- The following thread ring gages and plug gages are available with DLC coating:
  Metric fine thread ring gages and plug gages (**4139, 4129** series);
  Metric thread ring gages and plug gages (**4130, 4120** series);
  American standard thread ring gages and plug gages (**4131, 4121** series)

Code example:

Original code	DLC coating code
4120-12	4120-12-DLC
4130-4	4130-4-DLC

DLC coating characteristics

Hardness	6000HV
Friction coefficient	0.15
Coating color	interference color

13

METRIC THREAD PLUG GAGES

WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES

- Supplied with Go and No-Go gages together
- Standard ISO1502
- Supplied with manufacturer inspection certificate



4130-10

INSPECTION CERTIFICATE

Individual

Size (mm)		Code		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M0.8	0.2	**4130-D8**	**4130-D8G**	**4130-D8H**
M0.9	0.225	**4130-D9**	**4130-D9G**	**4130-D9H**
M1	0.25	**4130-1**	**4130-1G**	**4130-1H**
M1.1	0.25	**4130-1D1**	**4130-1D1G**	**4130-1D1H**
M1.2	0.25	**4130-1D2**	**4130-1D2G**	**4130-1D2H**
M1.4	0.3	**4130-1D4**	**4130-1D4G**	**4130-1D4H**
M1.6	0.35	**4130-1D6**	**4130-1D6G**	**4130-1D6H**
M1.7	0.35	**4130-1D7**	**4130-1D7G**	**4130-1D7H**
M1.8	0.35	**4130-1D8**	**4130-1D8G**	**4130-1D8H**
M2	0.4	**4130-2**	**4130-2G**	**4130-2H**
M2.2	0.45	**4130-2D2**	**4130-2D2G**	**4130-2D2H**
M2.3	0.4	**4130-2D3**	**4130-2D3G**	**4130-2D3H**
M2.5	0.45	**4130-2D5**	**4130-2D5G**	**4130-2D5H**
M2.6	0.45	**4130-2D6**	**4130-2D6G**	**4130-2D6H**
M3	0.5	**4130-3**	**4130-3G**	**4130-3H**
M3.5	0.6	**4130-3D5**	**4130-3D5G**	**4130-3D5H**
M4	0.7	**4130-4**	**4130-4G**	**4130-4H**
M4.5	0.75	**4130-4D5**	**4130-4D5G**	**4130-4D5H**
M5	0.8	**4130-5**	**4130-5G**	**4130-5H**
M6	1	**4130-6**	**4130-6G**	**4130-6H**
M7	1	**4130-7**	**4130-7G**	**4130-7H**
M8	1.25	**4130-8**	**4130-8G**	**4130-8H**

Individual

Size (mm)		Code		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M9	1.25	**4130-9**	**4130-9G**	**4130-9H**
M10	1.5	**4130-10**	**4130-10G**	**4130-10H**
M11	1.5	**4130-11**	**4130-11G**	**4130-11H**
M12	1.75	**4130-12**	**4130-12G**	**4130-12H**
M14	2	**4130-14**	**4130-14G**	**4130-14H**
M16	2	**4130-16**	**4130-16G**	**4130-16H**
M18	2.5	**4130-18**	**4130-18G**	**4130-18H**
M20	2.5	**4130-20**	**4130-20G**	**4130-20H**
M22	2.5	**4130-22**	**4130-22G**	**4130-22H**
M24	3	**4130-24**	**4130-24G**	**4130-24H**
M27	3	**4130-27**	**4130-27G**	**4130-27H**
M30	3.5	**4130-30**	**4130-30G**	**4130-30H**
M33	3.5	**4130-33**	**4130-33G**	**4130-33H**
M36	4	**4130-36**	**4130-36G**	**4130-36H**
M39	4	**4130-39**	**4130-39G**	**4130-39H**
M42	4.5	**4130-42**	**4130-42G**	**4130-42H**
M45	4.5	**4130-45**	**4130-45G**	**4130-45H**
M48	5	**4130-48**	**4130-48G**	**4130-48H**
M52	5	**4130-52**	**4130-52G**	**4130-52H**
M56	5.5	**4130-56**	**4130-56G**	**4130-56H**
M60	5.5	**4130-60**	**4130-60G**	**4130-60H**
M64	6	**4130-64**	**4130-64G**	**4130-64H**
M68	6	**4130-68**	**4130-68G**	**4130-68H**

Set (class 6H)

Code	Thread plug gages included (mm)
4130-S7	M3x0.5 (**4130-3**), M4x0.7 (**4130-4**), M5x0.8 (**4130-5**), M6x1 (**4130-6**), M8x1.25 (**4130-8**), M10x1.5 (**4130-10**), M12x1.75 (**4130-12**)

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METRIC FINE THREAD PLUG GAGES

INSPECTION CERTIFICATE

WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES



4139-20G

- Supplied with Go and No-Go gages together
- Standard ISO1502
- Supplied with manufacturer inspection certificate

Code example:
"**-1A**" stands for "**4139-1A**"

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M1	0.2	-1A	-1AG	-1AH
M1.2	0.2	-1D2A	-1D2AG	-1D2AH
M1.4	0.2	-1D4A	-1D4AG	-1D4AH
M1.6	0.2	-1D6A	-1D6AG	-1D6AH
M1.8	0.2	-1D8A	-1D8AG	-1D8AH
M2	0.2	-2A	-2AG	-2AH
	0.25	-2B	-2BG	-2BH
M2.5	0.2	-2D5A	-2D5AG	-2D5AH
	0.25	-2D5B	-2D5BG	-2D5BH
	0.35	-2D5D	-2D5DG	-2D5DH
M3	0.25	-3B	-3BG	-3BH
	0.35	-3D	-3DG	-3DH
M3.5	0.25	-3D5B	-3D5BG	-3D5BH
	0.35	-3D5D	-3D5DG	-3D5DH
	0.5	-3D5G	-3D5GG	-3D5GH
M4	0.25	-4B	-4BG	-4BH
	0.35	-4D	-4DG	-4DH
	0.5	-4G	-4GG	-4GH
M4.5	0.35	-4D5D	-4D5DG	-4D5DH
	0.5	-4D5G	-4D5GG	-4D5GH
M5	0.25	-5B	-5BG	-5BH
	0.35	-5D	-5DG	-5DH
	0.5	-5G	-5GG	-5GH
M5.5	0.5	-5D5G	-5D5GG	-5D5GH
M6	0.25	-6B	-6BG	-6BH
	0.35	-6D	-6DG	-6DH
	0.5	-6G	-6GG	-6GH
M6.5	0.5	-6D5G	-6D5GG	-6D5GH
M7	0.35	-7D	-7DG	-7DH
	0.5	-7G	-7GG	-7GH
M7.5	0.5	-7D5G	-7D5GG	-7D5GH
M8	0.35	-8D	-8DG	-8DH
	0.5	-8G	-8GG	-8GH

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M8	1	-8P	-8PG	-8PH
M8.5	0.5	-8D5G	-8D5GG	-8D5GH
M9	0.35	-9D	-9DG	-9DH
	0.5	-9G	-9GG	-9GH
	0.75	-9L	-9LG	-9LH
	1	-9P	-9PG	-9PH
M10	0.35	-10D	-10DG	-10DH
	0.5	-10G	-10GG	-10GH
	1	-10P	-10PG	-10PH
	1.25	-10Q	-10QG	-10QH
M11	0.5	-11G	-11GG	-11GH
	1	-11P	-11PG	-11PH
M12	0.5	-12G	-12GG	-12GH
	1	-12P	-12PG	-12PH
	1.25	-12Q	-12QG	-12QH
	1.5	-12R	-12RG	-12RH
M13	0.5	-13G	-13GG	-13GH
	1	-13P	-13PG	-13PH
	1.5	-13R	-13RG	-13RH
M14	0.5	-14G	-14GG	-14GH
	1	-14P	-14PG	-14PH
	1.25	-14Q	-14QG	-14QH
	1.5	-14R	-14RG	-14RH
M15	0.5	-15G	-15GG	-15GH
	1	-15P	-15PG	-15PH
	1.5	-15R	-15RG	-15RH
M16	0.5	-16G	-16GG	-16GH
	1	-16P	-16PG	-16PH
	1.25	-16Q	-16QG	-16QH
	1.5	-16R	-16RG	-16RH
M17	0.5	-17G	-17GG	-17GH
	1	-17P	-17PG	-17PH
	1.5	-17R	-17RG	-17RH

To be continued

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Continued from previous page

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M18	0.5	-18G	-18GG	-18GH
	1	-18P	-18PG	-18PH
	1.25	-18Q	-18QG	-18QH
	1.5	-18R	-18RG	-18RH
	2	-18T	-18TG	-18TH
M19	0.5	-19G	-19GG	-19GH
	1	-19P	-19PG	-19PH
	1.5	-19R	-19RG	-19RH
M20	0.5	-20G	-20GG	-20GH
	1	-20P	-20PG	-20PH
	1.25	-20Q	-20QG	-20QH
	1.5	-20R	-20RG	-20RH
	2	-20T	-20TG	-20TH
M21	0.5	-21G	-21GG	-21GH
	1	-21P	-21PG	-21PH
	1.5	-21R	-21RG	-21RH
M22	0.5	-22G	-22GG	-22GH
	1	-22P	-22PG	-22PH
	1.25	-22Q	-22QG	-22QH
	1.5	-22R	-22RG	-22RH
	2	-22T	-22TG	-22TH
M23	0.5	-23G	-23GG	-23GH
	1	-23P	-23PG	-23PH
M24	0.5	-24G	-24GG	-24GH
	1	-24P	-24PG	-24PH
	1.25	-24Q	-24QG	-24QH
	1.5	-24R	-24RG	-24RH
	2	-24T	-24TG	-24TH
M25	0.5	-25G	-25GG	-25GH
	1	-25P	-25PG	-25PH
	1.5	-25R	-25RG	-25RH
	2	-25T	-25TG	-25TH
M26	0.5	-26G	-26GG	-26GH
	1	-26P	-26PG	-26PH
	1.5	-26R	-26RG	-26RH
	2	-26T	-26TG	-26TH
M27	0.5	-27G	-27GG	-27GH
	1	-27P	-27PG	-27PH
	1.5	-27R	-27RG	-27RH
	2	-27T	-27TG	-27TH
M28	0.5	-28G	-28GG	-28GH
	1	-28P	-28PG	-28PH
	1.5	-28R	-28RG	-28RH
	2	-28T	-28TG	-28TH
M29	0.5	-29G	-29GG	-29GH
	0.75	-29L	-29LG	-29LH
	1	-29P	-29PG	-29PH
M30	0.5	-30G	-30GG	-30GH
	0.75	-30L	-30LG	-30LH
	1	-30P	-30PG	-30PH
	1.5	-30R	-30RG	-30RH
	2	-30T	-30TG	-30TH
	3	-30V	-30VG	-30VH

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M31	0.5	-31G	-31GG	-31GH
	0.75	-31L	-31LG	-31LH
M32	0.5	-32G	-32GG	-32GH
	0.75	-32L	-32LG	-32LH
	1	-32P	-32PG	-32PH
	1.5	-32R	-32RG	-32RH
	2	-32T	-32TG	-32TH
M33	0.5	-33G	-33GG	-33GH
	0.75	-33L	-33LG	-33LH
	1	-33P	-33PG	-33PH
	1.5	-33R	-33RG	-33RH
	2	-33T	-33TG	-33TH
	3	-33V	-33VG	-33VH
M34	0.75	-34L	-34LG	-34LH
	1	-34P	-34PG	-34PH
	1.5	-34R	-34RG	-34RH
	2	-34T	-34TG	-34TH
M35	0.75	-35L	-35LG	-35LH
	1	-35P	-35PG	-35PH
	1.5	-35R	-35RG	-35RH
	2	-35T	-35TG	-35TH
M36	0.75	-36L	-36LG	-36LH
	1	-36P	-36PG	-36PH
	1.5	-36R	-36RG	-36RH
	2	-36T	-36TG	-36TH
	3	-36V	-36VG	-36VH
M37	0.75	-37L	-37LG	-37LH
M38	0.75	-38L	-38LG	-38LH
	1	-38P	-38PG	-38PH
	1.5	-38R	-38RG	-38RH
	2	-38T	-38TG	-38TH
M39	0.75	-39L	-39LG	-39LH
	1	-39P	-39PG	-39PH
	1.5	-39R	-39RG	-39RH
	2	-39T	-39TG	-39TH
	3	-39V	-39VG	-39VH
M40	0.75	-40L	-40LG	-40LH
	1	-40P	-40PG	-40PH
	1.5	-40R	-40RG	-40RH
	2	-40T	-40TG	-40TH
	3	-40V	-40VG	-40VH
M42	1	-42P	-42PG	-42PH
	1.5	-42R	-42RG	-42RH
	2	-42T	-42TG	-42TH
	3	-42V	-42VG	-42VH
M45	1	-45P	-45PG	-45PH
	1.5	-45R	-45RG	-45RH
	2	-45T	-45TG	-45TH
	3	-45V	-45VG	-45VH
M48	1	-48P	-48PG	-48PH
	1.5	-48R	-48RG	-48RH
	2	-48T	-48TG	-48TH
	3	-48V	-48VG	-48VH

To be continued

Continued from previous page

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M50	1	-50P	-50PG	-50PH
	1.5	-50R	-50RG	-50RH
	2	-50T	-50TG	-50TH
	3	-50V	-50VG	-50VH
M52	1	-52P	-52PG	-52PH
	1.5	-52R	-52RG	-52RH
	2	-52T	-52TG	-52TH
	3	-52V	-52VG	-52VH
	4	-52X	-52XG	-52XH
M55	1	-55P	-55PG	-55PH
	1.5	-55R	-55RG	-55RH
	2	-55T	-55TG	-55TH
	3	-55V	-55VG	-55VH
	4	-55X	-55XG	-55XH
M56	1	-56P	-56PG	-56PH
	1.5	-56R	-56RG	-56RH
	2	-56T	-56TG	-56TH
	3	-56V	-56VG	-56VH
	4	-56X	-56XG	-56XH
M58	1	-58P	-58PG	-58PH
	1.5	-58R	-58RG	-58RH
	2	-58T	-58TG	-58TH
	3	-58V	-58VG	-58VH
	4	-58X	-58XG	-58XH
M60	1	-60P	-60PG	-60PH
	1.5	-60R	-60RG	-60RH
	2	-60T	-60TG	-60TH
	3	-60V	-60VG	-60VH
	4	-60X	-60XG	-60XH
M62	1.5	-62R	-62RG	-62RH
	2	-62T	-62TG	-62TH
	3	-62V	-62VG	-62VH
	4	-62X	-62XG	-62XH
M64	1.5	-64R	-64RG	-64RH
	2	-64T	-64TG	-64TH
	3	-64V	-64VG	-64VH
	4	-64X	-64XG	-64XH
M65	1.5	-65R	-65RG	-65RH
	2	-65T	-65TG	-65TH
	3	-65V	-65VG	-65VH
	4	-65X	-65XG	-65XH
M68	1.5	-68R	-68RG	-68RH
	2	-68T	-68TG	-68TH
	3	-68V	-68VG	-68VH
	4	-68X	-68XG	-68XH
M70	1.5	-70R	-70RG	-70RH
	2	-70T	-70TG	-70TH
	3	-70V	-70VG	-70VH
	4	-70X	-70XG	-70XH
	6	-70O	-70OG	-70OH
M72	1.5	-72R	-72RG	-72RH

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M72	2	-72T	-72TG	-72TH
	3	-72V	-72VG	-72VH
	4	-72X	-72XG	-72XH
	6	-72O	-72OG	-72OH
M75	1.5	-75R	-75RG	-75RH
	2	-75T	-75TG	-75TH
	3	-75V	-75VG	-75VH
	4	-75X	-75XG	-75XH
M76	1.5	-76R	-76RG	-76RH
	2	-76T	-76TG	-76TH
	3	-76V	-76VG	-76VH
	4	-76X	-76XG	-76XH
	6	-76O	-76OG	-76OH
M78	2	-78T	-78TG	-78TH
M80	1.5	-80R	-80RG	-80RH
	2	-80T	-80TG	-80TH
	3	-80V	-80VG	-80VH
	4	-80X	-80XG	-80XH
	6	-80O	-80OG	-80OH
M82	2	-82T	-82TG	-82TH
M85	2	-85T	-85TG	-85TH
	3	-85V	-85VG	-85VH
	4	-85X	-85XG	-85XH
	6	-85O	-85OG	-85OH
M90	2	-90T	-90TG	-90TH
	3	-90V	-90VG	-90VH
	4	-90X	-90XG	-90XH
	6	-90O	-90OG	-90OH
M95	2	-95T	-95TG	-95TH
	3	-95V	-95VG	-95VH
	4	-95X	-95XG	-95XH
	6	-95O	-95OG	-95OH
M100	2	-100T	-100TG	-100TH
	3	-100V	-100VG	-100VH
	4	-100X	-100XG	-100XH
	6	-100O	-100OG	-100OH
M105	2	-105T	-105TG	-105TH
	3	-105V	-105VG	-105VH
	4	-105X	-105XG	-105XH
	6	-105O	-105OG	-105OH
M110	2	-110T	-110TG	-110TH
	3	-110V	-110VG	-110VH
	4	-110X	-110XG	-110XH
	6	-110O	-110OG	-110OH
M115	2	-115T	-115TG	-115TH
	3	-115V	-115VG	-115VH
	4	-115X	-115XG	-115XH
	6	-115O	-115OG	-115OH
M120	2	-120T	-120TG	-120TH
	3	-120V	-120VG	-120VH
	4	-120X	-120XG	-120XH
	6	-120O	-120OG	-120OH

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WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES

INSPECTION CERTIFICATE

METRIC THREAD RING GAGES

- Standard ISO1502
- Supplied with manufacturer inspection certificate



4120-16



4120-16N

Code example:
"**-2**" stands for "**4120-2**"

Individual

Size (mm)		Code (4120)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M2	0.4	**-2**	**-2N**	**-2E**	**-2EN**	**-2H**	**-2HN**
M2.2	0.45	**-2D2**	**-2D2N**	**-2D2E**	**-2D2EN**	**-2D2H**	**-2D2HN**
M2.3	0.4	**-2D3**	**-2D3N**	**-2D3E**	**-2D3EN**	**-2D3H**	**-2D3HN**
M2.5	0.45	**-2D5**	**-2D5N**	**-2D5E**	**-2D5EN**	**-2D5H**	**-2D5HN**
M2.6	0.45	**-2D6**	**-2D6N**	**-2D6E**	**-2D6EN**	**-2D6H**	**-2D6HN**
M3	0.5	**-3**	**-3N**	**-3E**	**-3EN**	**-3H**	**-3HN**
M3.5	0.6	**-3D5**	**-3D5N**	**-3D5E**	**-3D5EN**	**-3D5H**	**-3D5HN**
M4	0.7	**-4**	**-4N**	**-4E**	**-4EN**	**-4H**	**-4HN**
M4.5	0.75	**-4D5**	**-4D5N**	**-4D5E**	**-4D5EN**	**-4D5H**	**-4D5HN**
M5	0.8	**-5**	**-5N**	**-5E**	**-5EN**	**-5H**	**-5HN**
M6	1	**-6**	**-6N**	**-6E**	**-6EN**	**-6H**	**-6HN**
M7	1	**-7**	**-7N**	**-7E**	**-7EN**	**-7H**	**-7HN**
M8	1.25	**-8**	**-8N**	**-8E**	**-8EN**	**-8H**	**-8HN**
M9	1.25	**-9**	**-9N**	**-9E**	**-9EN**	**-9H**	**-9HN**
M10	1.5	**-10**	**-10N**	**-10E**	**-10EN**	**-10H**	**-10HN**
M11	1.5	**-11**	**-11N**	**-11E**	**-11EN**	**-11H**	**-11HN**
M12	1.75	**-12**	**-12N**	**-12E**	**-12EN**	**-12H**	**-12HN**
M14	2	**-14**	**-14N**	**-14E**	**-14EN**	**-14H**	**-14HN**
M16	2	**-16**	**-16N**	**-16E**	**-16EN**	**-16H**	**-16HN**
M18	2.5	**-18**	**-18N**	**-18E**	**-18EN**	**-18H**	**-18HN**
M20	2.5	**-20**	**-20N**	**-20E**	**-20EN**	**-20H**	**-20HN**
M22	2.5	**-22**	**-22N**	**-22E**	**-22EN**	**-22H**	**-22HN**
M24	3	**-24**	**-24N**	**-24E**	**-24EN**	**-24H**	**-24HN**
M27	3	**-27**	**-27N**	**-27E**	**-27EN**	**-27H**	**-27HN**
M30	3.5	**-30**	**-30N**	**-30E**	**-30EN**	**-30H**	**-30HN**
M33	3.5	**-33**	**-33N**	**-33E**	**-33EN**	**-33H**	**-33HN**
M36	4	**-36**	**-36N**	**-36E**	**-36EN**	**-36H**	**-36HN**
M39	4	**-39**	**-39N**	**-39E**	**-39EN**	**-39H**	**-39HN**
M42	4.5	**-42**	**-42N**	**-42E**	**-42EN**	**-42H**	**-42HN**
M45	4.5	**-45**	**-45N**	**-45E**	**-45EN**	**-45H**	**-45HN**
M48	5	**-48**	**-48N**	**-48E**	**-48EN**	**-48H**	**-48HN**
M52	5	**-52**	**-52N**	**-52E**	**-52EN**	**-52H**	**-52HN**
M56	5.5	**-56**	**-56N**	**-56E**	**-56EN**	**-56H**	**-56HN**
M60	5.5	**-60**	**-60N**	**-60E**	**-60EN**	**-60H**	**-60HN**
M64	6	**-64**	**-64N**	**-64E**	**-64EN**	**-64H**	**-64HN**
M68	6	**-68**	**-68N**	**-68E**	**-68EN**	**-68H**	**-68HN**

Go ring gage set (Class 6g)

Code	Thread ring gages included (mm)
4120-S7	M3x0.5 (**4120-3**), M4x0.7 (**4120-4**), M5x0.8 (**4120-5**), M6x1 (**4120-6**), M8x1.25 (**4120-8**), M10x1.5 (**4120-10**), M12x1.75 (**4120-12**)

No Go ring gage set (Class 6g)

Code	Thread ring gages included (mm)
4120-S7N	M3x0.5 (**4120-3N**), M4x0.7 (**4120-4N**), M5x0.8 (**4120-5N**), M6x1 (**4120-6N**), M8x1.25 (**4120-8N**), M10x1.5 (**4120-10N**), M12x1.75 (**4120-12N**)

METRIC FINE THREAD RING GAGES

INSPECTION CERTIFICATE

WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES

- Standard ISO1502
- Supplied with manufacturer inspection certificate (except gages larger than M100)



4129-10P



4129-10PN

Code example:
"**-3D5G**" stands for "**4129-3D5G**"

Size (mm)		Code (4129)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M3.5	0.5	-3D5G	-3D5GN	-3D5GE	-3D5GEN	-3D5GH	-3D5GHN
M4	0.5	-4G	-4GN	-4GE	-4GEN	-4GH	-4GHN
M4.5	0.5	-4D5G	-4D5GN	-4D5GE	-4D5GEN	-4D5GH	-4D5GHN
M5	0.5	-5G	-5GN	-5GE	-5GEN	-5GH	-5GHN
M5.5	0.5	-5D5G	-5D5GN	-5D5GE	-5D5GEN	-5D5GH	-5D5GHN
M6	0.5	-6G	-6GN	-6GE	-6GEN	-6GH	-6GHN
	0.75	-6L	-6LN	-6LE	-6LEN	-6LH	-6LHN
M6.5	0.5	-6D5G	-6D5GN	-6D5GE	-6D5GEN	-6D5GH	-6D5GHN
M7	0.5	-7G	-7GN	-7GE	-7GEN	-7GH	-7GHN
	0.75	-7L	-7LN	-7LE	-7LEN	-7LH	-7LHN
M7.5	0.5	-7D5G	-7D5GN	-7D5GE	-7D5GEN	-7D5GH	-7D5GHN
M8	0.5	-8G	-8GN	-8GE	-8GEN	-8GH	-8GHN
	0.75	-8L	-8LN	-8LE	-8LEN	-8LH	-8LHN
	1	-8P	-8PN	-8PE	-8PEN	-8PH	-8PHN
M8.5	0.5	-8D5G	-8D5GN	-8D5GE	-8D5GEN	-8D5GH	-8D5GHN
M9	0.5	-9G	-9GN	-9GE	-9GEN	-9GH	-9GHN
	0.75	-9L	-9LN	-9LE	-9LEN	-9LH	-9LHN
	1	-9P	-9PN	-9PE	-9PEN	-9PH	-9PHN
M10	0.5	-10G	-10GN	-10GE	-10GEN	-10GH	-10GHN
	0.75	-10L	-10LN	-10LE	-10LEN	-10LH	-10LHN
	1	-10P	-10PN	-10PE	-10PEN	-10PH	-10PHN
	1.25	-10Q	-10QN	-10QE	-10QEN	-10QH	-10QHN
M11	0.5	-11G	-11GN	-11GE	-11GEN	-11GH	-11GHN
	0.75	-11L	-11LN	-11LE	-11LEN	-11LH	-11LHN
	1	-11P	-11PN	-11PE	-11PEN	-11PH	-11PHN
M12	0.5	-12G	-12GN	-12GE	-12GEN	-12GH	-12GHN
	0.75	-12L	-12LN	-12LE	-12LEN	-12LH	-12LHN
	1	-12P	-12PN	-12PE	-12PEN	-12PH	-12PHN
	1.25	-12Q	-12QN	-12QE	-12QEN	-12QH	-12QHN
	1.5	-12R	-12RN	-12RE	-12REN	-12RH	-12RHN
M13	0.5	-13G	-13GN	-13GE	-13GEN	-13GH	-13GHN
	0.75	-13L	-13LN	-13LE	-13LEN	-13LH	-13LHN
	1	-13P	-13PN	-13PE	-13PEN	-13PH	-13PHN
	1.5	-13R	-13RN	-13RE	-13REN	-13RH	-13RHN
M14	0.5	-14G	-14GN	-14GE	-14GEN	-14GH	-14GHN
	0.75	-14L	-14LN	-14LE	-14LEN	-14LH	-14LHN
	1	-14P	-14PN	-14PE	-14PEN	-14PH	-14PHN
	1.25	-14Q	-14QN	-14QE	-14QEN	-14QH	-14QHN
	1.5	-14R	-14RN	-14RE	-14REN	-14RH	-14RHN

To be continued

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

Continued from previous page

Size (mm)		Code (4129)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M15	0.5	-15G	-15GN	-15GE	-15GEN	-15GH	-15GHN
	0.75	-15L	-15LN	-15LE	-15LEN	-15LH	-15LHN
	1	-15P	-15PN	-15PE	-15PEN	-15PH	-15PHN
	1.5	-15R	-15RN	-15RE	-15REN	-15RH	-15RHN
M16	0.5	-16G	-16GN	-16GE	-16GEN	-16GH	-16GHN
	0.75	-16L	-16LN	-16LE	-16LEN	-16LH	-16LHN
	1	-16P	-16PN	-16PE	-16PEN	-16PH	-16PHN
	1.25	-16Q	-16QN	-16QE	-16QEN	-16QH	-16QHN
	1.5	-16R	-16RN	-16RE	-16REN	-16RH	-16RHN
M17	0.5	-17G	-17GN	-17GE	-17GEN	-17GH	-17GHN
	0.75	-17L	-17LN	-17LE	-17LEN	-17LH	-17LHN
	1	-17P	-17PN	-17PE	-17PEN	-17PH	-17PHN
	1.5	-17R	-17RN	-17RE	-17REN	-17RH	-17RHN
M18	0.5	-18G	-18GN	-18GE	-18GEN	-18GH	-18GHN
	0.75	-18L	-18LN	-18LE	-18LEN	-18LH	-18LHN
	1	-18P	-18PN	-18PE	-18PEN	-18PH	-18PHN
	1.25	-18Q	-18QN	-18QE	-18QEN	-18QH	-18QHN
	1.5	-18R	-18RN	-18RE	-18REN	-18RH	-18RHN
	2	-18T	-18TN	-18TE	-18TEN	-18TH	-18THN
M19	0.5	-19G	-19GN	-19GE	-19GEN	-19GH	-19GHN
	0.75	-19L	-19LN	-19LE	-19LEN	-19LH	-19LHN
	1	-19P	-19PN	-19PE	-19PEN	-19PH	-19PHN
	1.5	-19R	-19RN	-19RE	-19REN	-19RH	-19RHN
M20	0.5	-20G	-20GN	-20GE	-20GEN	-20GH	-20GHN
	0.75	-20L	-20LN	-20LE	-20LEN	-20LH	-20LHN
	1	-20P	-20PN	-20PE	-20PEN	-20PH	-20PHN
	1.25	-20Q	-20QN	-20QE	-20QEN	-20QH	-20QHN
	1.5	-20R	-20RN	-20RE	-20REN	-20RH	-20RHN
	2	-20T	-20TN	-20TE	-20TEN	-20TH	-20THN
M21	0.75	-21L	-21LN	-21LE	-21LEN	-21LH	-21LHN
	1	-21P	-21PN	-21PE	-21PEN	-21PH	-21PHN
	1.5	-21R	-21RN	-21RE	-21REN	-21RH	-21RHN
M22	0.75	-22L	-22LN	-22LE	-22LEN	-22LH	-22LHN
	1	-22P	-22PN	-22PE	-22PEN	-22PH	-22PHN
	1.25	-22Q	-22QN	-22QE	-22QEN	-22QH	-22QHN
	1.5	-22R	-22RN	-22RE	-22REN	-22RH	-22RHN
	2	-22T	-22TN	-22TE	-22TEN	-22TH	-22THN
M23	0.75	-23L	-23LN	-23LE	-23LEN	-23LH	-23LHN
	1	-23P	-23PN	-23PE	-23PEN	-23PH	-23PHN
M24	0.75	-24L	-24LN	-24LE	-24LEN	-24LH	-24LHN
	1	-24P	-24PN	-24PE	-24PEN	-24PH	-24PHN
	1.25	-24Q	-24QN	-24QE	-24QEN	-24QH	-24QHN
	1.5	-24R	-24RN	-24RE	-24REN	-24RH	-24RHN
	2	-24T	-24TN	-24TE	-24TEN	-24TH	-24THN
M25	0.75	-25L	-25LN	-25LE	-25LEN	-25LH	-25LHN
	1	-25P	-25PN	-25PE	-25PEN	-25PH	-25PHN
	1.5	-25R	-25RN	-25RE	-25REN	-25RH	-25RHN
	2	-25T	-25TN	-25TE	-25TEN	-25TH	-25THN
M26	0.75	-26L	-26LN	-26LE	-26LEN	-26LH	-26LHN
	1	-26P	-26PN	-26PE	-26PEN	-26PH	-26PHN
	1.5	-26R	-26RN	-26RE	-26REN	-26RH	-26RHN
	2	-26T	-26TN	-26TE	-26TEN	-26TH	-26THN

To be continued

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

Continued from previous page

Size (mm)		Code (4129)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M27	0.75	-27L	-27LN	-27LE	-27LEN	-27LH	-27LHN
	1	-27P	-27PN	-27PE	-27PEN	-27PH	-27PHN
	1.5	-27R	-27RN	-27RE	-27REN	-27RH	-27RHN
	2	-27T	-27TN	-27TE	-27TEN	-27TH	-27THN
M28	0.75	-28L	-28LN	-28LE	-28LEN	-28LH	-28LHN
	1	-28P	-28PN	-28PE	-28PEN	-28PH	-28PHN
	1.5	-28R	-28RN	-28RE	-28REN	-28RH	-28RHN
	2	-28T	-28TN	-28TE	-28TEN	-28TH	-28THN
M29	0.75	-29L	-29LN	-29LE	-29LEN	-29LH	-29LHN
	1	-29P	-29PN	-29PE	-29PEN	-29PH	-29PHN
M30	0.75	-30L	-30LN	-30LE	-30LEN	-30LH	-30LHN
	1	-30P	-30PN	-30PE	-30PEN	-30PH	-30PHN
	1.5	-30R	-30RN	-30RE	-30REN	-30RH	-30RHN
	2	-30T	-30TN	-30TE	-30TEN	-30TH	-30THN
	3	-30V	-30VN	-30VE	-30VEN	-30VH	-30VHN
M31	0.75	-31L	-31LN	-31LE	-31LEN	-31LH	-31LHN
M32	0.75	-32L	-32LN	-32LE	-32LEN	-32LH	-32LHN
	1	-32P	-32PN	-32PE	-32PEN	-32PH	-32PHN
	1.5	-32R	-32RN	-32RE	-32REN	-32RH	-32RHN
	2	-32T	-32TN	-32TE	-32TEN	-32TH	-32THN
M33	0.75	-33L	-33LN	-33LE	-33LEN	-33LH	-33LHN
	1	-33P	-33PN	-33PE	-33PEN	-33PH	-33PHN
	1.5	-33R	-33RN	-33RE	-33REN	-33RH	-33RHN
	2	-33T	-33TN	-33TE	-33TEN	-33TH	-33THN
	3	-33V	-33VN	-33VE	-33VEN	-33VH	-33VHN
M34	1	-34P	-34PN	-34PE	-34PEN	-34PH	-34PHN
	1.5	-34R	-34RN	-34RE	-34REN	-34RH	-34RHN
	2	-34T	-34TN	-34TE	-34TEN	-34TH	-34THN
M35	1	-35P	-35PN	-35PE	-35PEN	-35PH	-35PHN
	1.5	-35R	-35RN	-35RE	-35REN	-35RH	-35RHN
	2	-35T	-35TN	-35TE	-35TEN	-35TH	-35THN
M36	1	-36P	-36PN	-36PE	-36PEN	-36PH	-36PHN
	1.5	-36R	-36RN	-36RE	-36REN	-36RH	-36RHN
	2	-36T	-36TN	-36TE	-36TEN	-36TH	-36THN
	3	-36V	-36VN	-36VE	-36VEN	-36VH	-36VHN
M38	1	-38P	-38PN	-38PE	-38PEN	-38PH	-38PHN
	1.5	-38R	-38RN	-38RE	-38REN	-38RH	-38RHN
	2	-38T	-38TN	-38TE	-38TEN	-38TH	-38THN
M39	1	-39P	-39PN	-39PE	-39PEN	-39PH	-39PHN
	1.5	-39R	-39RN	-39RE	-39REN	-39RH	-39RHN
	2	-39T	-39TN	-39TE	-39TEN	-39TH	-39THN
	3	-39V	-39VN	-39VE	-39VEN	-39VH	-39VHN
M40	1.5	-40R	-40RN	-40RE	-40REN	-40RH	-40RHN
	2	-40T	-40TN	-40TE	-40TEN	-40TH	-40THN
	3	-40V	-40VN	-40VE	-40VEN	-40VH	-40VHN
M42	1.5	-42R	-42RN	-42RE	-42REN	-42RH	-42RHN
	2	-42T	-42TN	-42TE	-42TEN	-42TH	-42THN
	3	-42V	-42VN	-42VE	-42VEN	-42VH	-42VHN
M45	1.5	-45R	-45RN	-45RE	-45REN	-45RH	-45RHN
	2	-45T	-45TN	-45TE	-45TEN	-45TH	-45THN
	3	-45V	-45VN	-45VE	-45VEN	-45VH	-45VHN

To be continued

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

Continued from previous page

Size (mm)		Code (4129)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M48	1.5	-48R	-48RN	-48RE	-48REN	-48RH	-48RHN
	2	-48T	-48TN	-48TE	-48TEN	-48TH	-48THN
	3	-48V	-48VN	-48VE	-48VEN	-48VH	-48VHN
M50	1.5	-50R	-50RN	-50RE	-50REN	-50RH	-50RHN
	2	-50T	-50TN	-50TE	-50TEN	-50TH	-50THN
	3	-50V	-50VN	-50VE	-50VEN	-50VH	-50VHN
M52	1.5	-52R	-52RN	-52RE	-52REN	-52RH	-52RHN
	2	-52T	-52TN	-52TE	-52TEN	-52TH	-52THN
	3	-52V	-52VN	-52VE	-52VEN	-52VH	-52VHN
	4	-52X	-52XN	-52XE	-52XEN	-52XH	-52XHN
M55	1.5	-55R	-55RN	-55RE	-55REN	-55RH	-55RHN
	2	-55T	-55TN	-55TE	-55TEN	-55TH	-55THN
	3	-55V	-55VN	-55VE	-55VEN	-55VH	-55VHN
	4	-55X	-55XN	-55XE	-55XEN	-55XH	-55XHN
M56	1.5	-56R	-56RN	-56RE	-56REN	-56RH	-56RHN
	2	-56T	-56TN	-56TE	-56TEN	-56TH	-56THN
	3	-56V	-56VN	-56VE	-56VEN	-56VH	-56VHN
	4	-56X	-56XN	-56XE	-56XEN	-56XH	-56XHN
M58	1.5	-58R	-58RN	-58RE	-58REN	-58RH	-58RHN
	2	-58T	-58TN	-58TE	-58TEN	-58TH	-58THN
	3	-58V	-58VN	-58VE	-58VEN	-58VH	-58VHN
	4	-58X	-58XN	-58XE	-58XEN	-58XH	-58XHN
M60	1.5	-60R	-60RN	-60RE	-60REN	-60RH	-60RHN
	2	-60T	-60TN	-60TE	-60TEN	-60TH	-60THN
	3	-60V	-60VN	-60VE	-60VEN	-60VH	-60VHN
	4	-60X	-60XN	-60XE	-60XEN	-60XH	-60XHN
M62	1.5	-62R	-62RN	-62RE	-62REN	-62RH	-62RHN
	2	-62T	-62TN	-62TE	-62TEN	-62TH	-62THN
	3	-62V	-62VN	-62VE	-62VEN	-62VH	-62VHN
	4	-62X	-62XN	-62XE	-62XEN	-62XH	-62XHN
M64	1.5	-64R	-64RN	-64RE	-64REN	-64RH	-64RHN
	2	-64T	-64TN	-64TE	-64TEN	-64TH	-64THN
	3	-64V	-64VN	-64VE	-64VEN	-64VH	-64VHN
	4	-64X	-64XN	-64XE	-64XEN	-64XH	-64XHN
M65	1.5	-65R	-65RN	-65RE	-65REN	-65RH	-65RHN
	2	-65T	-65TN	-65TE	-65TEN	-65TH	-65THN
	3	-65V	-65VN	-65VE	-65VEN	-65VH	-65VHN
	4	-65X	-65XN	-65XE	-65XEN	-65XH	-65XHN
M68	1.5	-68R	-68RN	-68RE	-68REN	-68RH	-68RHN
	2	-68T	-68TN	-68TE	-68TEN	-68TH	-68THN
	3	-68V	-68VN	-68VE	-68VEN	-68VH	-68VHN
	4	-68X	-68XN	-68XE	-68XEN	-68XH	-68XHN
M70	1.5	-70R	-70RN	-70RE	-70REN	-70RH	-70RHN
	2	-70T	-70TN	-70TE	-70TEN	-70TH	-70THN
	3	-70V	-70VN	-70VE	-70VEN	-70VH	-70VHN
	4	-70X	-70XN	-70XE	-70XEN	-70XH	-70XHN
	6	-70O	-70ON	-70OE	-70OEN	-70OH	-70OHN
M72	1.5	-72R	-72RN	-72RE	-72REN	-72RH	-72RHN
	2	-72T	-72TN	-72TE	-72TEN	-72TH	-72THN

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Continued from previous page

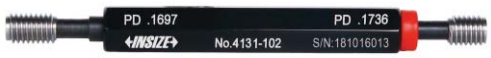
Size (mm)		Code (4129)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M72	3	-72V	-72VN	-72VE	-72VEN	-72VH	-72VHN
	4	-72X	-72XN	-72XE	-72XEN	-72XH	-72XHN
	6	-72O	-72ON	-72OE	-72OEN	-72OH	-72OHN
M75	1.5	-75R	-75RN	-75RE	-75REN	-75RH	-75RHN
	2	-75T	-75TN	-75TE	-75TEN	-75TH	-75THN
	3	-75V	-75VN	-75VE	-75VEN	-75VH	-75VHN
	4	-75X	-75XN	-75XE	-75XEN	-75XH	-75XHN
M76	1.5	-76R	-76RN	-76RE	-76REN	-76RH	-76RHN
	2	-76T	-76TN	-76TE	-76TEN	-76TH	-76THN
	3	-76V	-76VN	-76VE	-76VEN	-76VH	-76VHN
	4	-76X	-76XN	-76XE	-76XEN	-76XH	-76XHN
	6	-76O	-76ON	-76OE	-76OEN	-76OH	-76OHN
M78	2	-78T	-78TN	-78TE	-78TEN	-78TH	-78THN
M80	1.5	-80R	-80RN	-80RE	-80REN	-80RH	-80RHN
	2	-80T	-80TN	-80TE	-80TEN	-80TH	-80THN
	3	-80V	-80VN	-80VE	-80VEN	-80VH	-80VHN
	4	-80X	-80XN	-80XE	-80XEN	-80XH	-80XHN
	6	-80O	-80ON	-80OE	-80OEN	-80OH	-80OHN
M82	2	-82T	-82TN	-82TE	-82TEN	-82TH	-82THN
M85	2	-85T	-85TN	-85TE	-85TEN	-85TH	-85THN
	3	-85V	-85VN	-85VE	-85VEN	-85VH	-85VHN
	4	-85X	-85XN	-85XE	-85XEN	-85XH	-85XHN
	6	-85O	-85ON	-85OE	-85OEN	-85OH	-85OHN
M90	2	-90T	-90TN	-90TE	-90TEN	-90TH	-90THN
	3	-90V	-90VN	-90VE	-90VEN	-90VH	-90VHN
	4	-90X	-90XN	-90XE	-90XEN	-90XH	-90XHN
	6	-90O	-90ON	-90OE	-90OEN	-90OH	-90OHN
M95	2	-95T	-95TN	-95TE	-95TEN	-95TH	-95THN
	3	-95V	-95VN	-95VE	-95VEN	-95VH	-95VHN
	4	-95X	-95XN	-95XE	-95XEN	-95XH	-95XHN
	6	-95O	-95ON	-95OE	-95OEN	-95OH	-95OHN
M100	2	-100T	-100TN	-100TE	-100TEN	-100TH	-100THN
	3	-100V	-100VN	-100VE	-100VEN	-100VH	-100VHN
	4	-100X	-100XN	-100XE	-100XEN	-100XH	-100XHN
	6	-100O	-100ON	-100OE	-100OEN	-100OH	-100OHN
M105	2	-105T	-105TN	-105TE	-105TEN	-105TH	-105THN
	3	-105V	-105VN	-105VE	-105VEN	-105VH	-105VHN
	4	-105X	-105XN	-105XE	-105XEN	-105XH	-105XHN
	6	-105O	-105ON	-105OE	-105OEN	-105OH	-105OHN
M110	2	-110T	-110TN	-110TE	-110TEN	-110TH	-110THN
	3	-110V	-110VN	-110VE	-110VEN	-110VH	-110VHN
	4	-110X	-110XN	-110XE	-110XEN	-110XH	-110XHN
	6	-110O	-110ON	-110OE	-110OEN	-110OH	-110OHN
M115	2	-115T	-115TN	-115TE	-115TEN	-115TH	-115THN
	3	-115V	-115VN	-115VE	-115VEN	-115VH	-115VHN
	4	-115X	-115XN	-115XE	-115XEN	-115XH	-115XHN
	6	-115O	-115ON	-115OE	-115OEN	-115OH	-115OHN
M120	2	-120T	-120TN	-120TE	-120TEN	-120TH	-120THN
	3	-120V	-120VN	-120VE	-120VEN	-120VH	-120VHN
	4	-120X	-120XN	-120XE	-120XEN	-120XH	-120XHN
	6	-120O	-120ON	-120OE	-120OEN	-120OH	-120OHN

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WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES

INSPECTION CERTIFICATE

AMERICAN STANDARD THREAD PLUG GAGES



4131-102

- Supplied with Go and No-Go gages together
- Standard ANSI/ASME B1.2
- Supplied with manufacturer inspection certificate

Size	Code	
	Class 2B	Class 3B
No. 0-80UNF	**4131-02**	**4131-02B**
No. 1-64UNC	**4131-11**	**4131-11B**
No. 1-72UNF	**4131-12**	**4131-12B**
No. 2-56UNC	**4131-21**	**4131-21B**
No. 2-64UNF	**4131-22**	**4131-22B**
No. 3-48UNC	**4131-31**	**4131-31B**
No. 3-56UNF	**4131-32**	**4131-32B**
No. 4-40UNC	**4131-41**	**4131-41B**
No. 4-48UNF	**4131-42**	**4131-42B**
No. 5-40UNC	**4131-51**	**4131-51B**
No. 5-44UNF	**4131-52**	**4131-52B**
No. 6-32UNC	**4131-61**	**4131-61B**
No. 6-40UNF	**4131-62**	**4131-62B**
No. 8-32UNC	**4131-81**	**4131-81B**
No. 8-36UNF	**4131-82**	**4131-82B**
No. 10-24UNC	**4131-101**	**4131-101B**
No. 10-32UNF	**4131-102**	**4131-102B**
No. 12-24UNC	**4131-121**	**4131-121B**
No. 12-28UNF	**4131-122**	**4131-122B**
No. 12-32UNEF	**4131-123**	**4131-123B**
1/4-20UNC	**4131-1B1**	**4131-1B1B**
1/4-28UNF	**4131-1B2**	**4131-1B2B**
1/4-32UNEF	**4131-1B3**	**4131-1B3B**
1/4-36UNS	**4131-1B4**	**4131-1B4B**
5/16-18UNC	**4131-5D1**	**4131-5D1B**
5/16-24UNF	**4131-5D2**	**4131-5D2B**
5/16-32UNEF	**4131-5D3**	**4131-5D3B**
3/8-16UNC	**4131-3C1**	**4131-3C1B**
3/8-24UNF	**4131-3C2**	**4131-3C2B**
3/8-32UNEF	**4131-3C3**	**4131-3C3B**
7/16-14UNC	**4131-7D1**	**4131-7D1B**
7/16-20UNF	**4131-7D2**	**4131-7D2B**
7/16-28UNEF	**4131-7D3**	**4131-7D3B**
1/2-13UNC	**4131-1A1**	**4131-1A1B**
1/2-20UNF	**4131-1A2**	**4131-1A2B**
1/2-28UNEF	**4131-1A3**	**4131-1A3B**

Size	Code	
	Class 2B	Class 3B
9/16-12UNC	**4131-9D1**	**4131-9D1B**
9/16-18UNF	**4131-9D2**	**4131-9D2B**
9/16-24UNEF	**4131-9D3**	**4131-9D3B**
5/8-11UNC	**4131-5C1**	**4131-5C1B**
5/8-18UNF	**4131-5C2**	**4131-5C2B**
5/8-24UNEF	**4131-5C3**	**4131-5C3B**
11/16-16UN	**4131-11D516**	**4131-11D516B**
11/16-24UNEF	**4131-11D3**	**4131-11D3B**
3/4-10UNC	**4131-3B1**	**4131-3B1B**
3/4-16UNF	**4131-3B2**	**4131-3B2B**
3/4-20UNEF	**4131-3B3**	**4131-3B3B**
13/16-16UN	**4131-13D516**	**4131-13D516B**
13/16-20UNEF	**4131-13D3**	**4131-13D3B**
7/8-9UNC	**4131-7C1**	**4131-7C1B**
7/8-14UNF	**4131-7C2**	**4131-7C2B**
7/8-16UN	**4131-7C516**	**4131-7C516B**
7/8-20UNEF	**4131-7C3**	**4131-7C3B**
15/16-20UNEF	**4131-15D3**	**4131-15D3B**
1-8UNC	**4131-2A1**	**4131-2A1B**
1-12UNF	**4131-2A2**	**4131-2A2B**
1-14UNS	**4131-2A514**	**4131-2A514B**
1-20UNEF	**4131-2A3**	**4131-2A3B**
1-32UN	**4131-2A532**	**4131-2A532B**
1 1/16-12UN	**4131-1E512**	**4131-1E512B**
1 1/16-18UNEF	**4131-1E3**	**4131-1E3B**
1 1/8-7UNC	**4131-1F1**	**4131-1F1B**
1 1/8-8UN	**4131-1F58**	**4131-1F58B**
1 1/8-12UNF	**4131-1F2**	**4131-1F2B**
1 1/8-18UNEF	**4131-1F3**	**4131-1F3B**
1 3/16-12UN	**4131-3E512**	**4131-3E512B**
1 3/16-18UNEF	**4131-3E3**	**4131-3E3B**
1 1/4-7UNC	**4131-1G1**	**4131-1G1B**
1 1/4-8UN	**4131-1G58**	**4131-1G58B**
1 1/4-12UNF	**4131-1G2**	**4131-1G2B**
1 1/4-18UNEF	**4131-1G3**	**4131-1G3B**
1 5/16-12UN	**4131-5E512**	**4131-5E512B**

AMERICAN STANDARD THREAD RING GAGES

INSPECTION CERTIFICATE

WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES



front back

4121-1B1



front back

4121-1B1N

- Standard ANSI/ASME B1.2
- Class 2A
- Supplied with manufacturer inspection certificate

13

Size	Code	
	GO	NOGO
No. 4-40UNC	**4121-41**	**4121-41N**
No. 4-48UNF	**4121-42**	**4121-42N**
No. 5-40UNC	**4121-51**	**4121-51N**
No. 5-44UNF	**4121-52**	**4121-52N**
No. 6-32UNC	**4121-61**	**4121-61N**
No. 6-40UNF	**4121-62**	**4121-62N**
No. 8-32UNC	**4121-81**	**4121-81N**
No. 8-36UNF	**4121-82**	**4121-82N**
No. 10-24UNC	**4121-101**	**4121-101N**
No. 10-32UNF	**4121-102**	**4121-102N**
No. 12-24UNC	**4121-121**	**4121-121N**
No. 12-28UNF	**4121-122**	**4121-122N**
No. 12-32UNEF	**4121-123**	**4121-123N**
1/4-20UNC	**4121-1B1**	**4121-1B1N**
1/4-28UNF	**4121-1B2**	**4121-1B2N**
1/4-32UNEF	**4121-1B3**	**4121-1B3N**
1/4-36UNS	**4121-1B4**	**4121-1B4N**
5/16-18UNC	**4121-5D1**	**4121-5D1N**
5/16-24UNF	**4121-5D2**	**4121-5D2N**
5/16-32UNEF	**4121-5D3**	**4121-5D3N**
3/8-16UNC	**4121-3C1**	**4121-3C1N**
3/8-24UNF	**4121-3C2**	**4121-3C2N**
3/8-32UNEF	**4121-3C3**	**4121-3C3N**
7/16-14UNC	**4121-7D1**	**4121-7D1N**
7/16-20UNF	**4121-7D2**	**4121-7D2N**
7/16-28UNEF	**4121-7D3**	**4121-7D3N**
1/2-13UNC	**4121-1A1**	**4121-1A1N**
1/2-20UNF	**4121-1A2**	**4121-1A2N**
1/2-28UNEF	**4121-1A3**	**4121-1A3N**
9/16-12UNC	**4121-9D1**	**4121-9D1N**
9/16-18UNF	**4121-9D2**	**4121-9D2N**
9/16-24UNEF	**4121-9D3**	**4121-9D3N**

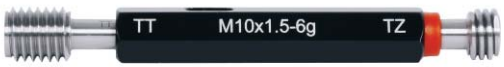
Size	Code	
	GO	NOGO
5/8-11UNC	**4121-5C1**	**4121-5C1N**
5/8-18UNF	**4121-5C2**	**4121-5C2N**
5/8-24UNEF	**4121-5C3**	**4121-5C3N**
11/16-16UN	**4121-11D516**	**4121-11D516N**
11/16-24UNEF	**4121-11D3**	**4121-11D3N**
3/4-10UNC	**4121-3B1**	**4121-3B1N**
3/4-16UNF	**4121-3B2**	**4121-3B2N**
3/4-20UNEF	**4121-3B3**	**4121-3B3N**
13/16-16UN	**4121-13D516**	**4121-13D516N**
13/16-20UNEF	**4121-13D3**	**4121-13D3N**
7/8-9UNC	**4121-7C1**	**4121-7C1N**
7/8-14UNF	**4121-7C2**	**4121-7C2N**
7/8-16UN	**4121-7C516**	**4121-7C516N**
7/8-20UNEF	**4121-7C3**	**4121-7C3N**
15/16-20UNEF	**4121-15D3**	**4121-15D3N**
1-8UNC	**4121-2A1**	**4121-2A1N**
1-12UNF	**4121-2A2**	**4121-2A2N**
1-14UNS	**4121-2A514**	**4121-2A514N**
1-20UNEF	**4121-2A3**	**4121-2A3N**
1-32UN	**4121-2A532**	**4121-2A532N**
1 1/16-12UN	**4121-1E512**	**4121-1E512N**
1 1/16-18UNEF	**4121-1E3**	**4121-1E3N**
1 1/8-7UNC	**4121-1F1**	**4121-1F1N**
1 1/8-8UN	**4121-1F58**	**4121-1F58N**
1 1/8-12UNF	**4121-1F2**	**4121-1F2N**
1 1/8-18UNEF	**4121-1F3**	**4121-1F3N**
1 3/16-12UN	**4121-3E512**	**4121-3E512N**
1 3/16-18UNEF	**4121-3E3**	**4121-3E3N**
1 1/4-7UNC	**4121-1G1**	**4121-1G1N**
1 1/4-8UN	**4121-1G58**	**4121-1G58N**
1 1/4-12UNF	**4121-1G2**	**4121-1G2N**
1 1/4-18UNEF	**4121-1G3**	**4121-1G3N**
1 5/16-12UN	**4121-5E512**	**4121-5E512N**

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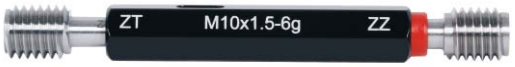
WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES

INSPECTION CERTIFICATE

CHECK PLUGS FOR METRIC THREAD RING GAGES



4647-10



4647-10N

- Standard ISO1502
- Check thread ring gages
- Supplied with manufacturer inspection certificate

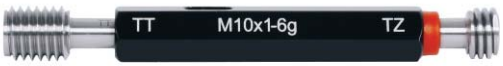
Code example:
"**-2**" stands for "**4647-2**"

Size (mm)		Code (4647)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M2	0.4	-2	-2N	-2E	-2EN	-2H	-2HN
M2.2	0.45	-2D2	-2D2N	-2D2E	-2D2EN	-2D2H	-2D2HN
M2.3	0.4	-2D3	-2D3N	-2D3E	-2D3EN	-2D3H	-2D3HN
M2.5	0.45	-2D5	-2D5N	-2D5E	-2D5EN	-2D5H	-2D5HN
M2.6	0.45	-2D6	-2D6N	-2D6E	-2D6EN	-2D6H	-2D6HN
M3	0.5	-3	-3N	-3E	-3EN	-3H	-3HN
M3.5	0.6	-3D5	-3D5N	-3D5E	-3D5EN	-3D5H	-3D5HN
M4	0.7	-4	-4N	-4E	-4EN	-4H	-4HN
M4.5	0.75	-4D5	-4D5N	-4D5E	-4D5EN	-4D5H	-4D5HN
M5	0.8	-5	-5N	-5E	-5EN	-5H	-5HN
M6	1	-6	-6N	-6E	-6EN	-6H	-6HN
M7	1	-7	-7N	-7E	-7EN	-7H	-7HN
M8	1.25	-8	-8N	-8E	-8EN	-8H	-8HN
M9	1.25	-9	-9N	-9E	-9EN	-9H	-9HN
M10	1.5	-10	-10N	-10E	-10EN	-10H	-10HN
M11	1.5	-11	-11N	-11E	-11EN	-11H	-11HN
M12	1.75	-12	-12N	-12E	-12EN	-12H	-12HN
M14	2	-14	-14N	-14E	-14EN	-14H	-14HN
M16	2	-16	-16N	-16E	-16EN	-16H	-16HN
M18	2.5	-18	-18N	-18E	-18EN	-18H	-18HN
M20	2.5	-20	-20N	-20E	-20EN	-20H	-20HN
M22	2.5	-22	-22N	-22E	-22EN	-22H	-22HN
M24	3	-24	-24N	-24E	-24EN	-24H	-24HN
M27	3	-27	-27N	-27E	-27EN	-27H	-27HN
M30	3.5	-30	-30N	-30E	-30EN	-30H	-30HN
M33	3.5	-33	-33N	-33E	-33EN	-33H	-33HN
M36	4	-36	-36N	-36E	-36EN	-36H	-36HN
M39	4	-39	-39N	-39E	-39EN	-39H	-39HN
M42	4.5	-42	-42N	-42E	-42EN	-42H	-42HN
M45	4.5	-45	-45N	-45E	-45EN	-45H	-45HN
M48	5	-48	-48N	-48E	-48EN	-48H	-48HN
M52	5	-52	-52N	-52E	-52EN	-52H	-52HN
M56	5.5	-56	-56N	-56E	-56EN	-56H	-56HN
M60	5.5	-60	-60N	-60E	-60EN	-60H	-60HN
M64	6	-64	-64N	-64E	-64EN	-64H	-64HN
M68	6	-68	-68N	-68E	-68EN	-68H	-68HN

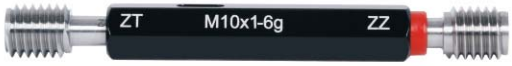
CHECK PLUGS FOR METRIC FINE THREAD RING GAGES

WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES

INSPECTION CERTIFICATE



4677-10P



4677-10PN

- Standard ISO1502
- Check thread ring gages
- Supplied with manufacturer inspection certificate

Code example:
"**-3D5G**" stands for "**4677-3D5G**"

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M3.5	0.5	-3D5G	-3D5GN	-3D5GE	-3D5GEN	-3D5GH	-3D5GHN
M4	0.5	-4G	-4GN	-4GE	-4GEN	-4GH	-4GHN
M4.5	0.5	-4D5G	-4D5GN	-4D5GE	-4D5GEN	-4D5GH	-4D5GHN
M5	0.5	-5G	-5GN	-5GE	-5GEN	-5GH	-5GHN
M5.5	0.5	-5D5G	-5D5GN	-5D5GE	-5D5GEN	-5D5GH	-5D5GHN
M6	0.5	-6G	-6GN	-6GE	-6GEN	-6GH	-6GHN
	0.75	-6L	-6LN	-6LE	-6LEN	-6LH	-6LHN
M6.5	0.5	-6D5G	-6D5GN	-6D5GE	-6D5GEN	-6D5GH	-6D5GHN
M7	0.5	-7G	-7GN	-7GE	-7GEN	-7GH	-7GHN
	0.75	-7L	-7LN	-7LE	-7LEN	-7LH	-7LHN
M7.5	0.5	-7D5G	-7D5GN	-7D5GE	-7D5GEN	-7D5GH	-7D5GHN
M8	0.5	-8G	-8GN	-8GE	-8GEN	-8GH	-8GHN
	0.75	-8L	-8LN	-8LE	-8LEN	-8LH	-8LHN
	1	-8P	-8PN	-8PE	-8PEN	-8PH	-8PHN
M8.5	0.5	-8D5G	-8D5GN	-8D5GE	-8D5GEN	-8D5GH	-8D5GHN
M9	0.5	-9G	-9GN	-9GE	-9GEN	-9GH	-9GHN
	0.75	-9L	-9LN	-9LE	-9LEN	-9LH	-9LHN
	1	-9P	-9PN	-9PE	-9PEN	-9PH	-9PHN
M10	0.5	-10G	-10GN	-10GE	-10GEN	-10GH	-10GHN
	0.75	-10L	-10LN	-10LE	-10LEN	-10LH	-10LHN
	1	-10P	-10PN	-10PE	-10PEN	-10PH	-10PHN
	1.25	-10Q	-10QN	-10QE	-10QEN	-10QH	-10QHN
M11	0.5	-11G	-11GN	-11GE	-11GEN	-11GH	-11GHN
	0.75	-11L	-11LN	-11LE	-11LEN	-11LH	-11LHN
	1	-11P	-11PN	-11PE	-11PEN	-11PH	-11PHN
M12	0.5	-12G	-12GN	-12GE	-12GEN	-12GH	-12GHN
	0.75	-12L	-12LN	-12LE	-12LEN	-12LH	-12LHN
	1	-12P	-12PN	-12PE	-12PEN	-12PH	-12PHN
	1.25	-12Q	-12QN	-12QE	-12QEN	-12QH	-12QHN
	1.5	-12R	-12RN	-12RE	-12REN	-12RH	-12RHN
M13	0.5	-13G	-13GN	-13GE	-13GEN	-13GH	-13GHN
	0.75	-13L	-13LN	-13LE	-13LEN	-13LH	-13LHN
	1	-13P	-13PN	-13PE	-13PEN	-13PH	-13PHN
	1.5	-13R	-13RN	-13RE	-13REN	-13RH	-13RHN
M14	0.5	-14G	-14GN	-14GE	-14GEN	-14GH	-14GHN
	0.75	-14L	-14LN	-14LE	-14LEN	-14LH	-14LHN
	1	-14P	-14PN	-14PE	-14PEN	-14PH	-14PHN
	1.25	-14Q	-14QN	-14QE	-14QEN	-14QH	-14QHN
	1.5	-14R	-14RN	-14RE	-14REN	-14RH	-14RHN

To be continued

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Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M15	0.5	-15G	-15GN	-15GE	-15GEN	-15GH	-15GHN
	0.75	-15L	-15LN	-15LE	-15LEN	-15LH	-15LHN
	1	-15P	-15PN	-15PE	-15PEN	-15PH	-15PHN
	1.5	-15R	-15RN	-15RE	-15REN	-15RH	-15RHN
M16	0.5	-16G	-16GN	-16GE	-16GEN	-16GH	-16GHN
	0.75	-16L	-16LN	-16LE	-16LEN	-16LH	-16LHN
	1	-16P	-16PN	-16PE	-16PEN	-16PH	-16PHN
	1.25	-16Q	-16QN	-16QE	-16QEN	-16QH	-16QHN
	1.5	-16R	-16RN	-16RE	-16REN	-16RH	-16RHN
M17	0.5	-17G	-17GN	-17GE	-17GEN	-17GH	-17GHN
	0.75	-17L	-17LN	-17LE	-17LEN	-17LH	-17LHN
	1	-17P	-17PN	-17PE	-17PEN	-17PH	-17PHN
	1.5	-17R	-17RN	-17RE	-17REN	-17RH	-17RHN
M18	0.5	-18G	-18GN	-18GE	-18GEN	-18GH	-18GHN
	0.75	-18L	-18LN	-18LE	-18LEN	-18LH	-18LHN
	1	-18P	-18PN	-18PE	-18PEN	-18PH	-18PHN
	1.25	-18Q	-18QN	-18QE	-18QEN	-18QH	-18QHN
	1.5	-18R	-18RN	-18RE	-18REN	-18RH	-18RHN
	2	-18T	-18TN	-18TE	-18TEN	-18TH	-18THN
M19	0.5	-19G	-19GN	-19GE	-19GEN	-19GH	-19GHN
	0.75	-19L	-19LN	-19LE	-19LEN	-19LH	-19LHN
	1	-19P	-19PN	-19PE	-19PEN	-19PH	-19PHN
	1.5	-19R	-19RN	-19RE	-19REN	-19RH	-19RHN
M20	0.5	-20G	-20GN	-20GE	-20GEN	-20GH	-20GHN
	0.75	-20L	-20LN	-20LE	-20LEN	-20LH	-20LHN
	1	-20P	-20PN	-20PE	-20PEN	-20PH	-20PHN
	1.25	-20Q	-20QN	-20QE	-20QEN	-20QH	-20QHN
	1.5	-20R	-20RN	-20RE	-20REN	-20RH	-20RHN
	2	-20T	-20TN	-20TE	-20TEN	-20TH	-20THN
M21	0.75	-21L	-21LN	-21LE	-21LEN	-21LH	-21LHN
	1	-21P	-21PN	-21PE	-21PEN	-21PH	-21PHN
	1.5	-21R	-21RN	-21RE	-21REN	-21RH	-21RHN
M22	0.75	-22L	-22LN	-22LE	-22LEN	-22LH	-22LHN
	1	-22P	-22PN	-22PE	-22PEN	-22PH	-22PHN
	1.25	-22Q	-22QN	-22QE	-22QEN	-22QH	-22QHN
	1.5	-22R	-22RN	-22RE	-22REN	-22RH	-22RHN
	2	-22T	-22TN	-22TE	-22TEN	-22TH	-22THN
M23	0.75	-23L	-23LN	-23LE	-23LEN	-23LH	-23LHN
	1	-23P	-23PN	-23PE	-23PEN	-23PH	-23PHN
M24	0.75	-24L	-24LN	-24LE	-24LEN	-24LH	-24LHN
	1	-24P	-24PN	-24PE	-24PEN	-24PH	-24PHN
	1.25	-24Q	-24QN	-24QE	-24QEN	-24QH	-24QHN
	1.5	-24R	-24RN	-24RE	-24REN	-24RH	-24RHN
	2	-24T	-24TN	-24TE	-24TEN	-24TH	-24THN
M25	0.75	-25L	-25LN	-25LE	-25LEN	-25LH	-25LHN
	1	-25P	-25PN	-25PE	-25PEN	-25PH	-25PHN
	1.5	-25R	-25RN	-25RE	-25REN	-25RH	-25RHN
	2	-25T	-25TN	-25TE	-25TEN	-25TH	-25THN
M26	0.75	-26L	-26LN	-26LE	-26LEN	-26LH	-26LHN
	1	-26P	-26PN	-26PE	-26PEN	-26PH	-26PHN
	1.5	-26R	-26RN	-26RE	-26REN	-26RH	-26RHN
	2	-26T	-26TN	-26TE	-26TEN	-26TH	-26THN

To be continued

Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M27	0.75	-27L	-27LN	-27LE	-27LEN	-27LH	-27LHN
	1	-27P	-27PN	-27PE	-27PEN	-27PH	-27PHN
	1.5	-27R	-27RN	-27RE	-27REN	-27RH	-27RHN
	2	-27T	-27TN	-27TE	-27TEN	-27TH	-27THN
M28	0.75	-28L	-28LN	-28LE	-28LEN	-28LH	-28LHN
	1	-28P	-28PN	-28PE	-28PEN	-28PH	-28PHN
	1.5	-28R	-28RN	-28RE	-28REN	-28RH	-28RHN
	2	-28T	-28TN	-28TE	-28TEN	-28TH	-28THN
M29	0.75	-29L	-29LN	-29LE	-29LEN	-29LH	-29LHN
	1	-29P	-29PN	-29PE	-29PEN	-29PH	-29PHN
M30	0.75	-30L	-30LN	-30LE	-30LEN	-30LH	-30LHN
	1	-30P	-30PN	-30PE	-30PEN	-30PH	-30PHN
	1.5	-30R	-30RN	-30RE	-30REN	-30RH	-30RHN
	2	-30T	-30TN	-30TE	-30TEN	-30TH	-30THN
	3	-30V	-30VN	-30VE	-30VEN	-30VH	-30VHN
M31	0.75	-31L	-31LN	-31LE	-31LEN	-31LH	-31LHN
M32	0.75	-32L	-32LN	-32LE	-32LEN	-32LH	-32LHN
	1	-32P	-32PN	-32PE	-32PEN	-32PH	-32PHN
	1.5	-32R	-32RN	-32RE	-32REN	-32RH	-32RHN
	2	-32T	-32TN	-32TE	-32TEN	-32TH	-32THN
M33	0.75	-33L	-33LN	-33LE	-33LEN	-33LH	-33LHN
	1	-33P	-33PN	-33PE	-33PEN	-33PH	-33PHN
	1.5	-33R	-33RN	-33RE	-33REN	-33RH	-33RHN
	2	-33T	-33TN	-33TE	-33TEN	-33TH	-33THN
	3	-33V	-33VN	-33VE	-33VEN	-33VH	-33VHN
M34	1	-34P	-34PN	-34PE	-34PEN	-34PH	-34PHN
	1.5	-34R	-34RN	-34RE	-34REN	-34RH	-34RHN
	2	-34T	-34TN	-34TE	-34TEN	-34TH	-34THN
M35	1	-35P	-35PN	-35PE	-35PEN	-35PH	-35PHN
	1.5	-35R	-35RN	-35RE	-35REN	-35RH	-35RHN
	2	-35T	-35TN	-35TE	-35TEN	-35TH	-35THN
M36	1	-36P	-36PN	-36PE	-36PEN	-36PH	-36PHN
	1.5	-36R	-36RN	-36RE	-36REN	-36RH	-36RHN
	2	-36T	-36TN	-36TE	-36TEN	-36TH	-36THN
	3	-36V	-36VN	-36VE	-36VEN	-36VH	-36VHN
M38	1	-38P	-38PN	-38PE	-38PEN	-38PH	-38PHN
	1.5	-38R	-38RN	-38RE	-38REN	-38RH	-38RHN
	2	-38T	-38TN	-38TE	-38TEN	-38TH	-38THN
M39	1	-39P	-39PN	-39PE	-39PEN	-39PH	-39PHN
	1.5	-39R	-39RN	-39RE	-39REN	-39RH	-39RHN
	2	-39T	-39TN	-39TE	-39TEN	-39TH	-39THN
	3	-39V	-39VN	-39VE	-39VEN	-39VH	-39VHN
M40	1.5	-40R	-40RN	-40RE	-40REN	-40RH	-40RHN
	2	-40T	-40TN	-40TE	-40TEN	-40TH	-40THN
	3	-40V	-40VN	-40VE	-40VEN	-40VH	-40VHN
M42	1.5	-42R	-42RN	-42RE	-42REN	-42RH	-42RHN
	2	-42T	-42TN	-42TE	-42TEN	-42TH	-42THN
	3	-42V	-42VN	-42VE	-42VEN	-42VH	-42VHN
M45	1.5	-45R	-45RN	-45RE	-45REN	-45RH	-45RHN
	2	-45T	-45TN	-45TE	-45TEN	-45TH	-45THN
	3	-45V	-45VN	-45VE	-45VEN	-45VH	-45VHN

To be continued

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Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M48	1.5	-48R	-48RN	-48RE	-48REN	-48RH	-48RHN
	2	-48T	-48TN	-48TE	-48TEN	-48TH	-48THN
	3	-48V	-48VN	-48VE	-48VEN	-48VH	-48VHN
M50	1.5	-50R	-50RN	-50RE	-50REN	-50RH	-50RHN
	2	-50T	-50TN	-50TE	-50TEN	-50TH	-50THN
	3	-50V	-50VN	-50VE	-50VEN	-50VH	-50VHN
M52	1.5	-52R	-52RN	-52RE	-52REN	-52RH	-52RHN
	2	-52T	-52TN	-52TE	-52TEN	-52TH	-52THN
	3	-52V	-52VN	-52VE	-52VEN	-52VH	-52VHN
	4	-52X	-52XN	-52XE	-52XEN	-52XH	-52XHN
M55	1.5	-55R	-55RN	-55RE	-55REN	-55RH	-55RHN
	2	-55T	-55TN	-55TE	-55TEN	-55TH	-55THN
	3	-55V	-55VN	-55VE	-55VEN	-55VH	-55VHN
	4	-55X	-55XN	-55XE	-55XEN	-55XH	-55XHN
M56	1.5	-56R	-56RN	-56RE	-56REN	-56RH	-56RHN
	2	-56T	-56TN	-56TE	-56TEN	-56TH	-56THN
	3	-56V	-56VN	-56VE	-56VEN	-56VH	-56VHN
	4	-56X	-56XN	-56XE	-56XEN	-56XH	-56XHN
M58	1.5	-58R	-58RN	-58RE	-58REN	-58RH	-58RHN
	2	-58T	-58TN	-58TE	-58TEN	-58TH	-58THN
	3	-58V	-58VN	-58VE	-58VEN	-58VH	-58VHN
	4	-58X	-58XN	-58XE	-58XEN	-58XH	-58XHN
M60	1.5	-60R	-60RN	-60RE	-60REN	-60RH	-60RHN
	2	-60T	-60TN	-60TE	-60TEN	-60TH	-60THN
	3	-60V	-60VN	-60VE	-60VEN	-60VH	-60VHN
	4	-60X	-60XN	-60XE	-60XEN	-60XH	-60XHN
M62	1.5	-62R	-62RN	-62RE	-62REN	-62RH	-62RHN
	2	-62T	-62TN	-62TE	-62TEN	-62TH	-62THN
	3	-62V	-62VN	-62VE	-62VEN	-62VH	-62VHN
	4	-62X	-62XN	-62XE	-62XEN	-62XH	-62XHN
M64	1.5	-64R	-64RN	-64RE	-64REN	-64RH	-64RHN
	2	-64T	-64TN	-64TE	-64TEN	-64TH	-64THN
	3	-64V	-64VN	-64VE	-64VEN	-64VH	-64VHN
	4	-64X	-64XN	-64XE	-64XEN	-64XH	-64XHN
M65	1.5	-65R	-65RN	-65RE	-65REN	-65RH	-65RHN
	2	-65T	-65TN	-65TE	-65TEN	-65TH	-65THN
	3	-65V	-65VN	-65VE	-65VEN	-65VH	-65VHN
	4	-65X	-65XN	-65XE	-65XEN	-65XH	-65XHN
M68	1.5	-68R	-68RN	-68RE	-68REN	-68RH	-68RHN
	2	-68T	-68TN	-68TE	-68TEN	-68TH	-68THN
	3	-68V	-68VN	-68VE	-68VEN	-68VH	-68VHN
	4	-68X	-68XN	-68XE	-68XEN	-68XH	-68XHN
M70	1.5	-70R	-70RN	-70RE	-70REN	-70RH	-70RHN
	2	-70T	-70TN	-70TE	-70TEN	-70TH	-70THN
	3	-70V	-70VN	-70VE	-70VEN	-70VH	-70VHN
	4	-70X	-70XN	-70XE	-70XEN	-70XH	-70XHN
	6	-70O	-70ON	-70OE	-70OEN	-70OH	-70OHN
M72	1.5	-72R	-72RN	-72RE	-72REN	-72RH	-72RHN
	2	-72T	-72TN	-72TE	-72TEN	-72TH	-72THN
	3	-72V	-72VN	-72VE	-72VEN	-72VH	-72VHN

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Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M72	4	-72X	-72XN	-72XE	-72XEN	-72XH	-72XHN
	6	-72O	-72ON	-72OE	-72OEN	-72OH	-72OHN
M75	1.5	-75R	-75RN	-75RE	-75REN	-75RH	-75RHN
	2	-75T	-75TN	-75TE	-75TEN	-75TH	-75THN
	3	-75V	-75VN	-75VE	-75VEN	-75VH	-75VHN
	4	-75X	-75XN	-75XE	-75XEN	-75XH	-75XHN
M76	1.5	-76R	-76RN	-76RE	-76REN	-76RH	-76RHN
	2	-76T	-76TN	-76TE	-76TEN	-76TH	-76THN
	3	-76V	-76VN	-76VE	-76VEN	-76VH	-76VHN
	4	-76X	-76XN	-76XE	-76XEN	-76XH	-76XHN
	6	-76O	-76ON	-76OE	-76OEN	-76OH	-76OHN
M78	2	-78T	-78TN	-78TE	-78TEN	-78TH	-78THN
M80	1.5	-80R	-80RN	-80RE	-80REN	-80RH	-80RHN
	2	-80T	-80TN	-80TE	-80TEN	-80TH	-80THN
	3	-80V	-80VN	-80VE	-80VEN	-80VH	-80VHN
	4	-80X	-80XN	-80XE	-80XEN	-80XH	-80XHN
	6	-80O	-80ON	-80OE	-80OEN	-80OH	-80OHN
M82	2	-82T	-82TN	-82TE	-82TEN	-82TH	-82THN
M85	2	-85T	-85TN	-85TE	-85TEN	-85TH	-85THN
	3	-85V	-85VN	-85VE	-85VEN	-85VH	-85VHN
	4	-85X	-85XN	-85XE	-85XEN	-85XH	-85XHN
	6	-85O	-85ON	-85OE	-85OEN	-85OH	-85OHN
M90	2	-90T	-90TN	-90TE	-90TEN	-90TH	-90THN
	3	-90V	-90VN	-90VE	-90VEN	-90VH	-90VHN
	4	-90X	-90XN	-90XE	-90XEN	-90XH	-90XHN
	6	-90O	-90ON	-90OE	-90OEN	-90OH	-90OHN
M95	2	-95T	-95TN	-95TE	-95TEN	-95TH	-95THN
	3	-95V	-95VN	-95VE	-95VEN	-95VH	-95VHN
	4	-95X	-95XN	-95XE	-95XEN	-95XH	-95XHN
	6	-95O	-95ON	-95OE	-95OEN	-95OH	-95OHN
M100	2	-100T	-100TN	-100TE	-100TEN	-100TH	-100THN
	3	-100V	-100VN	-100VE	-100VEN	-100VH	-100VHN
	4	-100X	-100XN	-100XE	-100XEN	-100XH	-100XHN
	6	-100O	-100ON	-100OE	-100OEN	-100OH	-100OHN
M105	2	-105T	-105TN	-105TE	-105TEN	-105TH	-105THN
	3	-105V	-105VN	-105VE	-105VEN	-105VH	-105VHN
	4	-105X	-105XN	-105XE	-105XEN	-105XH	-105XHN
	6	-105O	-105ON	-105OE	-105OEN	-105OH	-105OHN
M110	2	-110T	-110TN	-110TE	-110TEN	-110TH	-110THN
	3	-110V	-110VN	-110VE	-110VEN	-110VH	-110VHN
	4	-110X	-110XN	-110XE	-110XEN	-110XH	-110XHN
	6	-110O	-110ON	-110OE	-110OEN	-110OH	-110OHN
M115	2	-115T	-115TN	-115TE	-115TEN	-115TH	-115THN
	3	-115V	-115VN	-115VE	-115VEN	-115VH	-115VHN
	4	-115X	-115XN	-115XE	-115XEN	-115XH	-115XHN
	6	-115O	-115ON	-115OE	-115OEN	-115OH	-115OHN
M120	2	-120T	-120TN	-120TE	-120TEN	-120TH	-120THN
	3	-120V	-120VN	-120VE	-120VEN	-120VH	-120VHN
	4	-120X	-120XN	-120XE	-120XEN	-120XH	-120XHN
	6	-120O	-120ON	-120OE	-120OEN	-120OH	-120OHN

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API PRODUCTION LICENSE

THREAD GAGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT



4177-23

- Measure the thread of rotary shouldered connections

Number style gages

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-10	NC10	V-0.055	6	1:8	60°	27.000mm
4177-12	NC12	V-0.055	6	1:8	60°	32.121mm
4177-13	NC13	V-0.055	6	1:8	60°	35.331mm
4177-16	NC16	V-0.055	6	1:8	60°	40.869mm
4177-23	NC23	V-0.038R	4	1:6	60°	59.817mm
4177-26	NC26	V-0.038R	4	1:6	60°	67.767mm
4177-31	NC31	V-0.038R	4	1:6	60°	80.848mm
4177-35	NC35	V-0.038R	4	1:6	60°	89.687mm
4177-38	NC38	V-0.038R	4	1:6	60°	96.723mm
4177-40	NC40	V-0.038R	4	1:6	60°	103.429mm
4177-44	NC44	V-0.038R	4	1:6	60°	112.192mm
4177-46	NC46	V-0.038R	4	1:6	60°	117.500mm
4177-50	NC50	V-0.038R	4	1:6	60°	128.059mm
4177-56	NC56	V-0.038R	4	1:4	60°	142.646mm
4177-61	NC61	V-0.038R	4	1:4	60°	156.921mm
4177-70	NC70	V-0.038R	4	1:4	60°	179.146mm
4177-77	NC77	V-0.038R	4	1:4	60°	196.621mm

Regular style gages

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-2R	2 3/8 REG	V-0.040	5	1:4	60°	60.080mm
4177-21R	2 7/8 REG	V-0.040	5	1:4	60°	69.605mm
4177-3R	3 1/2 REG	V-0.040	5	1:4	60°	82.293mm
4177-4R	4 1/2 REG	V-0.040	5	1:4	60°	110.868mm
4177-5R	5 1/2 REG	V-0.050	4	1:4	60°	132.944mm
4177-6R	6 5/8 REG	V-0.050	4	1:6	60°	146.248mm
4177-7R	7 5/8 REG	V-0.050	4	1:4	60°	170.549mm
4177-8R	8 5/8 REG	V-0.050	4	1:4	60°	194.731mm

Full-hole style gages

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-3H	3 1/2 FH	V-0.040	5	1:4	60°	94.844mm
4177-4H	4 1/2 FH	V-0.040	5	1:4	60°	115.113mm
4177-5H	5 1/2 FH	V-0.050	4	1:6	60°	142.011mm
4177-6H	6 5/8 FH	V-0.050	4	1:6	60°	165.598mm

Internal-flush style gage

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-5F	5 1/2 IF	V-0.065	4	1:6	60°	157.201mm

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CASING, TUBING AND LINE PIPE THREAD GAGES OF PETROLEUM AND GAS EQUIPMENT

API PRODUCTION LICENSE



4178-21T

- Measure the casing, tubing and line pipe threads

Casing round thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-4	4 1/2 CSG	114.30mm	8	1:16	60°
4178-4L	4 1/2 LCSG				
4178-5	5 CSG	127.00mm	8	1:16	60°
4178-5L	5 LCSG				
4178-51	5 1/2 CSG	139.70mm	8	1:16	60°
4178-51L	5 1/2 LCSG				
4178-6	6 5/8 CSG	168.28mm	8	1:16	60°
4178-6L	6 5/8 LCSG				
4178-7	7 CSG	177.80mm	8	1:16	60°
4178-7L	7 LCSG				
4178-71	7 5/8 CSG	193.68mm	8	1:16	60°
4178-71L	7 5/8 LCSG				
4178-8	8 5/8 CSG	219.08mm	8	1:16	60°
4178-8L	8 5/8 LCSG				
4178-9	9 5/8 CSG	244.48mm	8	1:16	60°
4178-9L	9 5/8 LCSG				
4178-10	10 3/4 CSG	273.05mm	8	1:16	60°
4178-10L	10 3/4 LCSG				
4178-11	11 3/4 CSG	298.45mm	8	1:16	60°
4178-11L	11 3/4 LCSG				
4178-13	13 3/8 CSG	339.73mm	8	1:16	60°
4178-13L	13 3/8 LCSG				
4178-16	16 CSG	406.40mm	8	1:16	60°
4178-16L	16 LCSG				

Non-upset tubing thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-11T	1.050 TBG	26.67mm	10	1:16	60°
4178-13T	1.315 TBG	33.40mm	10	1:16	60°
4178-16T	1.660 TBG	42.16mm	10	1:16	60°
4178-19T	1.900 TBG	48.26mm	10	1:16	60°
4178-2T	2 3/8 TBG	60.33mm	10	1:16	60°
4178-21T	2 7/8 TBG	73.03mm	10	1:16	60°
4178-3T	3 1/2 TBG	88.90mm	10	1:16	60°
4178-4T	4 TBG	101.60mm	8	1:16	60°
4178-41T	4 1/2 TBG	114.30mm	8	1:16	60°

To be continued

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Continued from previous page

External-upset tubing thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-11U	1.050 UP TBG	26.67mm	10	1:16	60°
4178-13U	1.315 UP TBG	33.40mm	10	1:16	60°
4178-16U	1.660 UP TBG	42.16mm	10	1:16	60°
4178-19U	1.900 UP TBG	48.26mm	10	1:16	60°
4178-2U	2 3/8 UP TBG	60.33mm	8	1:16	60°
4178-21U	2 7/8 UP TBG	73.03mm	8	1:16	60°
4178-3U	3 1/2 UP TBG	88.90mm	8	1:16	60°
4178-4U	4 UP TBG	101.60mm	8	1:16	60°
4178-41U	4 1/2 UP TBG	114.30mm	8	1:16	60°

Buttress casing thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-4B	4 1/2 BCSG	114.30mm	5	1:16	3°, 10°
4178-5B	5 BCSG	127.00mm	5	1:16	3°, 10°
4178-51B	5 1/2 BCSG	139.70mm	5	1:16	3°, 10°
4178-6B	6 5/8 BCSG	168.28mm	5	1:16	3°, 10°
4178-7B	7 BCSG	177.80mm	5	1:16	3°, 10°
4178-71B	7 5/8 BCSG	193.68mm	5	1:16	3°, 10°
4178-8B	8 5/8 BCSG	219.08mm	5	1:16	3°, 10°
4178-9B	9 5/8 BCSG	244.48mm	5	1:16	3°, 10°
4178-10B	10 3/4 BCSG	273.05mm	5	1:16	3°, 10°
4178-11B	11 3/4 BCSG	298.45mm	5	1:16	3°, 10°
4178-13B	13 3/8 BCSG	339.73mm	5	1:16	3°, 10°
4178-16B	16 BCSG	406.40mm	5	1:12	3°, 10°

Line pipe thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-01P	1/8 LP	3.18mm	27	1:16	60°
4178-02P	1/4 LP	6.35mm	18	1:16	60°
4178-03P	3/8 LP	9.53mm	18	1:16	60°
4178-05P	1/2 LP	12.70mm	14	1:16	60°
4178-07P	3/4 LP	19.05mm	14	1:16	60°
4178-10P	1 LP	25.40mm	11 1/2	1:16	60°
4178-12P	1 1/4 LP	31.75mm	11 1/2	1:16	60°
4178-15P	1 1/2 LP	38.10mm	11 1/2	1:16	60°
4178-20P	2 LP	50.80mm	11 1/2	1:16	60°
4178-25P	2 1/2 LP	63.50mm	8	1:16	60°
4178-30P	3 LP	76.20mm	8	1:16	60°
4178-35P	3 1/2 LP	88.90mm	8	1:16	60°
4178-40P	4 LP	101.60mm	8	1:16	60°
4178-50P	5 LP	127.00mm	8	1:16	60°
4178-60P	6 LP	152.40mm	8	1:16	60°
4178-80P	8 LP	203.20mm	8	1:16	60°
4178-100P	10 LP	254.00mm	8	1:16	60°

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14 ANGLE, STRAIGHTNESS, FLATNESS MEASURMENT



Angle Meters
Page 335-336



Digital Levels And Slope Meters
Page 336



Protractors
Page 337-340



Granite Squares
Page 340-341



Cylinder Squares
Page 341



Perpendicularity Testers
Page 342



Squares
Page 342-348



Straight Edges
Page 348



Straight Edges
Page 349-350



Optical Flats
Page 350



Straightness/Flatness Gages
Page 351

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INSPECTION CERTIFICATE

DIGITAL ANGLE METER
CODE 2177-121

VIDEO



- Clockwise and counter-clockwise operation
- 9 target angle values can be set, with audible and visible alarm:
  – Green LED light on and buzzer sounds when angle value is 80%~99.5% of target angle
  – Both green and red LED light on and buzzer sounds when angle value is over 99.5% of target angle
- Memory of 250 results, can upload to the computer
- Back with magnet
- Power off in 2 minutes automatically

SPECIFICATION

Display range	0~999°
Setting range	1~360° (increment 1°)
Resolution	0.1°
Accuracy	±2° for 90° rotation @30°/sec
Power supply	2×1.5V AAA batteries
Dimension	58×58×41mm
Weight	70g

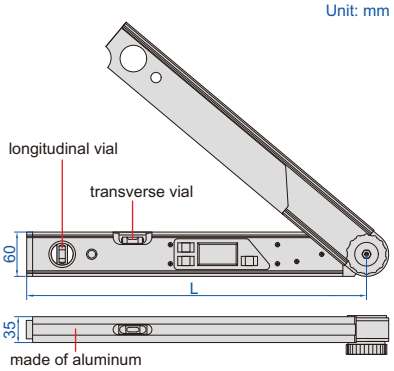


14

AUTOMATIC BACKLIGHT | ABSOLUTE LEVEL | IP54 WATERPROOF

WATERPROOF DIGITAL PROTRACTOR (HEAVY DUTY)

Unit: mm

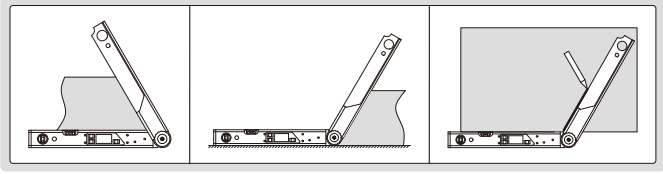




2174-225

- Suitable for setting horizontal and vertical mitre angles of cutting machines
- Buttons: ON/OFF, HOLD/SUP, SPR/CNR/MTR/BVL
- IP54 dust/waterproof
- With transverse and longitudinal vials
- 2xAAA batteries
- Absolute level, zero setting is not needed when batteries are replaced
- Backlight turns off in one minute after reading is stable, automatic power off in 5 minutes

Code	Size (L)	Range	Resolution	Accuracy
2174-225	460mm	0-225°	0.05°	±0.10°



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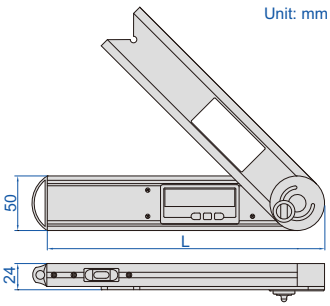
DIGITAL PROTRACTOR

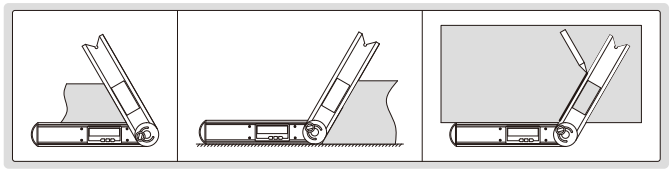
- Buttons: on/off, hold (keep the reading), zero, ABS (absolute and incremental measurement)
- Fix the locking screw at 4 positions for different measuring ranges: 0°~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Battery CR2032, automatic power off

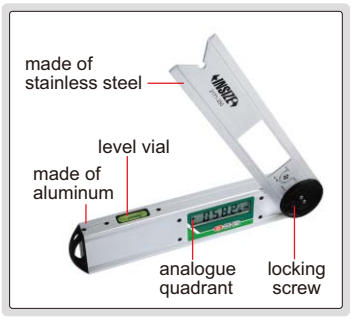


2171-250

Unit: mm







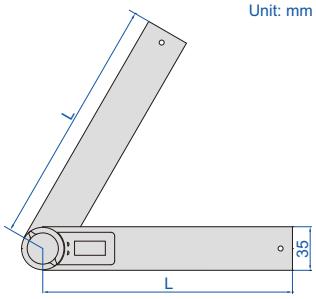
Code	Size (L)	Range	Resolution	Accuracy
2171-250	250mm	0-360°	0.05°	±0.15°

DIGITAL PROTRACTORS

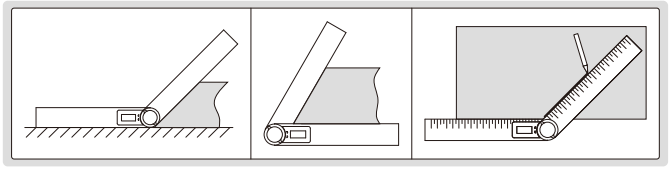


2176-200

Unit: mm



- Buttons: on/off, zero
- With clamping screw to lock the blades
- Graduation of blade: 1mm and 1/32"
- Made of stainless steel
- CR2032 battery
- Automatic power off



Code	Size (L)	Range	Resolution	Accuracy
2176-200	200mm	0-360°	0.1°	±0.3°
2176-300	300mm	0-360°	0.1°	±0.3°

DIGITAL LEVELS AND SLOPE METERS

REFER TO PAGE 443~445 FOR DETAILS



2179-360



2175-360



2170-1

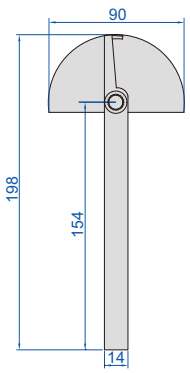
PROTRACTOR (ECONOMIC TYPE)

- Graduation: 1°
- Made of stainless steel
- With clamping screw



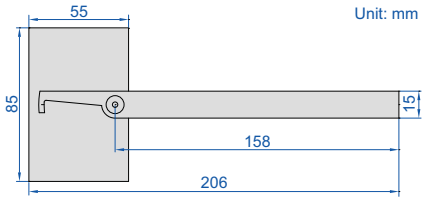
4780-85A

Unit: mm



Code	Size	Range	Accuracy
4780-85A	90x154mm	0-180°	±0.5°

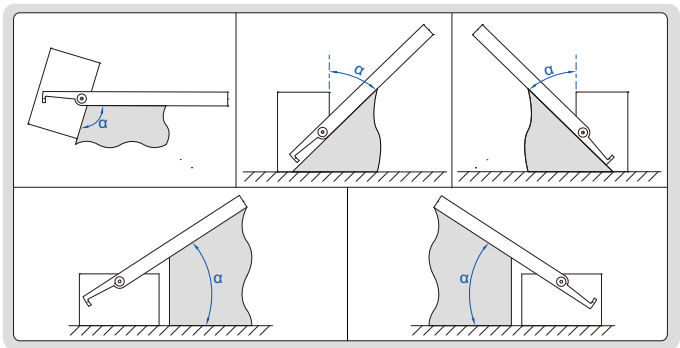
PROTRACTOR



Unit: mm



4781-85A



- Made of stainless steel
- Satin chrome plated scale
- With clamping screw

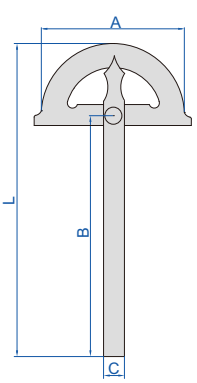
Code	Size	Range	Graduation	Accuracy
4781-85A	85x158mm	0-180°	1°	±0.3°

PROTRACTORS

- Graduation: 1°
- Made of stainless steel
  (**4799-1300** is made of carbon steel)
- Satin chrome plated scale
- With clamping screw



4799-180



Code	Size (AxB)	Range	Accuracy	L	C
4799-180	80x120mm	0-180°	±0.3°	168mm	11mm
4799-1120	120x150mm	0-180°	±0.3°	220mm	14mm
4799-1150	150x200mm	0-180°	±0.3°	285mm	16mm
4799-1200	200x300mm	0-180°	±0.3°	413mm	20mm
4799-1300	300x500mm	0-180°	±0.3°	675mm	30mm

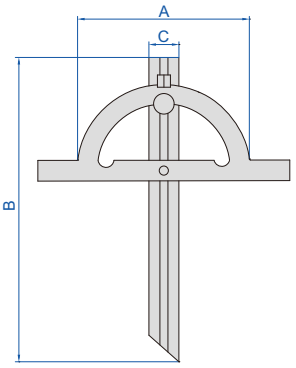
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PROTRACTORS

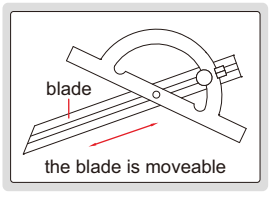
- Graduation: 1°
- Made of carbon steel
- Satin chrome plated
- With clamping screw
- The blade is moveable



4797-100



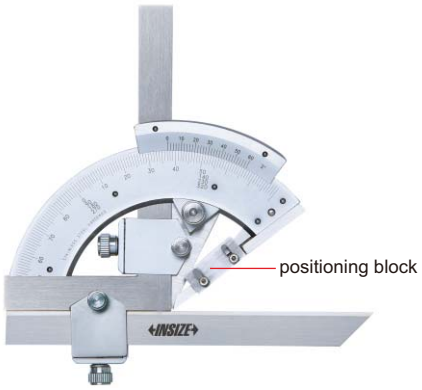
Code	Size (AxB)	Range	Accuracy	C
4797-100	100x150mm	10-170°	±0.3°	18mm
4797-150	150x300mm	10-170°	±0.3°	22mm
4797-200	200x400mm	10-170°	±0.3°	24mm
4797-250	250x500mm	10-170°	±0.3°	28mm
4797-300	300x600mm	10-170°	±0.3°	32mm



PROTRACTORS

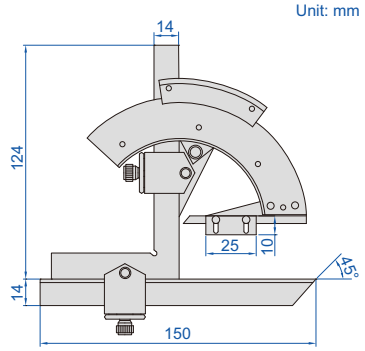


2374-320

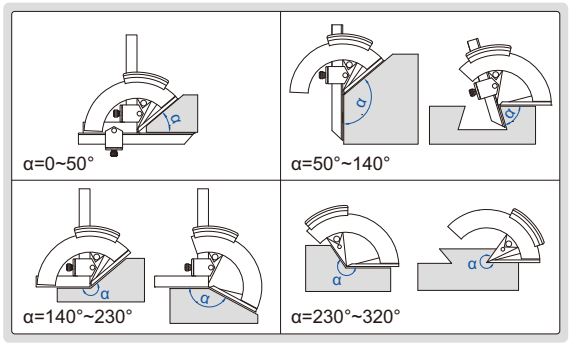


2374-320D

Unit: mm



- Made of stainless steel
- Satin chrome plated scale



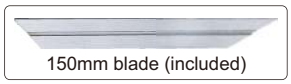
application of **2374-320D**

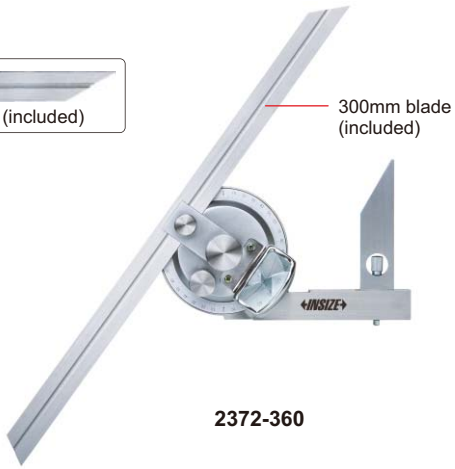


the positioning block can be moved down for positioning, and moved up when not in use

Code	Range	Graduation	Accuracy	Remark
2374-320	0-320°	2'	±2'	without positioning block
2374-320D	0-320°	2'	±2'	with positioning block

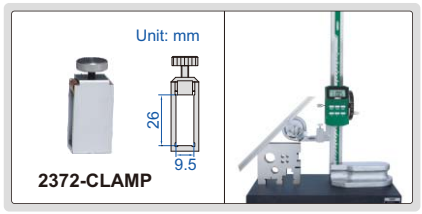
UNIVERSAL PROTRACTOR

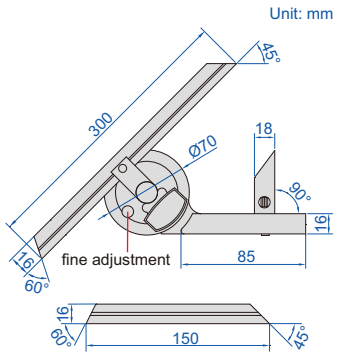




2372-360

clamp for height gages (**optional**)

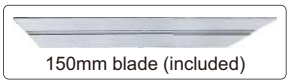


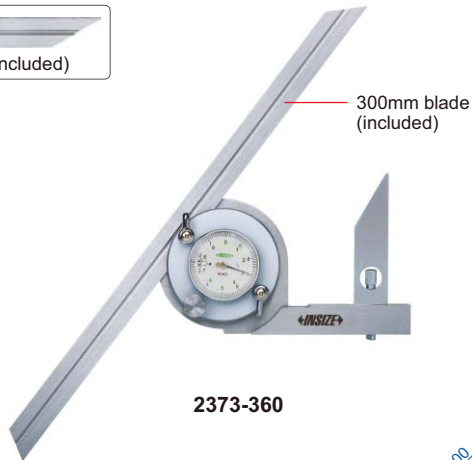


- Parallax-free reading
- Made of stainless steel
- Optional accessory: clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1150-300**, **1351**, **1250** and **1151**

Code	Range	Graduation	Accuracy
2372-360	0-360°	5'	±5'

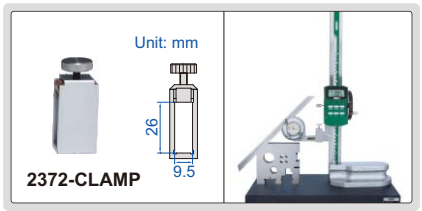
DIAL PROTRACTOR

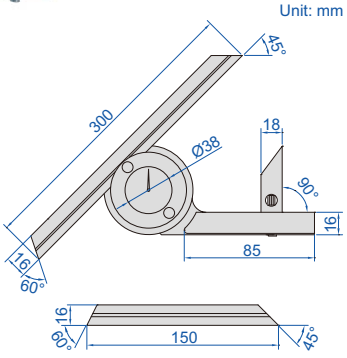




2373-360

clamp for height gages (**optional**)





- Made of stainless steel
- Optional accessory: clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1150-300**, **1351**, **1250** and **1151**

Code	Range	Graduation	Accuracy
2373-360	0-360°	5'	±5'

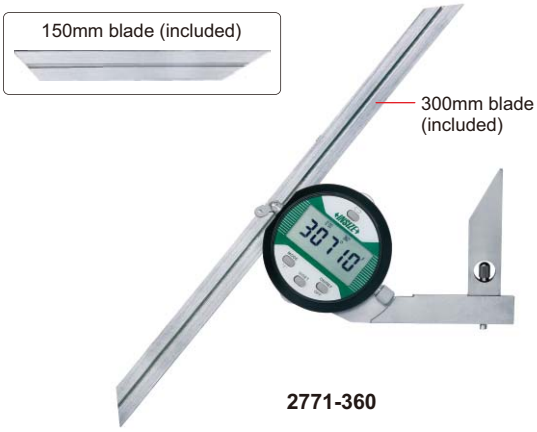
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DIGITAL PROTRACTOR

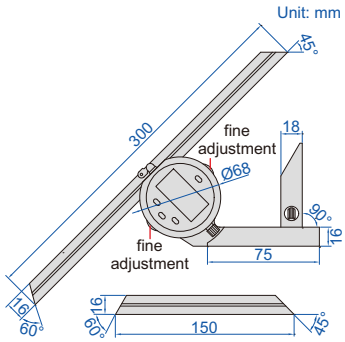
DATA OUTPUT

ABSOLUTE ZERO

POPULAR MODEL

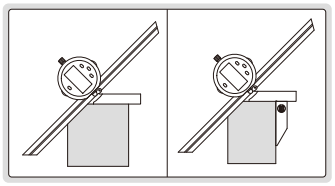


2771-360



14

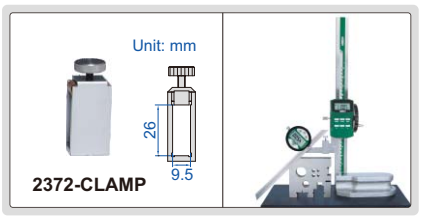
- Absolute zero, zero setting is not needed when batteries are replaced
- Button function: choose 0-90°, 0-180° or 0-360° display, change resolution, display flips over, data hold, zero, on/off supplementary angle measurement
- Battery CR2032, automatic power off, data output
- Made of stainless steel
- Optional square for zero setting
- Optional accessory: clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1150-300**, **1351**, **1250** and **1151**, data output cable (code **7315-2771** page 6, **7302-50M** page 13)



square (**optional**)



clamp for height gages (**optional**)



Code	Range	Resolution	Accuracy
2771-360	0-360°	1'/0.01°	±5'

Square (for zero setting, optional)

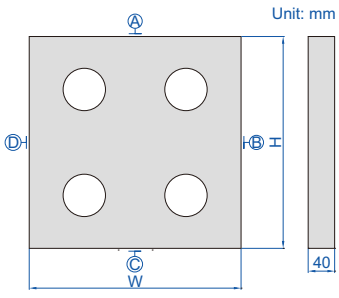
Code
2771-S90

GRANITE SQUARE

CUSTOM-MADE
SUPPLY SPECIAL SIZES ACCORDING TO CUSTOMER'S REQUEST



4144-315

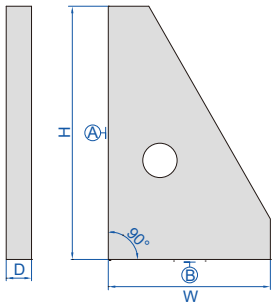


Code	Size (HxW)	Flatness of A, B, C and D	Squareness and parallelism between A, B, C and D
4144-315	315x315mm	1.1μm	2.6μm

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CUSTOM-MADE
SUPPLY SPECIAL SIZES ACCORDING TO CUSTOMER'S REQUEST

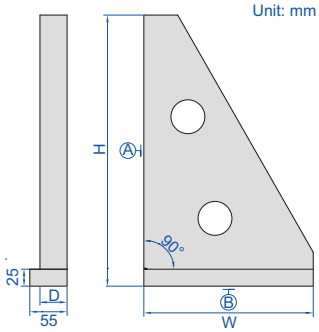
GRANITE SQUARES



type A



4141-250



type B



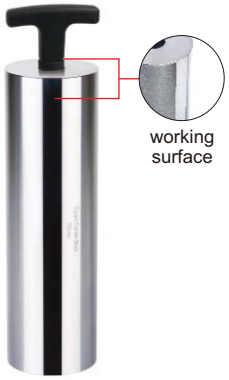
4141-400B

Code	Size (HxW)	Type	Flatness of A	Flatness of B	Squareness of A to B	D
4141-250	250x160mm	A	1μm	1μm	2μm	25mm
4141-400	400x250mm	A	1.5μm	1μm	3μm	40mm
4141-630	630x400mm	A	2μm	1.5μm	4μm	63mm
4141-400B	400x250mm	B	1.5μm	1μm	3μm	40mm

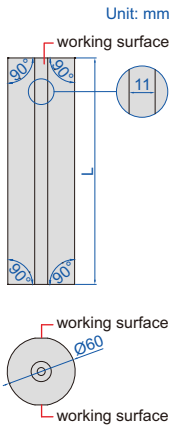
14

CYLINDER SQUARES

INSPECTION CERTIFICATE



4710-200

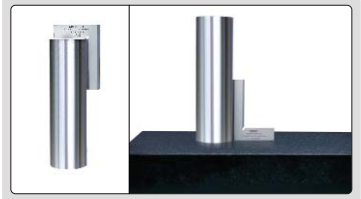


- Made of special alloy steel, hardness HRC58~60
- The handle can be removed

Code	Length (L)	Squareness
4710-200*	200mm	1μm
4710-300*	300mm	2μm

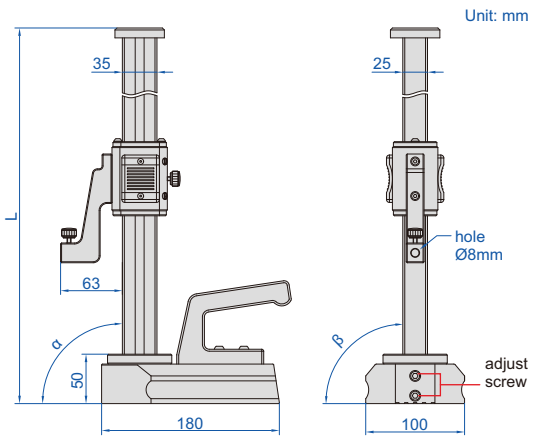
*Supplied with manufacturer inspection certificate

inspect 90° internal and external angles



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PERPENDICULARITY TESTERS





4770-300



14

- Optional accessory:
  dial test indicators
  (graduation: 1µm or 2µm)

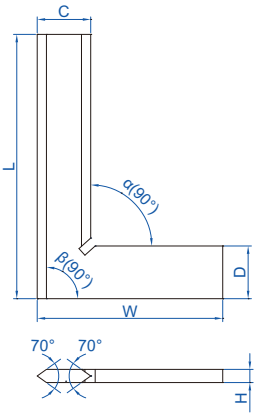
Code	Range (H)	Perpendicularity (α)	Side perpendicularity (β)	L
4770-300	0-300mm	3µm	10µm	460mm
4770-600	0-600mm	5µm	20µm	760mm

90° BEVELED EDGE SQUARES

- Satin chrome plating
- Beveled edges for inside and outside measurements
- Made of hardened stainless steel



4790-0100



DIN875 grade 00 (mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4790-050	50x40mm	2.4µm	2.5µm	13	13	4
4790-075	75x50mm	2.6µm	2.8µm	15	15	4
4790-0100	100x70mm	2.8µm	3.0µm	20	20	5
4790-0150	150x100mm	3.2µm	3.5µm	30	30	6
4790-0200	200x130mm	3.7µm	4.0µm	34	34	7
4790-0250	250x165mm	4.2µm	4.5µm	35	35	7
4790-0300	300x200mm	4.6µm	5.0µm	40	40	8

DIN875 grade 0 (mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4790-500	50x40mm	6µm	6µm	13	13	4
4790-750	75x50mm	6µm	7µm	15	15	4
4790-1000	100x70mm	7µm	7µm	20	20	5
4790-1500	150x100mm	7µm	8µm	30	30	6
4790-2000	200x130mm	8µm	9µm	34	34	7
4790-2500	250x165mm	9µm	10µm	35	35	7
4790-3000	300x200mm	10µm	11µm	40	40	8

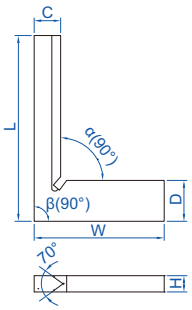
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90° TOOL MAKER SQUARES

- DIN875 grade 00
- Beveled edge for inside measurement
- Made of hardened stainless steel



4794-040



(mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4794-025	25x20mm	2.2µm	2.3µm	4	6.5	3.5
4794-040	40x28mm	2.3µm	2.4µm	5.5	8.5	3.5

90° FLAT EDGE SQUARES

- Made of hardened stainless steel

14

DIN875 grade 0 (mm)

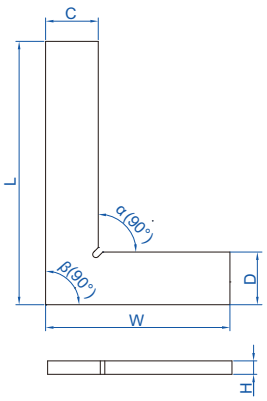
Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4791-50	50x40mm	6µm	6µm	15	15	4
4791-75	75x50mm	6µm	7µm	15	15	4
4791-100	100x70mm	7µm	7µm	20	20	5
4791-150	150x100mm	7µm	8µm	30	30	6
4791-200	200x130mm	8µm	9µm	30	30	7
4791-250	250x165mm	9µm	10µm	35	35	7
4791-300	300x200mm	10µm	11µm	40	40	8



4791-100

DIN875 grade 1 (mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4791-501	50x40mm	12µm	13µm	15	15	4
4791-751	75x50mm	13µm	14µm	15	15	4
4791-1001	100x70mm	14µm	15µm	20	20	5
4791-1501	150x100mm	16µm	18µm	30	30	6
4791-2001	200x130mm	19µm	20µm	30	30	7
4791-2501	250x165mm	21µm	23µm	35	35	7
4791-3001	300x200mm	23µm	25µm	40	40	8



DIN875 grade 2 (mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4791-502	50x40mm	24µm	25µm	15	15	4
4791-752	75x50mm	26µm	28µm	15	15	4
4791-1002	100x70mm	28µm	30µm	20	20	5
4791-1502	150x100mm	33µm	35µm	30	30	6
4791-2002	200x130mm	38µm	40µm	30	30	7
4791-2502	250x165mm	43µm	45µm	35	35	7
4791-3002	300x200mm	47µm	50µm	40	40	8

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MACHINIST SQUARES (ECONOMIC TYPE)

ATTENTION: NO ANTI-RUST TREATMENT, NOT HARDEND

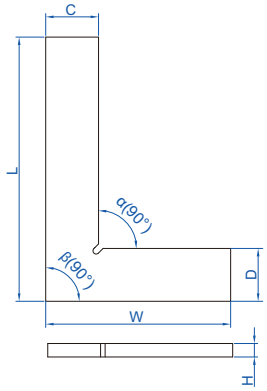
ATTENTION: LOW ACCURACY

- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardend

(mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4796-50	50×30mm	24μm	25μm	12	12	3
4796-75	75×50mm	26μm	28μm	16	16	3
4796-100	100×70mm	28μm	30μm	19	19	5
4796-125	125×80mm	30μm	33μm	22	22	5
4796-150	150×100mm	33μm	35μm	25	25	6
4796-200	200×130mm	38μm	40μm	25	25	6
4796-250	250×165mm	43μm	45μm	25	25	6
4796-300	300×200mm	47μm	50μm	30	30	6
4796-350	350×200mm	51μm	55μm	38	38	6
4796-400	400×200mm	56μm	60μm	38	38	9
4796-450	450×250mm	58μm	65μm	38	38	9
4796-500	500×300mm	69μm	70μm	38	38	9





4796-150

14

90° FLAT EDGE SQUARES WITH WIDE BASE

- Made of hardened stainless steel

DIN875 grade 0

(mm)

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4793-50	50x40mm	6μm	6μm	15	15	4	13
4793-75	75x50mm	6μm	7μm	15	15	4	15
4793-100	100x70mm	7μm	7μm	20	20	5	20
4793-150	150x100mm	7μm	8μm	30	30	6	30
4793-200	200x130mm	8μm	9μm	30	30	7	30
4793-250	250x165mm	9μm	10μm	35	35	7	35
4793-300	300x200mm	10μm	11μm	40	40	8	40



4793-100

DIN875 grade 1

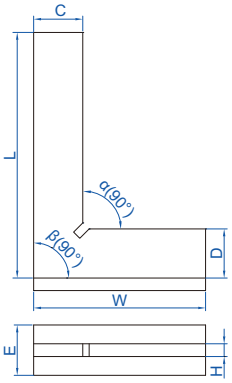
(mm)

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4793-501	50x40mm	12μm	13μm	15	15	4	13
4793-751	75x50mm	13μm	14μm	15	15	4	15
4793-1001	100x70mm	14μm	15μm	20	20	5	20
4793-1501	150x100mm	16μm	18μm	30	30	6	30
4793-2001	200x130mm	19μm	20μm	30	30	7	30
4793-2501	250x165mm	21μm	23μm	35	35	7	35
4793-3001	300x200mm	23μm	25μm	40	40	8	40

DIN875 grade 2

(mm)

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4793-502	50x40mm	24μm	25μm	15	15	4	13
4793-752	75x50mm	26μm	28μm	15	15	4	15
4793-1002	100x70mm	28μm	30μm	20	20	5	20
4793-1502	150x100mm	33μm	35μm	30	30	6	30
4793-2002	200x130mm	38μm	40μm	30	30	7	30
4793-2502	250x165mm	43μm	45μm	35	35	7	35
4793-3002	300x200mm	47μm	50μm	40	40	8	40



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90° FLAT EDGE SQUARES WITH WIDE BASE

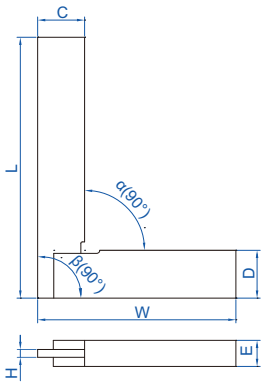
- DIN875 grade 0
- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4792-50	50x40mm	6µm	6µm	12	12	3	10
4792-75	75x50mm	6µm	7µm	14	14	3	10
4792-100	100x70mm	7µm	7µm	18	18	3	10
4792-150	150x100mm	8µm	8µm	22	22	4	12
4792-200	200x130mm	9µm	9µm	25	25	4	12



4792-100



ATTENTION: NO ANTI-RUST TREATMENT, NOT HARDEND

MACHINIST SQUARES WITH WIDE BASE (ECONOMIC TYPE)

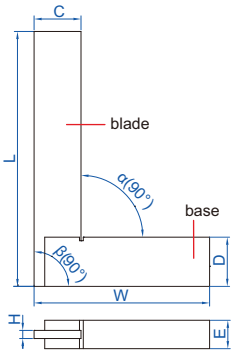
- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardend

(mm)

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4707-50	50x40mm	24µm	25µm	16	12	3	9
4707-75	75x50mm	26µm	28µm	16	16	3	9
4707-100	100x70mm	28µm	30µm	19	19	3	12
4707-150	150x100mm	33µm	35µm	25	25	3	16
4707-200	200x130mm	37µm	40µm	30	32	4	16
4707-250	250x165mm	42µm	45µm	30	32	4	19
4707-300	300x200mm	47µm	50µm	32	32	4	19
4707-400	400x250mm	56µm	60µm	38	38	5	22
4707-500	500x300mm	65µm	70µm	45	50	6	25
4707-600	600x350mm	75µm	80µm	50	50	6	30
4707-750	750x400mm	90µm	95µm	55	55	6	50
4707-900	900x500mm	103µm	110µm	65	75	9	50
4707-1000	1000x550mm	113µm	120µm	65	75	9	50



4707-100



90° BEVELED EDGE SQUARES WITH WIDE BASE

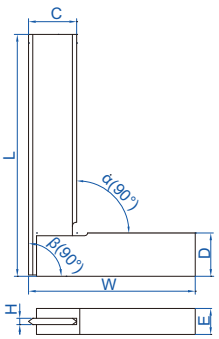
- DIN875 grade 0
- Beveled edges for inside and outside measurements
- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4795-50	50x40mm	6µm	6µm	12	12	3	10
4795-75	75x50mm	6µm	7µm	14	14	3	10
4795-100	100x70mm	7µm	7µm	18	18	3	10
4795-150	150x100mm	8µm	8µm	22	22	4	12
4795-200	200x130mm	9µm	9µm	25	25	4	12



4795-100

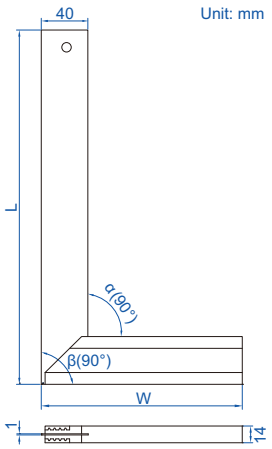


TRY SQUARE

- Graduation: 1mm
- Stainless steel blade, aluminum base



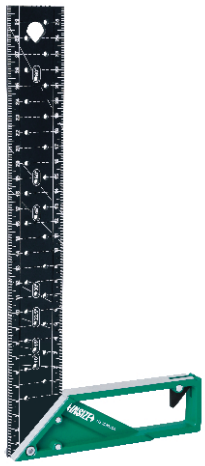
2275-300



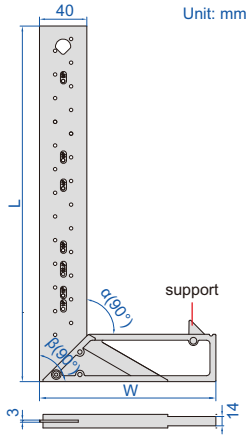
Code	Size (LxW)	Squareness	
		Inside (α)	Outside (β)
2275-300	300x170mm	0.5mm	0.5mm

TRY SQUARE

- Graduation: 1mm
- Aluminum blade and base
- 4 milled surfaces
- Retractable metal ledge support
- Etchings and holes for beveling and framing: 10°, 15°, 22.5°, 30°, 45°, 50° and 60°
- Etchings and holes every cm for fluid pencil marking



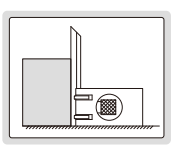
2280-300

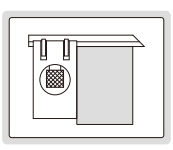


Code	Size (LxW)	Squareness	
		Inside (α)	Outside (β)
2280-300	300x150mm	0.5mm	0.5mm

ADJUSTABLE SQUARE

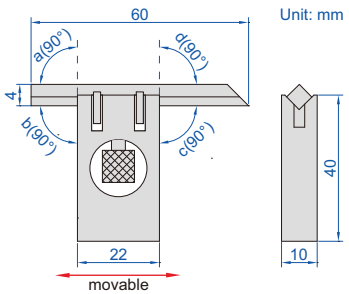
- The straight edge can move and can be locked by the clamping screw
- Made of hardened stainless steel







4701-1



Code	Squareness (a, b, c, d)
4701-1	7µm

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45° SQUARES

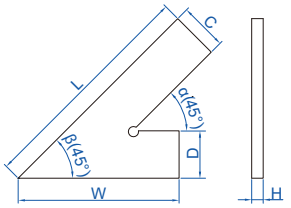
- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
4745-1120	120x80mm	29µm	32µm	20	20	5
4745-1150	150x100mm	32µm	35µm	20	20	5
4745-1200	200x130mm	36µm	40µm	25	25	5



4745-1120



45° SQUARES WITH WIDE BASE

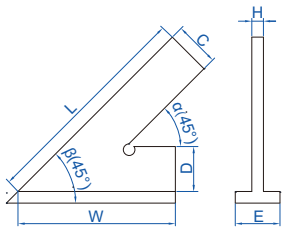
- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
4747-120	120x80mm	29µm	33µm	20	20	5	20
4747-150	150x100mm	32µm	36µm	20	20	5	20
4747-200	200x130mm	36µm	41µm	25	25	5	25



4747-120



60° SQUARES

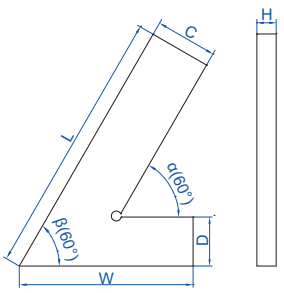
- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
4760-1120	120x80mm	30µm	32µm	20	20	5
4760-1150	150x100mm	32µm	35µm	20	20	5
4760-1200	200x130mm	37µm	40µm	25	25	5



4760-1120



60° SQUARES WITH WIDE BASE

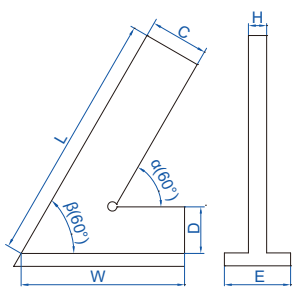
- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
4762-120	120x80mm	30µm	33µm	20	20	5	20
4762-150	150x100mm	33µm	36µm	20	20	5	20
4762-200	200x130mm	37µm	41µm	25	25	5	25



4762-120

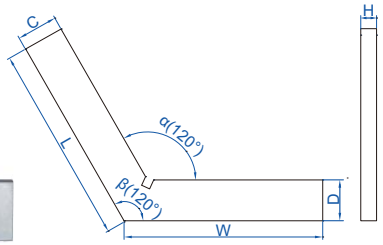


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120° SQUARES

- Made of hardened stainless steel





4706-1100

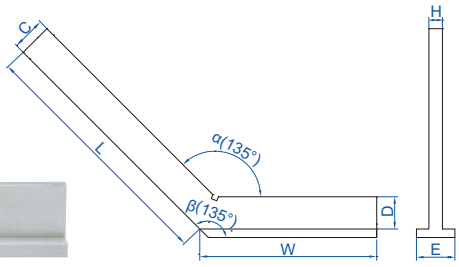
(mm)

Code	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
4706-150	50x50mm	24µm	25µm	15	15	5
4706-175	75x75mm	26µm	28µm	20	20	5
4706-1100	100x100mm	29µm	30µm	20	20	5
4706-1150	150x150mm	34µm	35µm	25	25	5
4706-1200	200x200mm	38µm	40µm	30	30	7

135° SQUARES WITH WIDE BASE

- Made of hardened stainless steel





4754-3120

(mm)

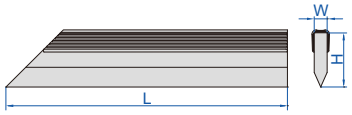
Code	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
4754-3120	120x80mm	31µm	33µm	20	20	5	20
4754-3150	150x100mm	34µm	36µm	20	20	5	20
4754-3200	200x130mm	39µm	41µm	30	30	7	30

STRAIGHT EDGES



4700-100

- DIN874
- Beveled edge
- Made of hardened stainless steel
- Satin chrome plating



Code	Size (L)	Straightness	W	H
4700-50	50mm	2.2µm	5mm	20mm
4700-75	75mm	2.3µm	5mm	25mm
4700-100	100mm	2.4µm	5mm	25mm
4700-125	125mm	2.5µm	6mm	30mm
4700-150	150mm	2.6µm	6mm	30mm
4700-200	200mm	2.8µm	6mm	30mm
4700-250	250mm	3.0µm	8mm	40mm
4700-300	300mm	3.2µm	8mm	40mm
4700-400	400mm	3.6µm	10mm	50mm
4700-500	500mm	4.0µm	10mm	50mm

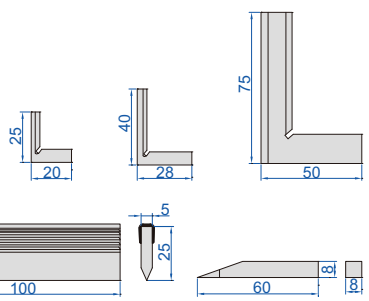
SQUARE SET

- Includes:
  - 90° tool maker square 25x20mm DIN875 grade 00 (code **4794-025**)
  - 90° tool maker square 40x28mm DIN875 grade 00 (code **4794-040**)
  - 90° beveled edge square 75x50mm DIN875 grade 00 (code **4790-075**)
  - straight edge 100mm DIN874 (code **4700-100**)
  - scriber
- Made of hardened stainless steel



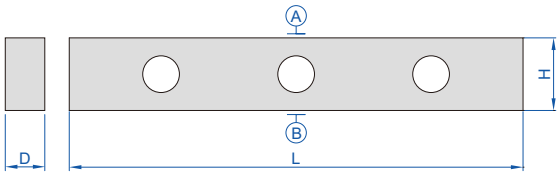
4702-1

Unit: mm



Code
4702-1

GRANITE STRAIGHT EDGES





4147-500A

Code	Length (L)	Flatness of A and B	Parallelism between A and B	D	H
4147-500A	500mm	2.1μm	3.2μm	50mm	80mm
4147-1000A	1000mm	3.0μm	4.5μm	60mm	120mm

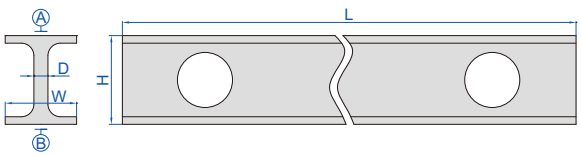
MAGNALIUM STRAIGHT EDGES

LIGHT WEIGHT

- Made of magnalium, light weight, non-deform, no rusty



4180-1500

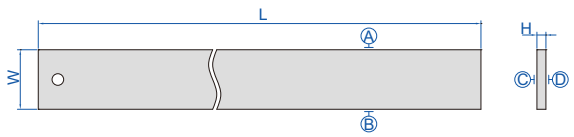


Code	Length (L)	Flatness of A and B	Parallelism between A and B	H	W	D	Weight
4180-500	500mm	3μm	4μm	60mm	30mm	5mm	1kg
4180-1000	1000mm	5μm	8μm	60mm	30mm	5mm	1.5kg
4180-1500	1500mm	15μm	22μm	100mm	40mm	7mm	4.5kg
4180-2000	2000mm	18μm	27μm	100mm	40mm	7mm	6kg
4180-2500	2500mm	22μm	33μm	100mm	40mm	7mm	7.5kg
4180-3000	3000mm	48μm	72μm	150mm	80mm	8mm	21kg

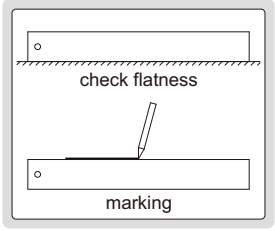
PRECISION STRAIGHT EDGES



7117-300



- Check flatness and for marking
- Made of tool steel



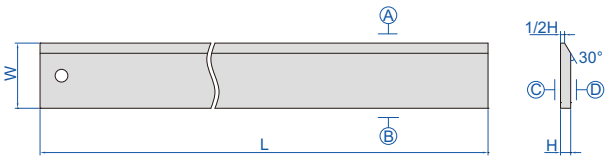
Code	Range (L)	Flatness of A and B	Flatness of C and D	W	H
7117-300	305mm	0.005mm	0.05mm	41mm	6.3mm
7117-600	610mm	0.006mm	0.06mm	51mm	7.9mm
7117-900	914mm	0.007mm	0.06mm	64mm	9.5mm

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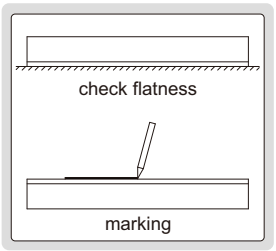
PRECISION STRAIGHT EDGES WITH BEVELED EDGE



7118-300



- Check flatness and for marking
- Made of tool steel

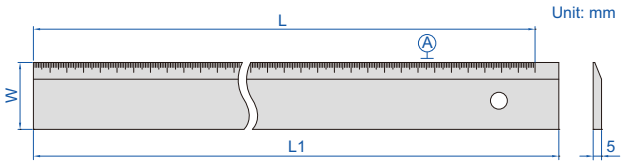


Code	Range (L)	Flatness of A and B	Flatness of C and D	W	H
7118-300	305mm	0.005mm	0.05mm	41mm	6.3mm
7118-600	610mm	0.006mm	0.06mm	51mm	7.9mm
7118-900	914mm	0.007mm	0.06mm	64mm	9.5mm

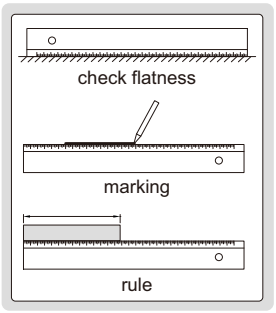
STRAIGHT EDGES



7111-300A



- Check flatness and straightness, as well as for marking
- Graduation on the beveled edge
- Made of hardened tool steel
- Chrome plated
- Graduation: 1mm



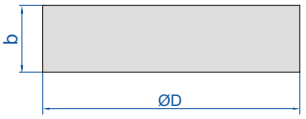
Code	Range (L)	Straightness of A	L1	W
7111-300A	300mm	0.02mm	310mm	40mm
7111-500A	500mm	0.03mm	510mm	40mm
7111-1000A	1000mm	0.04mm	1010mm	50mm

OPTICAL FLATS

- Check flatness
- Single working face, the arrow indicates the working face



4191-45B



Code	b	ØD	Flatness
4191-45A	12mm	45mm	0.03µm
4191-60A	15mm	60mm	0.03µm

Code	b	ØD	Flatness
4191-45B	12mm	45mm	0.1µm
4191-60B	15mm	60mm	0.1µm

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STRAIGHTNESS/FLATNESS GAGE

GRANITE HOLDER CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

DATA OUTPUT

VIDEO

- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)

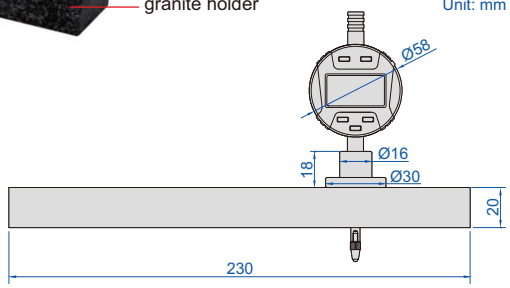


2144-200

application



Unit: mm



Code	Range	Digital indicator resolution	Straightness measurement accuracy	Parallelism of top and botton surfaces of granite holder	Flatness of top and botton surfaces of granite holder
2144-200	200mm	0.001mm/0.00005"	3μm	2μm	1.5μm

14

FLATNESS MEASUREMENT STAND

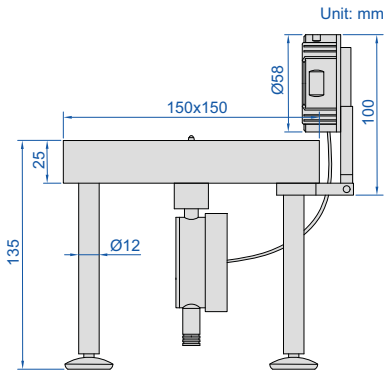
GRANITE PLATE CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

DATA OUTPUT

VIDEO



Unit: mm



6852-150

application



- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13, **7305-40M** page 9)

Code	Digital indicator resolution	Flatness measurement accuracy	Flatness of granite plate
6852-150	0.001mm/0.00005"	2μm	2μm

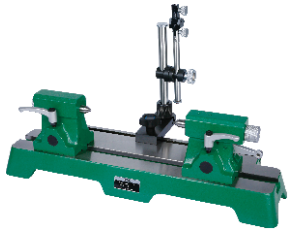
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15 CONCENTRICITY AND RUNOUT TESTERS

INSIZE



Concentricity Gages
Page 353-355



Bench Centers
Page 355-359



V-Blocks
Page 360

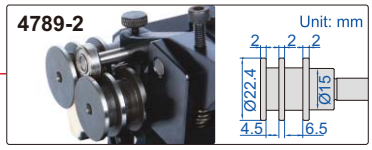


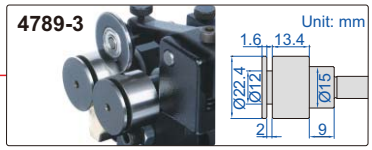
Shank Runout Testers
Page 360

CONCENTRICITY GAGES

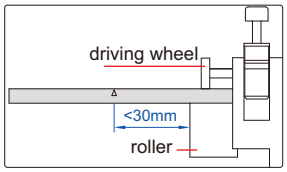


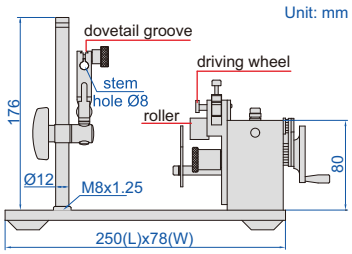






to ensure the accuracy 2μm, the distance between measuring point and roller should be <30mm





Code	Applicable diameter
4789-1	Ø3.5mm-25mm
4789-2	Ø1mm-25mm
4789-3	Ø1mm-25mm

- Accuracy 2μm
- Optional accessory: dial test indicator

HIGH STABILITY, LONG WORKING LIFE

CONCENTRICITY GAGES

15

dial test indicator is optional



4725-45

dial test indicator is optional

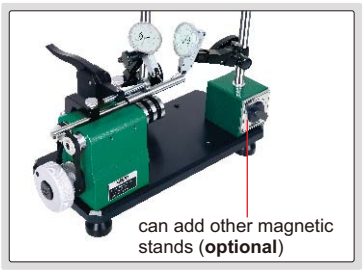


4725-60

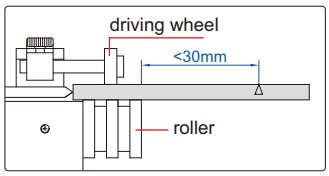
dial test indicator is optional

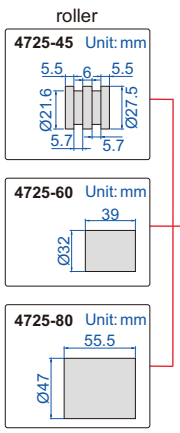


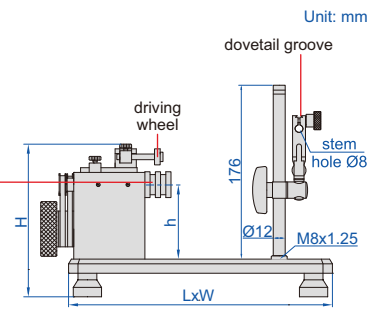
4725-80



to ensure the accuracy 2μm, the distance between measuring point and roller should be <30mm







Code	Diameter range	Center height (h)	LxWxH	Weight
4725-45	3-45mm	80mm	280x130x170mm	6kg
4725-60	8-60mm	90mm	350x160x190mm	15.6kg
4725-80	8-80mm	130mm	400x200x250mm	25kg

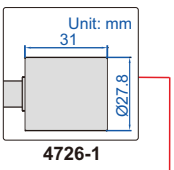
- With ball bearing, high stability, long working life
- Accuracy 2μm
- Optional accessory: dial test indicator

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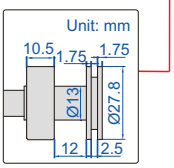
CONCENTRICITY GAGES

VIDEO

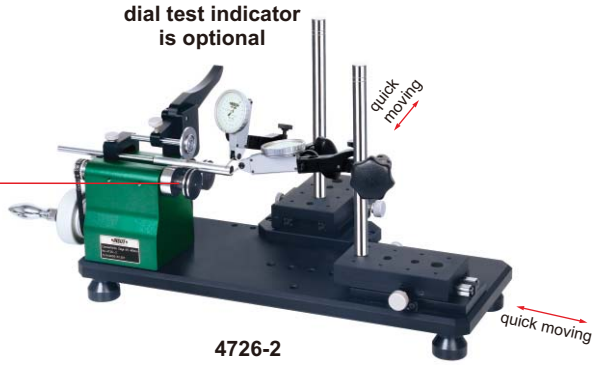
QUICK-POSITIONING, SUITABLE FOR MASS MEASUREMENT



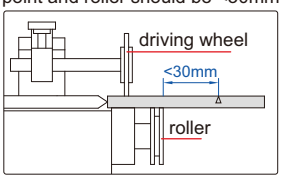
4726-1



4726-2

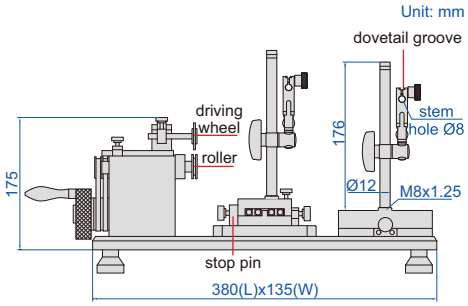


4726-2



- With ball bearing, high stability, long working life
- Accuracy: 2μm
- Optional accessory: dial test indicator

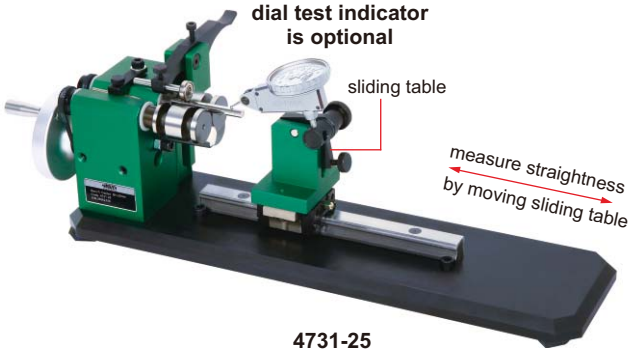
Code	Applicable diameter
4726-1	Ø4-40mm
4726-2	Ø2-40mm



15

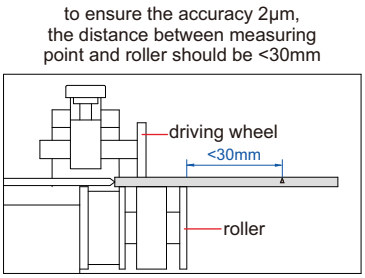
CONCENTRICITY GAGE WITH STRAIGHTNESS MEASUREMENT

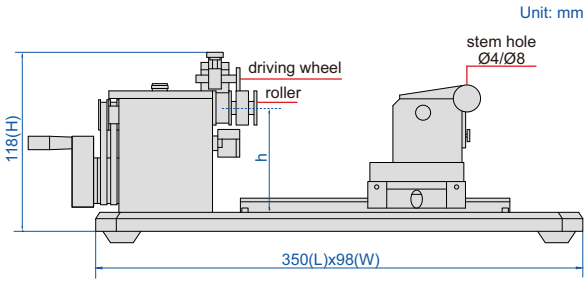
VIDEO



4731-25

- Maximum moving range of sliding table: 120mm
- Optional accessory: dial test indicators



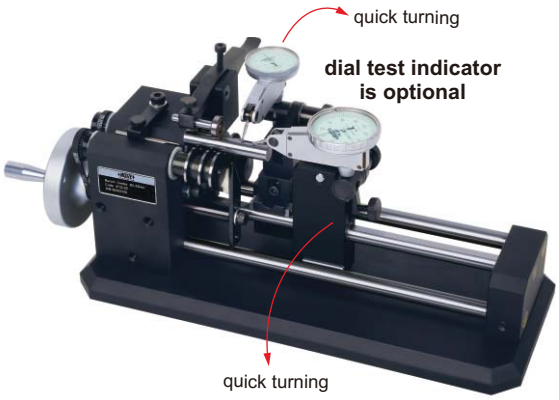


Code	Diameter range	Workpiece length	Roller concentricity accuracy	Straightness measurement accuracy	Center height (h)	L×W×H	Weight
4731-25	Ø1-25mm	15-80mm	2μm	0.01mm	70mm	350×98×118mm	5.3kg

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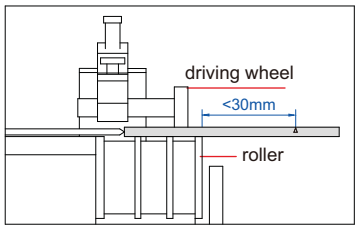
QUICK-POSITIONING, SUITABLE FOR MASS MEASUREMENT

QUICK POSITIONING CONCENTRICITY GAGE



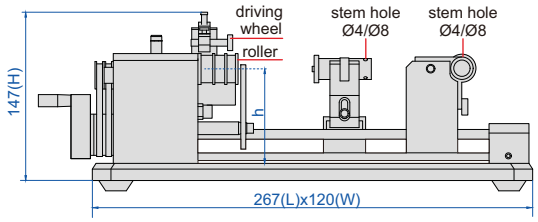
4732-25

to ensure the accuracy 2μm, the distance between measuring point and roller should be <30mm



VIDEO

Unit: mm



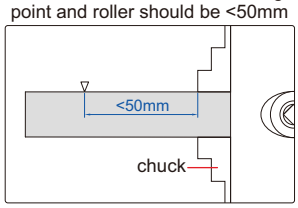
- Quick positioning, suitable for mass measurement
- Optional accessory: dial test indicators

Code	Diameter range	Workpiece length	Accuracy	Center height (h)	L×W×H	Weight
4732-25	Ø0.5-25mm	15-100mm	2μm	70mm	267×120×147mm	5.5kg

15

CONCENTRICITY GAGE

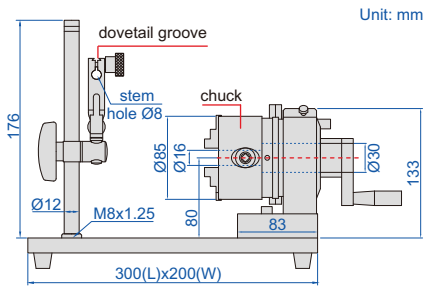
to ensure the accuracy 3μm, the distance between measuring point and roller should be <50mm





4786-1

Unit: mm



- Accuracy: 3μm
- Ø50mm setting ring and Ø55mm calibration cylinder are included
- Optional accessory: dial test indicator

Code	Applicable inside diameter	Applicable outside diameter
4786-1	Ø24-64mm	Ø2-70mm

for cylinder

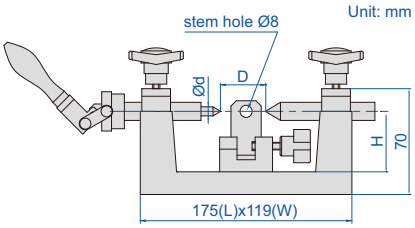


for tube



MINI BENCH CENTER

Unit: mm





4721-75A

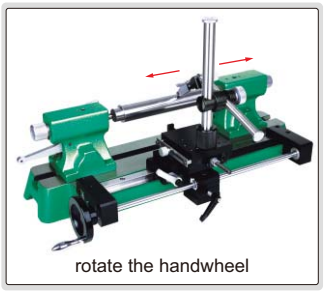
Code	Runout accuracy	Center height (H)	Distance between two centers (D)	Diameter of center (Ød)	Taper of center	Weight	Load
4721-75A	2μm	40mm	35-100mm	6mm	MT1	4.5kg	4kg

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BENCH CENTER WITH STRAIGHTNESS MEASUREMENT

VIDEO

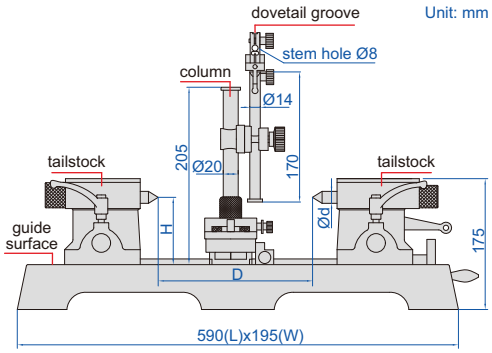
straightness measurement





4723-300

Unit: mm



- Hardened cast-iron guide surface

Code	Parallelism*	Runout accuracy	Accuracy of straightness measurement	Center height (H)	Distance between two centers (D)	Diameter of center (Ød)	Taper of center	Weight	Load
4723-300	4μm	2μm	0.02mm	90mm	300mm	18mm	MT2	38kg	25kg

*Parallelism of two centers to the guide surface

BENCH CENTERS

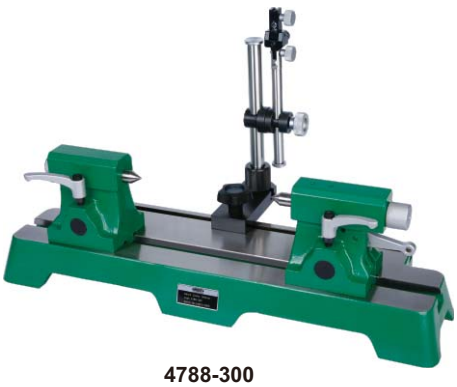
15

rotary centers (**optional**)



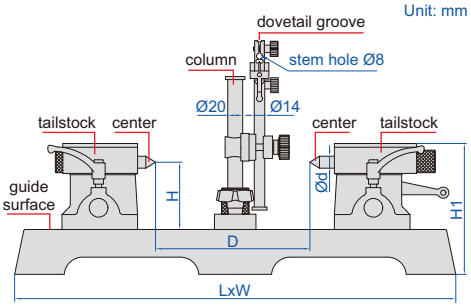
umbrella centers (**optional**)





4788-300

Unit: mm



- Movable column
- Optional accessory: umbrella centers, rotary centers

High accuracy **(mm)**

Code	Parallelism*	Runout accuracy	Center height (H)	Distance between two centers(D)	L	W	H1	Diameter of center (Ød)	Taper of center	Weight	Load
4788-300	0.010mm	2μm	90	300	590	192	175	18.0	MT2	34kg	25kg
4788-400	0.010mm	2μm	130	400	770	206	241	24.1	MT3	66kg	60kg
4788-600	0.010mm	2μm	130	600	930	220	250	24.1	MT3	90kg	60kg
4788-600H2	0.010mm	2μm	200	600	930	220	325	24.1	MT3	105kg	60kg
4788-1000	0.010mm	3μm	130	1000	1330	220	262	24.1	MT3	112kg	60kg
4788-1000H2	0.010mm	3μm	200	1000	1330	220	337	24.1	MT3	125kg	85kg
4788-1000H3	0.010mm	3μm	300	1000	1330	220	442	31.6	MT4	165kg	85kg

Standard accuracy **(mm)**

Code	Parallelism*	Runout accuracy	Center height (H)	Distance between two centers(D)	L	W	H1	Diameter of center (Ød)	Taper of center	Weight	Load
4788-D2	0.010mm	3μm	90	200	490	180	175	20.0	MT2	27kg	25kg
4788-D3	0.010mm	3μm	90	300	590	195	175	20.0	MT2	36kg	25kg
4788-D4	0.012mm	3μm	130	400	730	205	241	28.0	MT3	68kg	60kg
4788-D6	0.015mm	3μm	130	600	930	220	250	28.0	MT3	91kg	60kg
4788-D8	0.015mm	3μm	130	800	1130	220	250	28.0	MT3	99kg	60kg
4788-D10	0.015mm	3μm	130	1000	1330	220	262	28.0	MT3	116kg	60kg

*Parallelism of two centers to the guide surface

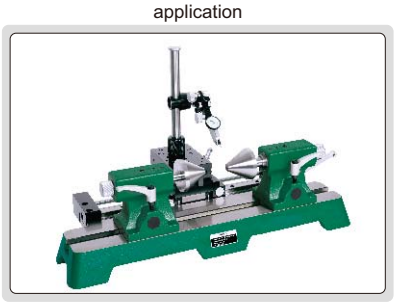
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BULL NOSE CENTERS

- Supplied in pair
- Suitable for **4723** and **4788** series bench centers

Code	Taper of handle
6391-MT2	MT2
6391-MT3	MT3

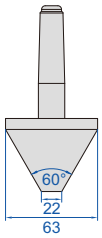
application





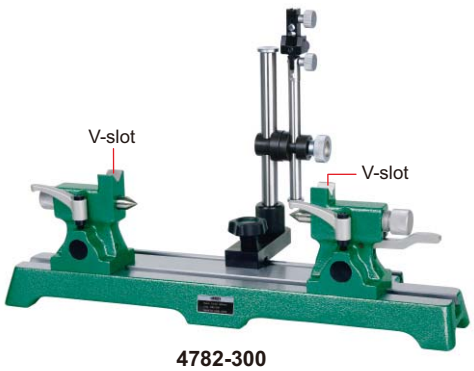
6391-MT2

Unit: mm



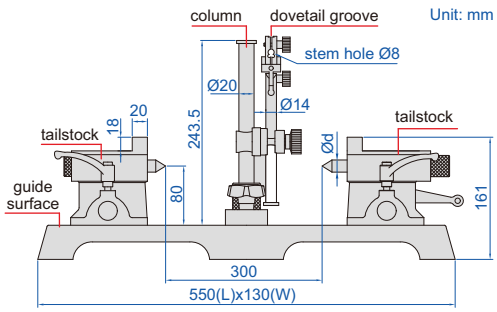
BENCH CENTER (BASIC TYPE)

- Hardened cast-iron guide surface
- Movable column
- V-slot for cylinder Ø4~Ø22mm



4782-300

Unit: mm

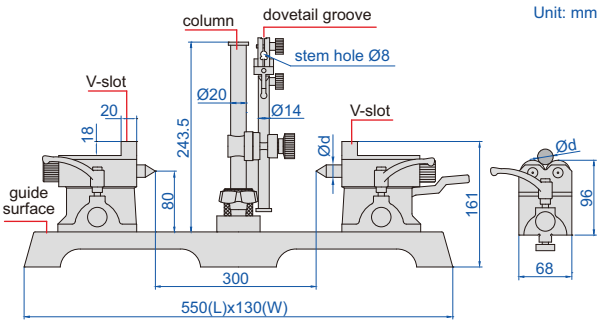


Code	Parallelism*	Runout accuracy	Center height	Distance between two centers	Taper of center	Diameter of center (Ød)	Load
4782-300	0.01mm	2μm	80mm	300mm	MT1	Ø16mm	25kg

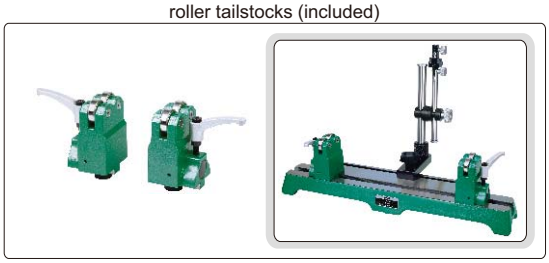
*Parallelism of two centers to the guide surface

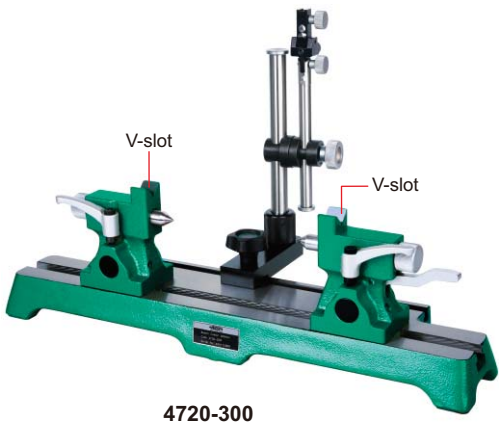
BENCH CENTER WITH ROLLER TAILSTOCKS

Unit: mm



roller tailstocks (included)





4720-300

- Hardened cast-iron guide surface
- Supplied with V-slot/center tailstocks and roller tailstocks
- V-slot for cylinder Ø4~22mm
- Roller for cylinder Ø5~100mm

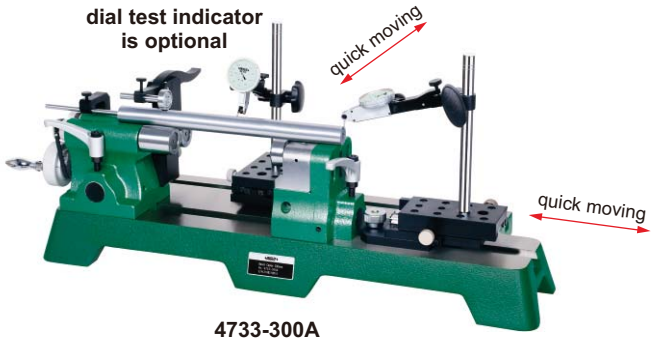
Code	Parallelism*	Runout accuracy	Center height	Distance between two centers	Diameter of center (Ød)	Taper of center	Load
4720-300	0.01mm	2μm	80mm	300mm	16mm	MT1	25kg (40kg for roller tailstocks)

*Parallelism of two centers to the guide surface

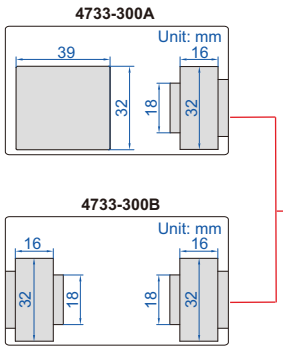
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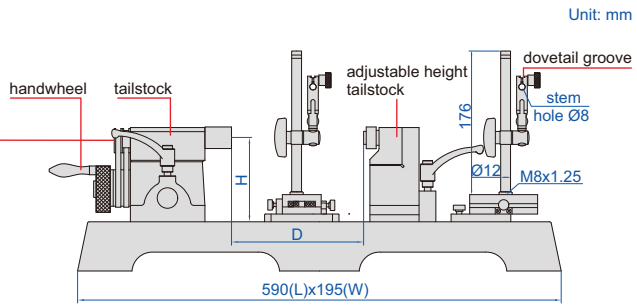
BENCH CENTERS

- Hardened cast-iron guide surface
- Quick moving is suitable for mass production inspection
- Adjustable height tailstock: 0-15mm, suitable for inspecting workpieces with different diameters
- Optional accessory: dial test indicator



4733-300A



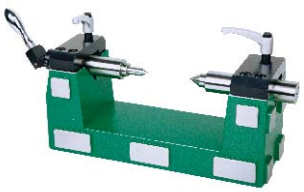


Code	Runout accuracy	Center height (H)	Distance between two centers (D)	Applicable diameter	Adjustable height	Remarks
4733-300A	2μm	90mm	300mm	Ø8-60mm	0-15mm	with handwheel
4733-300B	2μm	90mm	300mm	Ø8-60mm	0-15mm	without handwheel

VERTICAL AND HORIZONTAL BENCH CENTER



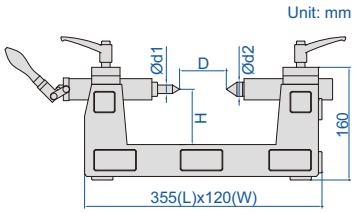
vertical use



horizontal use



side use



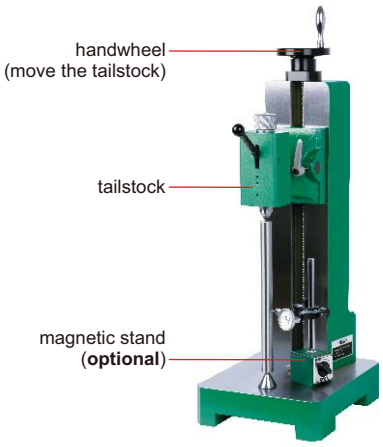
- For vertical, side and horizontal use

Code	Runout accuracy	Center height (H)	Distance between two centers (D)	Diameter of center (Ød1/Ød2)	Weight	Load
4722-200	2μm	80mm	200mm	16mm/20.2mm	22kg	25kg

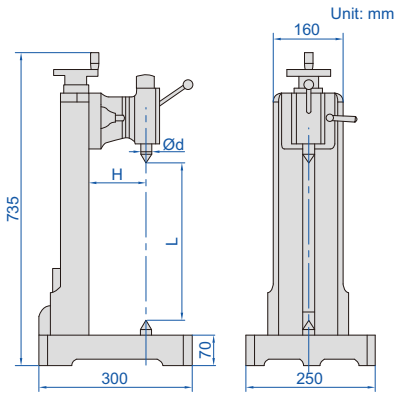
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VERTICAL BENCH CENTER

- Distance between two centers (L): 360mm
- Hardened cast-iron guide surface
- Use handwheel to move the tailstock
- Optional accessory:
  magnetic stands, dial test indicators



4728-360



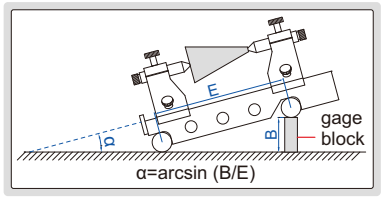
Code	Parallelism*	Runout accuracy	Center height (H)	Diameter of center (Ød)	Taper of center	Weight	Load
4728-360	0.01mm	2μm	130mm	24.1mm	MT3	85kg	80kg

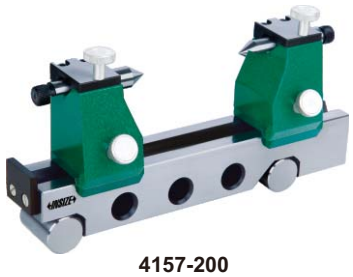
*Parallelism of two centers to the guide surface

TAPER INSPECTION INSTRUMENTS

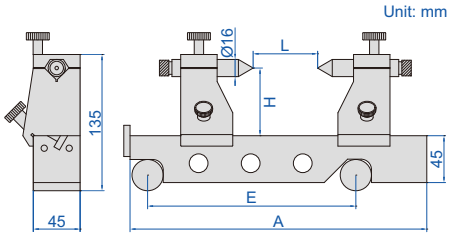
15

CAN BE CUSTOMIZED





4157-200



- Check the taper angle of taper bar/taper plug gages /Morse taper/ISO taper etc. The run out can be checked as well

Code	Center height (H)	Center distance (L)	Sine bar accuracy (when α=30°)	E	A
4157-200	65mm	200mm	±5 seconds	200mm	285mm
4157-300	65mm	300mm	±8 seconds	300mm	385mm

REFER TO PAGE 411 FOR DETAILS

MAGNETIC SQUARE WITH V GROOVE



6539-100

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V-BLOCKS

REFER TO PAGE 404~410 FOR DETAILS



6896-11



6887-3



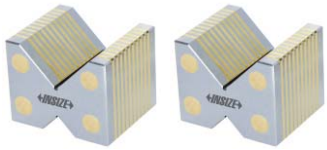
6897-1



6890-702



6888-1



6878-1



6891-1

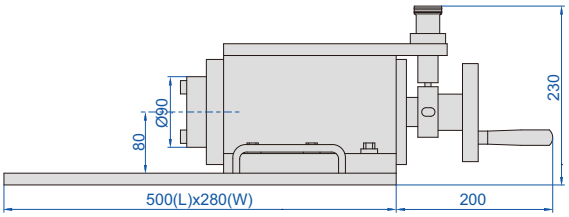
SHANK RUNOUT TESTERS

VIDEO



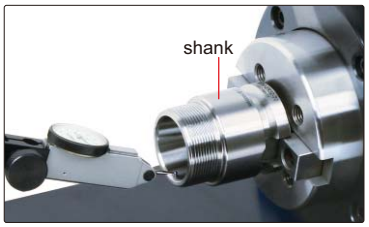
4771-30

Unit: mm

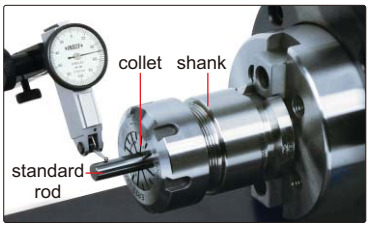


- Measure the radial runout of shanks, collets and cutting tools
- Optional accessory: dial test indicators, magnetic stands

measure radial runout of shank



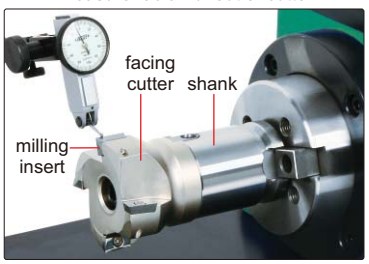
measure radial runout of collet



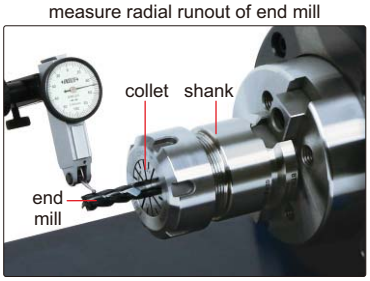
standard shank (included)



measure radial runout of cutter



measure radial runout of end mill



Code	Taper	Accuracy
4771-30	BT30	1μm
4771-40	BT40	1μm
4771-50	BT50	1μm

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SIMPLE MEASURMENT TOOLS

16



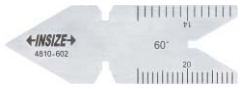
Feeler Gages
Page 363-366



Pitch Gages
Page 367-368



Gear Tooth Pitch Gages
Page 368



Center Gages
Page 368



Thread Gages
Page 369



Angle Gages
Page 369



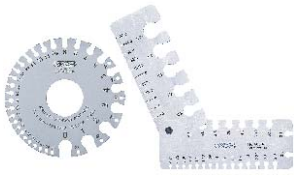
Radius Gages
Page 370



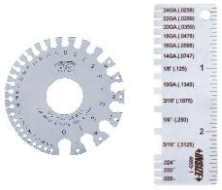
Drill Gages
Page 371



Angle Gages
Page 371



Wire Gages
Page 372



Thickness Gages
Page 372-373



Taper Slot Gages
Page 373-374



Taper Gages
Page 374



Taper Bore Gages
Page 375



Welding Gages
Page 375-376



Fillet Welding Gages
Page 376-377



Welding Gages
Page 377-382



Pipe Welding Gages
Page 381



Inside/Outside Calipers
Page 383



Dividers
Page 384

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16 SIMPLE MEASURMENT TOOLS

INSIZE



Measuring Tapes
Page 384-386



Long Measuring Tapes
Page 386



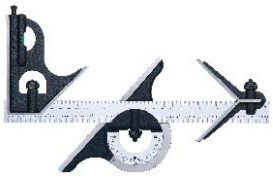
Measuring Wheels
Page 386-387



Digital Measuring Wheels
Page 387



Steel Rules
Page 387-389



Combination Squares
Page 389-391



T-bevels
Page 391



Plastic Angle Squares
Page 392



Marking Gages
Page 392



Center Marking Gages
Page 392



Scribing Calipers
Page 393



Height Scribers
Page 394



Scribers
Page 394



Precision Screwdriver Sets
Page 394



LED Flashlights
Page 394



Measuring Tool Sets
Page 395-399

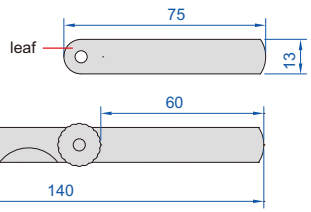
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FEELER GAGE



4601-25

Unit: mm



- Made of hardened alloy steel
- Meet DIN2275/grade TC1
- Accuracy: ±(3+T/80) μm,
  'T' is the thickness of leaves in μm

Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4601-25	0.04-1.00mm	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	25

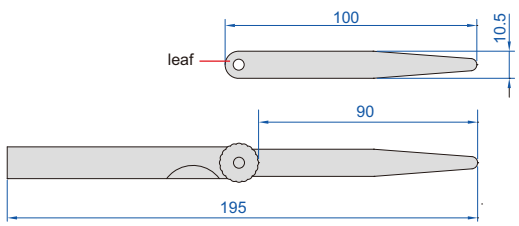
FEELER GAGES

16



4602-20

Unit: mm



- Made of hardened alloy steel
- Meet DIN2275/grade TC1
- Accuracy: ±(3+T/80) μm,
  'T' is the thickness of leaves in μm

Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4602-13A	0.03-0.50mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50	13
4602-13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13
4602-17	0.02-1.00mm	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	17
4602-20	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20
4602-28	0.05-1.00mm	0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 0.12, 0.13, 0.14, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	28
4602-32	0.03-1.00mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00	32

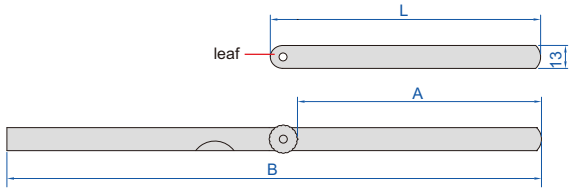
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LONG FEELER GAGES



4605-20

Unit: mm



- Made of hardened alloy steel
- Meet DIN2275/grade TC1
- Accuracy: ±(3+T/80) μm,
  'T' is the thickness of leaves in μm

Code	Range	Thickness of leaves included (mm)	Quantity of leaves	L	A	B
4605-13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13	150mm	135mm	295mm
4605-131	0.05-1.00mm		13	200mm	185mm	395mm
4605-132	0.05-1.00mm		13	300mm	285mm	590mm
4605-20	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20	150mm	135mm	295mm
4605-201	0.05-1.00mm		20	200mm	185mm	395mm
4605-202	0.05-1.00mm		20	300mm	285mm	590mm

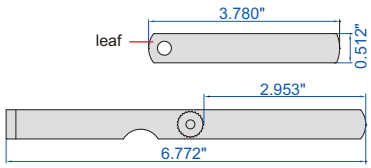
16

INCH FEELER GAGE

- 0.010" is made of brass, others are made of hardened alloy steel
- Each blade is marked with inch/metric size



4608-31



Code	Range	Quantity of Leaves
4608-31	0.0015"~0.035"	32

Thickness of leaves included	Accuracy
0.010" (brass)	±0.00039"
0.0015", 0.002"	±0.0002"
0.0025", 0.003", 0.004", 0.005", 0.006", 0.007"	±0.00028"
0.008", 0.009"	±0.00035"
0.010", 0.011"	±0.00039"
0.012", 0.013"	±0.00047"
0.014", 0.015"	±0.00051"

Thickness of leaves included	Accuracy
0.016", 0.017"	±0.00055"
0.018", 0.019"	±0.00059"
0.020", 0.021"	±0.00067"
0.022", 0.023"	±0.00071"
0.024", 0.025", 0.026"	±0.00075"
0.028"	±0.00091"
0.030"	±0.00094"
0.032", 0.035"	±0.00102"

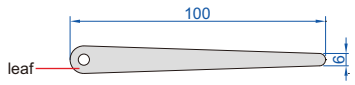
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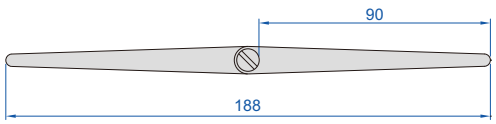
PLASTIC FEELER GAGES



4623-2

Unit: mm



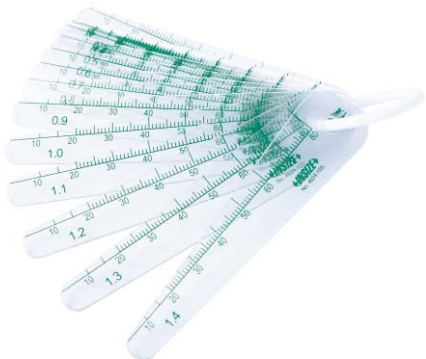


- Accuracy: ±0.04mm (thickness of leaves: 0.25mm)
  ±0.05mm (thickness of leaves: 0.5mm)
  ±0.08mm (thickness of leaves: ≥1mm)

Code	Range	Thickness of leaves included	Quantity of leaves
4623-2	0.25-2.00mm	2.00mm (0.078"), 1.00mm (0.039"), 0.50mm (0.020"), 0.50mm (0.020"), 0.50mm (0.020"), 0.25mm (0.010"), 0.25mm (0.010"), 1.00mm (0.039"), 2.00mm (0.078"), 1.00mm (0.039"), 2.00mm (0.078"), 1.00mm (0.039"), 2.00mm (0.078")	13
4623-5	0.25-5.00mm	1.00mm (0.039"), 0.25mm (0.010"), 0.50mm (0.020"), 1.50mm (0.059"), 2.00mm (0.078"), 2.50mm (0.098"), 3.00mm (0.118"), 3.50mm (0.138"), 4.00mm (0.157"), 4.50mm (0.177"), 5.00mm (0.196")	11

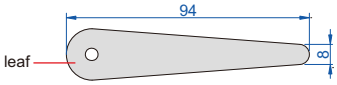
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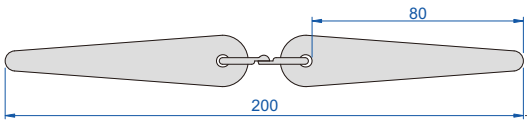
PLASTIC FEELER GAGE



4624-1D5

Unit: mm





- Accuracy: ±0.02mm (thickness of leaves: 0.05-0.1mm)
  ±0.03mm (thickness of leaves: 0.15-0.6mm)
  ±0.04mm (thickness of leaves: ≥0.7mm)

Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4624-1D5	0.05-1.5mm	0.05, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5	17

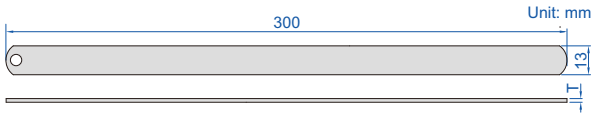
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FEELER GAGE STOCKS





4622-10



- Used as shims to accurately set spacing
- Made of hardened alloy steel
- Length 300mm
- Width 13mm
- 10 pcs per package

Code	Thickness (T)	Accuracy
4622-02	0.02mm	±3µm
4622-03	0.03mm	±3µm
4622-04	0.04mm	±3µm
4622-05	0.05mm	±3µm
4622-06	0.06mm	±3µm
4622-07	0.07mm	±4µm
4622-08	0.08mm	±4µm
4622-09	0.09mm	±4µm
4622-10	0.10mm	±4µm
4622-12	0.12mm	±5µm

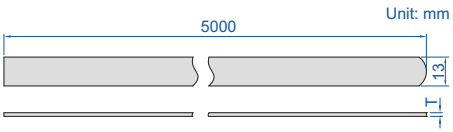
Code	Thickness (T)	Accuracy
4622-15	0.15mm	±5µm
4622-18	0.18mm	±6µm
4622-20	0.20mm	±6µm
4622-25	0.25mm	±6µm
4622-30	0.30mm	±7µm
4622-35	0.35mm	±7µm
4622-40	0.40mm	±8µm
4622-45	0.45mm	±8µm
4622-50	0.50mm	±9µm
4622-55	0.55mm	±9µm

Code	Thickness (T)	Accuracy
4622-60	0.60mm	±9µm
4622-65	0.65mm	±9µm
4622-70	0.70mm	±12µm
4622-75	0.75mm	±12µm
4622-80	0.80mm	±13µm
4622-85	0.85mm	±13µm
4622-90	0.90mm	±14µm
4622-95	0.95mm	±14µm
4622-100	1.00mm	±16µm

FEELER GAGE TAPES



4621-30



Code	Thickness (T)	Accuracy
4621-02	0.02mm	±4µm
4621-03	0.03mm	±4µm
4621-04	0.04mm	±4µm
4621-05	0.05mm	±4µm
4621-06	0.06mm	±4µm
4621-07	0.07mm	±5µm
4621-08	0.08mm	±5µm
4621-09	0.09mm	±5µm
4621-10	0.10mm	±5µm
4621-12	0.12mm	±5µm
4621-15	0.15mm	±6µm
4621-18	0.18mm	±7µm
4621-20	0.20mm	±8µm
4621-25	0.25mm	±9µm

Code	Thickness (T)	Accuracy
4621-30	0.30mm	±9µm
4621-35	0.35mm	±11µm
4621-40	0.40mm	±12µm
4621-45	0.45mm	±12µm
4621-50	0.50mm	±14µm
4621-55	0.55mm	±14µm
4621-60	0.60mm	±14µm
4621-65	0.65mm	±14µm
4621-70	0.70mm	±17µm
4621-75	0.75mm	±17µm
4621-80	0.80mm	±19µm
4621-85	0.85mm	±19µm
4621-90	0.90mm	±22µm
4621-95	0.95mm	±22µm
4621-100	1.00mm	±24µm

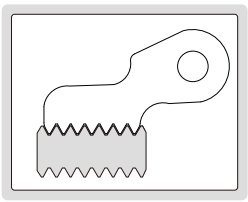
- Used as shims to accurately set spacing
- Made of hardened alloy steel
- Length 5m
- Width 13mm

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PITCH GAGES



4820-122



- Identify the pitch of screw thread
- Made of medium carbon steel

Metric 60° screw

Code	Range	Pitch of leaves included (mm)	Quantity of leaves
4820-122	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	22
4820-124	0.25-7.0mm	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	24
4820-1241	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6	24

Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-230	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30

Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-330	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30
4820-328	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	28

Metric 60° and Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-452	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	52
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	
4820-450	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	50
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	

Metric 60° and Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-552	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	

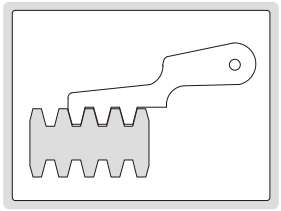
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PITCH GAGES

- Check the pitch of screw thread
- Accuracy: ±0.07mm
- Made of medium carbon steel



4824-12



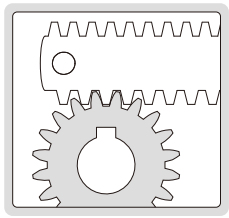
Code	Range	Thread type	Pitch of leaves included	Quantity of leaves
4824-12	2-20mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	12
4824-16	1-12TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI	16

GEAR TOOTH PITCH GAGES

- Check the module pitch of gear tooth
- Accuracy: ±0.05mm
- Made of hardened stainless steel

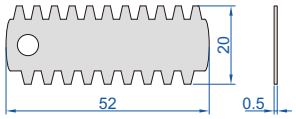


4860-245



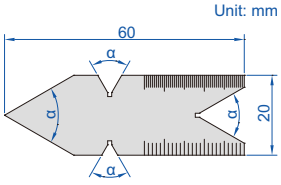
Code	Range	Pressure angle	Quantity of leaves
4860-145	0.35-4.5mm	14.5°	15
4860-245	0.35-4.5mm	20°	15
4860-112	5-12mm	14.5°	8
4860-212	5-12mm	20°	8

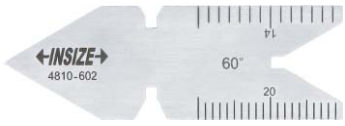
Unit: mm



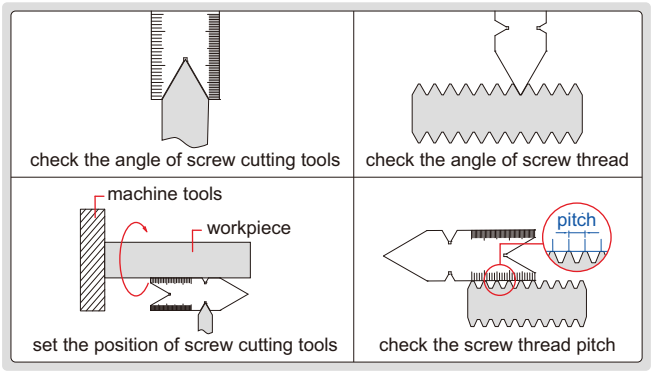
CENTER GAGES

Unit: mm





4810-602



- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy: ±30min.
- Made of stainless steel

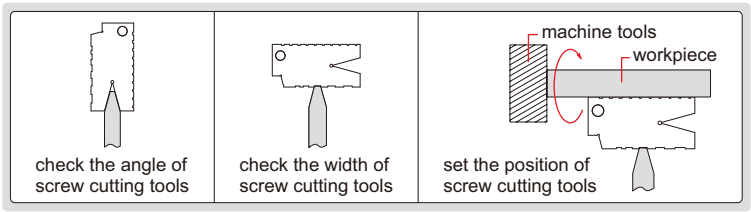
Code	Thread type	Angle (α)	Graduation
4810-601	METRIC 60°	60°	0.5mm and 1mm
4810-602	UNIFIED 60°	60°	14ths and 20ths on front side, 24ths and 32ths on back side
4810-55	WHITWORTH 55°	55°	14ths and 20ths on front side, 24ths and 32ths on back side

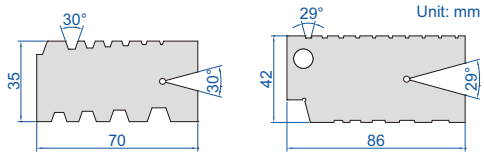
THREAD GAGES



4812-E

- To check and set screw cutting tools
- Made of medium carbon steel





4812-12 4812-E

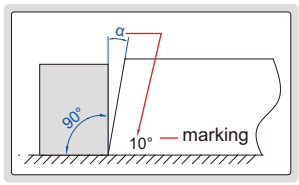
Code	Range	Thread type	Pitch
4812-12	2-12mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12mm
4812-E	1-10TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, 10TPI

ANGLE GAGE

- To check complementary angles
- Made of stainless steel

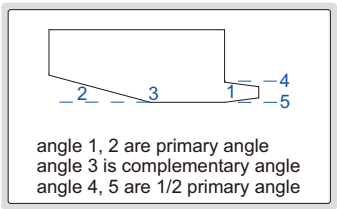


4806-20



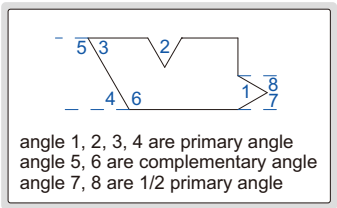
Code	Range (α)	Angle of leaves included	Quantity of leaves	Accuracy
4806-20	1°-45°	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°	20	±30'

ANGLE GAGE SET



angle 1, 2 are primary angle
angle 3 is complementary angle
angle 4, 5 are 1/2 primary angle

type A



angle 1, 2, 3, 4 are primary angle
angle 5, 6 are complementary angle
angle 7, 8 are 1/2 primary angle

type B



4807

- Each blade checks primary, 1/2 primary and complementary angles
- Made of medium carbon steel

Code	Quantity of leaves	Accuracy
4807	18	±10'

Primary angle	½ primary angle	Complementary angle	Type
5°	2°30'	175°	A
10°	5°	170°	A
15°	7°30'	165°	A
20°	10°	160°	B
25°	12°30'	155°	B
30°	15°	150°	B
35°	17°30'	145°	B
40°	20°	140°	B
45°	22°30'	135°	B
50°	25°	130°	B
55°	27°30'	125°	B
60°	30°	120°	B
65°	32°30'	115°	B
70°	35°	110°	B
75°	37°30'	105°	B
80°	40°	100°	B
85°	42°30'	95°	B
90°	45°	90°	B

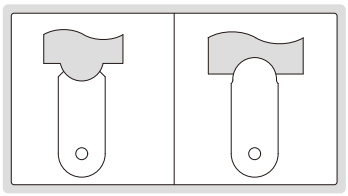
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RADIUS GAGES

- Made of medium carbon steel



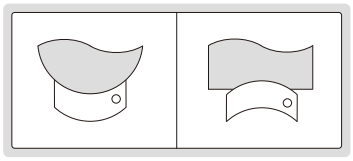
4801-17



Code	Range	Radius of leaves included (mm)	Quantity of leaves (internal + external)
4801-17	1-7mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17+17
4801-16	7.5-15mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16
4801-15	15.5-25mm	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25	15+15

RADIUS GAGE

- Made of stainless steel





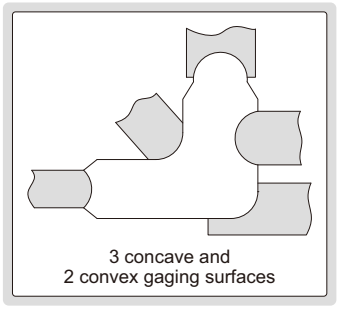
4802-31

Code	Range	Radius of leaves included (mm)	Quantity of leaves
4802-31	25-40mm	25, 25.5, 26, 26.5, 27, 27.5, 28, 28.5, 29, 29.5, 30, 30.5, 31, 31.5, 32, 32.5, 33, 33.5, 34, 34.5, 35, 35.5, 36, 36.5, 37, 37.5, 38, 38.5, 39, 39.5, 40	31

RADIUS GAGE SET

- Each piece has 3 concave and 2 convex gauging surfaces
- Supplied with handle
- Made of medium carbon steel







4804-26

Code	Range	Radius of leaves included (mm)	Quantity of leaves
4804-26	0.5-13mm	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13	26

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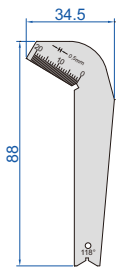
DRILL POINT GAGE

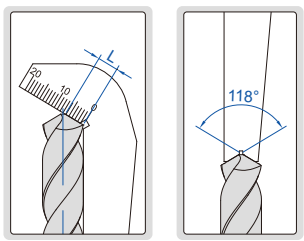
- For twist drills with 118° angle, to check if the center of tip is concentric with the drill body
- Made of stainless steel



4843-1

Unit: mm





Code	Accuracy	
	Angle	Length
4843-1	±0.5°	±0.5mm

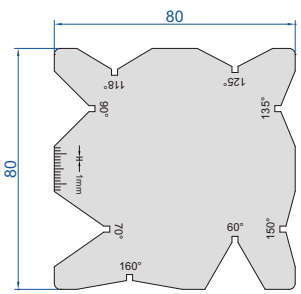
DRILL ANGLE GAGE

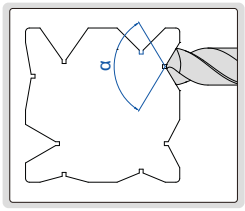
- Check drills with angle 60°, 70°, 90°, 118°, 125°, 135°, 150° or 160°
- Made of stainless steel



4842-1

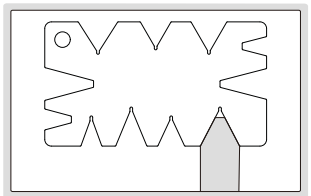
Unit: mm





Code	Accuracy
4842-1	±0.5°

ANGLE GAGE

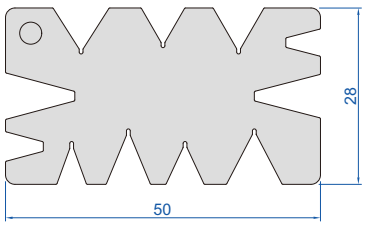


check the angle of screw cutting tools



4854-1

Unit: mm



- Made of stainless steel

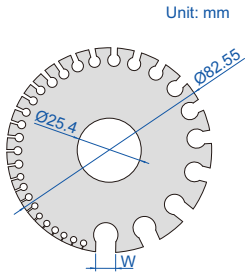
Code	Range	Accuracy
4854-1	29°, 30°, 40°, 45°, 50°, 55°, 60°	±10'

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AMERICAN STANDARD WIRE GAGE



4808



Code	Range
4808	0-36 (8.250-0.127mm/0.3249-0.0050")

- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Hardened to HRC50-57

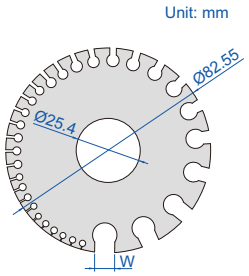
No.	W
0	8.250mm/0.3249"
1	7.350mm/0.2893"
2	6.540mm/0.2576"
3	5.830mm/0.2294"
4	5.190mm/0.2043"
5	4.620mm/0.1819"
6	4.110mm/0.1620"
7	3.670mm/0.1443"
8	3.260mm/0.1285"
9	2.910mm/0.1144"
10	2.590mm/0.1019"
11	2.300mm/0.0907"
12	2.050mm/0.0808"
13	1.820mm/0.0720"
14	1.630mm/0.0641"
15	1.450mm/0.0571"
16	1.290mm/0.0508"
17	1.150mm/0.0453"

No.	W
18	1.020mm/0.0403"
19	0.912mm/0.0359"
20	0.813mm/0.0320"
21	0.724mm/0.0285"
22	0.643mm/0.0253"
23	0.574mm/0.0226"
24	0.511mm/0.0201"
25	0.440mm/0.0179"
26	0.404mm/0.0159"
27	0.361mm/0.0142"
28	0.320mm/0.0126"
29	0.287mm/0.0113"
30	0.254mm/0.0100"
31	0.226mm/0.0089"
32	0.203mm/0.0080"
33	0.180mm/0.0071"
34	0.160mm/0.0063"
35	0.142mm/0.0056"
36	0.127mm/0.0050"

U.S. STANDARD SHEET METAL GAGE



4809



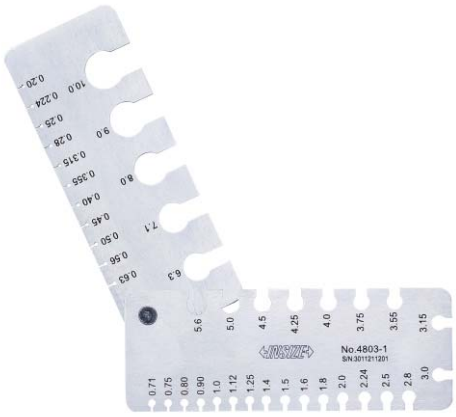
Code	Range
4809	0-36 (7.938-0.179mm/0.3125-0.0070")

- For gaging sheet metal, plate iron and steel
- Hardened to HRC50-57

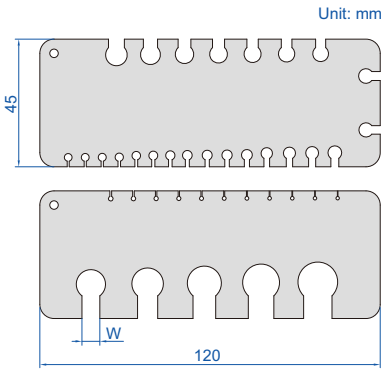
No.	W
0	7.938mm/0.3125"
1	7.144mm/0.2813"
2	6.747mm/0.2656"
3	6.350mm/0.2500"
4	5.953mm/0.2344"
5	5.556mm/0.2188"
6	5.159mm/0.2031"
7	4.763mm/0.1875"
8	4.366mm/0.1719"
9	3.969mm/0.1563"
10	3.572mm/0.1406"
11	3.175mm/0.1250"
12	2.778mm/0.1094"
13	2.381mm/0.0938"
14	1.984mm/0.0781"
15	1.786mm/0.0703"
16	1.588mm/0.0625"
17	1.429mm/0.0563"

No.	W
18	1.270mm/0.0500"
19	1.111mm/0.0438"
20	0.953mm/0.0375"
21	0.873mm/0.0344"
22	0.794mm/0.0313"
23	0.714mm/0.0281"
24	0.635mm/0.0250"
25	0.556mm/0.0219"
26	0.476mm/0.0188"
27	0.437mm/0.0172"
28	0.397mm/0.0156"
29	0.357mm/0.0141"
30	0.318mm/0.0125"
31	0.278mm/0.0109"
32	0.258mm/0.0102"
33	0.238mm/0.0094"
34	0.218mm/0.0086"
35	0.198mm/0.0078"
36	0.179mm/0.0070"

WIRE GAGE



4803-1



Code	Range
4803-1	0.2-10mm

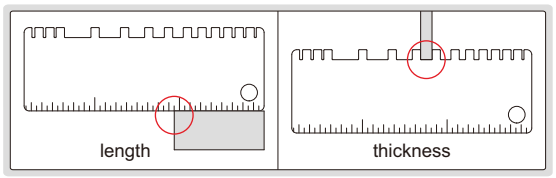
- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Hardened to HRC51-53
- Including 2 pcs wire gages

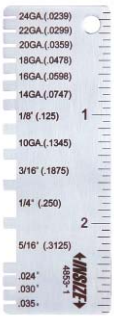
wire diameter (W)
0.200mm
0.224mm
0.250mm
0.280mm
0.315mm
0.355mm
0.400mm
0.450mm
0.500mm
0.560mm
0.630mm
0.710mm
0.750mm
0.800mm
0.900mm
1.000mm
1.120mm
1.250mm
1.400mm
1.500mm

wire diameter (W)
1.60mm
1.80mm
2.00mm
2.24mm
2.50mm
2.80mm
3.00mm
3.15mm
3.55mm
3.75mm
4.00mm
4.25mm
4.50mm
5.00mm
5.60mm
6.30mm
7.10mm
8.00mm
9.00mm
10.00mm

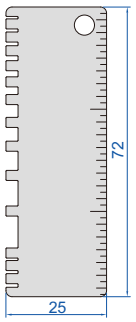
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THICKNESS GAGE





Unit: mm



4853-1

- Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4853-1	length	0-2 3/4"	1/16"	1/32"
	thickness	24GA. (0.0239"), 22GA. (0.0299"), 20GA. (0.0359")	—	±0.002"
		18GA. (0.0478"), 16GA. (0.0598") , 14GA. (0.0747"), 1/8" (0.125"), 10GA. (0.1345"), 3/16" (0.1875"), 1/4" (0.250"), 5/16" (0.3125")		±0.004"
		0.024", 0.030", 0.035"		±0.002"

DATA OUTPUT

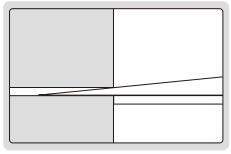
ATTENTION: ACTUAL SLOT WIDTH IS 1/10 OF THE READING

DIGITAL TAPER SLOT GAGES

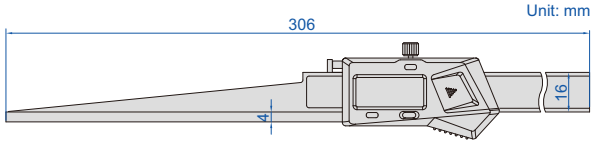


1160-10

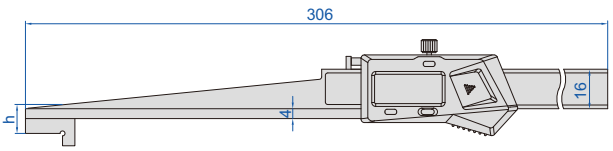
measure slot width



Unit: mm



1160-10 and 1106-10WL



1160-20, 1160-20WL, 1160-30, 1160-30WL, 1160-40 and 1106-40WL

- Non waterproof
- Measuring opening, slot width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

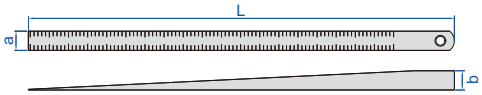
Code	Range	Accuracy	h
1160-10	0.2-10mm/0.01-0.39"	±0.03mm	—
1160-20	10-20mm/0.39-0.79"	±0.05mm	10mm
1160-30	20-30mm/0.79-1.18"	±0.05mm	20mm
1160-40	30-40mm/1.18-1.58"	±0.05mm	30mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy	h
1160-10WL	0.2-10mm/0.01-0.39"	±0.03mm	—
1160-20WL	10-20mm/0.39-0.79"	±0.05mm	10mm
1160-30WL	20-30mm/0.79-1.18"	±0.05mm	20mm
1160-40WL	30-40mm/1.18-1.58"	±0.05mm	30mm

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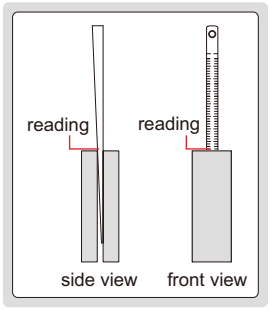
TAPER SLOT GAGES



- For quick measurement of slot width
- Satin chrome plated reading surface
- Made of stainless steel



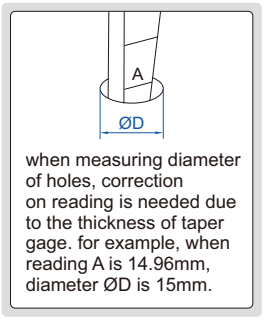
4630-1



Code	Range	Graduation	Accuracy	L	a	b
4630-3	0.4-6mm	0.05mm	±0.04mm	164mm	12.5mm	6.5mm
4630-1	0.5-10mm	0.05mm	±0.07mm	220mm	10mm	10.5mm
4630-2	0.5-15mm	0.1mm	±0.08mm	184mm	12.5mm	16.5mm

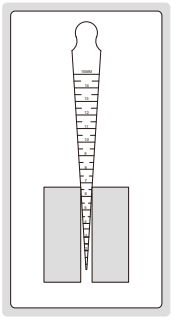
TAPER GAGES

measure diameter of hole

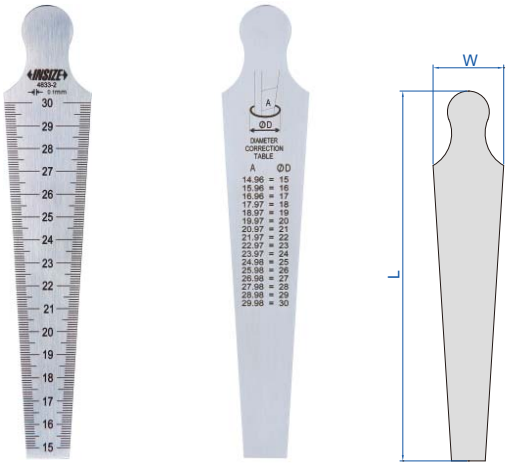


when measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. for example, when reading A is 14.96mm, diameter ØD is 15mm.

measure slot width



- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back (only for **4833-1**, **4833-2**)
- Made of stainless steel



front back

4833-2

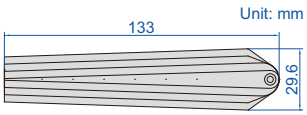
Code	Range	Graduation	Accuracy	L	W
4833-1	0.8-15mm	0.1mm	±0.05mm	146mm	17mm
4833-2	15-30mm	0.1mm	±0.05mm	159mm	30.4mm
4833-3	30-45mm	0.1mm	±0.05mm	166mm	45.4mm
4833-4	45-60mm	0.1mm	±0.05mm	170mm	60.5mm

TAPER GAGE SET



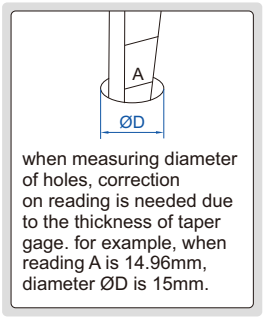
front back

4837-1



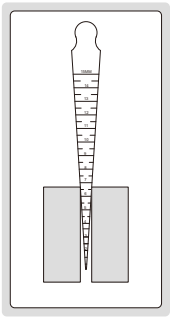
- Include 4 pcs (1~8mm, 8~15mm, 15~22mm, 22~29mm)
- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back
- Made of stainless steel

measure diameter of hole



when measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. for example, when reading A is 14.96mm, diameter ØD is 15mm.

measure slot width



Code	Range	Graduation	Accuracy
4837-1	1-29mm	0.05mm	±0.05mm

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TAPER BORE GAGES

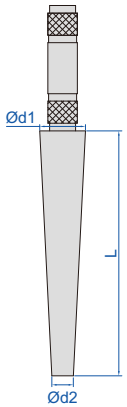
- Quick measurement of bore diameter
- Hardened steel, HRC50-58
- Satin chrome plated surface
- Aluminium oxided handle

(mm)

Code	Range	Graduation	Accuracy	L	Ød1	Ød2
4852-1	1-6.5mm	0.1mm	±0.05mm	62.5	7	0.8
4852-3	3-16mm	0.1mm	±0.05mm	143	17	2.8
4852-15	15-30mm	0.1mm	±0.05mm	165	31	14.7
4852-30	30-45mm	0.1mm	±0.05mm	165	46	29.6
4852-45	45-60mm	0.1mm	±0.05mm	167	61	44.3



4852-15

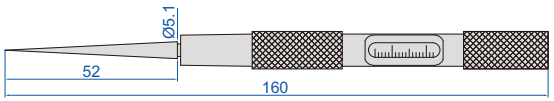


SMALL TAPER BORE GAGE



4855-5

Unit: mm



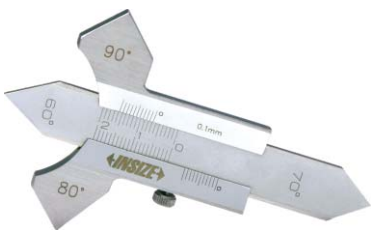
- Quick measurement of small bore diameter
- Hardened working face
- Supplied with protection cap

supplied with protection cap



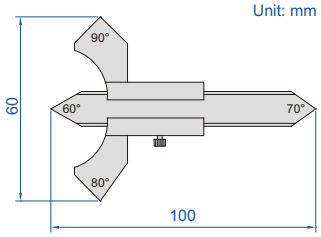
Code	Range	Graduation	Accuracy
4855-5	0.1-5mm	0.01mm	±0.03mm

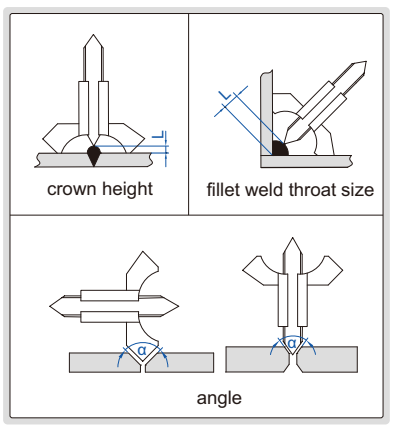
WELDING GAGE



4830

Unit: mm





- Made of stainless steel
- Satin chrome plated reading surface

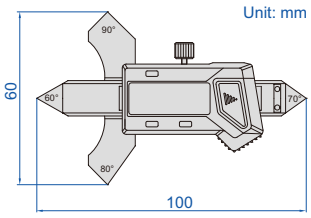
Code	Measurement	Range	Graduation	Accuracy
4830	crown height	0-8mm	0.1mm	±0.1mm
	fillet weld throat size	0-20mm	0.1mm	±0.3mm
	angle	60°, 70°, 80°, 90°	—	±1°

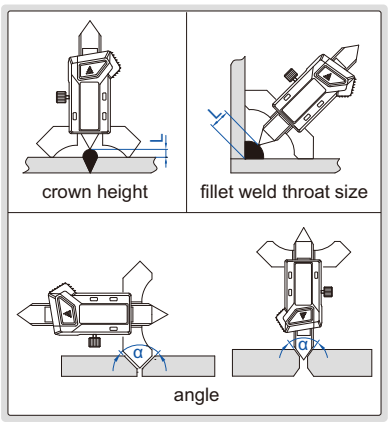
DIGITAL WELDING GAGE

ATTENTION: NO DATA OUTPUT



4831-20A

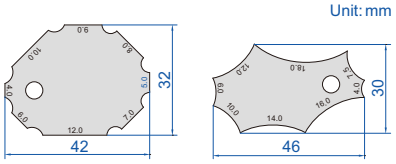




- Non waterproof
- Buttons: zero, mm/inch, on/off
- Battery LR44
- Made of stainless steel

Code	Measurement	Range	Resolution	Accuracy
4831-20A	crown height	0-7mm	0.01mm/0.0005"	±0.03mm
	fillet weld throat size	0-20mm	0.01mm/0.0005"	±0.1mm
	angle	60°, 70°, 80°, 90°	—	±1°

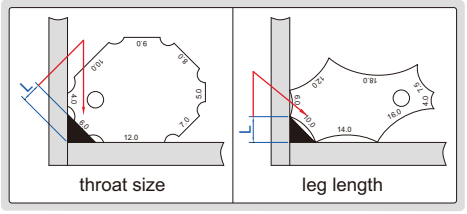
FILLET WELDING GAGE





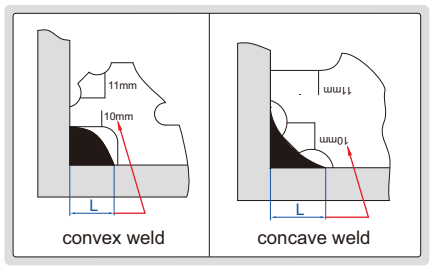
4832-1

- Made of stainless steel
- Sizes marked on both faces



Code	Throat size	Leg length	Accuracy
4832-1	4, 5, 6, 7, 8, 9, 10, 12mm	4, 6, 7.5, 10, 12, 14, 16, 18mm	±0.5mm

FILLET WELDING GAGES





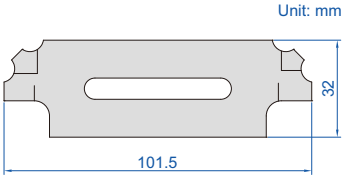
4836-1



4836-2

- Measure concave and convex weld sizes
- 7 blades are included
- Made of stainless steel

Code	Size	Accuracy
4836-1	3mm, 4mm, 5mm, 6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 14mm, 16mm, 19mm, 22mm, 25mm	±0.5mm
4836-2	1/8" (3.2mm), 3/16" (4.8mm), 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm), 7/16" (11.1mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm), 7/8" (22.2mm), 1" (25.4mm)	±0.02" (0.5mm)



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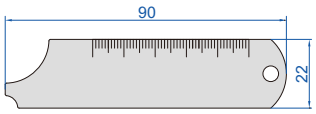
FILLET WELDING GAGE

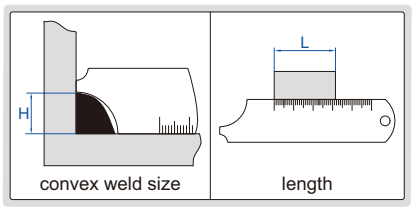
- Measure convex weld sizes
- 3 blades are included
- Made of stainless steel



4847-1

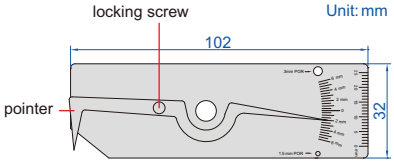
Unit: mm





Code	Measurement	Range	Graduation	Accuracy
4847-1	convex weld size	4, 6, 8, 10, 12, 14mm	—	±0.5mm
	length	0-50mm	1mm	±0.5mm

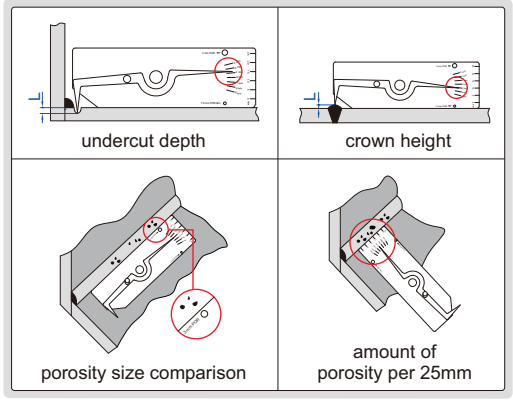
WELDING GAGE





4834-1

- Pointer can be locked for later reference
- Made of stainless steel

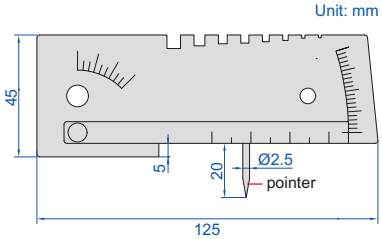


Code	Measurement	Range	Graduation	Accuracy
4834-1	undercut depth	0-6mm	0.5mm	±0.5mm
	crown height	0-6mm	0.5mm	±0.5mm
	porosity size comparison	1.5mm, 3mm	—	±0.2mm
	amount of porosity per 25mm	25mm	1mm	—

16

WELDING GAGE

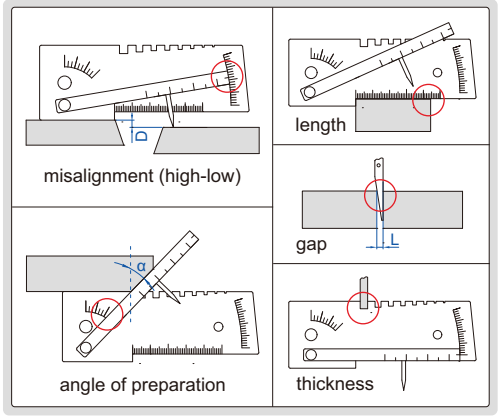
Unit: mm





4848-1

- Made of stainless steel



Code	Measurement	Range	Graduation	Accuracy
4848-1	misalignment (high-low)	-5mm~+15mm	1mm	±0.5mm
	angle of preparation	0°-45°	5°	±2.5°
	length	0-50mm	1mm	±0.5mm
	gap	1-4mm	0.5mm	±0.25mm
	thickness	1, 1.2, 2.0, 2.5, 3.0, 3.25, 4.0, 5.0mm	—	±0.1mm

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WELDING GAGE

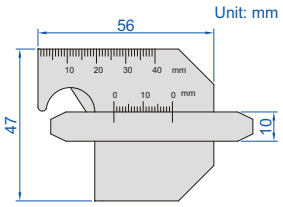


front



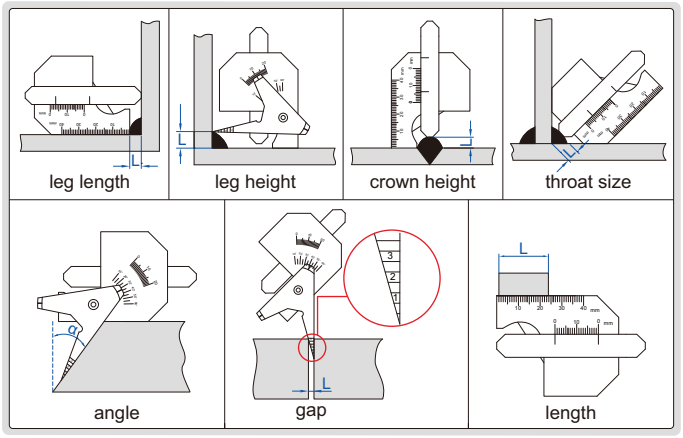
back

6832-1



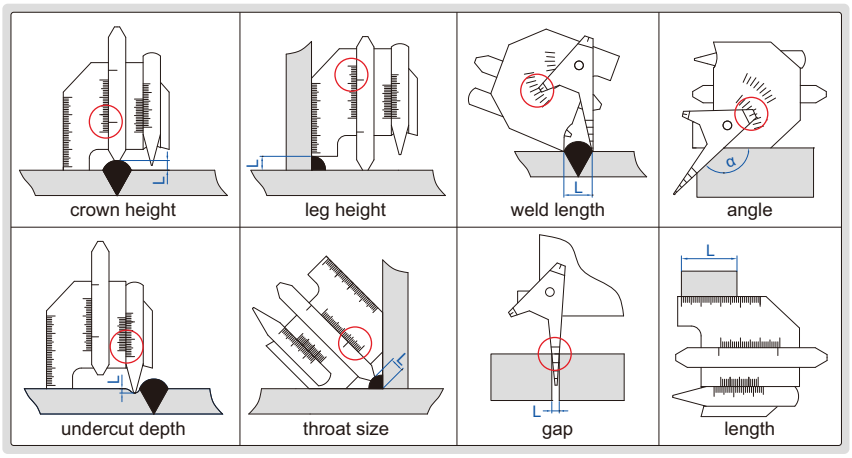
- Made of stainless steel
- Satin chrome plated surface

Code	Measurement	Range	Graduation	Accuracy
6832-1	leg length	0-20mm	1mm	±0.3mm
	leg height	0-20mm	1mm	±0.3mm
	crown height	0-20mm	1mm	±0.3mm
	throat size	0-10mm	1mm	±0.3mm
	angle	0°-60°	5°	±1°
	gap	1-3.5mm	0.5mm	±0.2mm
	length	0-40mm	1mm	±0.3mm



16

WELDING GAGES

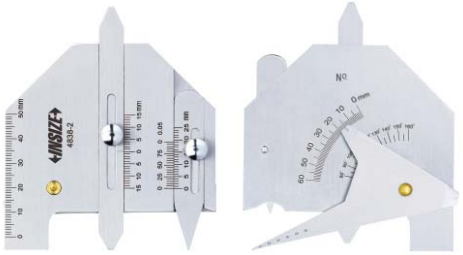




front

4838-1

back



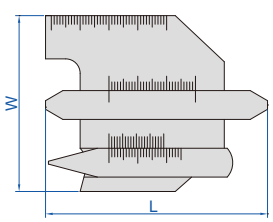
front

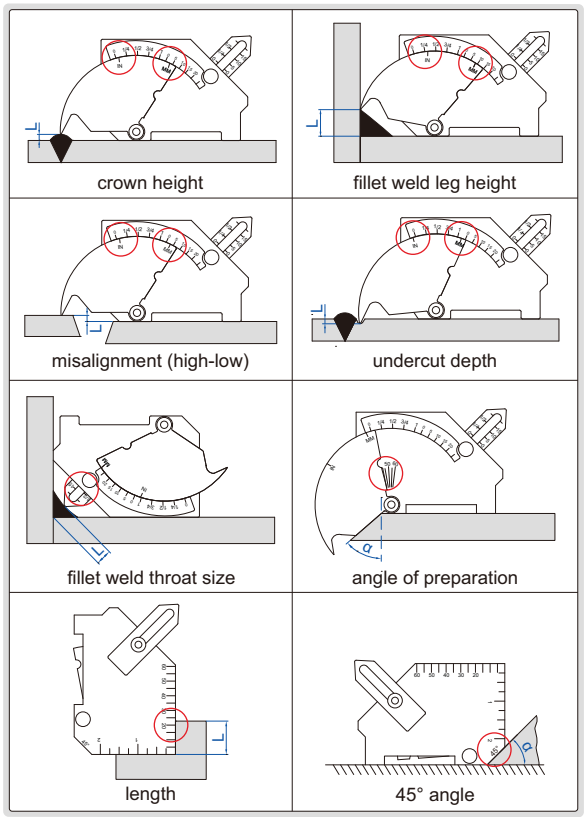
4838-2

back

- Made of stainless steel

	Code 4838-1			Code 4838-2		
Measurement	Range	Graduation	Accuracy	Range	Graduation	Accuracy
crown height	0-10mm	1mm	±0.5mm	0-15mm	1mm	±0.5mm
leg height	0-14mm	1mm	±0.5mm	0-15mm	1mm	±0.5mm
undercut depth	0-5mm	0.05mm	±0.05mm	0-5mm	0.05mm	±0.05mm
throat size	0-13mm	1mm	±0.5mm	0-13mm	1mm	±0.5mm
weld length	0-40mm	1mm	±1mm	0-60mm	1mm	±1mm
angle	90°-150°	5°	±1°	80°-160°	5°	±1°
gap	0.5-5mm	1mm	±0.5mm	1-6mm	1mm	±0.5mm
length	0-40mm	1mm	±0.5mm	0-50mm	1mm	±0.5mm
LxW	62x77mm			99x84mm		



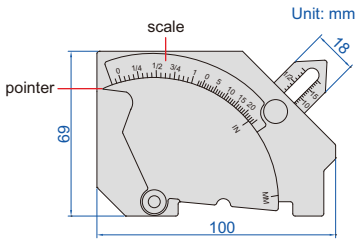


WELDING GAGE





4835-1

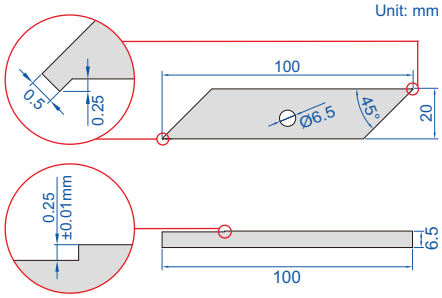


- Adjustable scale to compensate pointer wear
- Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4835-1	crown height	0-25mm (0-1")	1mm (1/16")	±0.5mm
	fillet weld leg height	0-25mm (0-1")	1mm (1/16")	±0.5mm
	misalignment (high-low)	0-25mm (0-1")	1mm (1/16")	±0.5mm
	undercut depth	0-2mm (0-1/8")	1mm (1/16")	±0.5mm
	fillet weld throat size	0-20mm (0-3/4")	1mm (1/16")	±0.5mm
	angle of preparation	0-60°	5°	±1°
	length	0-60mm (0-2")	1mm (1/16")	±0.5mm
	45° angle	—	—	±1°

16

WELDING UNDERCUT GAGE



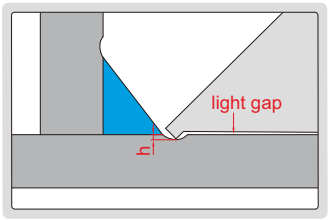


4849-1

calibration block (included)



application



when there is a light gap, h<0.25mm;
when there is no light gap, h≥0.25mm

Code
4849-1

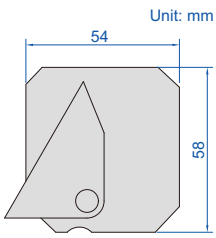
- Measure undercut
- Calibration block is included
- Made of stainless steel

WELDING GAGE

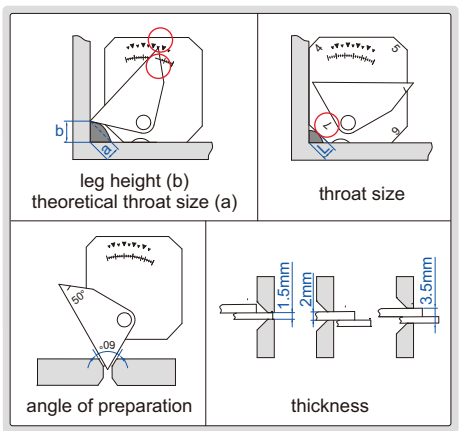
- Made of stainless steel



4850-1

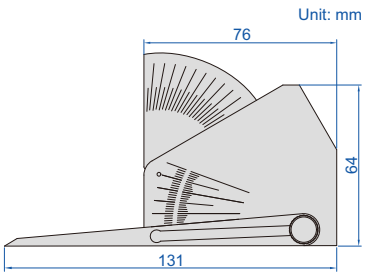


Code	Measurement	Range	Graduation	Accuracy
4850-1	leg height (b)	0-18mm	1mm	±0.5mm
	theoretical throat size (a)	2-12mm	1mm	±0.5mm
	throat size	4, 5, 6, 7mm	—	±0.5mm
	angle of preparation	50°, 60°	—	±1°
	thickness	1.5, 2, 3.5mm	—	±0.2mm



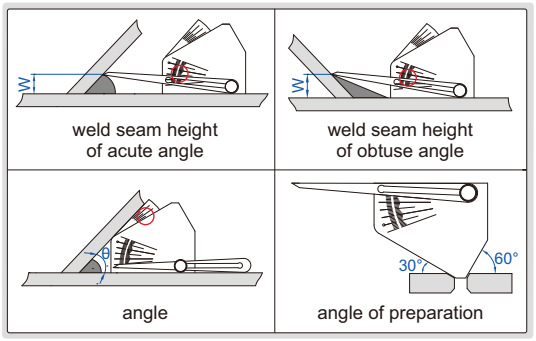
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FILLET WELDING GAGE



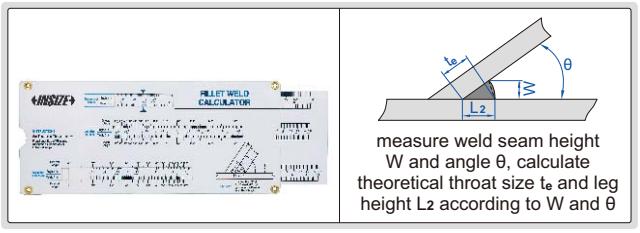


4846-1



- Calculating card is included
- Made of stainless steel

calculating card (included)

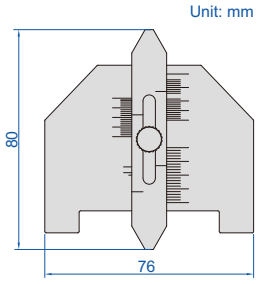


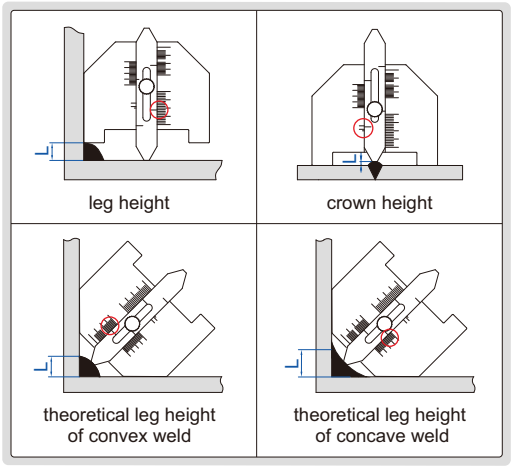
Code	Measurement	Range	Graduation	Accuracy
4846-1	weld seam height W	0-50mm/0-2"	2mm/0.05"	±1mm
	angle θ	30°-90°	2.5°	±1°
	60° angle	—	—	±0.5°

WELDING GAGE



4851-1

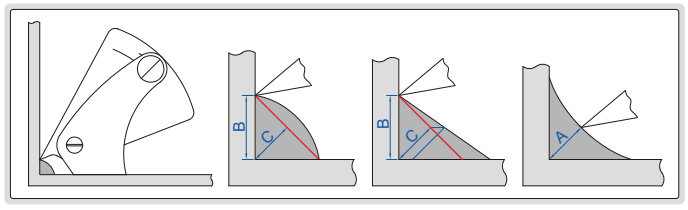




- Made of stainless steel

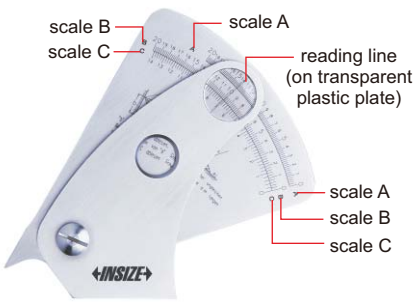
Code	Measurement	Range	Graduation	Accuracy
4851-1	leg height	0-20mm	1mm	±0.5mm
	crown height	0-3mm	—	±0.5mm
	theoretical leg height of convex weld	0-20mm	1mm	±0.5mm
	theoretical leg height of concave weld	0-20mm	1mm	±0.5mm

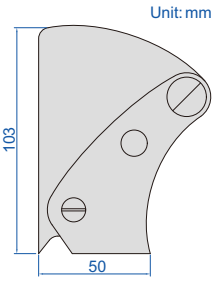
WELDING GAGE



Code	Graduation	Accuracy
4840-1	0.2mm	±0.3mm

- Made of stainless steel



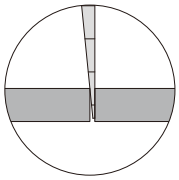


4840-1

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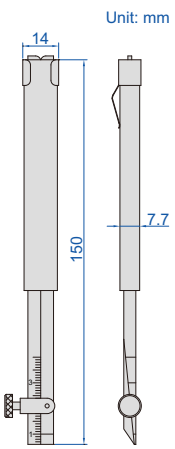
PIPE WELDING GAGE

- Made of stainless steel



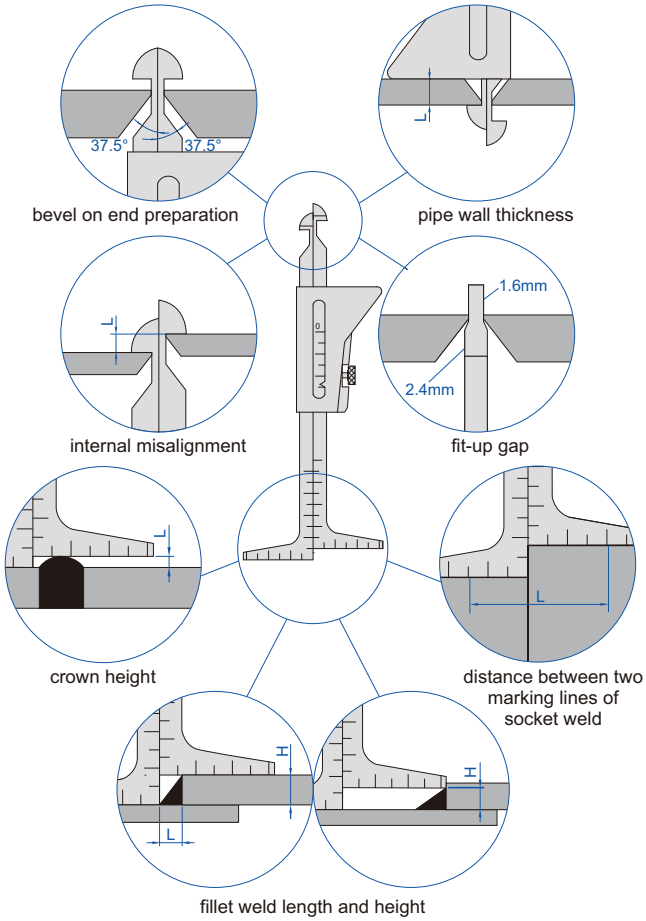


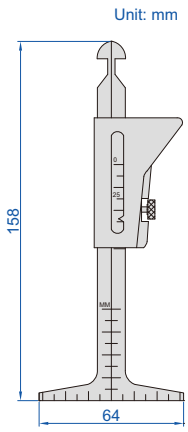
4841-1



Code	Measurement	Range	Graduation	Accuracy
4841-1	internal misalignment	0-30mm	1mm	±0.5mm
	fit-up gap	0.7-4mm	0.1mm	±0.1mm

PIPE WELDING GAGE







4839-1

- Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4839-1	bevel on end preparation	37.5°	—	±1°
	pipe wall thickness	0-45mm (0~1-3/4")	1mm (1/16")	±0.5mm
	internal misalignment	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm
	fit-up gap	1.6mm, 2.4mm	—	±0.1mm
	crown height	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm
	distance between two marking lines of socket weld	0-60mm (0~2-3/8")	1mm (1/16")	±0.5mm
	fillet weld length	0-30mm (0~1-1/4")	1mm (1/16")	±0.5mm
	fillet weld height	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm

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6-PIECE WELDING GAGE SET

- Includes:
  1) Welding gage (code **4834-1**)
  2) Fillet welding gage, size 3~25mm, 7 blades (code **4836-1**)
  3) Pipe welding gage (code **4841-1**)
  4) Telescoping inspection mirror, size of mirror Ø32mm, length 178~505mm (code **7160-1**)
  5) Pocket rule with sliding clip, range 150mm/6", graduation 1mm, 1/64" (code **7119-150**)
  6) LED flashlight (code **ISGF-0501**)



5064

Code
5064

7-PIECE WELDING GAGE SET

- Includes:
  1) Welding gage (code **4834-1**)
  2) Welding gage (code **4851-1**)
  3) Pipe welding gage (code **4839-1**)
  4) Outside micrometer, range 0-25mm, graduation 0.01mm (code **3203-25A**)
  5) Telescoping inspection mirror, size of mirror Ø32mm, length 178~505mm (code **7160-1**)
  6) Magnifier with illumination, magnification 4X (code **7513-4**)
  7) Steel rule, range 150mm/6", graduation 0.5mm, 1mm, 1/64", 1/32", 1/16" (code **7110-150**)



5071

Code
5071

7-PIECE WELDING GAGE SET

- Includes:
  1) Welding gage (code **4834-1**)
  2) Welding gage (code **4851-1**)
  3) Fillet welding gage, size 3~25mm, 7 blades (code **4836-1**)
  4) Outside micrometer, range 0-25mm, graduation 0.01mm (code **3203-25A**)
  5) Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.005" (code **1108-150**)
  6) Pocket rule with sliding clip, range 150mm/6", graduation 1mm, 1/64" (code **7119-150**)
  7) Magnifier with illumination, magnification 4X (code **7513-4**)

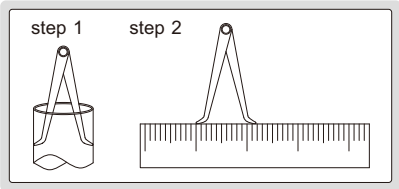


5072

Code
5072

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INSIDE CALIPERS

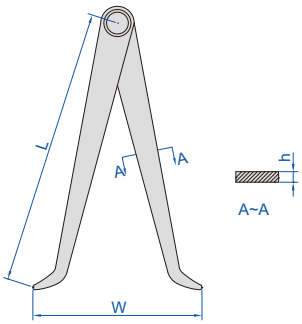


- Made of carbon steel

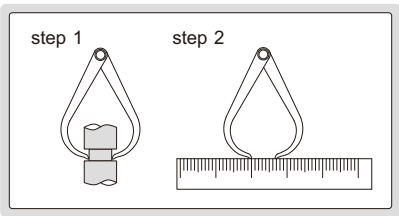
Code	Size (L)	Range (W)	h
7240-150	150mm	17-150mm	2mm
7240-200	200mm	17-200mm	3mm
7240-300	300mm	18-300mm	3mm

7240-150





OUTSIDE CALIPERS

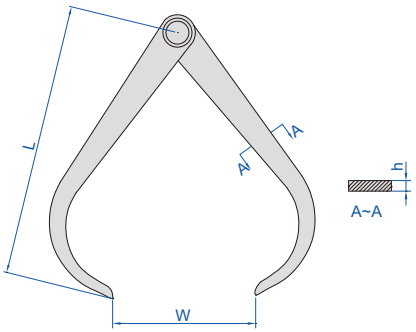


- Made of carbon steel

Code	Size (L)	Range (W)	h
7241-150	150mm	0-150mm	2mm
7241-200	200mm	0-200mm	3mm
7241-300	300mm	0-300mm	3mm

7241-150





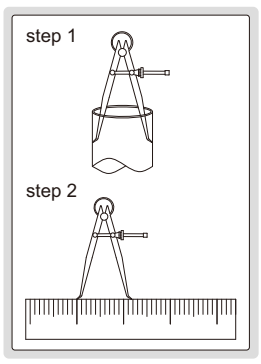
16

INSIDE SPRING CALIPERS

- Made of carbon steel

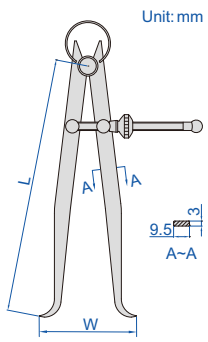


Code	Size (L)	Range (W)
7261-150	150mm	20-170mm
7261-200	200mm	22-220mm
7261-250	245mm	30-270mm
7261-300	300mm	30-320mm



7261-150



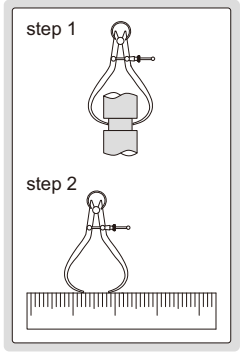


OUTSIDE SPRING CALIPERS

- Made of carbon steel

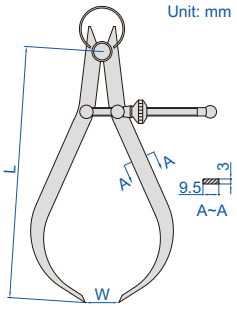


Code	Size (L)	Range (W)
7262-150	155mm	0-140mm
7262-200	210mm	0-210mm
7262-250	265mm	0-270mm
7262-300	310mm	0-320mm



7262-150



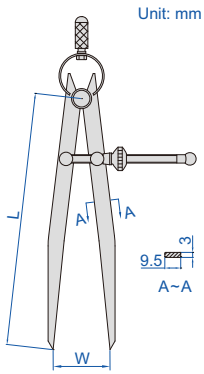


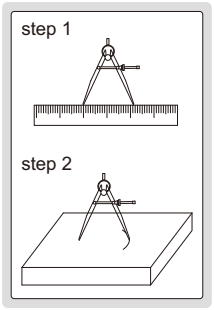
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SPRING DIVIDERS

- Made of carbon steel
- Hardened points







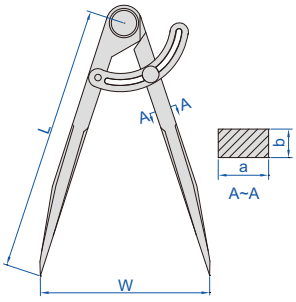
Code	Size (L)	Range (W)
7260-150	150mm	0-150mm
7260-200	200mm	0-210mm
7260-250	245mm	0-260mm
7260-300	300mm	0-320mm

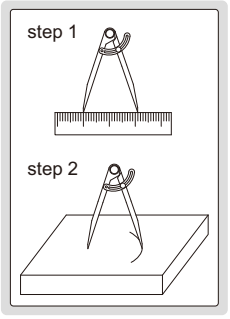
7260-150

DIVIDERS

- Made of carbon steel
- Hardened points







(mm)

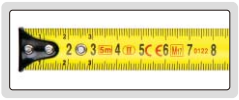
Code	Size (L)	Range (W)	a	b
7247-150	150mm	0-140mm	8.5	7
7247-200	200mm	0-190mm	10	7
7247-300	300mm	0-290mm	12	7

7247-150

MEASURING TAPES

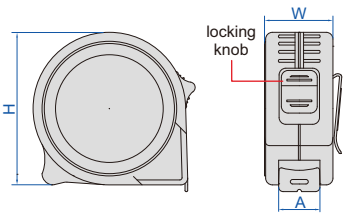
EG II

graduation





7140-5



- Non-glare nylon surface for wear resistance

Individual (1 pc per package)

Code	Range	Graduation	Width of tape A	W	H
7140-3	0-3m	1mm	16mm	28mm	62mm
7140-5	0-5m	1mm	19mm	30mm	68mm
7140-8	0-8m	1mm	25mm	38mm	78mm

Set (12 pcs per package)

Code	Range	Graduation	Width of tape A	W	H
7140-3A	0-3m	1mm	16mm	28mm	62mm
7140-5A	0-5m	1mm	19mm	30mm	68mm
7140-8A	0-8m	1mm	25mm	38mm	78mm

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EG II

MEASURING TAPES (BASIC TYPE)

- Non-glare nylon coating tape, wear resistance



7142-5

graduation

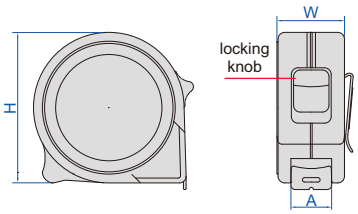


Individual (1 pc per package)

Code	Range	Graduation	Width of tape A	W	H
7142-5	0-5m/0-16ft	1mm, 1/16"	19mm	31mm	64mm

Set (12 pcs per package)

Code	Range	Graduation	Width of tape A	W	H
7142-5A	0-5m/0-16ft	1mm, 1/16"	19mm	31mm	64mm



BUILT-IN BLUETOOTH

BLUETOOTH DIGITAL MEASURING TAPES+LASER DISTANCE METERS

VIDEO



9563-C40

connect to phone (APP)



- Display with backlight
- Automatic power off: laser 30s, main unit 180s
- Can work continuously for 5 hours

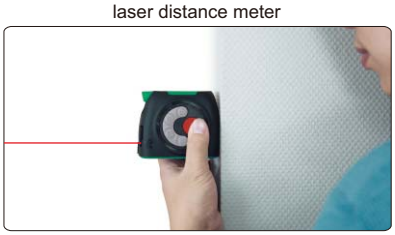
SPECIFICATION

Code		9563-C40	9563-C60
Digital measuring tape	range	5m	
	resolution	0.001m	
	accuracy	±1.5mm	
	blade width	19mm	
	horizontal stand-out	≥1.8m	
Laser distance meter	range	40m	60m
	resolution	0.001m	
	accuracy	±(3+D/20)mm, D: measured distance, unit: m	
	units	m, ft, in, ft+in	
	laser type	630~670nm, <1mW, class 2	
	measurement function	single, area, volume, pythagoras measurement	
Output		bluetooth	
Operation temperature		0~40°C	
Storage temperature		-10~60°C	
Power supply		built-in rechargeable lithium battery	
Dimension (L×W×H)		95×74×56mm	
Weight		313g	

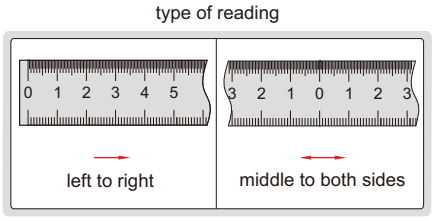
digital measuring tape



laser distance meter



SELF ADHESIVE MEASURING TAPES





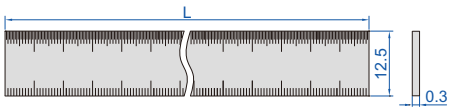
7139-50



- Self adhesive back
- Steel tape, non-glare coating, wear resistance

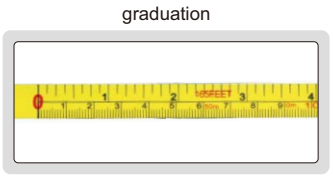
Code	Range (L)	Graduation	Accuracy	Type of reading
7139-50	50-0-50cm	1mm	±0.2mm	middle to both sides
7139-100	0-100cm	1mm	±0.4mm	left to right

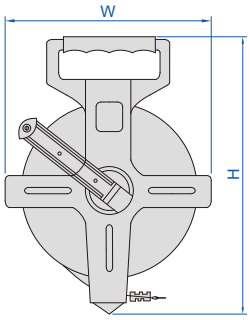
Unit: mm



LONG MEASURING TAPE

EG II







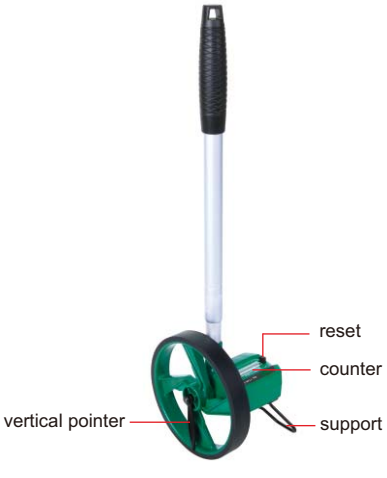
7143-50

- High tensile strength fibreglass tape
- Nylon coating tape, wear resistance

Code	Range	Graduation	Width of tape	W	H
7143-50	0-50m/0-165ft	1mm, 1/8"	13mm	220mm	320mm

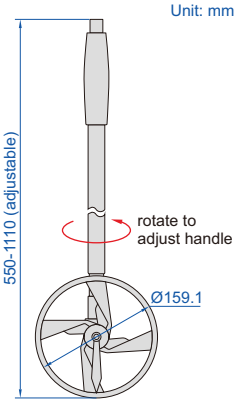
MEASURING WHEEL (BASIC TYPE)

- ABS plastic frame, wear-resistant PU tire
- Three-section adjustable handle



7144-1

Unit: mm



Code	Range	Resolution
7144-1	0.1-9999.9m	0.1m

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MEASURING WHEEL

- ABS plastic frame, wear-resistant PU tire
- Two-section foldable handle


after folding

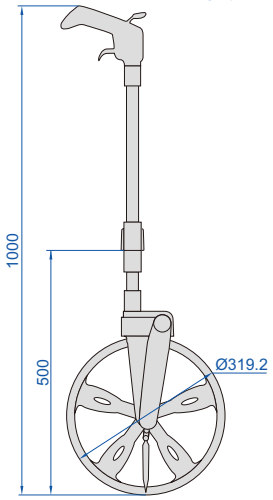


backpack (included)



7145-1

Unit: mm

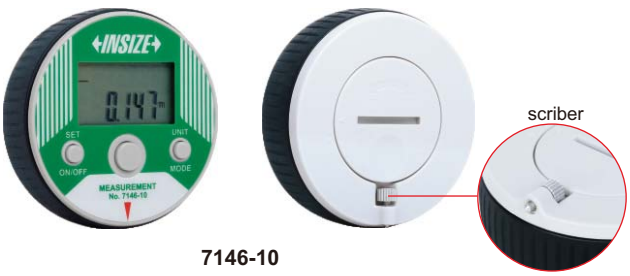


Code	Range	Resolution
7145-1	0.1-9999.9m	0.1m

DIGITAL MEASURING WHEEL

IP40 WATERPROOF

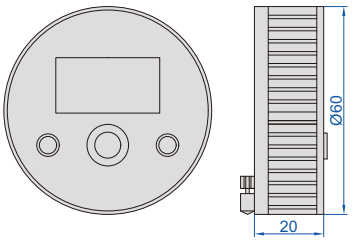
VIDEO



7146-10

- IP40 dust/waterproof
- Measuring length of curve
- Four measurement modes: length, rectangle area, diameter of circle, cube
- Resolution: 0.001m/0.01ft
- Button function: on/off, mm/inch, one or two sides set, measurement mode conversion, measurement
- Battery CR2032, automatic power off

Unit: mm



Code	Range	Accuracy
7146-10	0-10m/0-32.8ft	±0.3%L (L is the measured length)

RIGID RULE

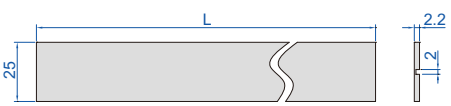
- Rigid rules
- With groove on the back, suitable for combination square set (**2278** series)
- Satin chrome plated



7113-300A


groove on the back

Unit: mm



Code	Range	Graduation		Accuracy	L
		front	back		
7113-300A	300mm/12"	0.5mm and 1/32"	1mm and 1/64"	±0.15mm	300mm

POCKET RULE WITH SLIDING CLIP

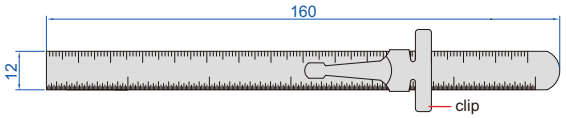


7119-150

- With sliding clip, clip can be inserted in the pocket, also can be used as depth gage base
- Inch/metric conversion table on the back
- Made of stainless steel

Code	Range	Graduation	Accuracy
7119-150	150mm/6"	1mm, 1/64"	±0.15mm

Unit: mm



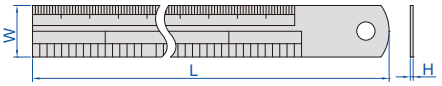
STEEL RULES

POPULAR MODEL



7110-300

- Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"
- Rigid rules
- Made of stainless steel
- Non-glare surface



Individual (1 pc per package) **(mm)**

Code	Range	Accuracy	L	W	H	Remark
7110-150	150mm/6"	±0.18mm	170	18	1.0	graduation on front and back
7110-200	200mm/8"	±0.18mm	220	18	1.0	graduation on front and back
7110-300	300mm/12"	±0.27mm	330	25	1.0	graduation on front and back
7110-3001	300mm/12"	±0.27mm	325	30	1.0	graduation on front and back
7110-500	500mm/20"	±0.27mm	530	30	1.2	graduation on front and back
7110-600	600mm/24"	±0.45mm	630	30	1.2	graduation on front and back
7110-1000	1000mm/40"	±0.45mm	1040	32	1.5	graduation on front and back
7110-1200	1200mm/48"	±0.63mm	1240	35	1.8	graduation on front
7110-1500	1500mm/60"	±0.63mm	1550	38	1.8	graduation on front
7110-2000	2000mm/80"	±0.80mm	2065	40	2.0	graduation on front

Set **(mm)**

Code	Range	Accuracy	L	W	H	Remark	Quantity per package
7110-150A	150mm/6"	±0.18mm	170	18	1.0	graduation on front and back	10 pcs
7110-200A	200mm/8"	±0.18mm	220	18	1.0	graduation on front and back	10 pcs
7110-300A	300mm/12"	±0.27mm	330	25	1.0	graduation on front and back	5 pcs
7110-3001A	300mm/12"	±0.27mm	325	30	1.0	graduation on front and back	5 pcs
7110-500A	500mm/20"	±0.27mm	530	30	1.2	graduation on front and back	5 pcs
7110-600A	600mm/24"	±0.45mm	630	30	1.2	graduation on front and back	5 pcs
7110-1000A	1000mm/40"	±0.45mm	1040	32	1.5	graduation on front and back	5 pcs
7110-1200A	1200mm/48"	±0.63mm	1240	35	1.8	graduation on front	5 pcs
7110-1500A	1500mm/60"	±0.63mm	1550	38	1.8	graduation on front	5 pcs
7110-2000A	2000mm/80"	±0.80mm	2065	40	2.0	graduation on front	5 pcs

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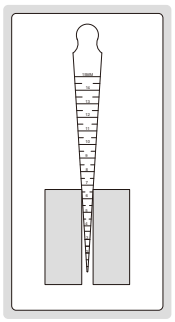
TAPER GAGE AND STEEL RULER SET



front back

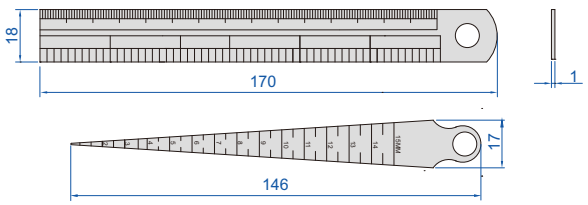
4829-1

use the taper gage to measure slot width

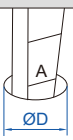


- Diameter correction table on the taper gage back
- Made of stainless steel

Unit: mm



use the taper gage to measure diameter of hole



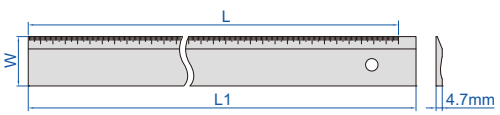
when measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. for example, when reading A is 14.96mm, diameter ØD is 15mm

Code	Tool	Range	Graduation	Accuracy
4829-1	taper gage	0.8-15mm	0.1mm	±0.05mm
	steel ruler	150mm/6"	1.0mm	±0.18mm

16

ALUMINUM RULES

- Made of aluminum, oxidized surface





7123-300

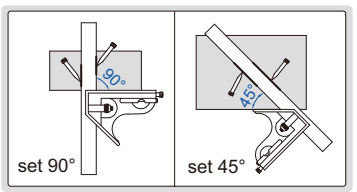
Code	Range (L)	Graduation	Accuracy	L1	W
7123-300	300mm	1mm	±0.5mm	321mm	50mm
7123-600	600mm	1mm	±0.9mm	624mm	50mm
7123-1000	1000mm	1mm	±0.9mm	1024mm	50mm

COMBINATION SQUARE (ECONOMIC TYPE)

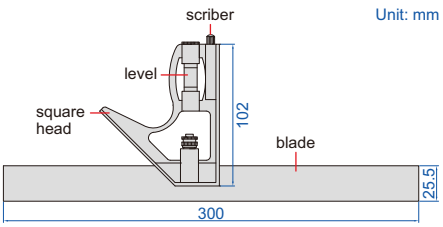
- Square head (made of zinc): set the blade at 90° or 45° to an edge of a workpiece accuracy: ±0.5°
- Blade (made of stainless steel): range: 300mm/12", graduation: 1mm and 1/32" on front face,1mm and 1/16" on back face



2276-300



Unit: mm



Code
2276-300

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COMBINATION SQUARE SETS (CLOSE TYPE PROTRACTOR)



2278-2

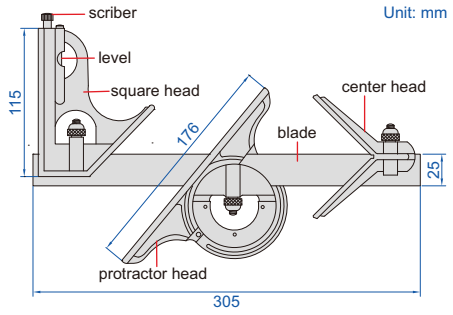


2278-3

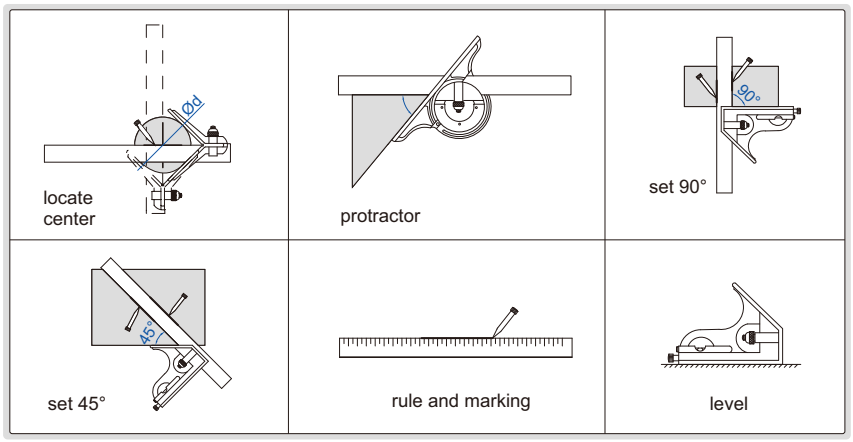


2278-180

- Center head (made of cast iron):
  to locate center of cylinders with diameter (Ød): 30-100mm
  accuracy: ±0.15mm
- Protractor head (made of cast iron):
  set the blade at desired angle to an edge of a workpiece,
  and can be used to measure angles
  range: 0-180°
  accuracy: ±20min.
- Square head (made of cast iron):
  set the blade at 90° or 45° to an edge of a workpiece
  accuracy: ±8min for 90° square,
  ±10min for 45° square
- Blade (made of stainless steel):
  range: 300mm/12",
  graduation: 0.5mm and 1/32" on front face,
  1mm and 1/64" on back face
- Optional accessory: rigid rule (code **7113**)

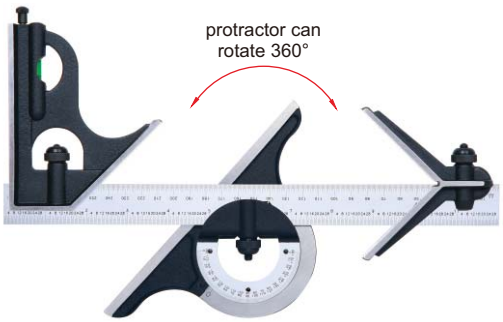


Code	Remark
2278-2	2-piece set
2278-3	3-piece set
2278-180	4-piece set

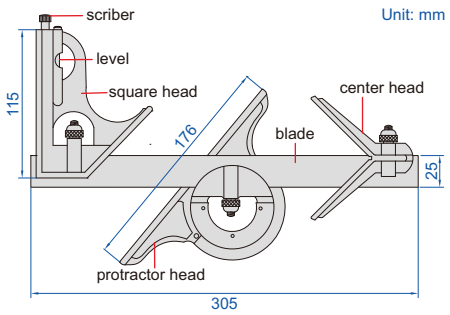


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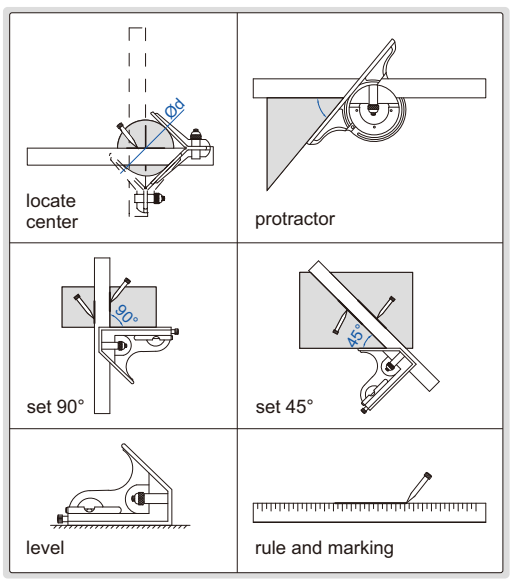
COMBINATION SQUARE SET (OPEN TYPE PROTRACTOR)



2274-4



- Center head (made of cast iron):
  to locate center of cylinders with diameter (Ød): 30-100mm
  accuracy: ±0.15mm
- Protractor head (made of cast iron):
  set the blade at desired angle to an edge of a workpiece, and can be used to measure angles
  range: 0-180°
  accuracy: ±20min
- Square head (made of cast iron):
  set the blade at 90° or 45° to an edge of a workpiece
  accuracy: ±8min for 90° square,
  ±10min for 45° square
- Blade (made of stainless steel):
  range: 300mm/12",
  graduation: 0.5mm and 1/32" on front face,
  1mm and 1/64" on back face
- Optional accessory: rigid rule (code **7113**)

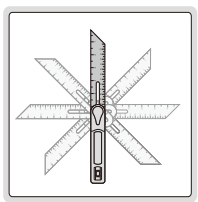


Code	Remark
2274-4	4-piece set

16

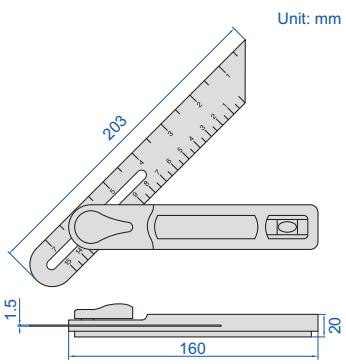
T-BEVEL

blade can rotate 360°

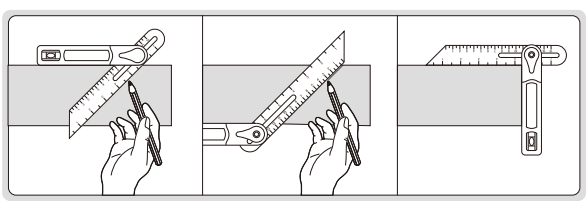




2281-360



- Easy-to-read vial
- The blade can move and can be locked by the clamping screw
- Stainless steel blade
- Tough rubber handle
- Centimeter/inch graduations



Code	Angle mark	Accuracy of angle
2281-360	15°, 30°, 45°, 60°, 90°	±1°

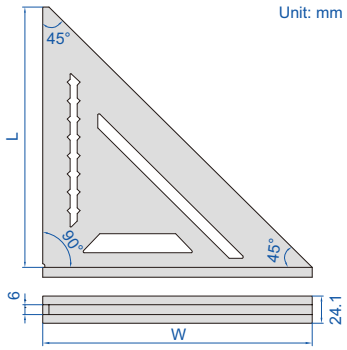
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PLASTIC ANGLE SQUARE

- Length range: 0-7", graduation: 1/8"
- Angel range: 0-90°, graduation: 1°



2282-180

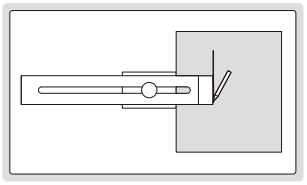


Code	Size (L×W)	Accuracy of angle
2282-180	180×185mm	±0.3°

MARKING GAGES

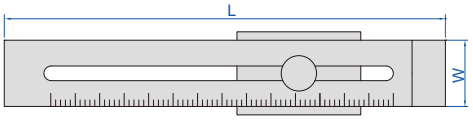


7120-200A

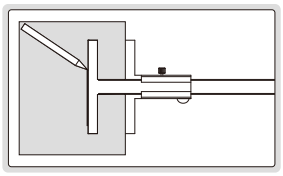


- Made of carbon steel
- Satin chrome plated

Code	Range	Graduation	Accuracy	L	W
7120-200A	0-200mm	0.1mm	±0.1mm	250mm	40mm
7120-250A	0-250mm	0.1mm	±0.1mm	300mm	40mm
7120-300A	0-300mm	0.1mm	±0.1mm	350mm	40mm

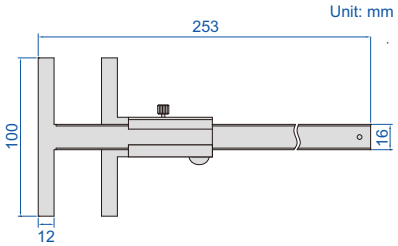


T-SHAPE MARKING GAGE





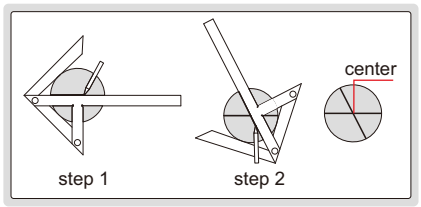
1275-150B



- Made of stainless steel
- Satin chrome plated reading surface

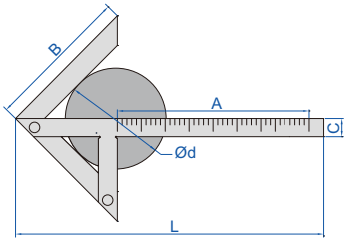
Code	Range	Graduation	Accuracy
1275-150B	0-150mm	0.02mm	±0.04mm

CENTER MARKING GAGES





7205-100



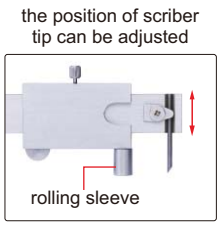
Code	Size (AxB)	Diameter of shafts (Ød)	Accuracy	C	L
7205-100	100x70mm	4-90mm	±0.15mm	12mm	153mm
7205-150	150x130mm	4-190mm	±0.15mm	15mm	245mm
7205-200	200x150mm	6-220mm	±0.15mm	15mm	310mm
7205-300	300×180mm	6-270mm	±0.15mm	20mm	435mm

- Marking the center of round plates and shafts
- Made of stainless steel
- Satin chrome plated

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SCRIBING CALIPER

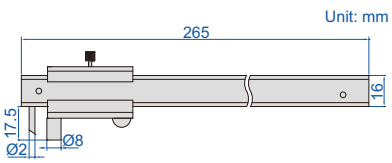
- Made of stainless steel
- Satin chrome plated reading surface
- Carbide scriber tip
- Optional accessory: carbide scriber tip (code **SP-SCRIBER-7202**)

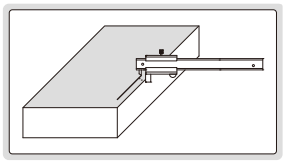




7202-200A

Code	Range	Graduation	Accuracy
7202-200A	0-200mm/0-8"	0.1mm, 1/128"	±0.1mm





DIGITAL SCRIBING CALIPERS

DATA OUTPUT

- Non waterproof
- The carbide-tipped jaws facilitate scribing on workpieces
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



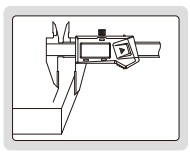
1166-150A

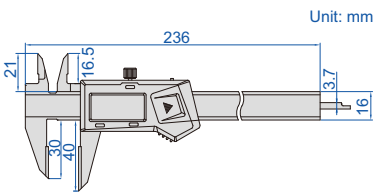
With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **optional)**

Code	Range	Accuracy
1166-150A	0-150mm/0-6"	±0.03mm

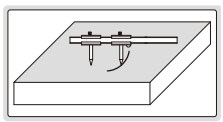
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1166-150AWL	0-150mm/0-6"	±0.03mm





SCRIBING CALIPER

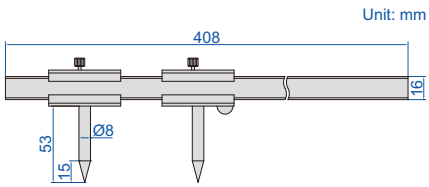




7203-300A

- Made of stainless steel
- Satin chrome plated reading surface
- Hardened scriber tips

Code	Range	Graduation	Accuracy
7203-300A	51-300mm	0.1mm	±0.1mm



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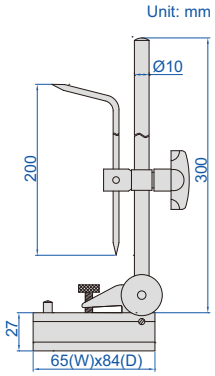
HEIGHT SCRIBER

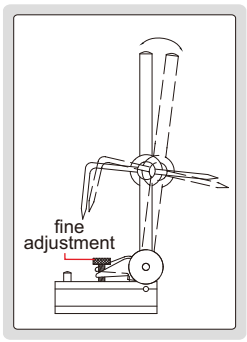
- Grooved bottom for cylinders
- Two pins to be set against the edge of surface plate

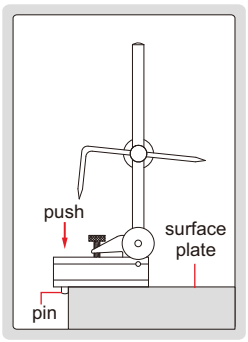
Code
6990-300A



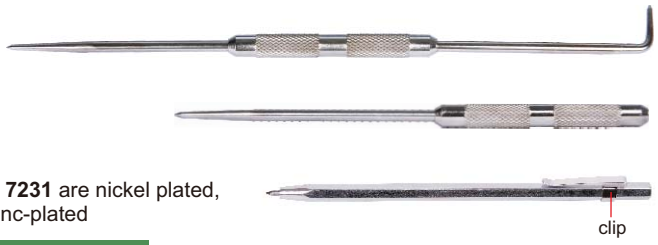
6990-300A





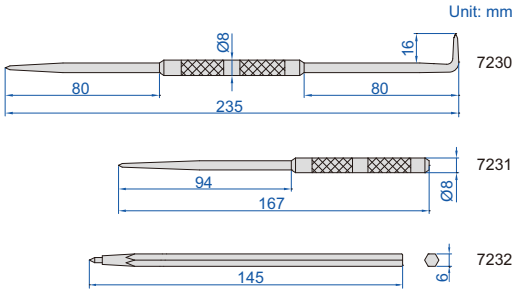


SCRIBERS



- **7230** and **7231** are nickel plated, **7232** is zinc-plated

Code	Tip
7230	hardened tips
7231	hardened tip
7232	carbide tip



PRECISION SCREWDRIVER SET CODE ISGF-0901

- Includes:
  4 pcs "–": 1.4mm, 2.0mm, 2.4mm, 3.0mm
  2 pcs "+": 0#, 1#
- Rotating cap
- Material: CRV, hardness: HRC52~56



ISGF-0901

packaging



LED FLASHLIGHT CODE ISGF-0501

- Toshiba high performance LED
- Powered by 3x AAA batteries (batteries are not included)
- Max output: 120 lumens
- Battery life: 4 hours
- Beam distance: 70 meters
- IP54 dust/waterproof



ISGF-0501

packaging



MEASURING TOOLS REPAIR TOOL SET

- For repairing of calipers, micrometers and indicators
- Including:
  1) Slotted screwdriver, 1.4×20mm
  2) Slotted screwdriver, 2.0×20mm
  3) Slotted screwdriver, 2.4×25mm
  4) Slotted screwdriver, 3.0×25mm
  5) Cross screwdriver, 0#×25mm
  6) Cross screwdriver, 1#×25mm
  7) Magnetizer and demagnetizer
  8) Pointed tweezer, 125mm
  9) Mini needle-nose pliers, 5"
  10) Extended flat head allen wrench, 1.5×80mm
  11) Extended flat head allen wrench, 2.5×94mm
  12) Extended flat head allen wrench, 3×92mm
  13) Needle puller, 3 pcs
  14) Copper hammer, 126g
  15) Copper rod, Ø10×60mm
  16) Dial face suction cup, Ø30mm
  17) Oil stone, 100×20×10mm
  18) Cleaning brush
  19) Micrometer wrench
  20) Three point inside micrometer rod wrench, 2 pcs
  21) Anti rust oil, 30ml
  22) Special anti rust oil for micrometers, 30ml
  23) Dust free cloth, 5 pcs

Code
7338-1



7338-1

2-PIECE MEASURING TOOL SETS

- Includes:
  1) Vernier caliper, range 0-150mm/0-6",
     graduation 0.05mm/1/128"
     (code **1205-150S**) for **5021**,
     graduation 0.02mm/0.001"
     (code **1205-1502S**) for **5021-2**
  2) Outside micrometer, range 0-25mm,
     graduation 0.01mm (code **3202-25A**)

Code	Remark
5021	vernier caliper, graduation 0.05mm/1/128" (code **1205-150S**)
5021-2	vernier caliper, graduation 0.02mm/0.001" (code **1205-1502S**)



5021

2-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6",
     resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5022**,
     without thumb roller (code **1108-150W**) for **5022-W**
  2) Digital outside micrometer,
     range 0-25mm/0-1",
     resolution 0.001mm/0.00005" (code **3109-25A**)

Code	Remark
5022	digital caliper, with thumb roller, code **1108-150**
5022-W	digital caliper, without thumb roller, code **1108-150W**



5022

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2-PIECE MEASURING TOOL SET

- Includes:
  1) Dial test indicator, range 0.8mm, graduation 0.01mm (code **2380-08**)
  2) Magnetic stand

Code
5023



5023

2-PIECE MEASURING TOOL SET

- Includes:
  1) Dial indicator, range 10mm, graduation 0.01mm (code **2308-10A**)
  2) Magnetic stand (code **6201-60**)

Code
5024



5024

3-PIECE MEASURING TOOL SET

- Includes:
  1) Digital indicator, range 12.7mm/0.5", resolution 0.01mm/0.0005" (code **2112-10**)
  2) Flex arm
  3) Locking pliers, adjustable jaw opening from 0 to 25mm

Code
5031





5031

3-PIECE MEASURING TOOL SET

- Includes:
  1) Vernier caliper, range 0-150mm graduation 0.02mm (code **1205-1501S**)
  2) Outside micrometer, range 0-25mm, graduation 0.01mm (code **3203-25A**)
  3) Steel rule, range 150mm/6", graduation 0.5mm, 1mm, 1/64", 1/32", 1/16" (code **7110-150**)
  4) Dust free gloves and dust free cloth

Code
5032

dust free gloves and dust free cloth





5032

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4-PIECE MEASURING TOOL SETS

- Includes:
  1) Vernier caliper, range 0-150mm/0-6",
     graduation 0.05mm/1/128" (code **1205-150S**) for **5041**,
     graduation 0.02mm/0.001" (code **1205-1502S**) for **5041-2**
  2) Outside micrometer, range 0-25mm,
     graduation 0.01mm (code **3202-25A**)
  3) 90° beveled edge square, 100x70mm,
     grade 0 (code **4790-1000**)
  4) Steel rule, 150mm/6" (code **7110-150**)

Code	Remark
5041	vernier caliper, graduation 0.05mm/1/128" (code **1205-150S**)
5041-2	vernier caliper, graduation 0.02mm/0.001" (code **1205-1502S**)



5041

4-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6",
     resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5042**,
     without thumb roller (code **1108-150W**) for **5042-W**
  2) Outside micrometer, range 0-25mm, graduation 0.01mm,
     (code **3202-25A**)
  3) 90° beveled edge square, 100x70mm, grade 0
     (code **4790-1000**)
  4) Steel rule, 150mm/6" (code **7110-150**)

Code	Remark
5042	digital caliper, with thumb roller, code **1108-150**
5042-W	digital caliper, without thumb roller, code **1108-150W**



5042

5-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6",
     resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5051**,
     without thumb roller (code **1108-150W**) for **5051-W**
  2) Outside micrometer, range 0-25mm, graduation 0.01mm
     (code **3203-25A**)
  3) Dial indicator, range 10mm,
     graduation 0.01mm (code **2308-10A**)
  4) Magnetic stand (code **6201-60**)
  5) Micrometer stand (code **6300**)

Code	Remark
5051	digital caliper, with thumb roller, code **1108-150**
5051-W	digital caliper, without thumb roller, code **1108-150W**



5051

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5-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6",
     resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5052**,
     without thumb roller (code **1108-150W**) for **5052-W**
  2) Digital outside micrometer, range 0-25mm/0-1",
     resolution 0.001mm/0.00005" (code **3109-25A**)
  3) Digital indicator, range 12.7mm/0.5",
     resolution 0.01mm/0.0005" (code **2112-10**)
  4) Magnetic stand (code **6201-60**)
  5) Micrometer stand (code **6300**)

Code	Remark
5052	digital caliper, with thumb roller, code **1108-150**
5052-W	digital caliper, without thumb roller, code **1108-150W**



5052

6-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6",
     resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5061**,
     without thumb roller (code **1108-150W**) for **5061-W**
  2) Outside micrometer, range 0-25mm,
     graduation 0.01mm (code **3202-25A**)
  3) Dial indicator, range 10mm, graduation 0.01mm
     (code **2308-10FA**)
  4) 90° beveled edge square, 100x70mm, grade 0
     (code **4790-1000**)
  5) Scriber (code **7230**)
  6) Steel rule, 150mm/6" (code **7110-150**)

Code	Remark
5061	digital caliper, with thumb roller, code **1108-150**
5061-W	digital caliper, without thumb roller, code **1108-150W**



5061

6-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6"
     resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5062**,
     without thumb roller (code **1108-150W**) for **5062-W**
  2) Outside micrometer, range 0-25mm
     graduation 0.01mm (code **3202-25A**)
  3) 90° beveled edge square, 100x70mm
     grade 00 (code **4790-0100**)
  4) Straight edge, 100mm (code **4700-100**)
  5) Spring divider, 150mm (code **7260-150**)
  6) Steel rule, 200mm/8" (code **7110-200**)

Code	Remark
5062	digital caliper, with thumb roller, code **1108-150**
5062-W	digital caliper, without thumb roller, code **1108-150W**



5062

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6-PIECE MEASURING TOOL SETS

- Includes:
  1) Vernier caliper, range 0-150mm/0-6",
     graduation 0.05mm/1/128" (code **1205-150S**) for **5063**,
     graduation 0.02mm/0.001" (code **1205-1502S**) for **5063-2**
  2) Outside micrometer, range 0-25mm
     graduation 0.01mm (code **3202-25A**)
  3) 90° beveled edge square, 100x70mm
     grade 00 (code **4790-0100**)
  4) Straight edge, 100mm (code **4700-100**)
  5) Spring divider, 150mm (code **7260-150**)
  6) Steel rule, 200mm/8" (code **7110-200**)

Code	Remark
5063	vernier caliper, graduation 0.05mm/1/128" (code **1205-150S**)
5063-2	vernier caliper, graduation 0.02mm/0.001" (code **1205-1502S**)



5063

9-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5091**,
     without thumb roller (code **1108-150W**) for **5091-W**
  2) Outside micrometer, range 0-25mm, graduation 0.01mm (code **3202-25A**)
  3) Protractor, range 0-180°, graduation 1° (code **4799-180**)
  4) Pitch gauge, range 0.25-7mm, 24pcs, metric 60° thread (code **4820-124**)
  5) Radius gauge, range 1-7mm (code **4801-17**)
  6) Feeler gauge, range 0.05-1.00mm, 20pcs (code **4602-20**)
  7) 90° beveled edge square, 100x70mm, grade 0 (code **4790-1000**)
  8) Scriber (code **7230**)
  9) Steel rule, 150mm/6" (code **7110-150**)

Code	Remark
5091	digital caliper, with thumb roller, code **1108-150**
5091-W	digital caliper, without thumb roller, code **1108-150W**



5091

13-PIECE MEASURING TOOL SETS

- Includes:
  1) Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.0005",
     with thumb roller (code **1108-150**) for **5013**,
     without thumb roller (code **1108-150W**) for **5013-W**
  2) Outside micrometer, range 0-25mm, graduation 0.01mm (code **3202-25A**)
  3) Dial indicator, range 10mm, graduation 0.01mm (code **2308-10A**)
  4) Magnetic stand (code **6201-60**)
  5) Protractor, range 0-180°, graduation 1° (code **4799-180**)
  6) Pitch gauge, range 0.25-7mm, 24pcs, metric 60° thread (code **4820-124**)
  7) Radius gauge, range 1-7mm (code **4801-17**)
  8) Feeler gauge, range 0.05-1.00mm, 20pcs (code **4602-20**)
  9) 90° beveled edge square, 100x70mm, grade 0 (code **4790-1000**)
  10) Scriber (code **7230**)
  11) Steel rule, 150mm/6" (code **7110-150**)
  12) Depth base attachment (code **6140**)
  13) Zero setting bar for depth base attachment

Code	Remark
5013	digital caliper, with thumb roller, code **1108-150**
5013-W	digital caliper, without thumb roller, code **1108-150W**



5013

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17 SET-UP TOOLS

INSIZE



Granite Surface Plates
Page 402



Jack Sets For Granite Surface Plates
Page 403



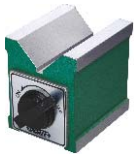
Stands For Granite Surface Plates
Page 403



Magnetic Rectangular Blocks
Page 404



V-blocks
Page 404-408



Magnetic V-blocks
Page 408-410



Magnetic Induction V-blocks
Page 410



Squares With V Groove
Page 411



Permanent Magnetic Chucks
Page 411



Parallels
Page 412-414



Parallel/Square Sets
Page 415



Magnetic Induction Parallel Sets
Page 415



Angle Plate Sets
Page 415-416



Adjustable Angle Blocks
Page 416

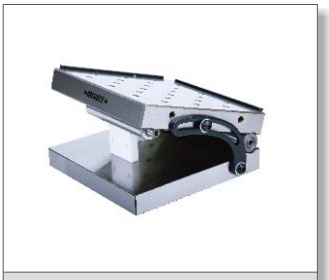


Right Angle Plates
Page 416-417



Sine Bars
Page 417-418

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Sine Tables
Page 418-419



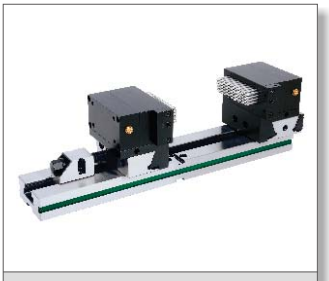
Precision Sine Vises
Page 419-420



Precision Universal Vises
Page 420



Precision Vises
Page 421



Anvil Vises
Page 421



Stages
Page 422-425

GRANITE SURFACE PLATES

INSPECTION CERTIFICATE

CUSTOM-MADE
SUPPLY SPECIAL SIZES ACCORDING TO CUSTOMER'S REQUEST

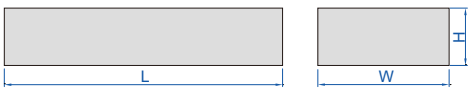
- Made of Indian granite, high hardness, free from deterioration or dimensional change over time, minimal changes in dimension due to temperature changes
- Meet DIN876, grade 00 is for inspection room or lab, grade 0 is for workshop
- Optional accessory:
  stand for granite surface plate (code **6902**),
  jack for granite surface plate (code **6903**)



6900-132

Grade 00

Code	Size (LxWxH)	Flatness	Weight	Max. load
6900-132*	300x200x60mm	2.7μm	11kg	30kg
6900-142*	400x250x60mm	2.9μm	18kg	50kg
6900-144*	400x400x60mm	3.1μm	29kg	60kg
6900-153*	500x315x70mm	3.2μm	33kg	60kg
6900-164*	630x400x80mm	3.5μm	60kg	65kg
6900-166*	630x630x100mm	3.8μm	119kg	75kg
6900-185*	800x500x100mm	3.9μm	120kg	100kg
6900-1106*	1000x630x140mm	4.4μm	265kg	200kg
6900-1107*	1000x750x150mm	4.5μm	337kg	300kg
6900-1101*	1000x1000x150mm	4.8μm	450kg	400kg
6900-1128*	1200x800x160mm	4.9μm	461kg	500kg
6900-1161*	1600x1000x180mm	5.8μm	864kg	600kg
6900-1201*	2000x1000x220mm	6.5μm	1320kg	650kg
6900-1202*	2000x1500x250mm	7.0μm	2250kg	750kg



Grade 0

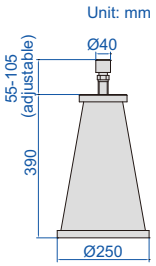
Code	Size (LxWxH)	Flatness	Weight	Max. load
6900-032*	300x200x60mm	5.4μm	11kg	60kg
6900-042*	400x250x60mm	5.9μm	18kg	100kg
6900-044*	400x400x60mm	6.3μm	29kg	120kg
6900-053*	500x315x70mm	6.4μm	33kg	120kg
6900-064*	630x400x80mm	7.0μm	60kg	130kg
6900-066*	630x630x100mm	7.6μm	119kg	150kg
6900-085*	800x500x100mm	7.8μm	120kg	200kg
6900-0106*	1000x630x140mm	8.7μm	265kg	400kg
6900-0107*	1000x750x150mm	9.0μm	337kg	600kg
6900-0101*	1000x1000x150mm	9.7μm	450kg	800kg
6900-0128*	1200x800x160mm	9.8μm	461kg	1000kg
6900-0161*	1600x1000x180mm	11.5μm	864kg	1200kg
6900-0201*	2000x1000x220mm	12.9μm	1320kg	1300kg
6900-0202*	2000x1500x250mm	14.0μm	2250kg	1500kg

*Supplied with manufacturer inspection certificate

JACK SET FOR GRANITE SURFACE PLATES

- 5 jacks per set
- Adjustable height
- For large granite surface plates:
  2000x1000x220mm
  (code **6900-0201** and **6900-1201**)
  2000x1500x250mm
  (code **6900-0202** and **6900-1202**)

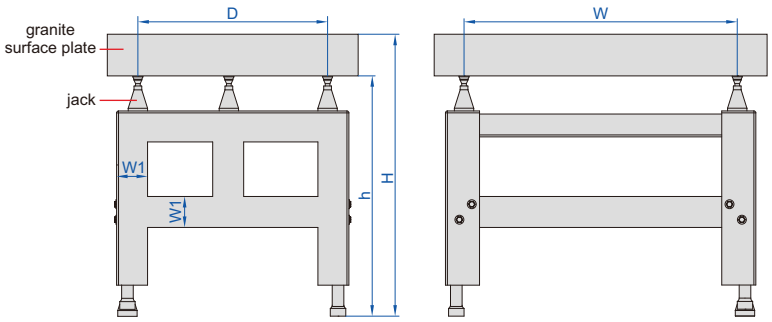




6903-B

Code
6903-B

STANDS FOR GRANITE SURFACE PLATES





6902-64A

- For medium size granite surface plates
- 5 jacks are included
- Adjusting range of jacks: 25mm
- One foot on the bottom is adjustable

Low stands **(mm)**

Code	For granite surface plate	W	D	H (with granite surface plate)	h (without granite surface plate)	W1
6902-64A	630x400x80mm (code **6900-064** and **6900-164**)	352	224	775-800	695-720	80
6902-66A	630x630x100mm (code **6900-066** and **6900-166**)	352	352	775-800	675-700	80
6902-85A	800x500x100mm (code **6900-085** and **6900-185**)	448	280	775-800	675-700	80
6902-106A	1000x630x140mm (code **6900-0106** and **6900-1106**)	560	352	755-780	615-640	80
6902-107A	1000x750x150mm (code **6900-0107** and **6900-1107**)	560	420	755-780	605-630	80
6902-101A	1000x1000x150mm (code **6900-0101** and **6900-1101**)	560	560	755-780	605-630	80
6902-128A	1200x800x160mm (code **6900-0128** and **6900-1128**)	672	448	755-780	595-620	80
6902-161A	1600x1000x180mm (code **6900-0161** and **6900-1161**)	896	560	755-780	575-600	80
6902-201A	2000×1000×220mm(code **6900-0201** and **6900-1201**)	1120	560	755-780	535-560	100
6902-202A	2000×1500×250mm(code **6900-0202** and **6900-1202**)	1120	840	755-780	505-530	100

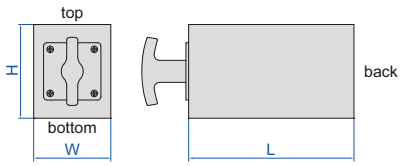
High stands **(mm)**

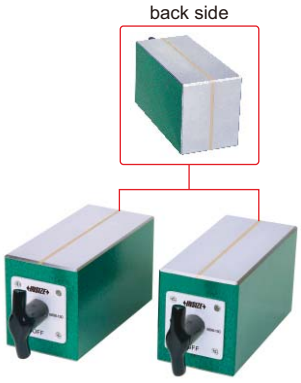
Code	For granite surface plate	W	D	H (with granite surface plate)	h (without granite surface plate)	W1
6902-64H	630x400x80mm (code **6900-064** and **6900-164**)	352	224	1000-1025	920-945	80
6902-66H	630x630x100mm (code **6900-066** and **6900-166**)	352	352	1000-1025	900-925	80
6902-85H	800x500x100mm (code **6900-085** and **6900-185**)	448	280	1000-1025	900-925	80
6902-106H	1000x630x140mm (code **6900-0106** and **6900-1106**)	560	352	1000-1025	860-885	80
6902-107H	1000x750x150mm (code **6900-0107** and **6900-1107**)	560	420	1000-1025	850-875	80
6902-101H	1000x1000x150mm (code **6900-0101** and **6900-1101**)	560	560	1000-1025	850-875	80
6902-128H	1200x800x160mm (code **6900-0128** and **6900-1128**)	672	448	1000-1025	840-865	80
6902-161H	1600x1000x180mm (code **6900-0161** and **6900-1161**)	896	560	1000-1025	820-845	80
6902-201H	2000×1000×220mm(code **6900-0201** and **6900-1201**)	1120	560	1000-1025	780-805	100
6902-202H	2000×1500×250mm(code **6900-0202** and **6900-1202**)	1120	840	1000-1025	750-775	100

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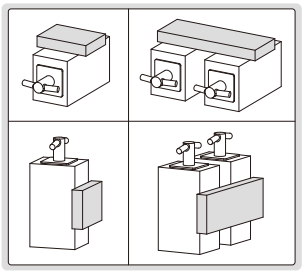
MAGNETIC RECTANGULAR BLOCKS

HARDENED SURFACES | HIGH PRECISION | STRONG MAGNETIC FORCE





6898-150



- For grinding, light milling, drilling and inspection of round and square jobs
- Hardened, high accuracy, strong magnetic force
- Working surfaces are hardened to HRC58-62
- Magnetic force on top, bottom and back sides
- Supplied in matched pair

Code	Size (LxWxH)	Magnetic force	Parallelism of top to bottom side	Squareness of top and bottom to back side	Height difference of a matched pair
6898-100	100x70x70mm	100kgf	5μm	5μm	5μm
6898-150	150x70x85mm	125kgf	5μm	5μm	5μm

17

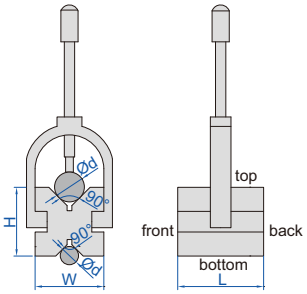
V-BLOCK SETS



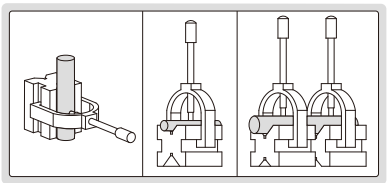
6896-10



6896-11



- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts (except **6896-10**)



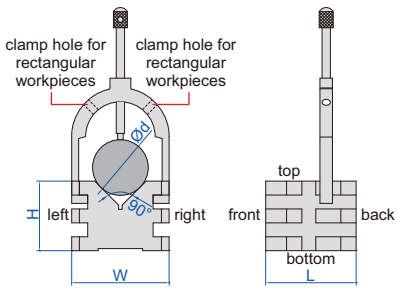
Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of both V grooves to top and bottom sides	Squareness of both V grooves to front and back sides	Height difference of a matched pair
6896-10	25x20x20mm	3-20mm	3μm	3μm	3μm
6896-11	50x40x40mm	5-30mm	5μm	5μm	5μm
6896-12	80x63x63mm	7-63mm	5μm	5μm	5μm
6896-13	100x80x80mm	7-80mm	5μm	5μm	5μm
6896-14	70x140x140mm	9-140mm	5μm	5μm	5μm

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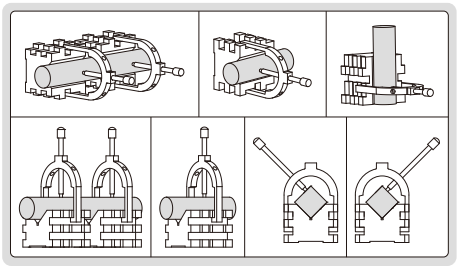
V-BLOCK SET

SIDE LIE-DOWN USE IS POSSIBLE





6802-1



- Hold cylindrical or rectangular workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- Applicable for cylinder with diameter (Ød): 5-50mm
- Applicable for rectangular workpieces with thickness: ≤35mm

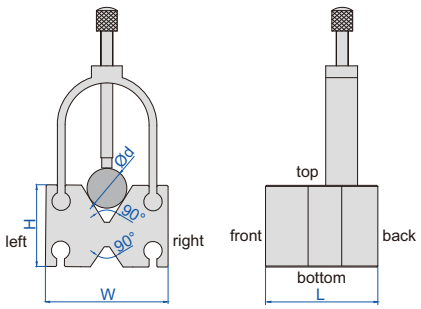
Code	Size (LxWxH)	Parallelism of V groove to top, bottom, left, right sides	Squareness of V groove to front and back sides	Height difference of a matched pair
6802-1	65x70x50mm	5μm	5μm	5μm

17

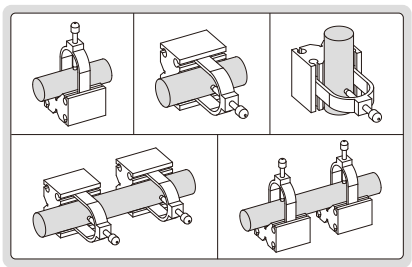
V-BLOCK SETS

SIDE LIE-DOWN USE IS POSSIBLE





6803-1



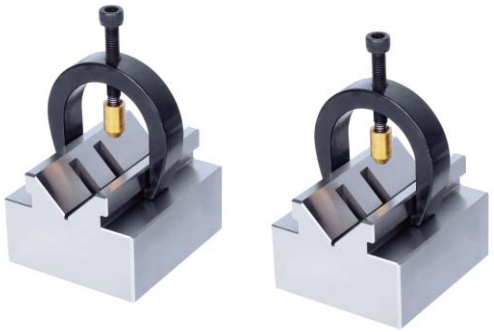
- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts

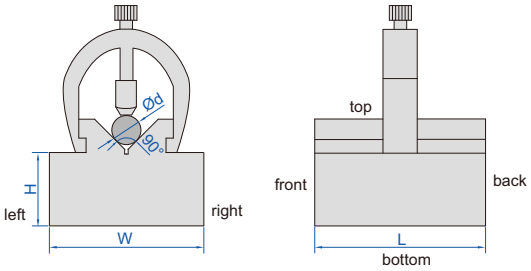
Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of both V grooves to top, bottom, left, right sides	Squareness of both V grooves to front and back sides	Height difference of a matched pair
6803-1	55x60x40mm	4-35mm	5μm	5μm	5μm
6803-2	65x70x45mm	4-47mm	5μm	5μm	5μm

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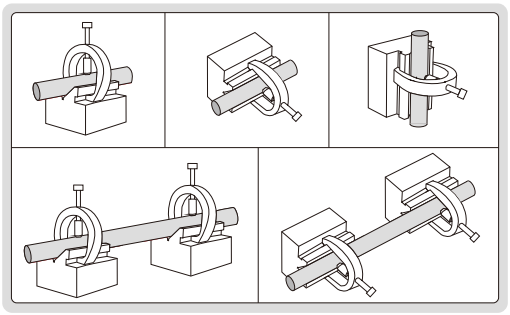
V-BLOCK SET

SIDE LIE-DOWN USE IS POSSIBLE





6806-20

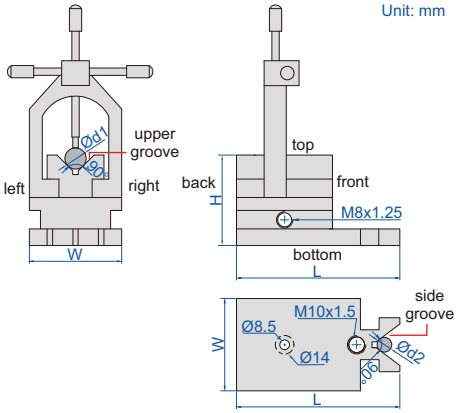


- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- Applicable for cylinder with diameter (Ød): 2-20mm

Code	Size (LxWxH)	Parallelism of V groove to bottom, left, right sides	Squareness of V groove to front and back sides	Height difference of a matched pair
6806-20	70x63x46mm	5μm	5μm	5μm

17

V-BLOCK





6804-M2



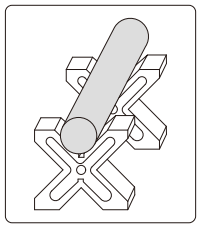


- Hold cylindrical workpieces for inspection and machining
- Made of alloy steel
- Hardened to HRC60±2

Code	Size (LxWxH)	Range of shafts (Ød1 and Ød2)	Parallelism of upper groove to bottom, left and right sides	Squareness of upper groove to back side	Parallelism of side groove to back side
6804-M2	90x48x48mm	5-33mm	5μm	5μm	5μm

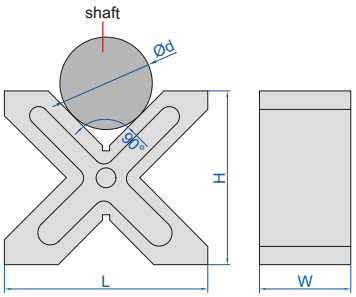
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V-BLOCK SETS





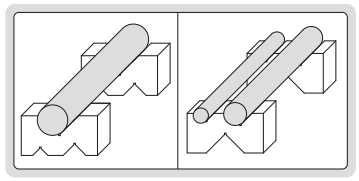
6805-2



- For positioning cylindrical workpieces
- Two V-blocks per set
- Each V-block has four 90° V-grooves
- Cast iron, hardness HB170-240

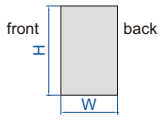
Code	Size (L×H×W)	Range of shafts (Ød)	Parallelism of four V grooves to all sides	Height difference of a matched pair
6805-1	150×130×75mm	8-120mm	15µm	20µm
6805-2	200×170×90mm	12-180mm	15µm	20µm

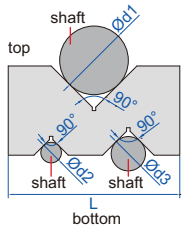
V-BLOCK SETS





6887-3



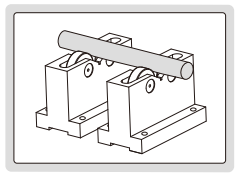


- Two V-blocks per set
- Made of hardened tool steel

Code	Size (LxWxH)	Range of shafts (Ød1)	Range of shafts (Ød2)	Range of shafts (Ød3)
6887-1	50x19x24mm	3-32mm	3-16mm	3-22mm
6887-2	75x24x35mm	3-50mm	3-20mm	3-32mm
6887-3	100x33x52mm	3-68mm	3-26mm	3-40mm
6887-4	125x44x69mm	3-87mm	3-34mm	3-50mm

Code	Parallelism of three V grooves to top and bottom sides	Height difference of a matched pair
6887-1	5µm	5µm
6887-2	5µm	5µm
6887-3	5µm	5µm
6887-4	5µm	5µm

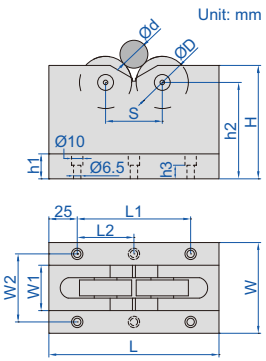
ROLLER BEARING V-BLOCK SETS





6888-1

Unit: mm



- Runout accuracy: 5µm
- Parallelism of bearings to bottom: 12µm
- Two V-blocks per set
- Workpieces don't get damaged due to bearings
- Suitable for heavy workpieces

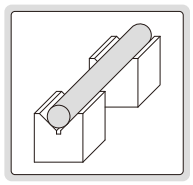
Code	Size (LxWxH)	Code of bearings	Diameter of bearings (ØD)	Range of shafts (Ød)	Load capacity
6888-1	150x60x100mm	16004 ZZ	42mm	25-70mm	500kg
6888-2	150x80x100mm	6303 ZZ	47mm	5-55mm	1000kg
6888-3	230x100x150mm	6306 ZZ	72mm	70-200mm	1000kg

(mm)

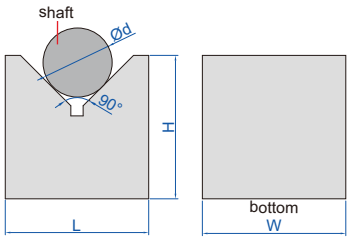
Code	W1	W2	h1	h2	h3	L1	L2	S
6888-1	22	44	20	85	12	100	–	60
6888-2	40	60	22	85	12	100	–	50
6888-3	60	80	30	124	20	180	90	120

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GRANITE V-BLOCK SETS







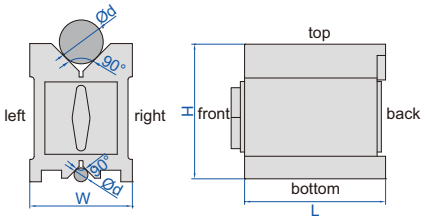
- Two V-blocks per set

6897-1

Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of V groove to bottom	Height difference of a matchet pair
6897-1	70x50x70mm	6-75mm	4μm	5μm
6897-2	100x50x70mm	6-84mm	4μm	5μm

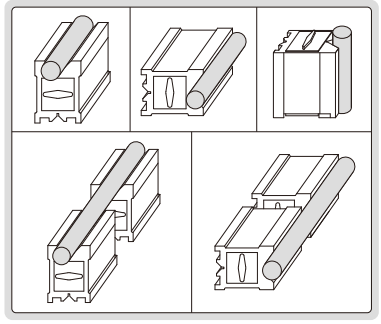
MAGNETIC V-BLOCKS (PROFESSIONAL TYPE)

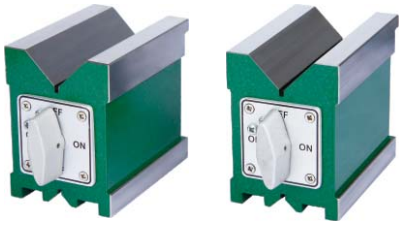
HARDENED SURFACES | HIGH PRECISION | STRONG MAGNETIC FORCE





6889-11





6889-1

- Hardened, high accuracy, strong magnetic force, for grinding, light milling, drilling and inspection of round and square workpieces
- All working surfaces are hardened to HRC60±2
- Magnetic force on top, bottom and two V grooves
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Suitable for cast iron surface plates and granite surface plates

Individual

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side
6889-11	75x56x75mm	5-40mm	85kgf	5μm	5μm
6889-22	100x70x95mm	5-65mm	150kgf	5μm	5μm
6889-33	150x75x100mm	5-70mm	190kgf	6μm	6μm
6889-55	160x125x130mm	5-140mm	220kgf	12μm	12μm
6889-44	200x125x150mm	10-140mm	400kgf	12μm	12μm

Matched pair

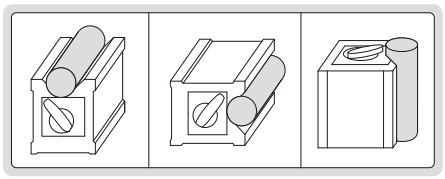
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side	Height difference of a matched pair
6889-1	75x56x75mm	5-40mm	85kgf	5μm	5μm	5μm
6889-2	100x70x95mm	5-65mm	150kgf	5μm	5μm	5μm
6889-3	150x75x100mm	5-70mm	190kgf	6μm	6μm	6μm
6889-5	160x125x130mm	5-140mm	220kgf	12μm	12μm	12μm
6889-4	200x125x150mm	10-140mm	400kgf	12μm	12μm	12μm

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ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACES, OTHERWISE THE MAGNETIC FORCE WILL BE REDUCED

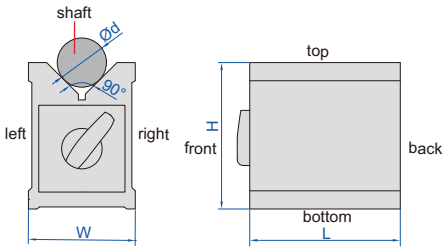
ATTENTION: NOT HARDENED

MAGNETIC V-BLOCK (ECONOMIC TYPE)





6890-702



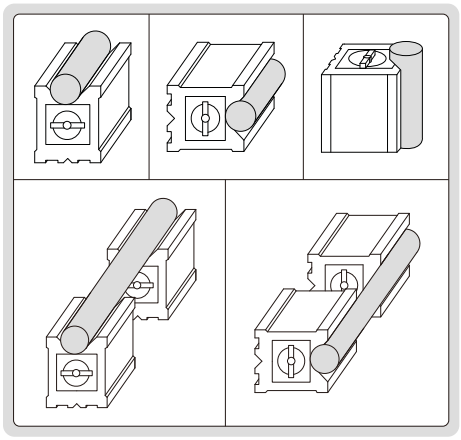
- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- Not suitable for steel or iron surfaces, otherwise the magnetic force will be reduced

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V groove to top, bottom, left and right sides	Squareness of V groove to back side
6890-702	70x60x73mm	6-44mm	56kgf	10µm	10µm

ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACES, OTHERWISE THE MAGNETIC FORCE WILL BE REDUCED

ATTENTION: NOT HARDENED

MAGNETIC V-BLOCKS (ECONOMIC TYPE)

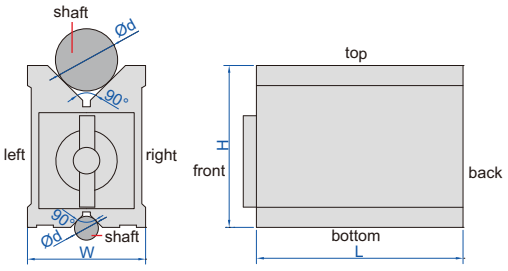




6801-1201



6801-1



- Hold cylindrical workpieces for inspection and machining
- Not hardened
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Not suitable for steel or iron surfaces, otherwise the magnetic force will be reduced

Individual

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right side	Squareness of V grooves to back side
6801-1201	80x70x95mm	6-67mm	64kgf	10µm	10µm
6801-1202	100x70x95mm	6-67mm	80kgf	10µm	10µm
6801-1203	120x70x95mm	6-67mm	96kgf	10µm	10µm

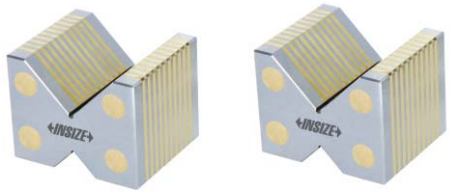
Matched pair

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right side	Squareness of V grooves to back side	Height difference of a matched pair
6801-1	80x70x95mm	6-67mm	64kgf	10µm	10µm	10µm
6801-2	100x70x95mm	6-67mm	80kgf	10µm	10µm	10µm
6801-3	120x70x95mm	6-67mm	96kgf	10µm	10µm	10µm

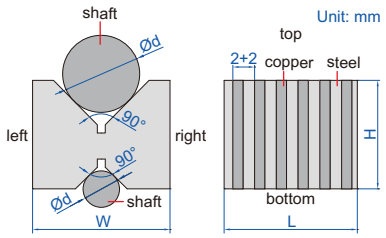
MAGNETIC INDUCTION V-BLOCK SET

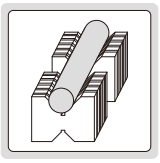
ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

- Hold cylindrical workpieces for inspection and machining
- To be used on magnetic chucks
- Two V-blocks per set
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Hardness HRB70
- Copper magnetic strips



6878-1

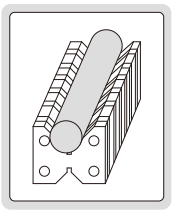




Code	Size (LxWxH)	Range of shafts (Ød)	Pole pitch	Parallelism of both V grooves to top and bottom sides	Height difference of a matched pair
6878-1	49x58x46mm	5-56mm	2+2mm	10µm	10µm

MAGNETIC INDUCTION V-BLOCK

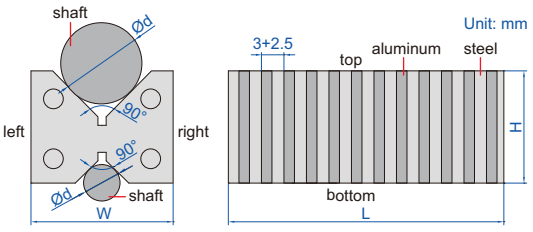
ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS



- Hold cylindrical workpieces for inspection and machining
- To be used on magnetic chucks
- Supplied in single piece
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Hardness HRB70



6892-1



Code	Size (LxWxH)	Range of shafts (Ød)	Pole pitch	Parallelism of both V grooves to top and bottom sides
6892-1	110x60x48mm	6-50mm	3+2.5mm	10µm

MAGNETIC V-BLOCK SETS

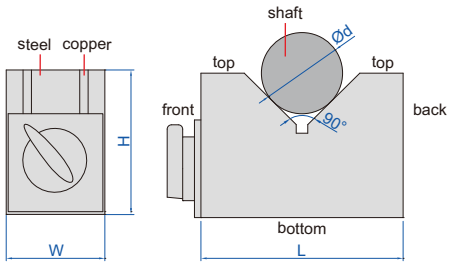
ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

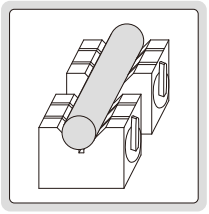
ATTENTION: LOW MAGNETIC FORCE

- Hold cylindrical workpieces for inspection, not suitable for machining due to low magnetic force
- Two V-blocks per set
- Hardness HRB70



6891-1





Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V groove to bottom and back sides	Height difference of a matched pair
6891-1	70x40x50mm	6-46mm	15kgf	10µm	10µm
6891-3	150x50x100mm	6-125mm	21kgf	10µm	10µm

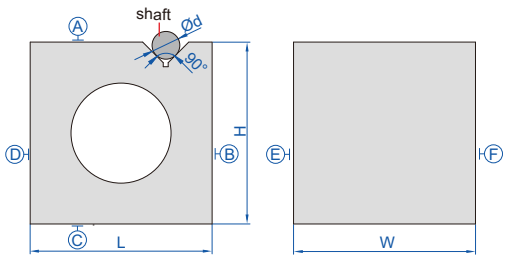
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GRANITE SQUARE WITH V GROOVE

- Parallelism and squareness of A, B, C, D, E and F: 6μm
- Parallelism and squareness of V groove to A, B, C, D, E and F: 6μm



4142-200



Code	Size (L×W×H)	Range of shaft (Ød)
4142-200	200×200×200mm	9~70mm

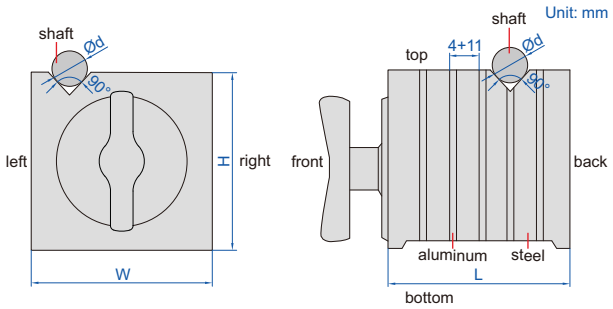
MAGNETIC SQUARE WITH V GROOVE

ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

- Hold flat and cylindrical workpieces for inspection and machining
- Magnetic force on top, left, right and V grooves
- Parallelism and squareness of top, bottom, left, right and back: 20μm
- Parallelism and squareness of V grooves to top, bottom, left, right and back: 20μm



6539-100



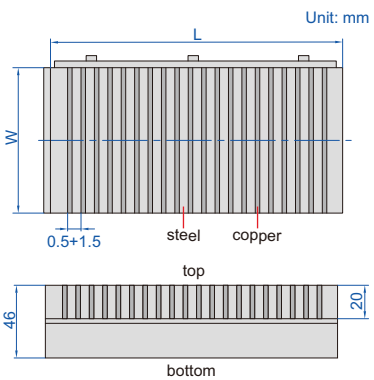
Code	Size (L×W×H)	Magnetic force of V grooves		Magnetic force of top, left and right sides		Range of shafts (Ød)
		on granite surface plate	on cast iron plate	on granite surface plate	on cast iron plate	
6539-100	100×100×100mm	30kgf	25kgf	50kgf	30kgf	5-30mm

PERMANENT MAGNETIC CHUCK

ATTENTION: NOT HARDENED



6537-400

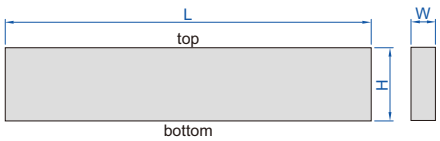


Code	Table size (L×W)	Magnetic force	Pole pitch	Parallelism of top to bottom
6537-400	400×200mm	8kgf/cm²	0.5+1.5mm	0.02mm/300mm

PARALLELS

- Made of alloy tool steel
- Hardened to HRC55-60
- Supplied in pair





6512-2210A

L=125mm	L=150mm	L=200mm			
Code	Code	Code	H×W	Parallelism between top and bottom	Height difference of a matched pair
6512-118	6512-1181	6512-1182	11×8mm	5μm	5μm
6512-168	6512-1681	6512-1682	16×8mm	5μm	5μm
6512-218	6512-2181	6512-2182	21×8mm	5μm	5μm
6512-268	6512-2681	6512-2682	26×8mm	5μm	5μm
6512-318	6512-3181	6512-3182	31×8mm	5μm	5μm
6512-368	6512-3681	6512-3682	36×8mm	5μm	5μm
6512-1310	6512-13101	6512-13102	13×10mm	5μm	5μm
6512-1810	6512-18101	6512-18102	18×10mm	5μm	5μm
6512-2310	6512-23101	6512-23102	23×10mm	5μm	5μm
6512-2810	6512-28101	6512-28102	28×10mm	5μm	5μm
6512-3310	6512-33101	6512-33102	33×10mm	5μm	5μm
6512-3810	6512-38101	6512-38102	38×10mm	5μm	5μm
6512-1512	6512-15121	6512-15122	15×12mm	5μm	5μm
6512-2012	6512-20121	6512-20122	20×12mm	5μm	5μm
6512-2512	6512-25121	6512-25122	25×12mm	5μm	5μm
6512-3012	6512-30121	6512-30122	30×12mm	5μm	5μm
6512-3512	6512-35121	6512-35122	35×12mm	5μm	5μm
6512-4012	6512-40121	6512-40122	40×12mm	5μm	5μm
6512-1714	6512-17141	6512-17142	17×14mm	5μm	5μm
6512-2214	6512-22141	6512-22142	22×14mm	5μm	5μm
6512-2714	6512-27141	6512-27142	27×14mm	5μm	5μm
6512-3214	6512-32141	6512-32142	32×14mm	5μm	5μm
6512-3714	6512-37141	6512-37142	37×14mm	5μm	5μm
6512-4214	6512-42141	6512-42142	42×14mm	5μm	5μm

L=100mm

Code	H×W	Parallelism between top and bottom	Height difference of a matched pair
6512-52	5×2mm	7μm	7μm
6512-102	10×2mm	5μm	5μm
6512-152	15×2mm	5μm	5μm
6512-202	20×2mm	5μm	5μm
6512-63	6×3mm	7μm	7μm
6512-113	11×3mm	5μm	5μm
6512-163	16×3mm	5μm	5μm
6512-213	21×3mm	5μm	5μm
6512-74	7×4mm	7μm	7μm
6512-124	12×4mm	5μm	5μm
6512-174	17×4mm	5μm	5μm
6512-224	22×4mm	5μm	5μm
6512-85	8×5mm	7μm	7μm
6512-135	13×5mm	5μm	5μm
6512-185	18×5mm	5μm	5μm
6512-235	23×5mm	5μm	5μm
6512-96	9×6mm	7μm	7μm
6512-146	14×6mm	5μm	5μm
6512-196	19×6mm	5μm	5μm
6512-246	24×6mm	5μm	5μm

L=150mm

Code	H×W	Parallelism between top and bottom	Height difference of a matched pair
6512-1410A	14×10mm	5μm	5μm
6512-1610A	16×10mm	5μm	5μm
6512-1810A	18×10mm	5μm	5μm
6512-2010A	20×10mm	5μm	5μm
6512-2210A	22×10mm	5μm	5μm
6512-2410A	24×10mm	5μm	5μm
6512-2610A	26×10mm	5μm	5μm
6512-2810A	28×10mm	5μm	5μm
6512-3010A	30×10mm	5μm	5μm
6512-3210A	32×10mm	5μm	5μm
6512-3510A	35×10mm	5μm	5μm
6512-4010A	40×10mm	5μm	5μm
6512-4510A	45×10mm	5μm	5μm
6512-5010A	50×10mm	5μm	5μm

To be continued

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Continued from previous page

L=160mm

Code	H×W	Parallelism between top and bottom	Height difference of a matched pair
6512-104A	10×4mm	5μm	5μm
6512-144A	14×4mm	5μm	5μm
6512-184A	18×4mm	5μm	5μm
6512-224A	22×4mm	5μm	5μm
6512-264A	26×4mm	5μm	5μm
6512-304A	30×4mm	5μm	5μm
6512-344A	34×4mm	5μm	5μm
6512-384A	38×4mm	5μm	5μm
6512-424A	42×4mm	5μm	5μm
6512-128A	12×8mm	5μm	5μm
6512-178A	17×8mm	5μm	5μm
6512-228A	22×8mm	5μm	5μm
6512-258A	25×8mm	5μm	5μm
6512-288A	28×8mm	5μm	5μm
6512-328A	32×8mm	5μm	5μm
6512-368A	36×8mm	5μm	5μm
6512-388A	38×8mm	5μm	5μm

L=200mm

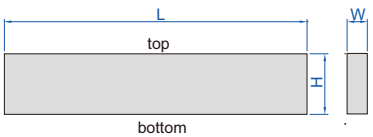
Code	H×W	Parallelism between top and bottom	Height difference of a matched pair
6512-178B	17×8mm	5μm	5μm
6512-228B	22×8mm	5μm	5μm
6512-268B	26×8mm	5μm	5μm
6512-288B	28×8mm	5μm	5μm
6512-328B	32×8mm	5μm	5μm
6512-368B	36×8mm	5μm	5μm
6512-388B	38×8mm	5μm	5μm
6512-428B	42×8mm	5μm	5μm

PARALLEL SETS

- Parallelism between top and bottom: 5μm
- Height difference of a matched pair: 5μm
- Made of alloy tool steel
- Hardened to HRC55-60

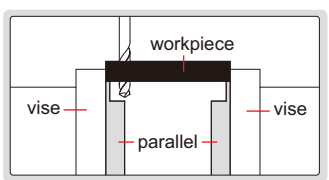


6533-144



Code	Parallels per set	Length (L)	Thickness (W)	Height (H)
6533-6	6 pairs	200mm	9.5mm	35, 40, 45, 50, 55, 58mm
6533-8	8 pairs	160mm	8mm	12, 17, 22, 25, 28, 32, 36, 38mm
6533-81	8 pairs	200mm	8mm	17, 22, 26, 28, 32, 36, 38, 42mm
6533-9	9 pairs	160mm	4mm	10, 14, 18, 22, 26, 30, 34, 38, 42mm
6533-10	10 pairs	150mm	3mm	13, 16, 19, 22, 25, 28, 31, 35, 38, 41mm
6533-144	14 pairs	150mm	10mm	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm

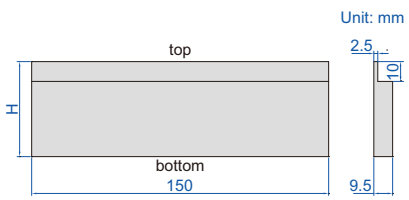
PARALLEL SET



- Parallelism between top and bottom: 5μm
- Height difference of a matched pair: 5μm
- Made of alloy tool steel
- Hardened to HRC55-60



6534-6



Code	Parallels per set	Height (H)
6534-6	6 pairs	25, 30, 35, 40, 45, 48mm

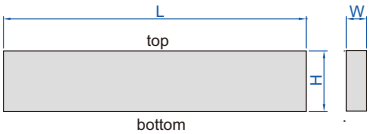
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PARALLEL SETS



6511-20

- Parallelism between top and bottom: 5μm
- Height difference of a matched pair: 5μm
- Made of alloy tool steel
- Hardened to HRC55-60



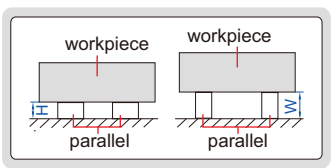
Code	Parallels per set	Length (L)	Height (H)×Thickness (W)
6511-20	20 pairs	100mm	5×2*, 10×2, 15×2, 20×2, 6×3*, 11×3, 16×3, 21×3, 7×4*, 12×4, 17×4, 22×4, 8×5*, 13×5, 18×5, 23×5, 9×6*, 14×6, 19×6, 24×6mm
6511-24	24 pairs	125mm	11×8, 16×8, 21×8, 26×8, 31×8, 36×8, 13×10, 18×10, 23×10, 28×10, 33×10, 38×10, 15×12, 20×12, 25×12, 30×12, 35×12, 40×12, 17×14, 22×14, 27×14, 32×14, 37×14, 42×14mm
6511-241	24 pairs	150mm	11×8, 16×8, 21×8, 26×8, 31×8, 36×8, 13×10, 18×10, 23×10, 28×10, 33×10, 38×10, 15×12, 20×12, 25×12, 30×12, 35×12, 40×12, 17×14, 22×14, 27×14, 32×14, 37×14, 42×14mm

*Parallelism between top and bottom and height difference of a matched pair of 5×2mm, 6×3mm, 7×4mm, 8×5mm and 9×6mm in **6511-20** is 7μm

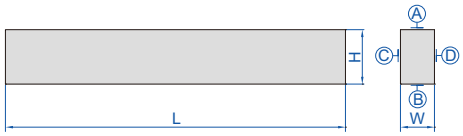
GRANITE PARALLEL SET



4143-250



- Made of granite, hard and no rusty, no dimensional change over time or temperature change
- Two parallels per set



Code	Size (LxWxH)	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
4143-250	250x25x40mm	3μm	3μm	3μm

PARALLEL/SQUARE SET

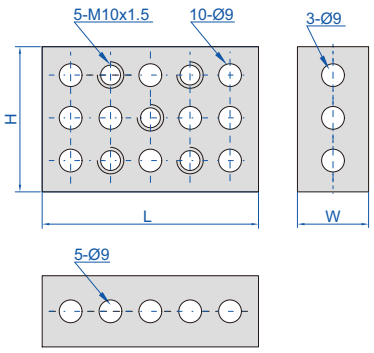
screws and wrench are included





6531-25

Unit: mm

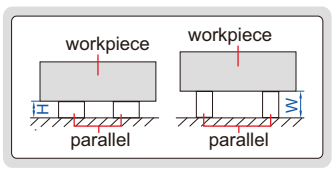


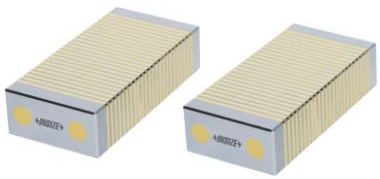
- Pairs of matched blocks for positioning and set-up
- Screws and wrench are included
- Hardness HRC 55-62

Code	Size (L×H×W)	Size accuracy	Squareness	Parallelism	Height difference of a matched pair
6531-25	75×50×25mm	10μm	7μm/25mm	10μm	10μm

MAGNETIC INDUCTION PARALLEL SET

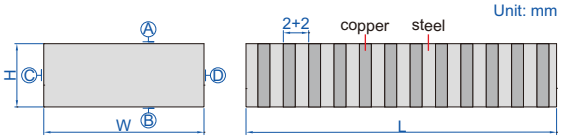
ATTENTION: NOT HARDENED





6879-1

Unit: mm

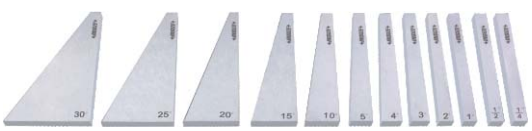


- To be used on magnetic chucks
- Two parallels per set
- Hardness HRB70
- Copper magnetic strips

Code	Size (LxWxH)	Pole pitch	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
6879-1	100x50x25mm	2+2mm	10μm	10μm	10μm

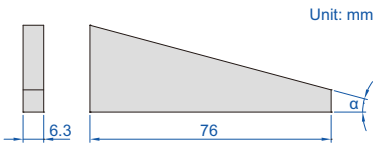
ANGLE PLATE SETS

- For angle set-up in tooling, production and inspection
- Hardness HRC52



4006-12

Unit: mm

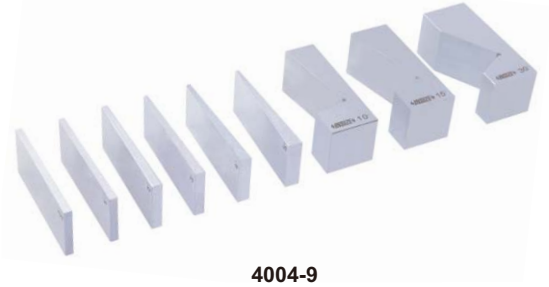


Code	Angle plates included	Angle α	Accuracy
4006-10	10 pcs	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±20 seconds
4006-12	12 pcs	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±20 seconds

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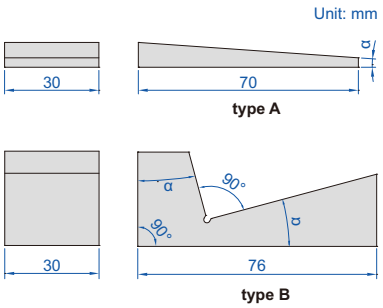
ANGLE PLATE SET

- For angle set-up in tooling, production and inspection
- Made of tool steel
- Hardness HRC55



4004-9

Unit: mm



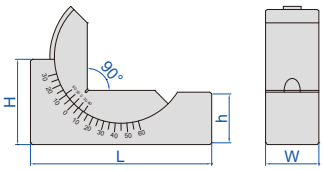
Code	Angle plates included	Angle α	Type	Accuracy
4004-9	9 pcs	1/2°, 1°, 2°, 3°, 4°, 5°	type A	±30 seconds
		10°, 15°, 30°	type B	±50 seconds

ADJUSTABLE ANGLE BLOCKS

- Made of hardened tool steel
- With locking screw
- Accuracy of angle: 10 minutes

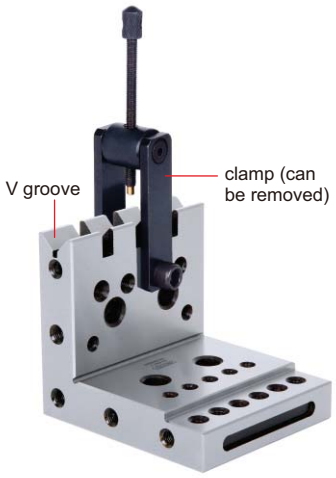


6535-30



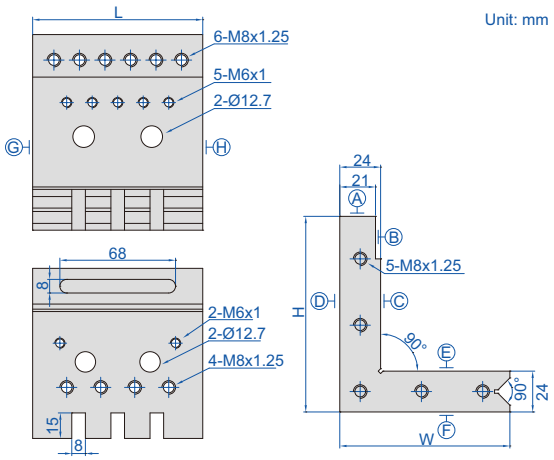
Code	Size (LxWxH)	h	Adjustable angle	Graduation of angle
6535-25	75x25x36mm	25mm	30°~0°~60°	10 minutes
6535-30	102x30x49mm	30mm	30°~0°~60°	10 minutes

RIGHT ANGLE PLATE



6547-1

Unit: mm



- Made of alloy steel
- Hardened to HRC60±2
- V groove for cylinders
- Parallelism and squareness between A, B, C, D, E, F, G and H: 10μm
- Parallelism and squareness of V groove to A, B, C, D, E, F, G and H: 10μm

Code	Size (LxWxH)
6547-1	100x100x115mm

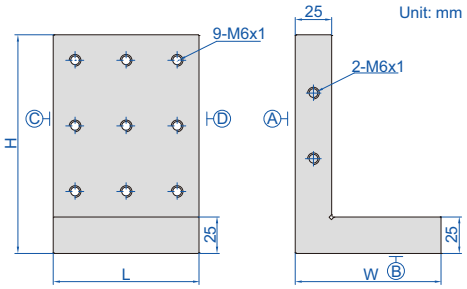
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RIGHT ANGLE PLATE

- Made of tool steel
- Hardened to HRC60±2
- Squareness or parallelism between A, B, C and D: 5μm



6548-1



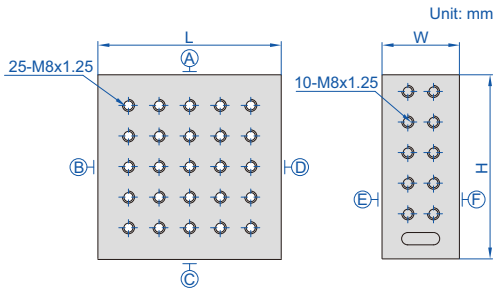
Code	Size (LxWxH)
6548-1	100x100x150mm

RIGHT ANGLE PLATE

- Made of tool steel
- Hardened to HRC56-58
- Parallelism between A, B, C, D, E and F: 3μm
- Squareness between A, B, C, D, E and F: 5μm



6549-1



Code	Size (LxWxH)
6549-1	150x63x150mm

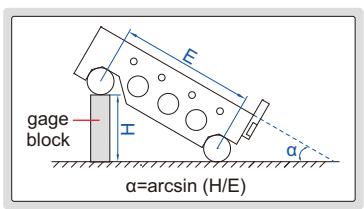
17

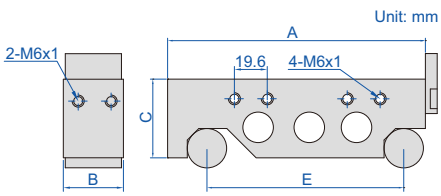
CAN BE CUSTOMIZED

SINE BARS



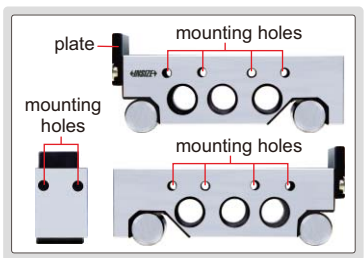
4155-100





- Made of alloy tool steel

the front and back ends and two sides have mounting holes to install plate



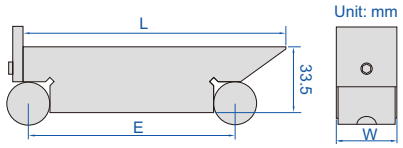
Code	Roller distance (E)	Table size (AxB)	C	Accuracy of α at 30°
4155-100	100mm	130x30mm	40mm	±5 seconds
4155-200	200mm	230x30mm	40mm	±5 seconds
4155-300	300mm	345x40mm	50mm	±8 seconds

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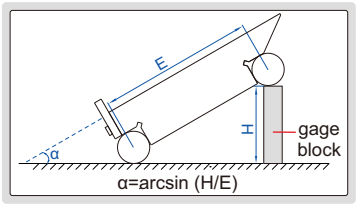
SINE BAR



4158-100



- Made of alloy tool steel

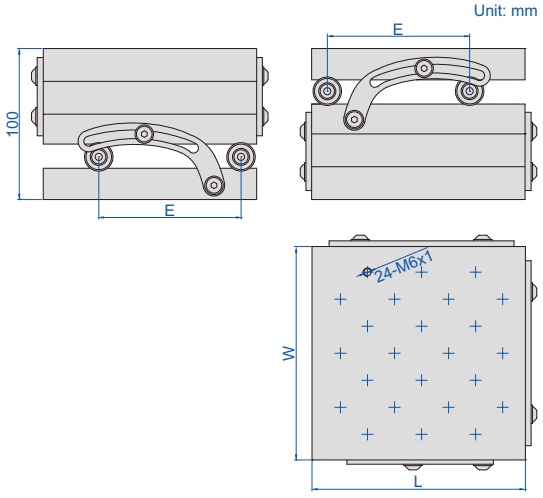


Code	Roller distance (E)	Table size (LxW)	Accuracy of α at 30°
4158-100	100mm	130x30mm	±5 seconds

COMPOUND SINE TABLE



6536-100



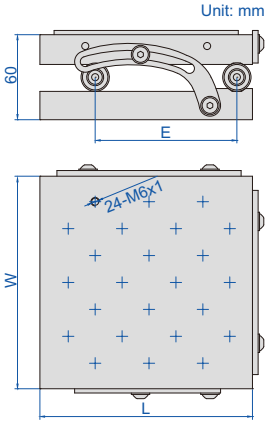
- Accuracy of angle: ±15 seconds
- Made of alloy tool steel
- Hardness HRC58-60

Code	Roller distance (E)	Table size (LxW)	Adjustable angle
6536-100	100mm	150x150mm	0-60°

SINE TABLE



6527-100

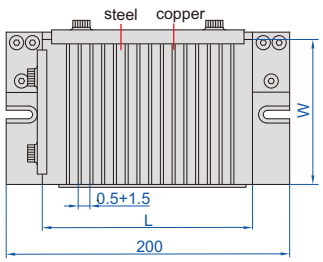


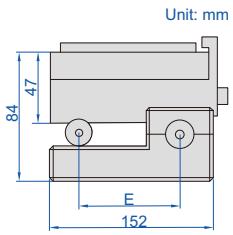
- Accuracy of angle: ±15 seconds
- Made of alloy tool steel
- Hardness HRC58-60

Code	Roller distance (E)	Table size (LxW)	Adjustable angle
6527-100	100mm	150x150mm	0-60°

MAGNETIC SINE TABLE

ATTENTION:
NOT HARDENED



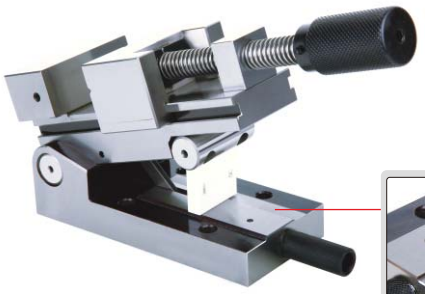




6538-100

Code	Table size (L×W)	Roller distance (E)	Adjustable angle	Accuracy of angle
6538-100	150×150mm	100mm	0-60°	±15 seconds

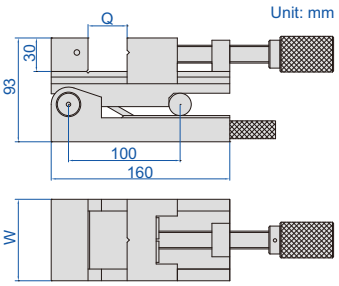
PRECISION SINE VISE



6522-80

there is a 1mm step (accuracy +/-0.002mm). gage blocks smaller than 0.5mm are not available. if small gage blocks are needed (for example, 0.25mm), a gage block 1.25mm can be used in order to make 1.25mm-1mm=0.25mm





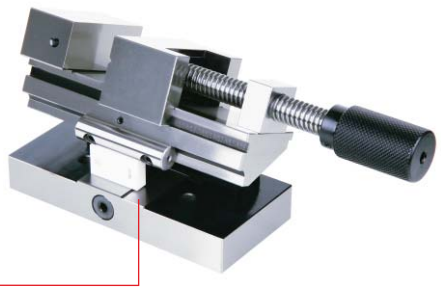
- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±15 seconds
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60

Code	Jaw opening (Q)	Jaw width (W)	Adjustable angle
6522-80	0-80mm	73mm	0-46°

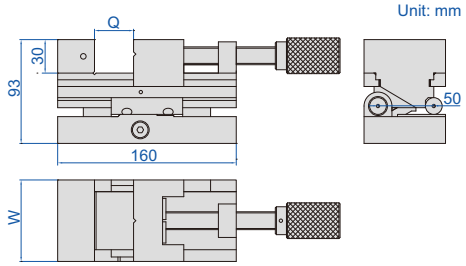
PRECISION SINE VISE

there is a 1mm step (accuracy +/-0.002mm). gage blocks smaller than 0.5mm are not available. if small gage blocks are needed (for example, 0.25mm), a gage block 1.25mm can be used in order to make 1.25mm-1mm=0.25mm





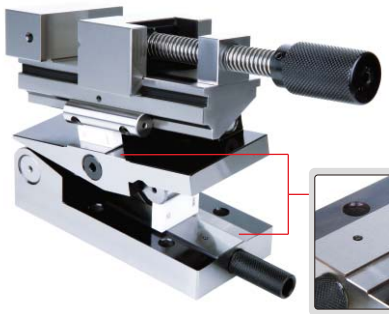
6523-80



- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±15 seconds
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60

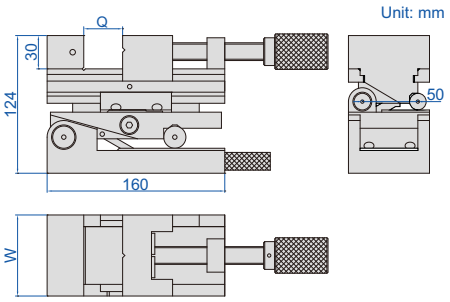
Code	Jaw opening (Q)	Jaw width (W)	Adjustable angle
6523-80	0-80mm	73mm	0-46°

PRECISION COMPOUND SINE VISE



there is a 1mm step (accuracy +/-0.002mm). gage blocks smaller than 0.5mm are not available. if small gage blocks are needed (for example, 0.25mm), a gage block 1.25mm can be used in order to make 1.25mm-1mm=0.25mm





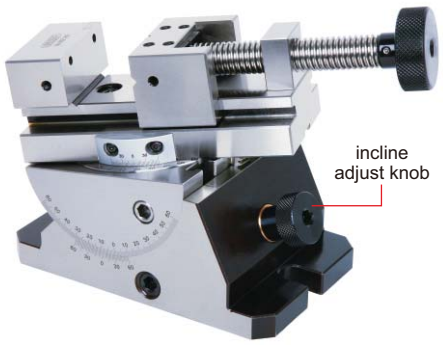
6524-80

Code	Jaw opening (Q)	Jaw width (W)	Adjustable angle
6524-80	0-80mm	73mm	0-46°

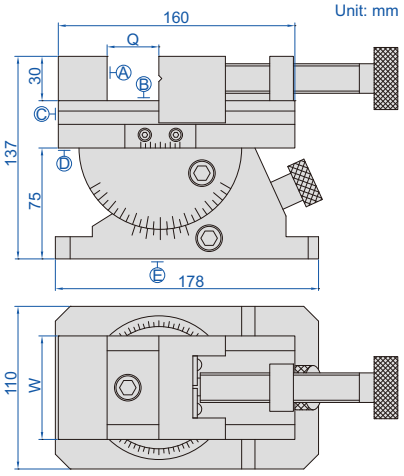
- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±15 seconds
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60

PRECISION UNIVERSAL VISE

- Horizontal rotary: range 360°, graduation 0.05°
- Vertical incline: range 45°, graduation 0.05°
- With incline adjust knob
- Parallelism and squareness between A, B, C and D: 5μm/100mm, parallelism between D and E at 0°: 10μm/100mm
- Made of tool steel
- Hardness HRC56-58



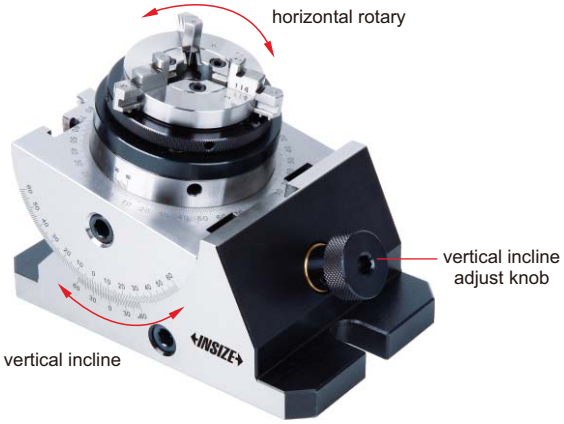
6521-80



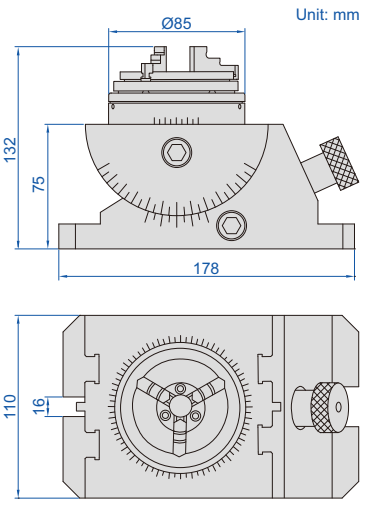
Code	Jaw opening (Q)	Jaw width (W)
6521-80	0-80mm	70mm

PRECISION UNIVERSAL VISE WITH CHUCK

- Horizontal rotary: range 360°, graduation 0.05°
- Vertical incline: range 45°, graduation 0.05°
- With vertical incline adjust knob
- Runout of chuck is less than 0.05mm (test position is at less than 50mm from clamping jaws)
- The clamping jaws of chuck are reversible
- Made of tool steel
- Hardness HRC56-58



6528-85

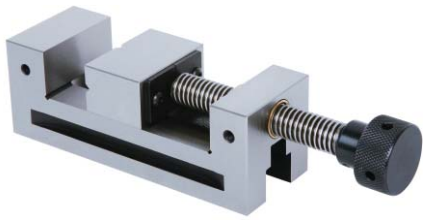


Code	Range of external clamping	Range of internal clamping
6528-85	Ø0.8~Ø63mm	Ø23~Ø58mm

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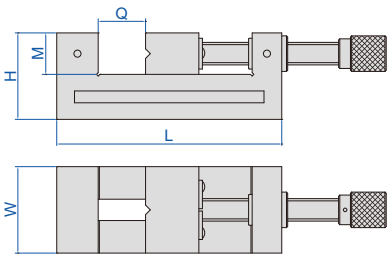
PRECISION VISES

- Parallelism: 8μm/100mm
- Squareness: 10μm/100mm
- Made of alloy steel
- Hardness HRC56-58



6520-73A

Code	Jaw opening (Q)	Jaw width (W)	L	H	M
6520-63A	0-63mm	48mm	156mm	52mm	25mm
6520-73A	0-73mm	63mm	176mm	63mm	30mm
6520-76A	0-76mm	73mm	190mm	73mm	35mm
6520-115A	0-115mm	88mm	250mm	80mm	42mm
6520-120A	0-120mm	98mm	255mm	82mm	40mm
6520-152A	0-152mm	125mm	310mm	100mm	50mm
6520-165A	0-165mm	150mm	325mm	100mm	50mm



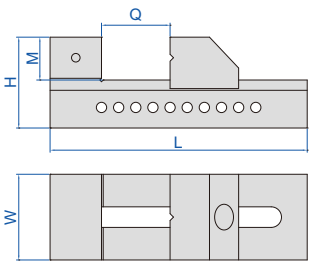
PRECISION VISES

- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Made of alloy steel
- Hardness HRC56-58



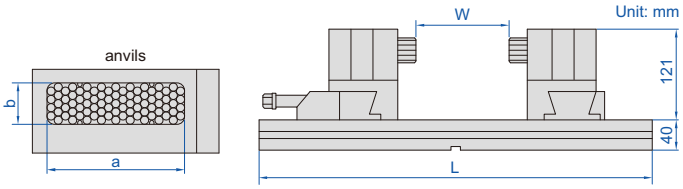
6526-80

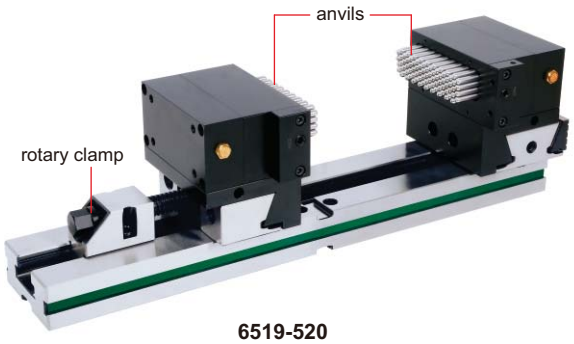
Code	Jaw opening (Q)	Jaw width (W)	Overall length (L)	H	M
6526-80	0-80mm	50mm	150mm	53mm	25mm
6526-100	0-100mm	73mm	190mm	70mm	35mm



17

ANVIL VISES





6519-520

- The vise is used to fix workpieces during machining. The anvils are formed according the shape of workpieces to be fixed, so the vise can fix workpieces quickly.
- The anvils are made of stainless steel (HRC20), can be customized to carbon steel (HRC40-45)
- Diameter of anvil: 6mm, stroke of anvil: 24mm
- Movement range of rotary clamp: 0-50mm

VIDEO

application



Code	Guide length (L)	Clamp range (W)	Clamp force*	Weight	a	b
6519-520	520mm	0-190mm	6500N	22.5kg	100mm	30mm
6519-680	680mm	0-320mm	8000N	39.5kg	120mm	36mm

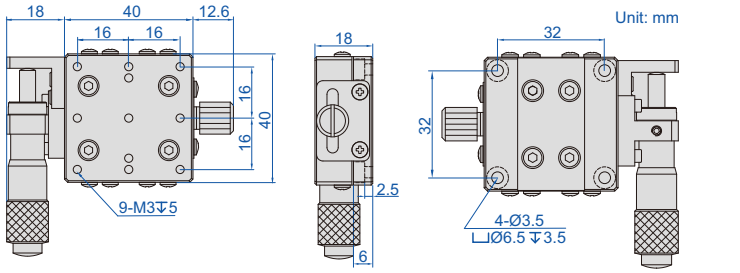
*When all anvils contact the workpieces

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X-AXIS STAGES

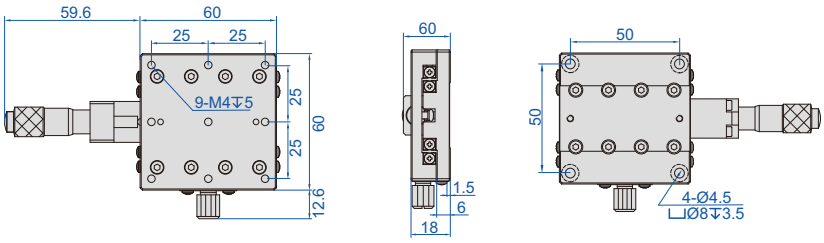


6582-401



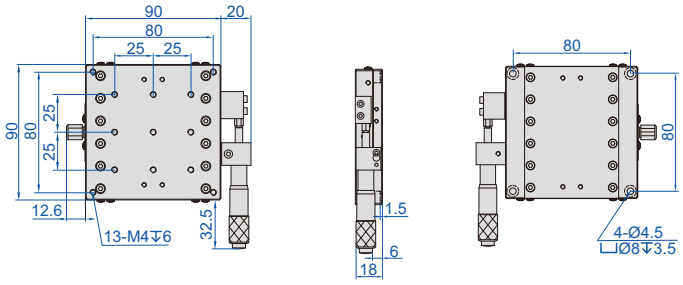


6582-602





6582-903



- Cross roller guides, achieve high precision and smooth movement
- Stages made of aluminum alloy

SPECIFICATION (micrometer on the left)

Code	X-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6582-401	±6.5mm	0.02mm	0.01mm	0.01mm	29.4N (3kgf)	left	40x40mm	0.14kg
6582-601	±6.5mm	0.03mm	0.01mm	0.01mm	49N (5kgf)	left	60x60mm	0.24kg
6582-901	±12.5mm	0.03mm	0.01mm	0.02mm	93.1N (9.5kgf)	left	90x90mm	0.47kg
6582-1251	±12.5mm	0.04mm	0.01mm	0.02mm	180N (18.4kgf)	left	125x125mm	1.40kg

SPECIFICATION (micrometer in the middle)

Code	X-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6582-402	±6.5mm	0.02mm	0.01mm	0.01mm	29.4N (3kgf)	middle	40x40mm	0.14kg
6582-602	±6.5mm	0.03mm	0.01mm	0.01mm	49N (5kgf)	middle	60x60mm	0.24kg
6582-902	±12.5mm	0.03mm	0.01mm	0.02mm	93.1N (9.5kgf)	middle	90x90mm	0.47kg
6582-1252	±12.5mm	0.04mm	0.01mm	0.02mm	180N (18.4kgf)	middle	125x125mm	1.40kg

SPECIFICATION (micrometer on the right)

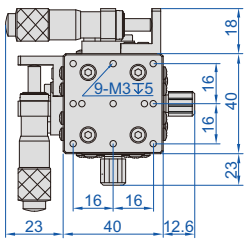
Code	X-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6582-403	±6.5mm	0.02mm	0.01mm	0.01mm	29.4N (3kgf)	right	40x40mm	0.14kg
6582-603	±6.5mm	0.03mm	0.01mm	0.01mm	49N (5kgf)	right	60x60mm	0.24kg
6582-903	±12.5mm	0.03mm	0.01mm	0.02mm	93.1N (9.5kgf)	right	90x90mm	0.47kg
6582-1253	±12.5mm	0.04mm	0.01mm	0.02mm	180N (18.4kgf)	right	125x125mm	1.40kg

XY-AXIS STAGES

Unit: mm

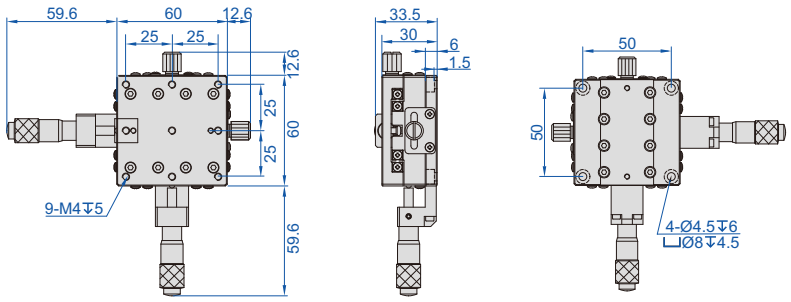


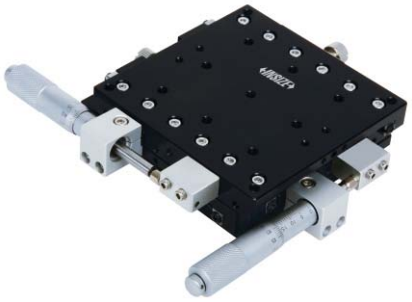
6584-401



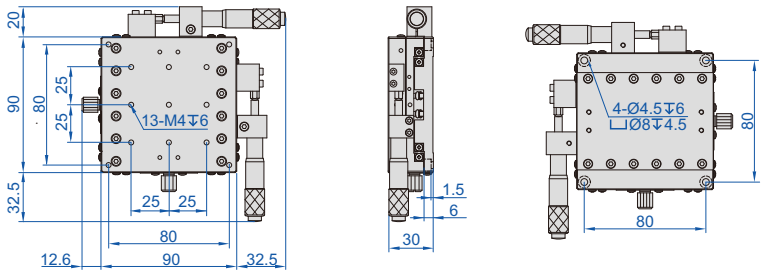


6584-602





6584-903



- Cross roller guides, achieve high precision and smooth movement
- Stages made of aluminum alloy

SPECIFICATION (micrometer on the left)

Code	XY-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6584-401	±6.5mm	0.04mm	0.01mm	0.01mm	29.4N (3kgf)	left	40x40mm	0.27kg
6584-601	±6.5mm	0.06mm	0.01mm	0.01mm	49N (5kgf)	left	60x60mm	0.48kg
6584-901	±12.5mm	0.06mm	0.01mm	0.02mm	93.1N (9.5kgf)	left	90x90mm	1kg
6584-1251	±12.5mm	0.08mm	0.01mm	0.02mm	180N (18.4kgf)	left	125x125mm	2.8kg

SPECIFICATION (micrometer in the middle)

Code	XY-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6584-402	±6.5mm	0.04mm	0.01mm	0.01mm	29.4N (3kgf)	middle	40x40mm	0.27kg
6584-602	±6.5mm	0.06mm	0.01mm	0.01mm	49N (5kgf)	middle	60x60mm	0.48kg
6584-902	±12.5mm	0.06mm	0.01mm	0.02mm	93.1N (9.5kgf)	middle	90x90mm	1kg
6584-1252	±12.5mm	0.08mm	0.01mm	0.02mm	180N (18.4kgf)	middle	125x125mm	2.8kg

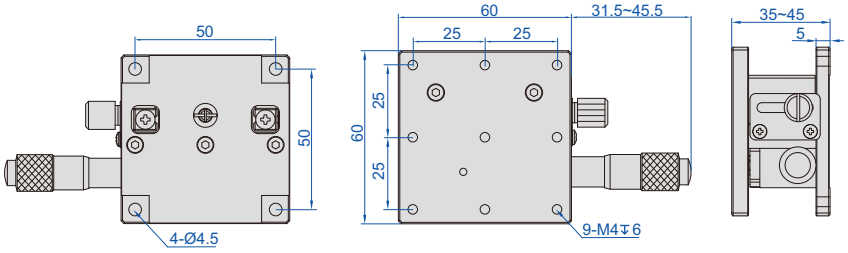
SPECIFICATION (micrometer on the right)

Code	XY-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6584-403	±6.5mm	0.04mm	0.01mm	0.01mm	29.4N (3kgf)	right	40x40mm	0.27kg
6584-603	±6.5mm	0.06mm	0.01mm	0.01mm	49N (5kgf)	right	60x60mm	0.48kg
6584-903	±12.5mm	0.06mm	0.01mm	0.02mm	93.1N (9.5kgf)	right	90x90mm	1kg
6584-1253	±12.5mm	0.08mm	0.01mm	0.02mm	180N (18.4kgf)	right	125x125mm	2.8kg

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Z-AXIS STAGE
CODE 6586-60

Unit: mm





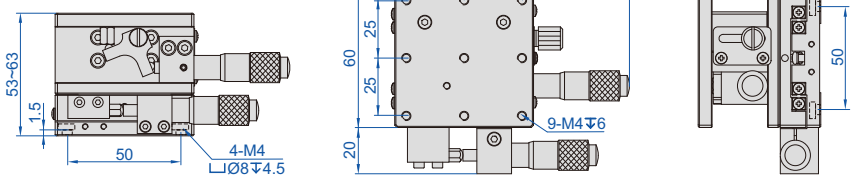
- Cross roller guides, achieve high precision and smooth movement
- Stage made of aluminum alloy

SPECIFICATION

Code	Z-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Stage size	Weight
6586-60	10mm	0.05mm	0.01mm	0.02mm	20.4N (3kgf)	60x60mm	0.27kg

XZ-AXIS STAGE
CODE 6587-60

Unit: mm





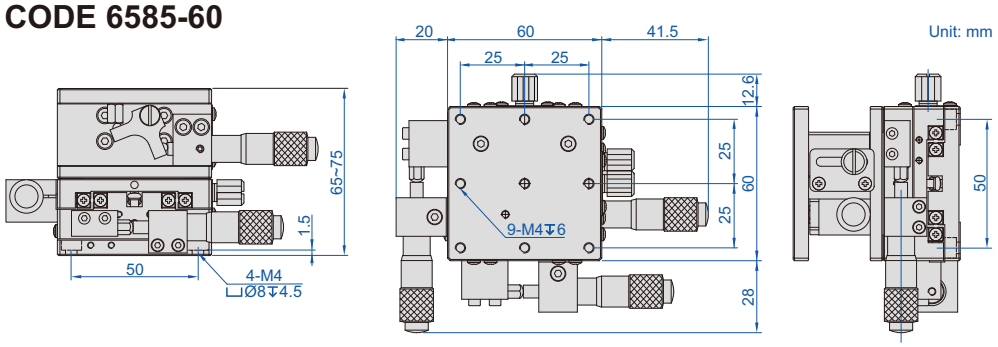
- Cross roller guides, achieve high precision and smooth movement
- Stage made of aluminum alloy

SPECIFICATION

Code	X-axis displacement	Z-axis displacement	Micrometer graduation	Maximum load	Stage size	Weight
6587-60	±6.5mm	10mm	0.01mm	29.4N (3kgf)	60x60mm	0.51kg

XYZ-AXIS STAGE
CODE 6585-60

Unit: mm





- Cross roller guides, achieve high precision and smooth movement
- Stage made of aluminum alloy

SPECIFICATION

Code	XY-axis displacement	Z-axis displacement	Micrometer graduation	Maximum load	Stage size	Weight
6585-60	±6.5mm	10mm	0.01mm	29.4N (3kgf)	60x60mm	0.75kg

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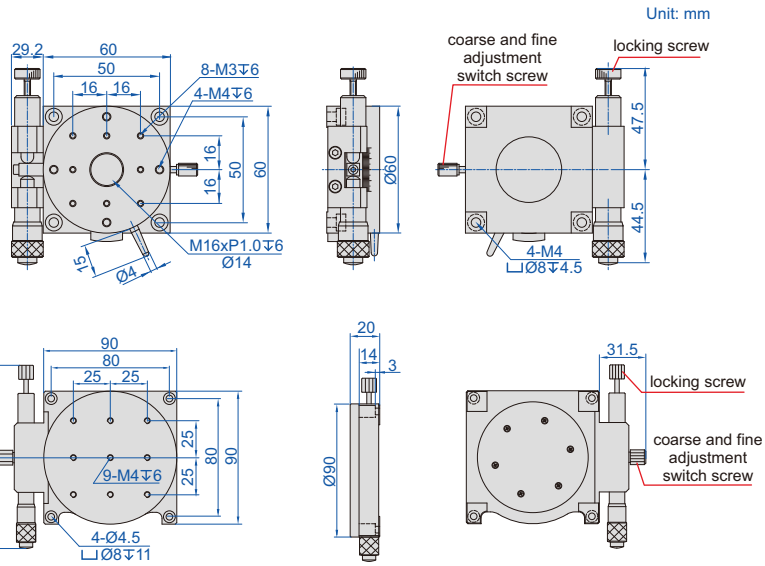
ROTARY STAGES



6583-60H



6583-90



- Precise angle adjustment
- Coarse and fine adjustments
- Stages made of aluminum alloy

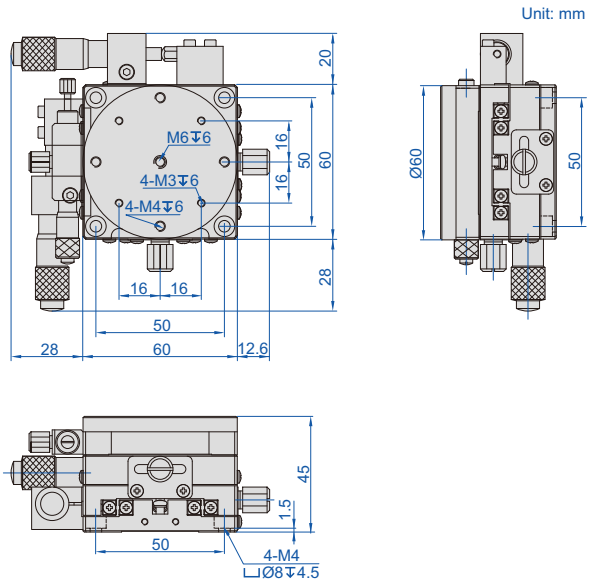
SPECIFICATION

Code	Range	Parallelism of top to bottom surface	Concentricity	Rotation accuracy	Maximum load	Stage size	Weight
6583-60H	360° coarse, ±5° fine	0.03mm	0.03mm	12′	29.4N (3kgf)	Ø60mm	0.30kg
6583-90	360° coarse, ±5° fine	0.04mm	0.03mm	5′	29.4N (3kgf)	Ø90mm	0.50kg

17

XY-AXIS ROTARY STAGE CODE 6588-60





- Cross roller guides, achieve high precision and smooth movement
- Coarse and fine adjustments
- Precise angle adjustment
- Stage made of aluminum alloy

SPECIFICATION

Code	XY-axis displacement	Rotation range	Micrometer graduation	Rotation accuracy	Maximum load	Stage size	Weight
6588-60	±6.5mm	360° coarse, ±5° fine	0.01mm	10′	29.4N (3kgf)	60x60mm	0.64kg

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18 ON-MACHINE MEASUREMENT

INSIZE



Infrared Transmission Probes For CNC Machine Tools
Page 427-428



Video Measuring Instrument For Machine Tools
Page 429-430



Trigger-Type 3D Probes
Page 431



Centering Indicators
Page 432



Edge Finders
Page 432-434



Edge Finders For EDM
Page 435



Zero Setters With Cable
Page 436



Zero Setters
Page 437



Zero Setters
Page 438-439

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INFRARED TRANSMISSION PROBES FOR CNC MACHINE TOOLS

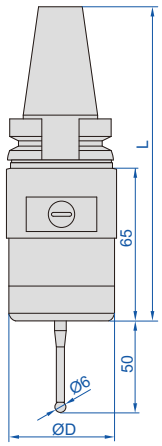
VIDEO

IP68 WATERPROOF

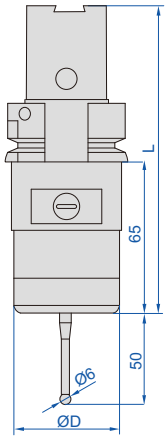


9413-1

Unit: mm



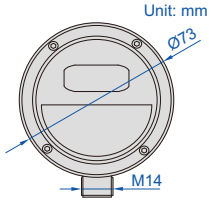
BT30, BT40, BT50, CAT40 spindles



HSK63A spindle



Unit: mm



9413-A

BT30, BT40, BT50, CAT40	HSK63A
	

- On-machine measurement of all kinds of small and medium-sized machining centers, CNC boring, milling machines and five-axis CNC machine tools
- Automatically set the workpiece coordinate and machining reference point before CNC machining process
- Automatically measure dimension and position coordinate during CNC machining
- Measure dimension, shape and position after CNC machining is completed
- Four kinds of SSR signals such as probe status, error, low voltage and pulse are transmitted to CNC machine tools
- M code is used to control on or off of probes
- Infrared transmission, strong anti-interference
- Infrared transmission/reception range: 5m
- Supplied with automatic measurement software
- Optional accessory: styli

PROBE SPECIFICATION

Code	9413-1	9413-2	9413-3	9413-4	9413-5
Probe length (L)	140mm	166mm	216mm	168mm	136mm
Probe diameter (ØD)	48mm	48mm	48mm	48mm	48mm
Applicable spindle *	BT30	BT40	BT50	CAT40	HSK63A
Trigger accuracy of styli in any direction	1μm				
Protection stroke triggered by styli in all directions	X and Y axis stroke: ±12.5°, Z axis stroke: 5mm				
Trigger force of styli in all directions	X and Y axis: 1-1.6N, Z axis: 5-10N				
Dust/waterproof	IP68				
Power supply	2×LS14250 lithium battery				

* SK and ISO spindle probes also can be customized

RECEIVER SPECIFICATION

Code	9413-A
Protection function	low battery voltage or probe transmitting signal all the time**
Applicable probe	code **9413-1**, **9413-2**, **9413-3**, **9413-4**, **9413-5**
Cable length	8m
Dust/waterproof	IP68
Power supply	input voltage: 24V±10% (DC), load current: 50mA

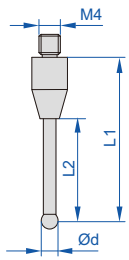
** When battery voltage is low or probe is in wrong state, receiver sends a signal to CNC machine to stop working

To be continued

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Continued from previous page

Unit: mm

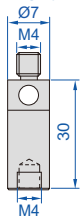


STYLI (OPTIONAL) **(mm)**

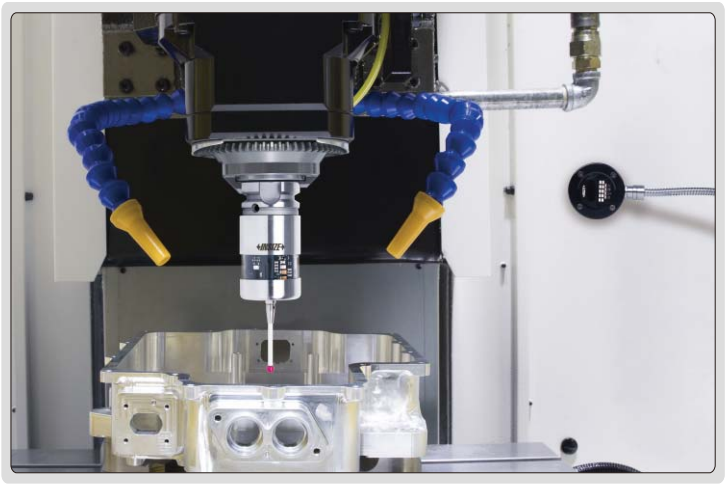
Code	L1	L2	Ød	Material of rod ***	Material of ball
9410-P1	18	13	4	stainless steel	ruby
9410-P2	18	13.5	5	stainless steel	ruby
9410-P3	18.5	13	3	stainless steel	ruby
9410-P4	19	8	2	carbide	ruby
9410-P5	19.5	4	1	carbide	ruby
9410-P6	50	40	2	carbide	ruby
9410-P7	50	34	5	ceramic	ruby
9410-P8	100	86	6	ceramic	ruby

*** For stainless steel or carbide rods, it is recommended to use extension rods to protect spindles in case of break

Unit: mm



application

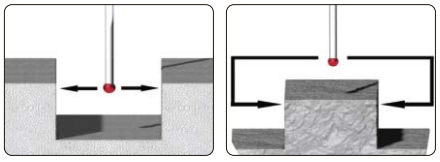


EXTENSION ROD (OPTIONAL)

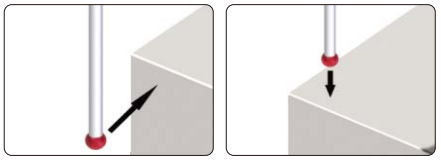
Code	Material
9410-R1	ceramic

AUTOMATIC MEASUREMENT SOFTWARE (INCLUDED)

1. Stylus automatic calibration
2. Protection of stylus during probe movement (avoid collision)
3. Groove and boss measurement

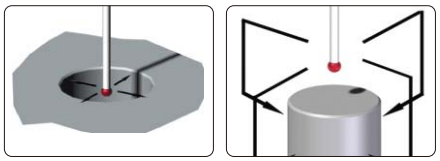


5. X or Y single-surface measurement

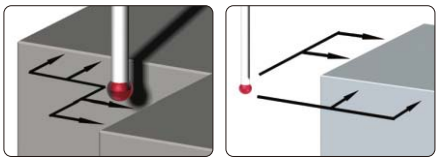


7. 4th axis measurement
8. Angle on X and Y plane measurement
9. Three points measurement of arc

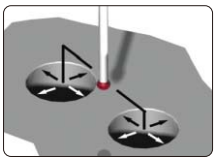
4. Bore and axis measurement



6. Internal and external corner measurement



10. Measure the distance between two holes

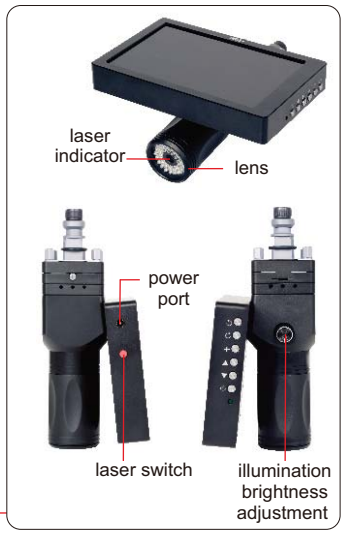


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VIDEO MEASURING INSTRUMENT FOR MACHINE TOOLS



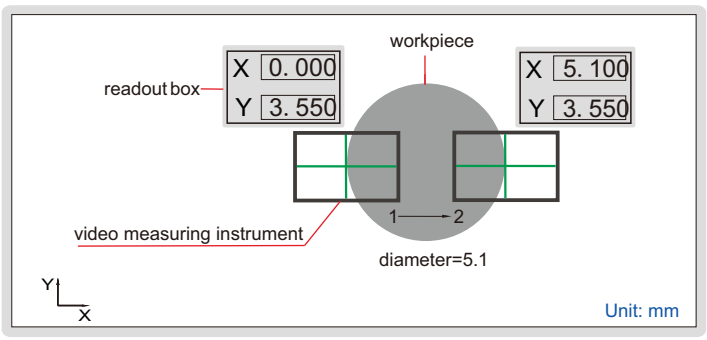
5314-R31



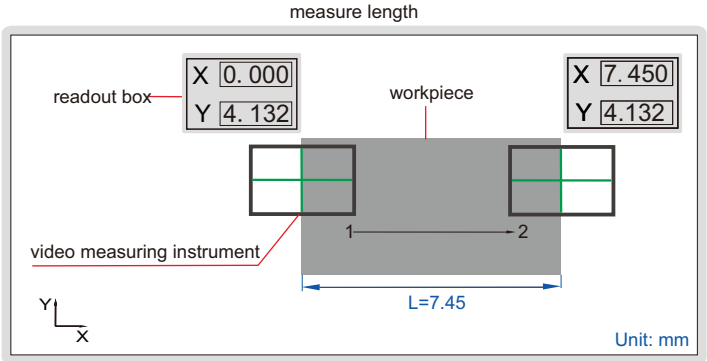
application



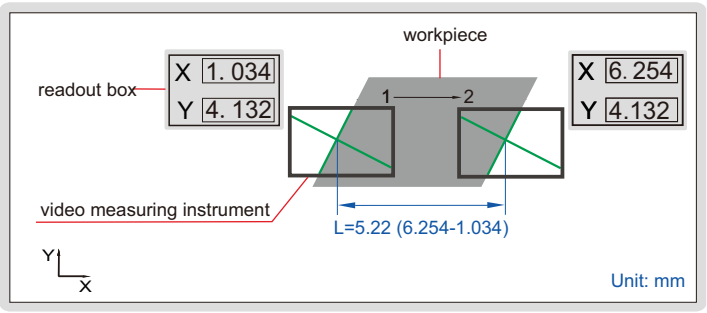
measure diameter



measure length



measure distance



- Used in machine tools such as EDM and CNC
- Working together with linear scale and readout box of machine tools to make 2D measurement, especially suitable for small or thin parts
- Can rotate crosshair and change its color
- With laser indicator to locate position

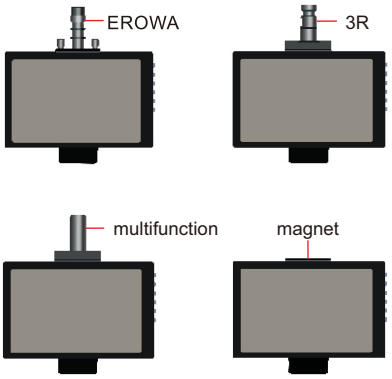
To be continued

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Continued from previous page

SPECIFICATION

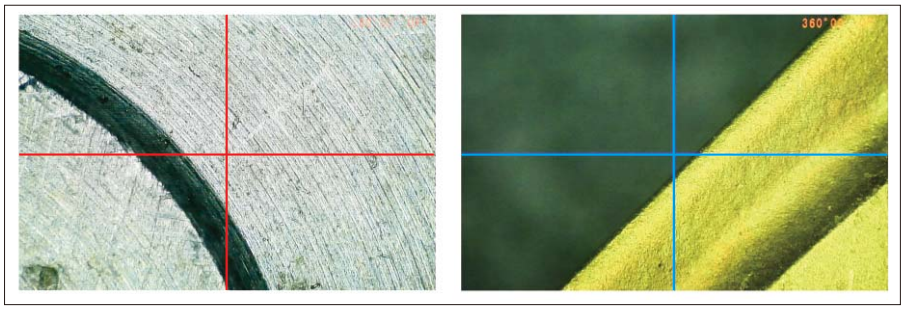
Code	5314-R31	5314-R32	5314-R33	5314-R34
Adapter	EROWA	3R	multifunction	magnet
Screen size/pixel	7"/1080P			
Visual accuracy	±0.003mm			
Magnification	50X			
Angle resolution	15'			
Automatic edge-find	after finding the edge, the crosshair changes to green color and prompts			
Color of crosshair	red, blue			
Rotation of crosshair	manual			
Focus distance	50mm			
Light source	LED (adjustable brightness)			
Lithium battery	4800mA (for 4 hours working)			
Power supply	power adapter			
Dimension (LxWxH)	178x90x215mm			
Weight	2kg			



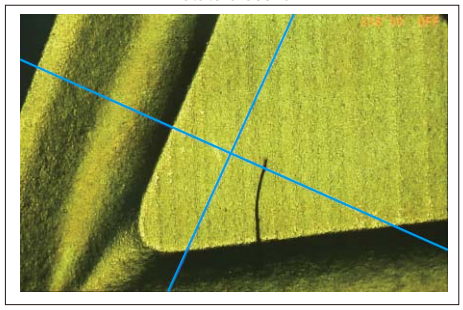
STANDARD DELIVERY

Main unit	1 pc
Power adapter	1 pc

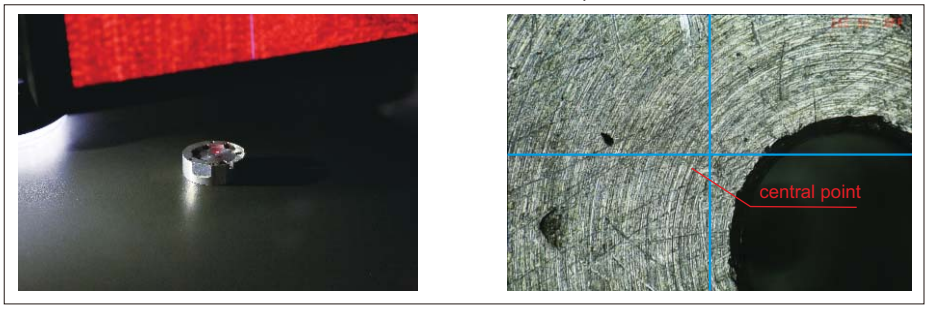
select crosshair color



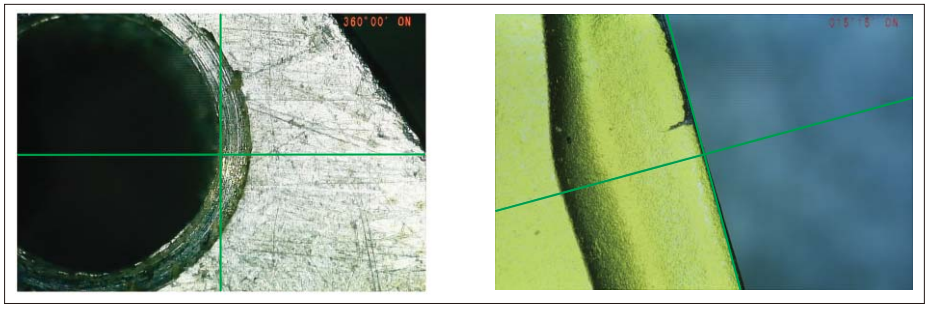
rotate crosshair



laser indicator locates the central point



after finding the edge, the crosshair changes to green color and prompts



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IP67 WATERPROOF

TRIGGER-TYPE 3D PROBE (AUDIBLE AND VISUAL ALARM) CODE 9410

type-C charging cable (included)

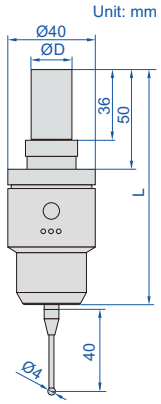


signal extension cord (included)



VIDEO





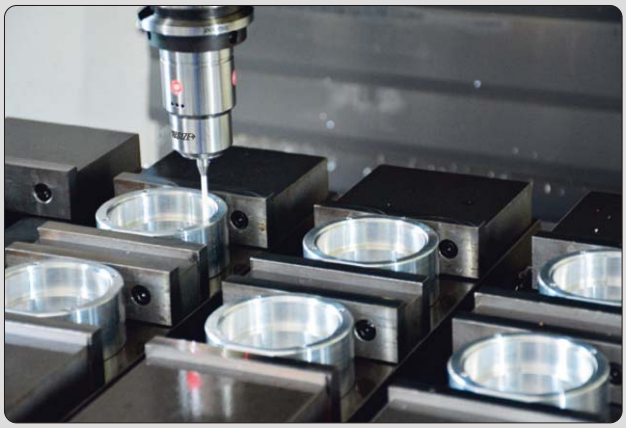
- Suitable for all kinds of machining centers, CNC boring machines, milling machines, drilling and tapping centers
- Suitable for workpiece detection of various solid materials
- Manually set the workpiece coordinates and machining reference points before CNC machining process
- In the process of CNC machining, manually detect and control key dimensions and position coordinates and their accuracy
- Detect the accuracy of the key size, shape and position of the workpiece after completion of CNC machining
- Standard Ø20mm shank diameter, held by CNC
- LED indicator and buzzer indicate the trigger state of the probe
- Using lithium battery charging technology, no need to replace the battery
- The battery (5% utilization rate per shift) can be used continuously for 90 days
- Type-C interface
- Optional accessory: styli and extension bar

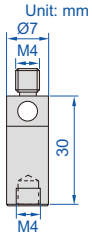
18

SPECIFICATION

Probe length (L)	115.5mm
Shank diameter (ØD)	20mm
Trigger direction	±X, ±Y, +Z
Directional trigger protection stroke	X-Y: ±12°, Z: +5mm
Arbitrary one-way repeated trigger accuracy	≤1μm
Trigger force in X-Y direction (with standard styli)	0.3-0.6N
Trigger force in Z direction	4N
Class of protection	IP67
Type-C charging cable	1.5m
Signal extension cord (provide signals to CNC)	1m

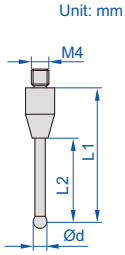
application





EXTENSION BAR (OPTIONAL)

Code	Material
9410-R1	ceramic



STYLI (OPTIONAL)

(mm)

Code	L1	L2	Ød	Material of rod	Material of ball
9410-P1	18	13	4	stainless steel	ruby
9410-P2	18	13.5	5	stainless steel	ruby
9410-P3	18.5	13	3	stainless steel	ruby
9410-P4	19	8	2	carbide	ruby
9410-P5	19.5	4	1	carbide	ruby
9410-P6	50	40	2	carbide	ruby
9410-P7	50	34	5	ceramic	ruby
9410-P8	100	86	6	ceramic	ruby

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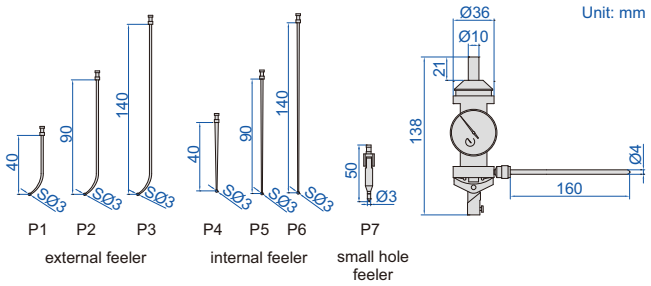
CENTERING INDICATOR

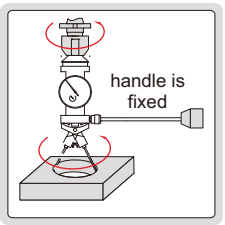
VIDEO

POPULAR MODEL



2385-3

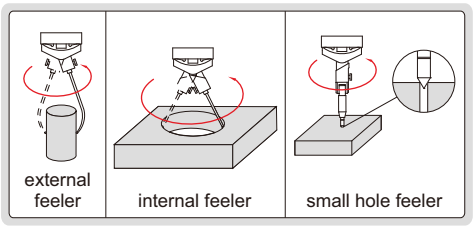




- Provides quick and accurate centering in boring and milling set-up
- Maximum speed is recommended not to exceed 800rpm

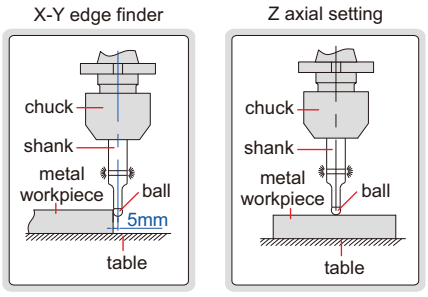
Code
2385-3

Feeler	Measuring diameter	Accuracy
P1	Ø0-60mm	0.015mm
P2	Ø0-160mm	0.02mm
P3	Ø0-250mm	0.03mm
P4	Ø3.2-80mm	0.015mm
P5	Ø3.2-180mm	0.02mm
P6	Ø3.2-280mm	0.03mm
P7	Ø0-2.8mm	0.015mm



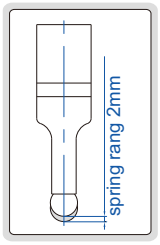
3D ELECTRONIC EDGE FINDERS

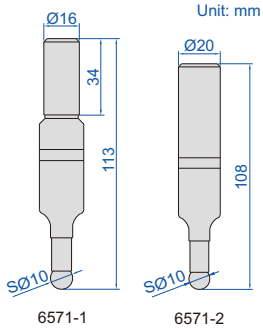
INSIZE PLUS
MADE IN EUROPE





6571-1 6571-2





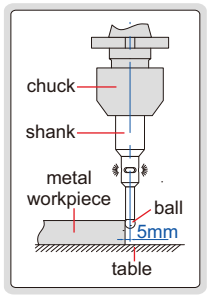
- The shank is electrically conducted to the metal workpiece through the chuck and table. The LED lights up, when the ball touches the workpiece
- Not suitable for rotary use
- Hardened contact ball

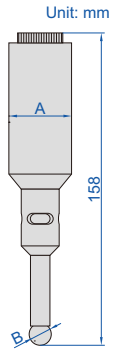
Code	Shank	Contact ball	Accuracy	Battery
6571-1	Ø16mm	SØ10mm	10μm	23A, 12Vx1 pc
6571-2	Ø20mm	SØ10mm	10μm	23A, 12Vx1 pc

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LARGE SHANK ELECTRONIC EDGE FINDERS

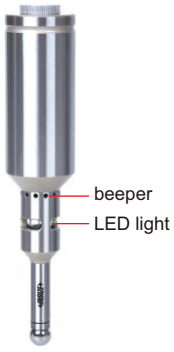
- The shank is electrically conducted to the metal workpiece through the chuck and table. The LED lights up and the beeper sounds (only for **6572-2**), when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball







6572-1

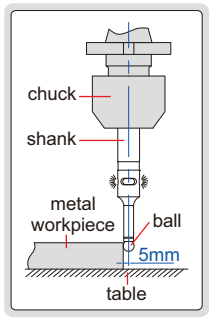


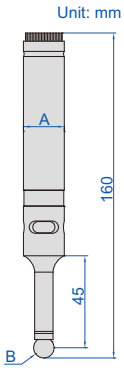
6572-2

Code	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6572-1	Ø32mm	SØ10mm	5μm	without	23A, 12V×1 pc
6572-2	Ø32mm	SØ10mm	5μm	with	23A, 12V×1 pc

ELECTRONIC EDGE FINDERS

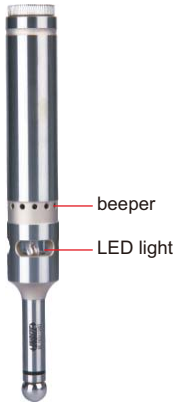
- The shank is electrically conducted to the metal workpiece through the chuck and table. The LED lights up and the beeper sounds (only for **6566-3**), when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball







6566-2

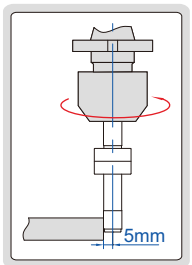


6566-3

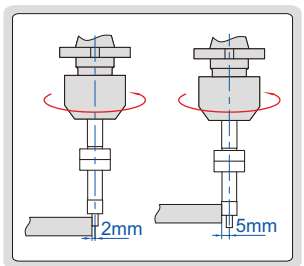
Code	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6566-2	Ø20mm	SØ10mm	5μm	without	23A, 12Vx1 pc
6566-3	Ø20mm	SØ10mm	5μm	with	23A, 12Vx1 pc

NON-MAGNETIC EDGE FINDERS

- TiAlN coating, non-magnetic, hardness HV2500, extremely wear resistance
- Suitable for machine speed 400~600rpm



6573-1



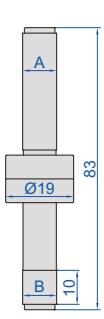
6573-2



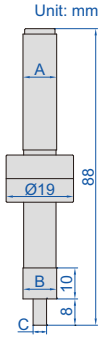
6573-1



6573-2



6573-1

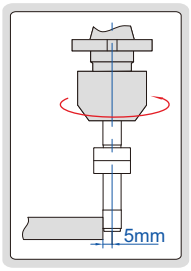


6573-2

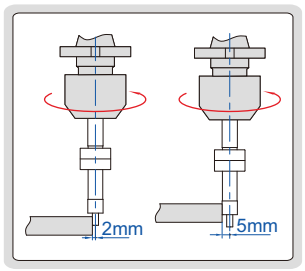
Code	Shank (A)	Contact point (B)	Contact point (C)	Accuracy
6573-1	Ø10mm	Ø10mm	—	5μm
6573-2	Ø10mm	Ø10mm	Ø4mm	5μm

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EDGE FINDERS



6562-3



6562-4

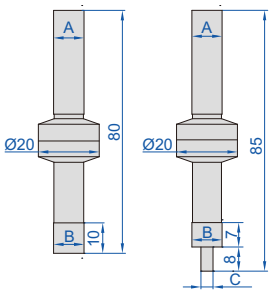


6562-3 **6562-4**

- Hardened shank and contact point
- Suitable for machine speed 400~600rpm

Code	Shank (A)	Contact point (B)	Contact point (C)	Accuracy
6562-3	Ø10mm	Ø10mm	—	5μm
6562-4	Ø10mm	Ø10mm	Ø4mm	5μm

Unit: mm



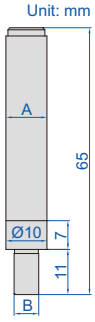
6562-3 6562-4

EDGE FINDER

- Hardened shank and contact point
- Suitable for machine speed 400~600rpm

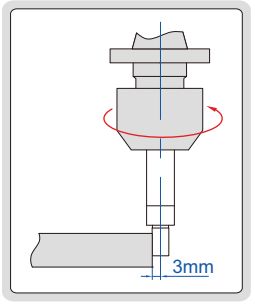
Code	Shank (A)	Contact point (B)	Accuracy
6567-1	Ø10mm	Ø6mm	8μm

Unit: mm





6567-1

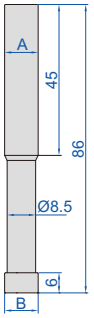


CERAMIC EDGE FINDER

- Ceramic contact point, non magnetic
- Suitable for machine speed 400~600rpm

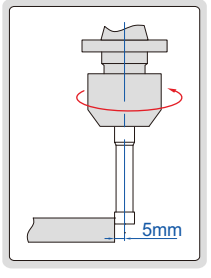
Code	Shank (A)	Contact point (B)	Accuracy
6568-1	Ø10mm	Ø10mm	8μm

Unit: mm





6568-1

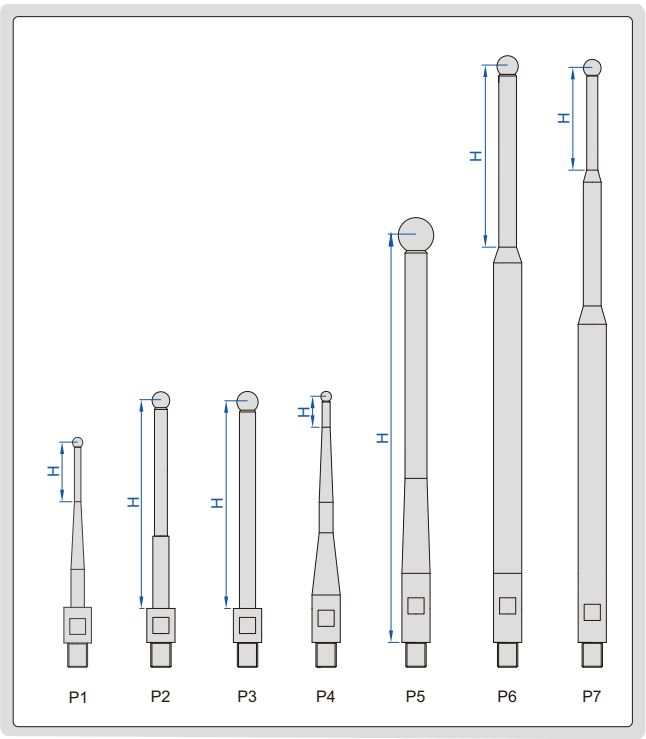


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EDGE FINDERS FOR EDM

CAN BE CUSTOM-MADE

spindle type





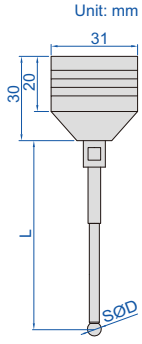
6558-52

- To locate workpieces
- Buzzer in EDM sounds when the ball touches the workpiece
- Tungsten steel ball, diameter accuracy: ±0.003mm
- Non magnetic stainless steel spindle
- Magnetic base

(mm)

Code	Ball dia. (SØD)	Spindle length (L)	Measuring depth (H)	Spindle type
6558-11	SØ1	69	5	P4
6558-21	SØ2	49	6	P1
6558-22	SØ2	69	6	P4
6558-23	SØ2	119	8	P4
6558-31	SØ3	48	6	P1
6558-32	SØ3	68	7	P4
6558-33	SØ3	118	10	P4
6558-41	SØ4	48	37	P3
6558-42	SØ4	68	57	P2
6558-43	SØ4	118	16	P4
6558-44	SØ4	168	28	P7
6558-51	SØ5	47	36	P3
6558-52	SØ5	67	56	P2
6558-53	SØ5	117	106	P2
6558-54	SØ5	167	46	P6
6558-61	SØ6	47	35	P3
6558-62	SØ6	67	56	P3
6558-63	SØ6	87	76	P3
6558-64	SØ6	117	107	P2
6558-65	SØ6	167	51	P6
6558-81	SØ8	46	46	P5
6558-82	SØ8	66	54	P3
6558-83	SØ8	116	105	P3
6558-84	SØ8	166	51	P6
6558-101	SØ10	45	34	P3
6558-102	SØ10	65	53	P3
6558-103	SØ10	115	114	P5
6558-104	SØ10	165	53	P6

Unit: mm



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ZERO SETTER WITH CABLE (FIVE-SIDE)
CODE 9412

IP68 WATERPROOF



- Suitable for various machining centers, CNC boring and milling machines, etc.
- Automatically set the tool length parameters before CNC machining process
- Automatic detection of tool wear or damage during CNC machining
- Automatic detection of tool wear or damage after CNC machining is completed
- The working surface adopts ceramic material and chamfering process, which can greatly improve the service life
- The plug, cable part and output signal of the host are protected, so that the zero setter can work in the splash environment for a long time
- Signal transmission through the cable, the reverse connection of the power line can change the state of the signal output
- The position of zero setter pillar can be roughly and precisely adjusted by the connecting link of the pillar and the adjusting link of zero setter for mounting
- The working status is displayed by the indicator light
- Supplied with automatic zero setter software package
- Optional accessory: square feeler block (code **9412-B1**)

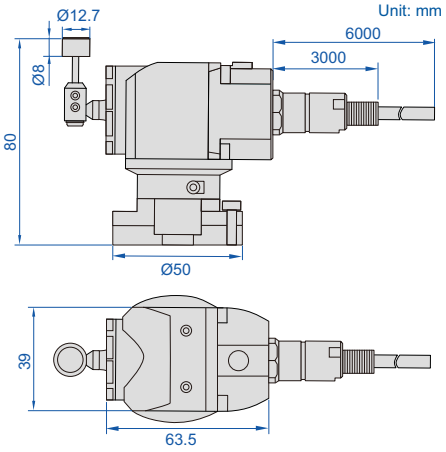
SPECIFICATION

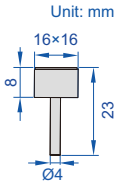
Height (factory setting)	80±0.5mm
Diameter of zero setter	12.7mm
Trigger direction	±X, ±Y, +Z
Trigger protection stroke	X-Y: ±5mm, Z: 8mm
Axial reset force	3.4N-3.6N
Repeated trigger accuracy	≤1μm
Hardness of the zero setter	HM8.5
Class of protection	IP68
Cable length *	6m (stainless steel sheath 3m)
Input voltage	24V±10% (DC)
Load current	max: 50mA
Signal type and logic **	SSR (NC/NO)

*The length of the cable can be customized

**Before purchasing, it is necessary to confirm whether the working logic of the tool setter output signal matches CNC control system

VIDEO

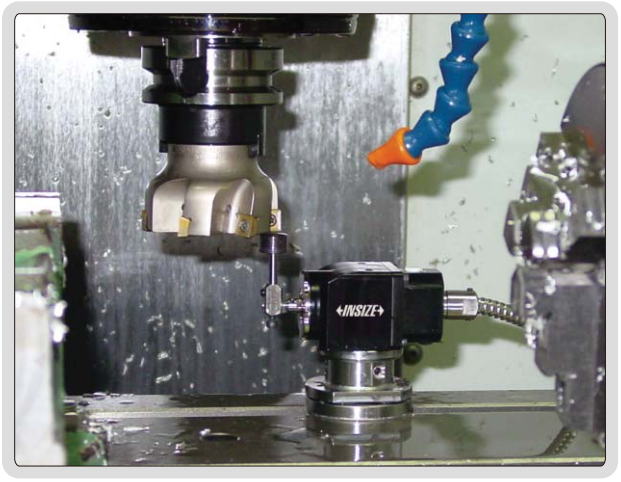




SQUARE FEELER BLOCK (OPTIONAL)

Code	Shape	Dimension	Material
9412-B1	square	16×16mm	ceramic

application



Automatic zero setter software package (included)

1. Automatic calibration of the center position of the cutter block
2. Standard knife length setting
3. Semi-automatic and fully automatic tool setting for tool length
4. Semi-automatic and fully automatic tool diameter settings
5. Automatic detection of tool wear and breakage









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IP68 WATERPROOF

ZERO SETTER (WITH CABLE) CODE 9411

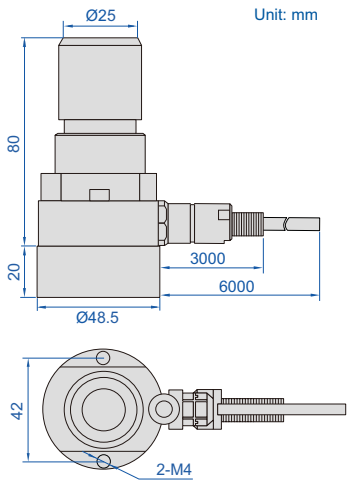
- Suitable for various machining centers, CNC boring and milling machines, etc.
- Automatically set the tool length parameters before CNC machining process
- Automatic detection of tool wear or damage during CNC machining
- Automatic detection of tool wear or damage after CNC machining is completed
- The working surface is made of hard alloy material, which can greatly improve the scratch resistance
- Signal transmission through the cable, the reverse connection of the power line can change the state of the signal output
- The working status is displayed by the indicator light
- Supplied with 20mm mounting base
- Supplied with automatic zero setter software package
- Optional accessory: blow-cleaning device (code **9411-C1**)



SPECIFICATION

Height	80mm (the height is 100mm after adding the mounting base)
Diameter of zero setter	25mm
Downward travel	5mm
Axial reset force	6N±0.3N
Repeated trigger accuracy	≤1μm
Hardness of the zero setter	HRA90-93
Class of protection	IP68
Cable length *	6m (stainless steel sheath 3m)
Input voltage	24V±10% (DC)
Load current	max: 50mA
Signal type and logic **	SSR (NC/NO)

VIDEO



*The length of the cable can be customized

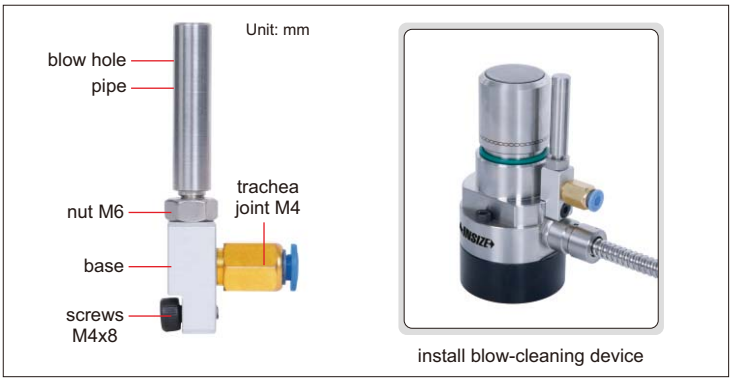
**Before purchasing, it is necessary to confirm whether the working logic of the tool setter output signal matches CNC control system

BLOW-CLEANING DEVICE (OPTIONAL)

Code	Material
9411-C1	stainless steel

Before purchasing a blow-cleaning device, it is necessary to confirm whether CNC machine has the M-code to control the cleaning

blow-cleaning device **(optional)**



application



Automatic zero setter software package (included)

1. Automatic calibration of the center position of the cutter block
2. Standard knife length setting
3. Semi-automatic and fully automatic tool setting for tool length
4. Automatic detection of tool wear and breakage





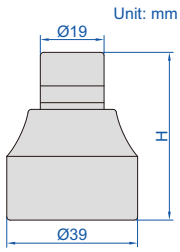
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ELECTRONIC ZERO SETTER

INSIZE PLUS
MADE IN EUROPE

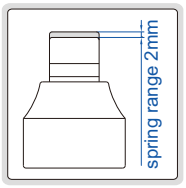
LOW TEST FORCE

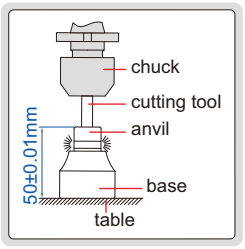
- The base is electrically conducted to the cutting tools through the table and chuck. The LED lights up when the cutting tool touches the anvil
- Magnetic base
- Two batteries LR44





6553-50



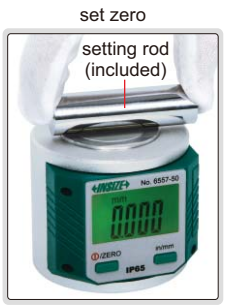


Code	Height (H)	Accuracy	Test force
6553-50	50mm	±10μm	7N (at 49mm)

DIGITAL ZERO SETTER

IP65 WATERPROOF

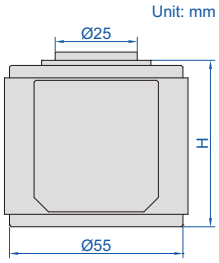
- Resolution: 0.001mm/0.00005"
- IP65 dust/waterproof
- Buttons: on/off, mm/inch, zero
- CR2032 battery
- Automatic power off
- Magnetic base
- Automatic backlight at zero

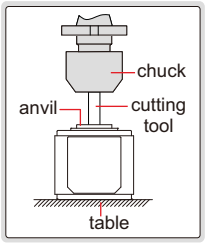






6557-50



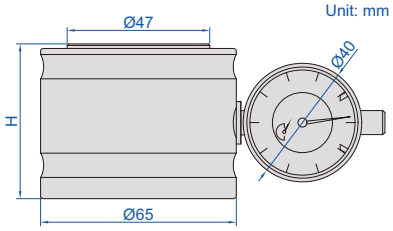


Code	Height (H)	Anvil stroke	Accuracy *	Test force	Repeatability
6557-50	50mm	2.5mm	±10μm/0.0004"	10N (at 50mm)	2μm

* The accuracy is ensured within Ø10mm of the center

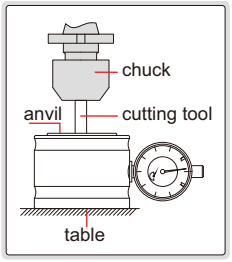
ZERO SETTER

INSIZE PLUS
MADE IN EUROPE



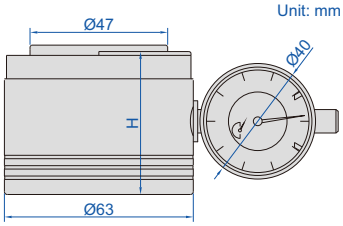


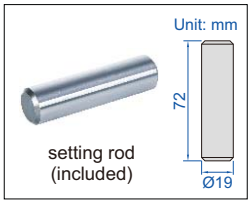
6554-50



Code	Height (H)	Graduation	Accuracy	Test force
6554-50	50mm	0.01mm	±0.02mm	9N (at 50mm)

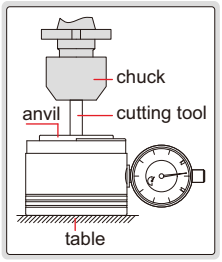
ZERO SETTER







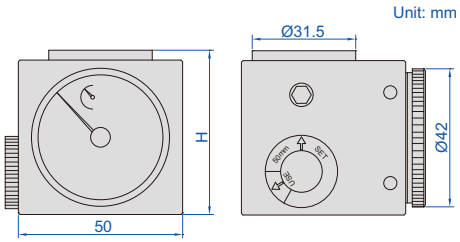
6556-50



Code	Height (H)	Graduation	Accuracy	Test force
6556-50	50mm	0.01mm	±0.01mm	10N (at 50mm)

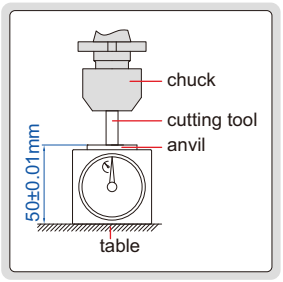
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ZERO SETTER



- Magnetic base



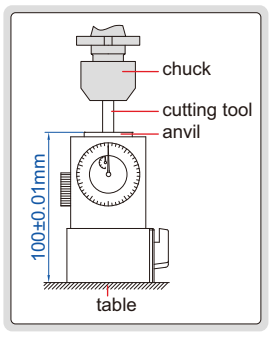


Code	Height (H)	Graduation	Accuracy	Test force
2397-502A	50mm	0.01mm	±0.01mm	9N (at 50mm)

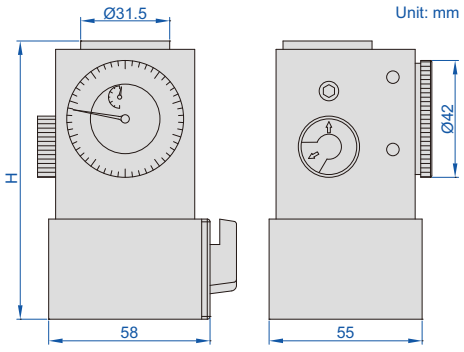
2397-502A

ZERO SETTER

- Magnetic base with on-off switch







2394-100A

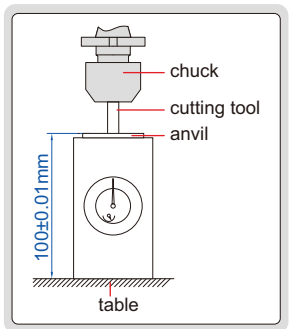
Code	Height (H)	Graduation	Accuracy	Test force
2394-100A	100mm	0.01mm	±0.01mm	9N (at 100mm)

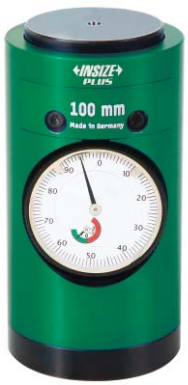
LOW TEST FORCE

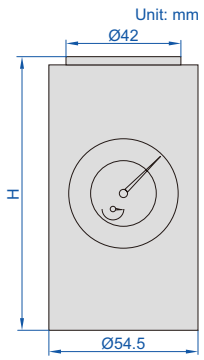
LOW TEST FORCE ZERO SETTER

INSIZE PLUS
MADE IN EUROPE

- Magnetic base
- Low test force, suitable for micro tools with minimum diameter Ø0.1mm







Code	Height (H)	Graduation	Accuracy	Test force
6555-100B	100mm	0.01mm	±0.01mm	1N (at 100mm)

6555-100B

19 LEVELS

INSIZE



Electronic Levels
Page 441



Digital Levels And Slope Meters
Page 442-445



Frame Levels
Page 446



Block Levels
Page 447



Digital Levels And Slope Meters
Page 448



Levels
Page 448-451



Cross-line Laser Levels
Page 452



Self-Leveling Rotary Lasers
Page 453

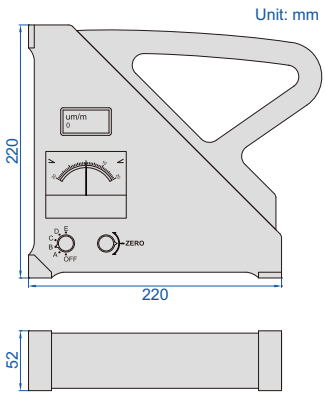
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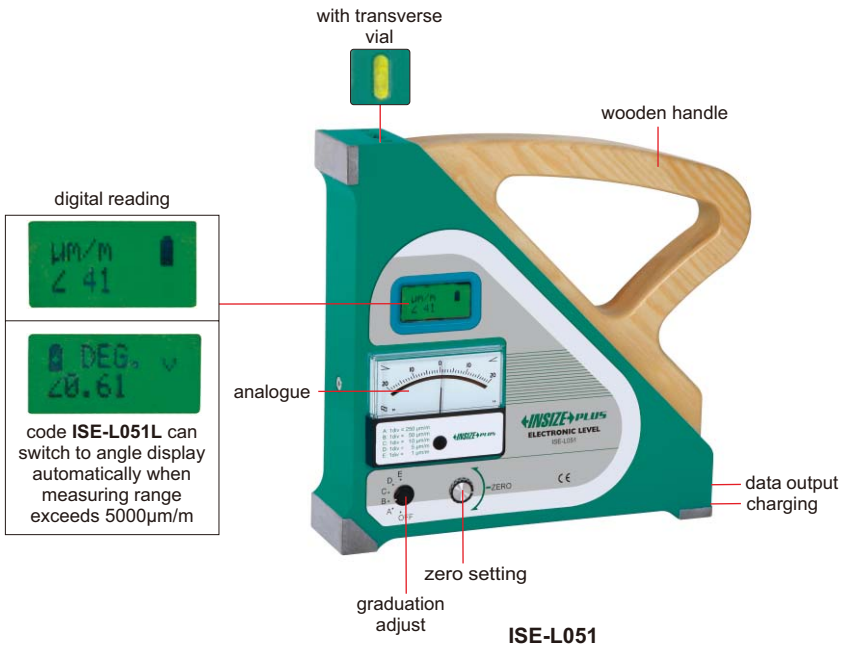
INSPECTION CERTIFICATE | DATA OUTPUT | SHOCK PROOF

ELECTRONIC LEVELS

INSIZE PLUS
MADE IN EUROPE

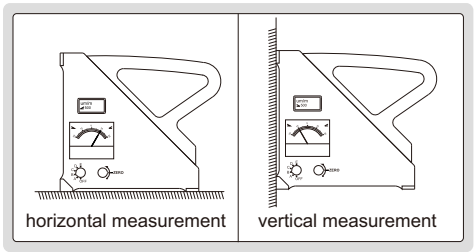
VIDEO



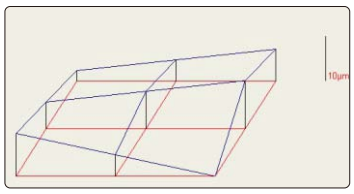


ISE-L051

- Shockproof
- Analogue and digital reading modes



software (**optional**)



measure flatness of surface plates

19

SPECIFICATION

Code	ISE-L051		ISE-L051L		
Analogue graduation (adjustable)	250μm/m (=0.014°)	50μm/m (=10")	10μm/m (=2")	5μm/m (=1")	1μm/m (=0.2")
Analogue range	±5000μm/m	±1000μm/m	±200μm/m	±100μm/m	±20μm/m
Digital reading resolution	horizontal: 1μm/m (=0.2")		horizontal: 1μm/m (=0.2"), angle: 0.01°		
Digital reading range	horizontal: 5000μm/m		horizontal: 5000μm/m, angle: 0.3~85°		
Accuracy	horizontal: ±1%		horizontal: ±1%, angle: ±0.7%		
Zero setting range	±1500μm/m				
Response time	<3s				
Data output	RS232				
Power supply	rechargeable Li-ion battery, provides power for 10h continuous working				
Dimension	220×220×52mm				
Weight	4.4kg				

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Software and data output cable	ISE-L050-SOFTWARE

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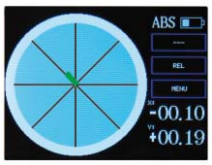
DIGITAL LEVEL
CODE ISE-2DT

DATA OUTPUT

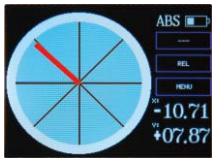
VIDEO



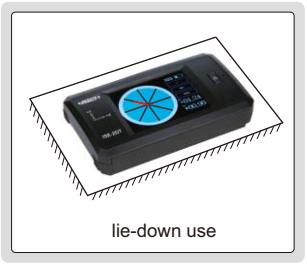
- Color LCD, touch panel
- X-Y axis measurement
- Set the tolerance and the display is shown in different colors



within the tolerance (green)

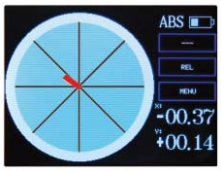


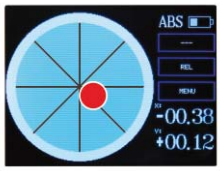
out of the tolerance (red)


lie-down use

19

- To show the incline with line or bubble






charging and
data output



SPECIFICATION

Measuring range	±30°
Resolution	0.1°, 0.01°, 0.1mm/m
Accuracy	±0.03° (range 0~3°) ±0.05° (range >3°)
Power supply	rechargeable battery
Dimension	115×66×25mm
Weight	224g

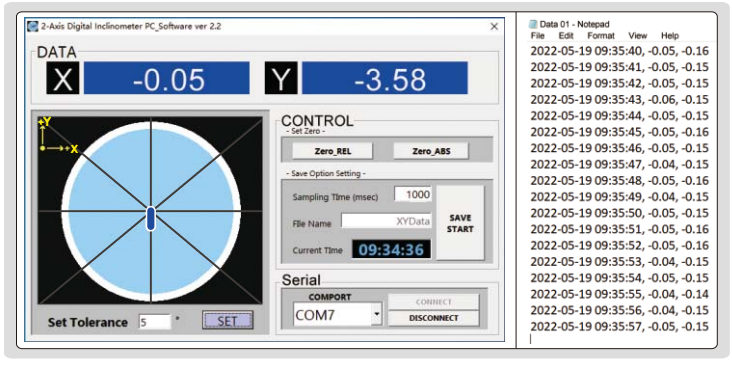
STANDARD DELIVERY

Main unit	1 pc
USB cable	1 pc

OPTIONAL ACCESSORY

Software	**ISE-2DT-SOFTWARE**

PC software (**optional**), send data to txt



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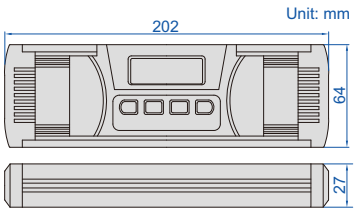
DIGITAL LEVEL AND SLOPE METER

IP67 WATERPROOF | ABSOLUTE LEVEL | BACKLIGHT | BUZZER ALARM AT 0° AND 90° | WORKING TEMPERATURE -5°C~50°C

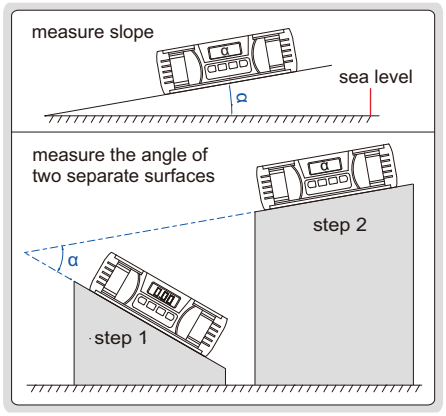
VIDEO



2175-360



- IP67 dust/waterproof
- Used as level and slope meter
- Aluminum frame, shock absorbing rubber end caps
- Magnetic bottom with V-groove for shafts
- The sea level is permanently set inside the chip, zero setting is not needed when batteries are replaced
- Buttons: ON/OFF, backlight/buzzer alarm, absolute and incremental measurement, unit (mm/m, %, °), HOLD (keep the reading)
- Three AAA batteries, automatic power off



Code	Range	Resolution	Accuracy
2175-360	0-360° (90°x4)	0.05° (=0.873mm/m)	at 0°: ±0.05°; at others: ±0.1°

19

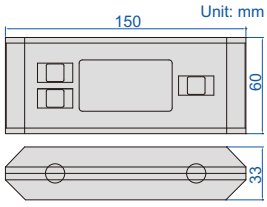
DIGITAL LEVEL AND SLOPE METER

IP54 WATERPROOF | ABSOLUTE LEVEL | BACKLIGHT | BUZZER ALARM AT 0° AND 90° | WORKING TEMPERATURE -5°C~50°C

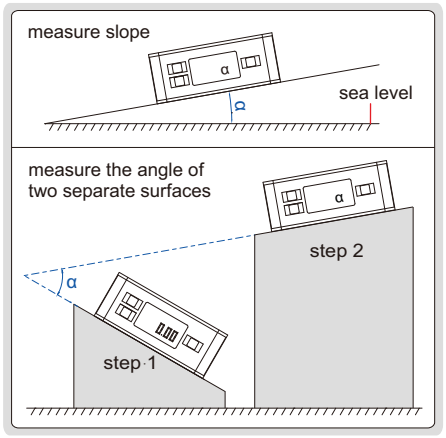
VIDEO



2179-360



- IP54 dust/waterproof
- Used as level and slope meter
- Aluminum frame
- Magnetic bottom with V-groove for shafts
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm, unit (mm/m, %, in/ft), conversion, backlight
- Two AAA batteries, automatic power off



Code	Range	Resolution	Accuracy
2179-360	0-360° (90°x4)	0.05° (=0.873mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°

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DIGITAL LEVEL AND SLOPE METER

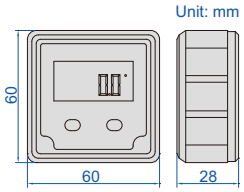
MAGNETIC BOTTOM | WORKING TEMPERATURE -5°C~50°C | BACKLIGHT | DISPLAY FLIPS OVER WHEN THE BOTTOM FACES UP | ABSOLUTE LEVEL

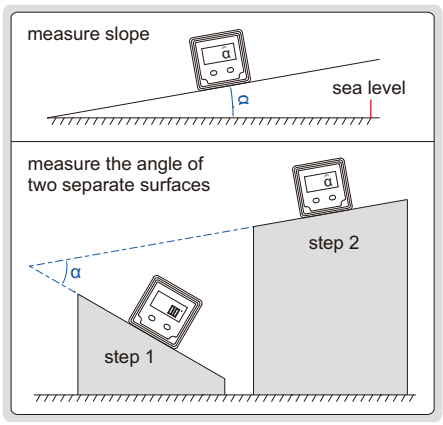
POPULAR MODEL



2170-1

- Used as level and slope meter
- Aluminum frame
- Magnetic bottom
- The display flips over when the bottom faces up
- The backlight is on automatically when in use, and automatically off in 15 seconds after use
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, ZERO, absolute and incremental measurement
- One AAA battery, automatic power off in 5 minutes





Code	Range	Resolution	Accuracy
2170-1	4x90°	0.1° (=1.745mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°

VIDEO

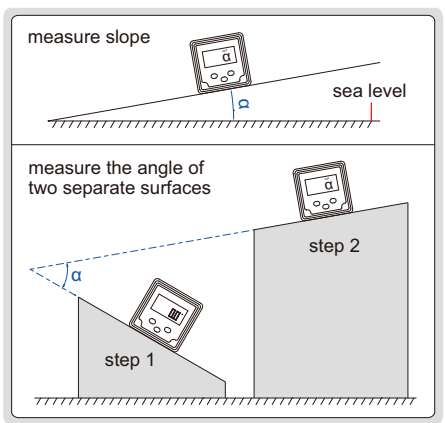
BLUETOOTH DIGITAL LEVEL AND SLOPE METER

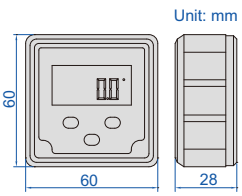
BACKLIGHT | MAGNETIC BOTTOM | DISPLAY FLIPS OVER WHEN THE BOTTOM FACES UP | WORKING TEMPERATURE -5°C~50°C | ABSOLUTE LEVEL



2198-2

- Used as level and slope meter
- Aluminum frame
- Magnetic bottom
- The display flips over when the bottom faces up
- The backlight is on automatically when in use, and automatically off in 15 seconds after use
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, ZERO, HOLD, absolute and incremental measurement
- Built-in bluetooth, transmission distance is 15 meters (under the condition of no obstruction and no electromagnetic interference). Android and iPhone APP are included
- One AAA battery, automatic power off in 5 minutes

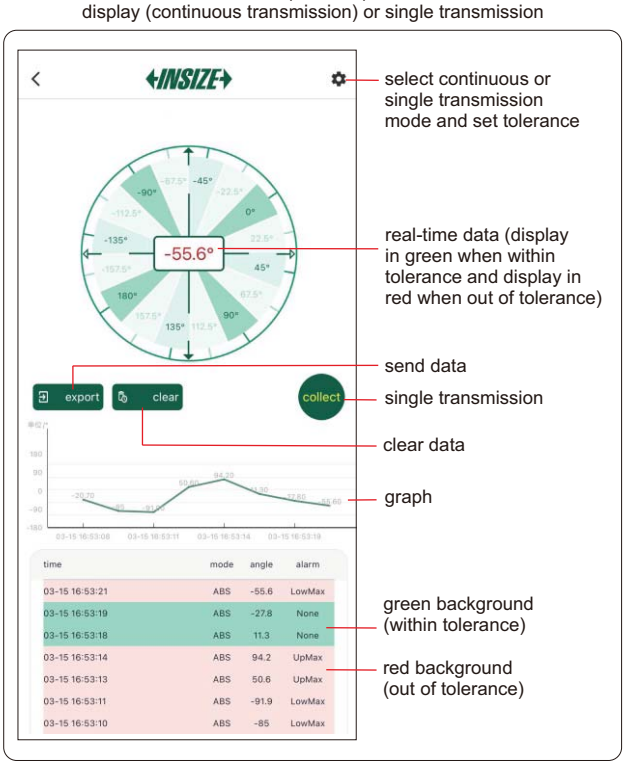




VIDEO

Code	Range	Resolution	Accuracy
2198-2	4x90°	0.1° (=1.745mm/m)	at 0°and 90°: ±0.1°; at others: ±0.2°

Android and iPhone APP (included), can choose real-time display (continuous transmission) or single transmission



19

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FRAME LEVELS

INSIZE PLUS
MADE IN EUROPE

NO NEED TO SET ZERO BEFORE USE



4906-150

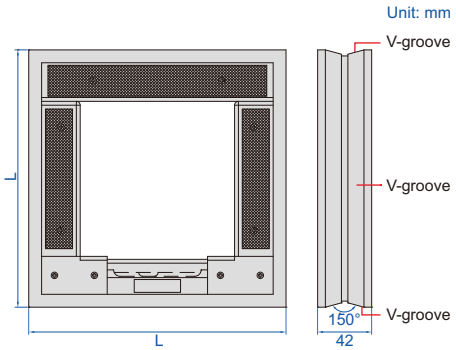
magnet on the left side





4906-150M

- No need to set zero before use
- Three V-grooves for shafts (shafts dia. 19.3~115.9mm)
- With longitudinal vial



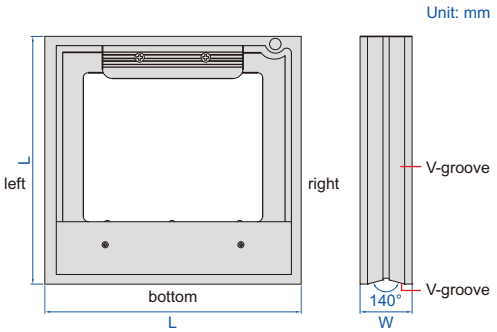
19

Code		Size (LxL)	Remark
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.1mm/m (=0.0057°)		
4906-150	4906-B150	150x150mm	–
4906-200	4906-B200	200x200mm	–
4906-300	4906-B300	300x300mm	–
4906-150M	4906-B150M	150x150mm	with magnet
4906-200M	4906-B200M	200x200mm	with magnet
4906-300M	4906-B300M	300x300mm	with magnet

FRAME LEVELS

VIDEO

- V-groove on bottom and left for shafts (shafts dia. 15~68mm)
- With transverse vial





4902-200

Code		Size (LxL)	W
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.05mm/m (=0.0029°)		
4902-150	4902-C150	150x150mm	40mm
4902-200	4902-C200	200x200mm	40mm
4902-300	4902-C300	300x300mm	45mm

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NO NEED TO SET ZERO BEFORE USE

BLOCK LEVELS

INSIZE PLUS
MADE IN EUROPE

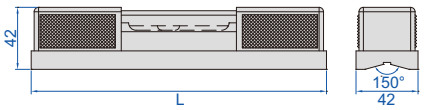
- No need to set zero before use
- V-groove on bottom for shafts (shafts dia. 19.3~115.9mm)
- With longitudinal vial



4905-200

Code		Size (L)
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.1mm/m (=0.0057°)	
4905-160	4905-B160	160mm
4905-200	4905-B200	200mm
4905-300	4905-B300	300mm
4905-500	4905-B500	500mm

Unit: mm



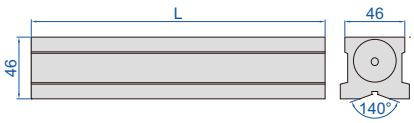
VIDEO

POPULAR MODEL

BLOCK LEVELS

- V-groove on bottom for shafts (shafts dia. 15~68mm)
- With transverse vial

Unit: mm





4903-200A

Code		Length (L)
Sensitivity 0.02mm/m (=0.001°)	Sensitivity 0.05mm/m (=0.0029°)	
4903-150A	4903-C150	150mm
4903-200A	4903-C200	200mm
4903-300A	4903-C300	300mm

19

NO NEED TO SET ZERO BEFORE USE

SHORT LEVEL

INSIZE PLUS
MADE IN EUROPE

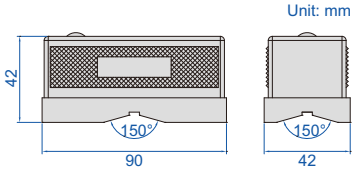
- No need to set zero before use
- Suitable for small spaces like crankshaft
- Longitudinal and transverse V-grooves on bottom for shafts (shafts dia. 19.3~115.9mm)
- With transverse vial



4907-90

Code	Length	Sensitivity
4907-90	90mm	0.1mm/m (=0.0057°)

Unit: mm



NO NEED TO SET ZERO BEFORE USE

MINI LEVEL

INSIZE PLUS
MADE IN EUROPE

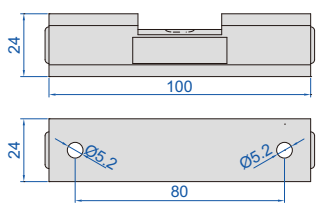
- No need to set zero before use
- With mounting holes (for M5 screws)



4908-100

Code	Length	Sensitivity
4908-100	100mm	0.1mm/m (=0.0057°)

Unit: mm

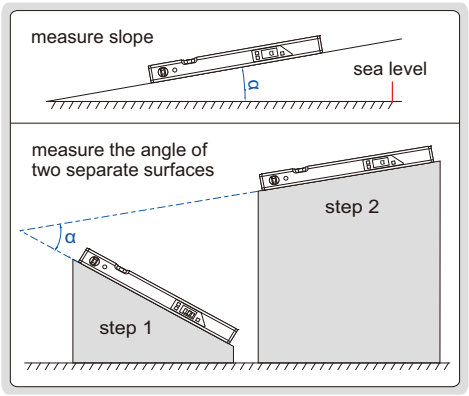


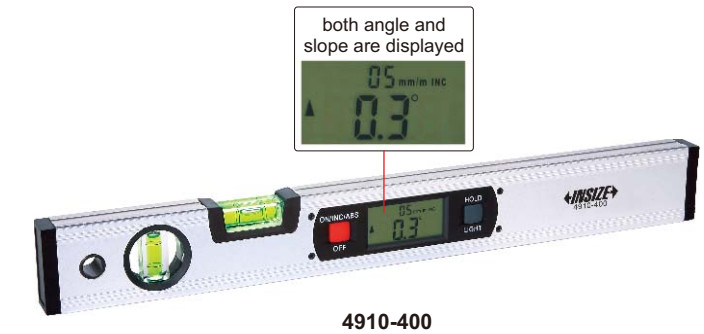
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DIGITAL LEVELS AND SLOPE METERS

ABSOLUTE LEVEL | BACKLIGHT | WORKING TEMPERATURE 0°C ~ 50°C

VIDEO



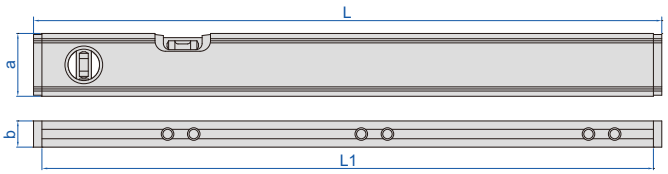


4910-400



4910-600

- With transverse and longitudinal vials
- Used as level and slope meter
- Aluminum frame, magnetic bottom
- The sea level is permanently set inside the chip, zero setting is not needed when batteries are replaced
- Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm (not for **4910-400**), unit (mm/m, %, in/ft), conversion (not for **4910-400**), backlight
- The display flips over when the bottom faces up
- Two AAA batteries
- Automatic power off



(mm)

Code	Range	Resolution	Accuracy	Remark	L	L1	a	b
4910-400	0~360° (90°×4)	angle: 0.1°; slope: 1mm/m	±0.2°	both angle and slope are displayed	416	400	50	21
4910-600	0~360° (90°×4)	at 0° and 90°: 0.05° (=0.8725mm/m); at others: 0.1° (=1.745mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°	at 0° and 90° buzzer alarms	600	585	60	25

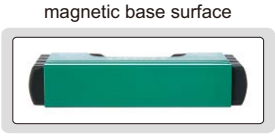
19

HANDY LEVEL

LIFETIME WARRANTY VIALS

MAGNETIC BASE

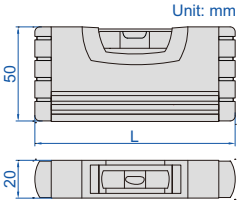
magnetic base surface





4912-100

Unit: mm



packaging



- Shockproof vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

Code	Size (L)	Accuracy
4912-100	100mm	0.5mm/m

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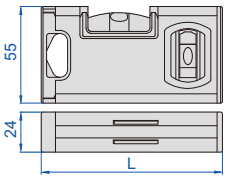
HANDY LEVELS

MAGNETIC BASE | LIFETIME WARRANTY VIALS



4922-100

Unit: mm

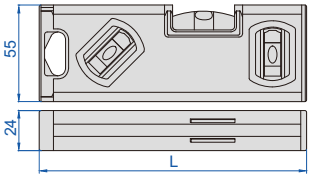


2 vials



4922-150

Unit: mm



3 vials

Code	Size (L)	Accuracy	Number of vials
4922-100	100mm	0.5mm/m	2
4922-150	150mm	0.5mm/m	3
4922-200	200mm	0.5mm/m	3

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

CASTING ALUMINUM LEVEL

MAGNETIC BASE | LIFETIME WARRANTY VIALS

magnetic bottom surface (milled)





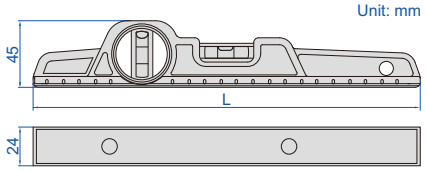
4913-250

packaging



- Shockproof horizontal and vertical vials
- Magnetic base
- Working temperature: -15°C~55°C
- Casting aluminum body

Unit: mm



Code	Size (L)	Accuracy
4913-250	250mm	0.5mm/m

ALUMINUM LEVEL

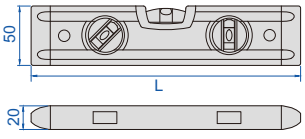
MAGNETIC BASE | LIFETIME WARRANTY VIALS



4921-230

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

Unit: mm



Code	Size (L)	Accuracy
4921-230	230mm	0.5mm/m

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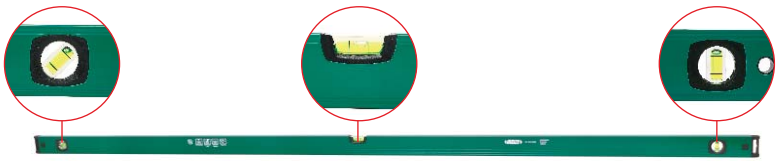
ALUMINUM LEVELS

LIFETIME WARRANTY VIALS

MAGNETIC BASE



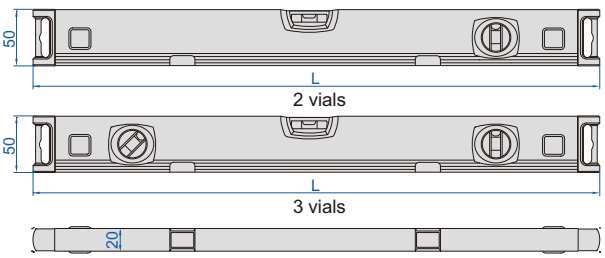
4914-600



4914-2000

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

Unit: mm



magnetic bottom surface (milled)



Code	Size (L)	Accuracy	Number of vials
4914-300	300mm	0.5mm/m	2
4914-600	600mm	0.5mm/m	2
4914-800	800mm	0.5mm/m	2
4914-1000	1000mm	0.5mm/m	2
4914-1200	1200mm	0.5mm/m	2
4914-2000	2000mm	0.5mm/m	3

19

ALUMINUM LEVELS

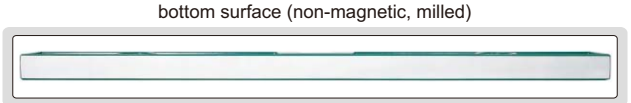
LIFETIME WARRANTY VIALS

- Top and bottom working surfaces
- Shock-proof and UV-proof vials
- Die casting aluminum alloy frame
- Zero position of horizontal vial can be set
- One graduation of horizontal vial is 2% slope
- Working temperature: -15°C~55°C

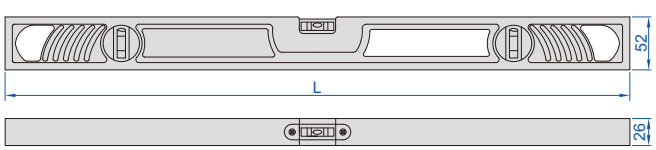


4911-600

bottom surface (non-magnetic, milled)



Unit: mm



Code	Size (L)	Accuracy
4911-600	600mm	0.5mm/m
4911-800	800mm	0.5mm/m

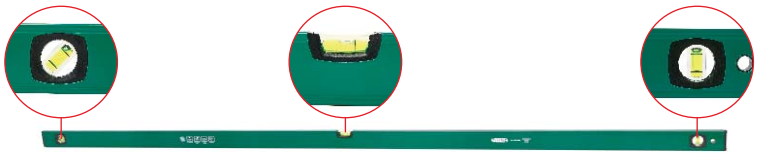
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ALUMINUM LEVELS (BASIC TYPE)

MAGNETIC BASE | LIFETIME WARRANTY VIALS



4918-300

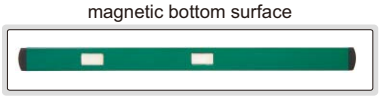


4918-2000

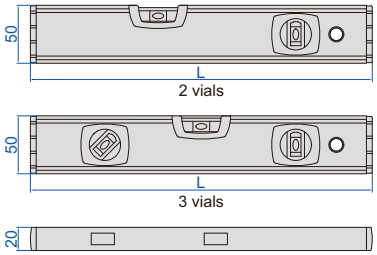
Code	Size (L)	Accuracy	Number of vials
4918-300	300mm	1mm/m	2
4918-600	600mm	1mm/m	2
4918-800	800mm	1mm/m	2
4918-1000	1000mm	1mm/m	2
4918-1200	1200mm	1mm/m	2
4918-2000	2000mm	1mm/m	3

- Shock-proof and UV-proof vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

magnetic bottom surface



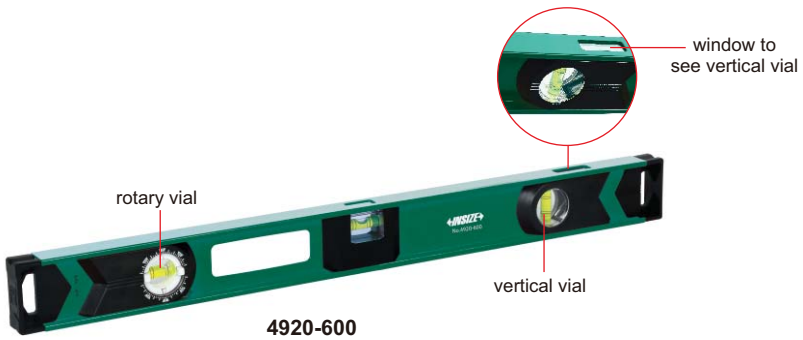
Unit: mm



ALUMINUM LEVELS (WITH ROTARY VIAL)

LIFETIME WARRANTY VIALS

- Shockproof and UV-proof vials
- Horizontal, vertical and rotary vials
- Rotary vial, range: 0°~360°, graduation: 5°
- Plumb window
- Shock absorbing rubber end caps
- Working temperature: -15°C~55°C

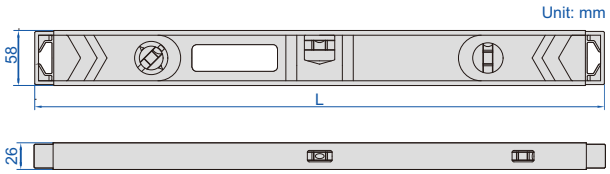


4920-600

Code	Size (L)	Accuracy
4920-400	400mm	0.5mm/m
4920-600	600mm	0.5mm/m
4920-800	800mm	0.5mm/m
4920-900	900mm	0.5mm/m
4920-1000	1000mm	0.5mm/m
4920-1200	1200mm	0.5mm/m

VIDEO

Unit: mm



ALUMINUM LEVEL WITH RULER

LIFETIME WARRANTY VIALS

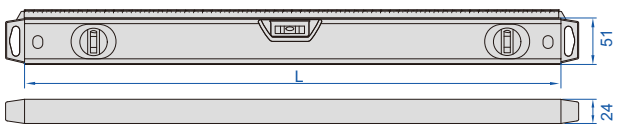
- Shockproof horizontal and vertical vials
- Non-magnetic milled base
- Shock absorbing rubber end caps
- Range of ruler: 0-60cm, graduation: 1mm
- Working temperature: -15°C~55°C



4923-600

Code	Size (L)	Accuracy
4923-600	600mm	0.5mm/m

Unit: mm



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CROSS-LINE LASER LEVEL
CODE 4917-30

IP54 WATERPROOF

AUDIBLE AND VISUAL ALARM WHEN OUT OF ±3°

VIDEO

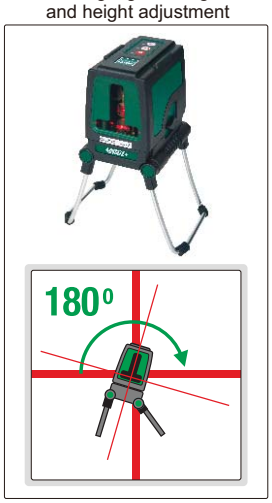
- Red horizontal and vertical cross laser lines
- Self-leveling within ±3°, self-leveling time within 4s, audible and visual alarm when out of ±3°
- Folding legs for angle and height adjustment
- Outdoor use with the detector (code: **4917-DETECTOR**)



application examples

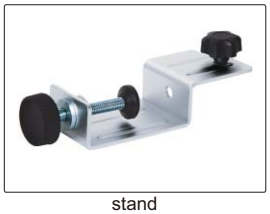


folding legs for angle and height adjustment



SPECIFICATION

Laser line width	2±0.5mm (within 5m)
Laser type	630~660nm, class II, <1mW
Beam angle	120±0.5°
Self-leveling range	±3°
Working distance	indoor: 30m, outdoor: 50m with detector (**optional**)
Accuracy	0.2mm/m
Operation temperature	-10~40°C
Power supply	3×AA batteries, for 3 hours working
Dimension	100×82×104mm
Weight	620g



stand
(included with outdoor detector)

OUTDOOR DETECTOR (OPTIONAL)

Detecting distance	horizontal 1~50m, vertical 1~30m
Detecting accuracy *	high accuracy ±1.5mm, low accuracy ±2. 5mm
Power supply	9V battery
Dimension	168×58×30mm
Weight	140g (battery included)

* Use high accuracy detection mode within 15m, use low accuracy detection mode over 15m



outdoor detector (**optional**)

STANDARD DELIVERY

Main unit	1 pc
1/4" to 5/8" tripod adaptor	1 pc
Battery (AA)	3 pcs

OPTIONAL ACCESSORY

Outdoor detector	4917-DETECTOR

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INDICATOR FLASHING WHEN OUT OF ±5°

IP65 WATERPROOF

SELF-LEVELING ROTARY LASER
CODE GRL-L340

VIDEO




detector (included)


remote controller (included)

- Applicable fields: construction, decoration, pipeline and equipment installation
- Green laser beam rotates 360° horizontally or vertically
- Self-leveling range ±5° on both X and Y planes
- Alarm when inclination is out of ±5°
- ±5° leveling range for manual mode on both X and Y planes
- 5 variable speeds 0-600rpm
- 6 scan modes
- Plumb up and plumb down dots
- Remote control for long distance
- Power supply: AC or DC


bracket for C battery (included)


beam finder glasses (included)


tripod (included)

application examples



horizontal leveling | vertical leveling | working with detector

SPECIFICATION

Working range		indoor 50m, outdoor 300m (with detector)
Self leveling range		±5°
Horizontal/vertical beam accuracy		±0.1mm/m
Main laser type		520~540nm, class 2, <1mW
Auxiliary laser type		645~655nm, class 2, <1mW
Rotating speed		0/60/120/300/600rpm
Scanning range		0/10/45/90/180/360°
Setting slope		X axis: ±5°, Y axis: ±5°
Operation temperature		-20~50°C
Maximum remote control distance		20m
Power supply	remote controller	2×1.5V AAA batteries
	main unit	NI-MH batteries or 4×1.5V C batteries
	detector	1x9V battery
Dimension		210×210×213mm
Weight		2.5kg

STANDARD DELIVERY

Main unit (including NI-MH batteries)	1 pc
C battery and bracket	1 set
Detector	1 pc
Remote controller	1 pc
Beam finder glasses	1 pc
Laser target	1 pc
Power adapter	1 pc
AAA battery	2 pcs
9V battery	1 pc
Tripod	1 pc

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Linear Scales
Page 455-457/459



Digital Readouts
Page 458-459



Scales
Page 460



Air Gages And Displays
Page 461



Laser Scan Micrometers
Page 462-463



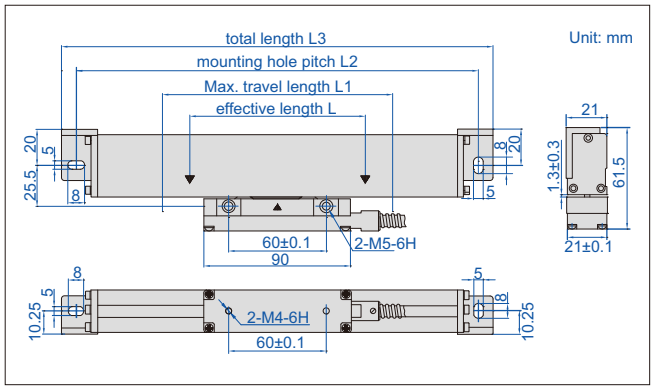
Spectrometers
Page 464-468

LINEAR SCALES (TTL SIGNAL)

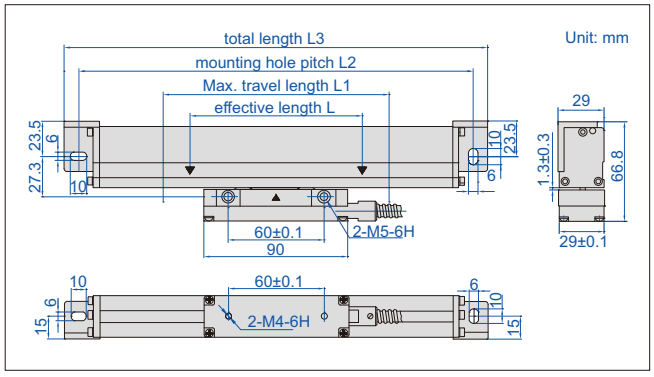


ISL-A1-300

Series ISL-A1 and ISL-A5



Series ISL-B5



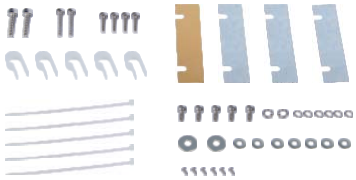
Effective length (L)	Code		
	Thin type		Thick type
	Series ISL-A1	Series ISL-A5	Series ISL-B5
50mm	ISL-A1-50	ISL-A5-50	ISL-B5-50
100mm	ISL-A1-100	ISL-A5-100	ISL-B5-100
150mm	ISL-A1-150	ISL-A5-150	ISL-B5-150
200mm	ISL-A1-200	ISL-A5-200	ISL-B5-200
250mm	ISL-A1-250	ISL-A5-250	ISL-B5-250
300mm	ISL-A1-300	ISL-A5-300	ISL-B5-300
350mm	ISL-A1-350	ISL-A5-350	ISL-B5-350
400mm	ISL-A1-400	ISL-A5-400	ISL-B5-400
450mm	ISL-A1-450	ISL-A5-450	ISL-B5-450
500mm	ISL-A1-500	ISL-A5-500	ISL-B5-500
550mm	ISL-A1-550	ISL-A5-550	ISL-B5-550
600mm	ISL-A1-600	ISL-A5-600	ISL-B5-600
650mm	ISL-A1-650	ISL-A5-650	ISL-B5-650
700mm	ISL-A1-700	ISL-A5-700	ISL-B5-700
750mm	ISL-A1-750	ISL-A5-750	ISL-B5-750
800mm	ISL-A1-800	ISL-A5-800	ISL-B5-800
850mm	ISL-A1-850	ISL-A5-850	ISL-B5-850
900mm	ISL-A1-900	ISL-A5-900	ISL-B5-900
950mm	ISL-A1-950	ISL-A5-950	ISL-B5-950
1000mm	ISL-A1-1000	ISL-A5-1000	ISL-B5-1000
1100mm			ISL-B5-1100
1200mm			ISL-B5-1200
1300mm			ISL-B5-1300
1400mm			ISL-B5-1400
1500mm			ISL-B5-1500
1600mm			ISL-B5-1600
1700mm			ISL-B5-1700
1800mm			ISL-B5-1800
1900mm			ISL-B5-1900
2000mm			ISL-B5-2000
2100mm			ISL-B5-2100
2200mm			ISL-B5-2200
2300mm			ISL-B5-2300
2400mm			ISL-B5-2400
2500mm			ISL-B5-2500
2600mm			ISL-B5-2600
2700mm			ISL-B5-2700
2800mm			ISL-B5-2800
2900mm			ISL-B5-2900
3000mm			ISL-B5-3000
3100mm			ISL-B5-3100
3200mm			ISL-B5-3200

STANDARD DELIVERY

Main unit	1 pc
'L' shape support	1 pc
Anti-dust cover	1 pc
Plain base	1 pc (for L≥1500mm)
Mounting accessories	1 package



'L' shape support (included)



mounting accessories (included)

To be continued

Continued from previous page


anti-dust cover (included)


plain base (included, for L≥1500mm)

SPECIFICATION

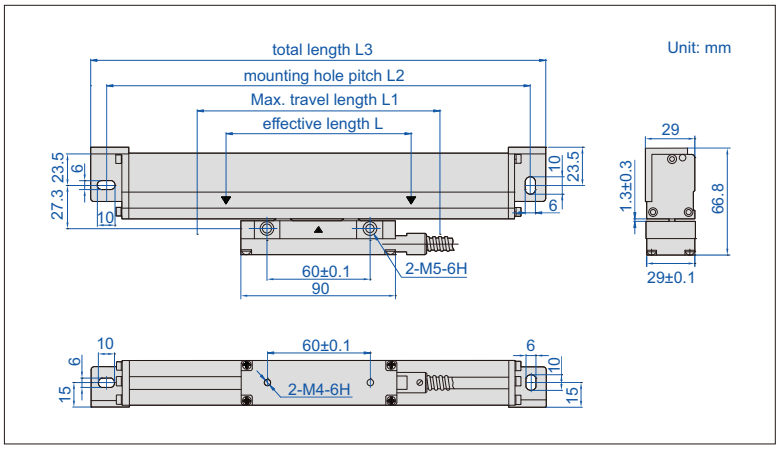
Code	Series ISL-A1		Series ISL-A5		Series ISL-B5	
L1 (mm)	L+30 (L≤900)	L+50 (L>900)	L+30 (L≤900)	L+50 (L>900)	L+30 (L≤900)	L+50 (L>900)
L2 (mm)	L+132 (L≤900)	L+152 (L>900)	L+132 (L≤900)	L+152 (L>900)	L+136 (L≤900)	L+156 (L>900)
L3 (mm)	L+148 (L≤900)	L+168 (L>900)	L+148 (L≤900)	L+168 (L>900)	L+154 (L≤900)	L+174 (L>900)
Resolution	1μm		5μm		5μm	
Max. response speed	50m/min		90m/min		60m/min	
Scale grating pitch	20μm					
Scale reference point pitch	50mm					
Accuracy	±(5+5L/1000)μm L is the effective length in mm					
Cable length	3.5m (L: 50-950mm), 5m (L: 1000-1500mm), 10m (L: 1600-3200mm)					
Output signal	TTL					
Socket	9PD					
Power supply	5±0.5V					

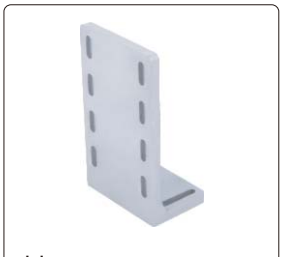
LINEAR SCALES (RS422 SIGNAL)

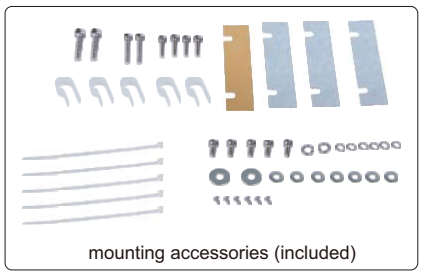


ISL-B5-450A

- Connected to digital display box or PLC




'L' shape support (included)

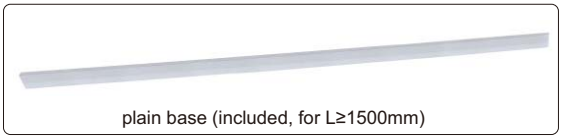

mounting accessories (included)

To be continued

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Continued from previous page


anti-dust cover (included)


plain base (included, for L≥1500mm)

Effective length (L)	Code	
	Series ISL-B1	Series ISL-B5
50mm	ISL-B1-50A	ISL-B5-50A
100mm	ISL-B1-100A	ISL-B5-100A
150mm	ISL-B1-150A	ISL-B5-150A
200mm	ISL-B1-200A	ISL-B5-200A
250mm	ISL-B1-250A	ISL-B5-250A
300mm	ISL-B1-300A	ISL-B5-300A
350mm	ISL-B1-350A	ISL-B5-350A
400mm	ISL-B1-400A	ISL-B5-400A
450mm	ISL-B1-450A	ISL-B5-450A
500mm	ISL-B1-500A	ISL-B5-500A
550mm	ISL-B1-550A	ISL-B5-550A
600mm	ISL-B1-600A	ISL-B5-600A
650mm	ISL-B1-650A	ISL-B5-650A
700mm	ISL-B1-700A	ISL-B5-700A
750mm	ISL-B1-750A	ISL-B5-750A
800mm	ISL-B1-800A	ISL-B5-800A
850mm	ISL-B1-850A	ISL-B5-850A
900mm	ISL-B1-900A	ISL-B5-900A
950mm	ISL-B1-950A	ISL-B5-950A
1000mm	ISL-B1-1000A	ISL-B5-1000A

Effective length (L)	Code	
	Series ISL-B1	Series ISL-B5
1100mm	ISL-B1-1100A	ISL-B5-1100A
1200mm	ISL-B1-1200A	ISL-B5-1200A
1300mm	ISL-B1-1300A	ISL-B5-1300A
1400mm	ISL-B1-1400A	ISL-B5-1400A
1500mm	ISL-B1-1500A	ISL-B5-1500A
1600mm	ISL-B1-1600A	ISL-B5-1600A
1700mm	ISL-B1-1700A	ISL-B5-1700A
1800mm	ISL-B1-1800A	ISL-B5-1800A
1900mm	ISL-B1-1900A	ISL-B5-1900A
2000mm	ISL-B1-2000A	ISL-B5-2000A
2100mm	ISL-B1-2100A	ISL-B5-2100A
2200mm	ISL-B1-2200A	ISL-B5-2200A
2300mm	ISL-B1-2300A	ISL-B5-2300A
2400mm	ISL-B1-2400A	ISL-B5-2400A
2500mm	ISL-B1-2500A	ISL-B5-2500A
2600mm	ISL-B1-2600A	ISL-B5-2600A
2700mm	ISL-B1-2700A	ISL-B5-2700A
2800mm	ISL-B1-2800A	ISL-B5-2800A
2900mm	ISL-B1-2900A	ISL-B5-2900A
3000mm	ISL-B1-3000A	ISL-B5-3000A

SPECIFICATION

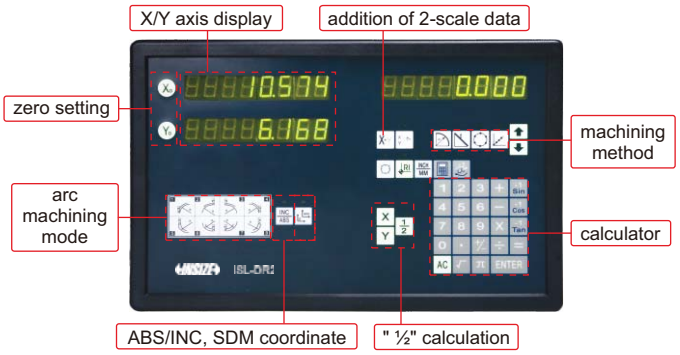
Code	Series ISL-B1	Series ISL-B5
L1 (mm)	L+30 (L≤900), L+50 (L>900)	L+30 (L≤900), L+50 (L>900)
L2 (mm)	L+136 (L≤900), L+156 (L>900)	L+136 (L≤900), L+156 (L>900)
L3 (mm)	L+154 (L≤900), L+174 (L>900)	L+154 (L≤900), L+174 (L>900)
Resolution	1μm	5μm
Thickness	29mm	
Max. response speed	60m/min	
Scale grating pitch	20μm	
Scale reference point pitch	50mm	
Accuracy	±(5+5L/1000)μm, L is the effective length in mm	
Cable length	3.5m (L: 50-950mm), 5m (L: 1000-1900mm), 10m (L: 2000-3000mm)	
Output signal	RS422	
Socket	9 PD	
Power supply	5±0.25V	

STANDARD DELIVERY

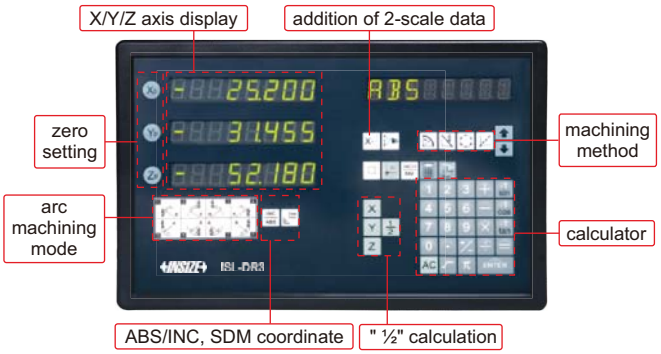
Main unit	1 pc
'L' shape support	1 pc
Anti-dust cover	1 pc
Plain base	1 pc (for L≥1500mm)
Mounting accessories	1 package

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DIGITAL READOUTS



ISL-DR2



ISL-DR3



software flash disk (included)

20

- For **ISL-A1**, **ISL-A5**, **ISL-B1**, **ISL-B5** series linear scales

SPECIFICATION

Code	ISL-DR2	ISL-DR3
Application	two-axis	three-axis
Scale input ports	2	3
Resolution	0.05μm, 0.1μm, 0.2μm, 0.5μm, 1μm, 2μm, 5μm, 10μm, 20μm, 50μm	
Functions	addition of 2-scale data, linearity error compensation, smoothing, RS232C interface unit, BCD code out, zero setting, preset, resolution setting, counting direction setting, inch/mm conversion,ABS/INC conversion, expansion/contraction coefficient setting, "½" calculation, detecting RI, bolt-hole circle machining, ramp circle machining	
Power supply	110/220V, 50/60Hz	
Dimension	295×185×45mm	
Weight	1.45kg	

STANDARD DELIVERY

Main unit	1 pc
Mounting bracket	1 pc
Ground cable	1 pc
RS232C cable	1 pc
Software flash disk for RS232C	1 pc





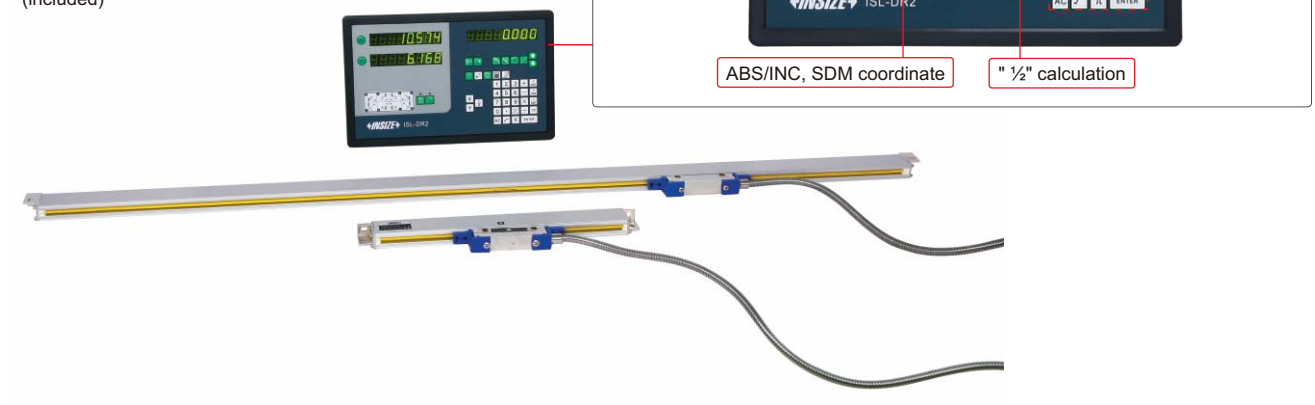
mounting bracket (included)

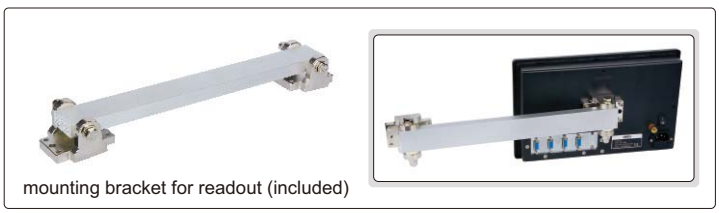
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LINEAR SCALE AND READOUT SET FOR LATHE
CODE ISL-SET1

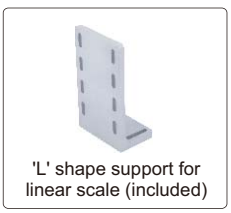


software flash disk
(included)

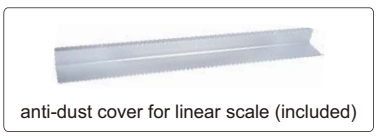




mounting bracket for readout (included)



'L' shape support for
linear scale (included)



anti-dust cover for linear scale (included)

20

READOUT SPECIFICATION

Application	two-axis
Scale input ports	2
Resolution	1μm
Functions	addition of 2-scale data, linearity error compensation, smoothing, RS232C interface unit, BCD code out, zero setting, preset, resolution setting, counting direction setting, inch/mm conversion, ABS/INC conversion, expansion/contraction coefficient setting, "½" calculation, detecting RI, bolt-hole circle machining, ramp circle machining
Power supply	110/220V, 50/60Hz
Dimension	295×185×45mm
Weight	1.45kg

LINEAR SCALE SPECIFICATION

X-axis	200mm
Y-axis	1000mm
Max. response speed	50m/min
Scale grating pitch	20μm
Scale reference point pitch	50mm
Accuracy	±(5+5L/1000)μm L is the effective length in mm
Cable length	200mm scale: 3.5m, 1000mm scale: 5m

STANDARD DELIVERY

Readout box	1 pc
200mm linear scale	1 pc
1000mm linear scale	1 pc
Mounting bracket for readout	1 pc
Ground cable for readout	1 pc
RS232C cable for readout	1 pc
Software flash disk for RS232C of readout	1 pc
'L' shape support for linear scale	1 pc
Anti-dust cover for linear scale	1 pc
Mounting accessories for linear scale	1 package

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DIGITAL HORIZONTAL SCALES

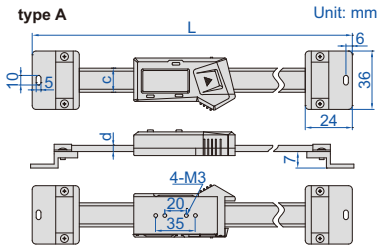
DATA OUTPUT

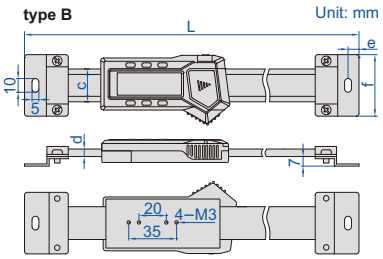


7101-300A

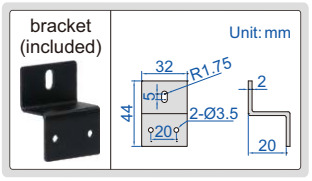


7101-400A

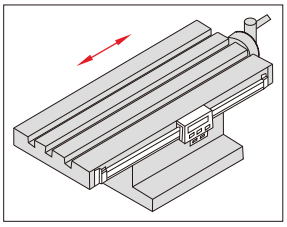




- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, zero, mm/inch,
  type B: on/off, zero, mm/inch, ABS, data preset
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Supplied with bracket to be mounted on the back



example of application



With data interface (data output cable code 7315-21 page 4, **7302-21** page 12, **7305-21** page 8, **optional)** **(mm)**

Code	Range	Type	Accuracy	L	c	d
7101-100A	100mm	A	±0.02mm	215	16	4
7101-150A	150mm	A	±0.03mm	265	16	4
7101-200A	200mm	A	±0.03mm	315	16	4
7101-300A	300mm	A	±0.04mm	445	16	4

With data interface (data output cable code 7315-22 page 4, **7302-22** page 12, **7305-22** page 8, **optional)** **(mm)**

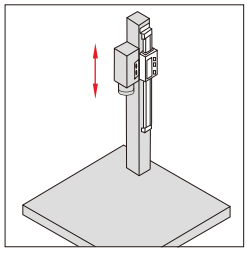
Code	Range	Type	Accuracy	L	c	d	e	f
7101-400A	400mm	B	±0.05mm	590	24	5.5	8	45
7101-500A	500mm	B	±0.05mm	690	24	5.5	8	45
7101-600A	600mm	B	±0.08mm	790	24	5.5	8	45
7101-800A	800mm	B	±0.10mm	990	24	5.5	8	45
7101-1000A	1000mm	B	±0.10mm	1240	31	10.5	10	60

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DIGITAL VERTICAL SCALES

DATA OUTPUT

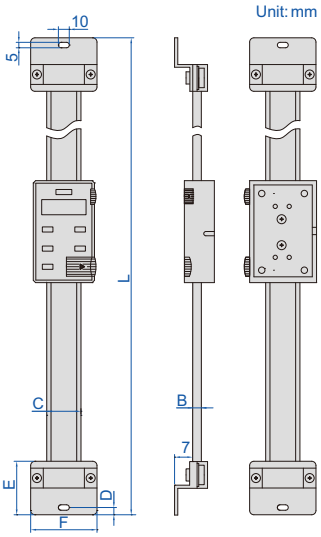
example of application

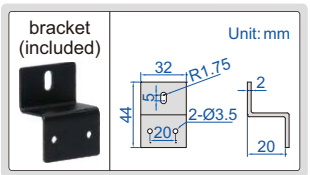


- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch,
  ABS/INC, data hold, TOL, set
- Battery LR44, data output
- Made of stainless steel
- Supplied with bracket to be mounted on the back
- Optional accessory: wireless transmitter
  (code **7315-1150** page 6), data output cable
  (code **7302-SPC7** page 13, keyboard format),
  data output cable (code **7305-1150** page 9, serial port format)



7102-300





(mm)

Code	Range	Accuracy	B	C	D	E	F	L
7102-100	100mm/4"	±0.02mm	4	20	6	24	40	245
7102-150	150mm/6"	±0.03mm	4	20	6	24	40	296
7102-200	200mm/8"	±0.03mm	4	20	6	24	40	345
7102-300	300mm/12"	±0.04mm	4	20	6	24	40	445
7102-400	400mm/16"	±0.05mm	4	20	6	24	40	545
7102-500	500mm/20"	±0.05mm	5.5	24	8	32	45	685
7102-600	600mm/24"	±0.08mm	5.5	24	8	32	45	785
7102-800	800mm/32"	±0.10mm	5.5	24	8	32	45	985
7102-1000	1000mm/40"	±0.10mm	10.5	31	9.5	40	60	1245

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CUSTOM-MADE

AIR GAGES
CODE 9401-PB

air plug gage and standard rings	air ring gage and standard plain plug gages	air snap gage and standard column gages	air taper gage and standard gages
			
measure diameter of hole, range: Ø4~230mm	measure diameter of shaft, range: Ø4~160mm	measure diameter of shaft, range: Ø15~160mm	

DATA OUTPUT

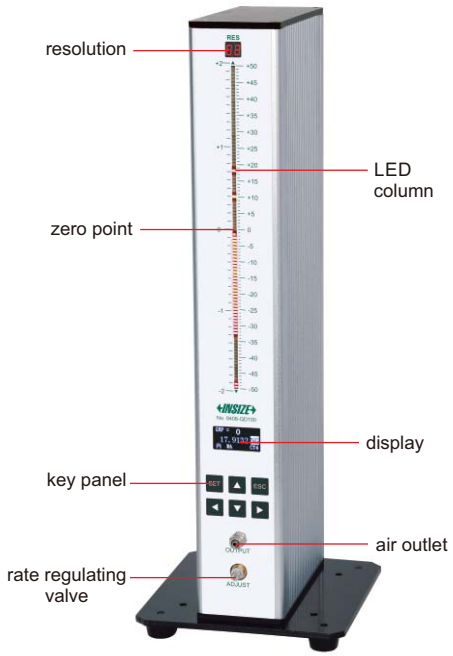
AIR GAGE DISPLAY
CODE 9408-QD100


air filter (**optional**)

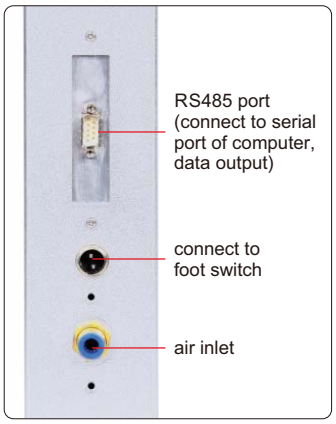

pressure regulating valve (**optional**)


foot switch (**optional**)


RS485 cable (**optional**)

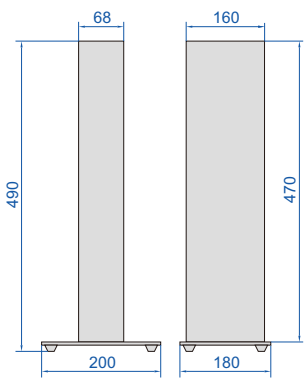


back of display



- Can store 10 measuring programs, and the program can be switched quickly
- Data storage function, support manual and automatic storing, 1500 groups data can be stored

Unit: mm



VIDEO

SPECIFICATION

LED quantity	101 pcs			
LED color	red, orange, green			
LED height	254mm			
Range, resolution and accuracy	range	resolution		accuracy
		LED	display	
	10μm	0.1μm	0.1μm	0.2μm
	20μm	0.2μm	0.1μm	0.4μm
	50μm	0.5μm	0.1μm	1μm
	100μm	1μm	0.1μm	2μm
Unit	mm, μm			
Air supply	dry and clean, 0.4~0.8MPa			
Data interface	RS485			
Operation temperature	-20~45°C			
Power supply	110~220V, 50/60Hz			
Dimension (L×W×H)	200×180×490mm			
Weight	4.5kg			

STANDARD DELIVERY

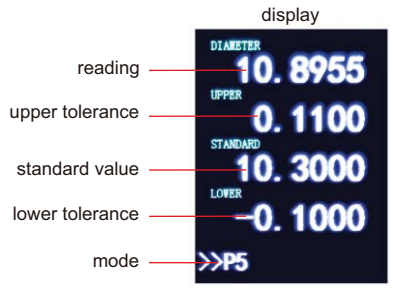
Main unit	1 pc

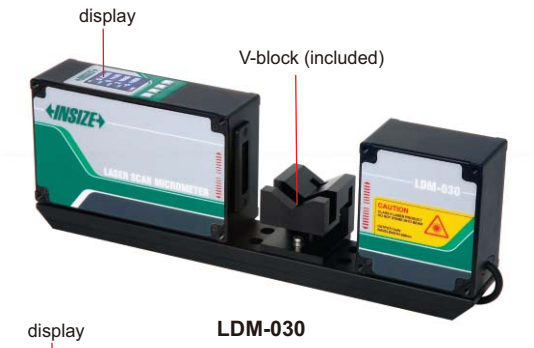
OPTIONAL ACCESSORY

Air filter	**9401-FILTER-A**
Pressure regulating valve	**9404-PRV**
RS485 cable	**9408-CB**
Foot switch	**9408-FS**
Data output cable (keyboard format)	**7302-9408**

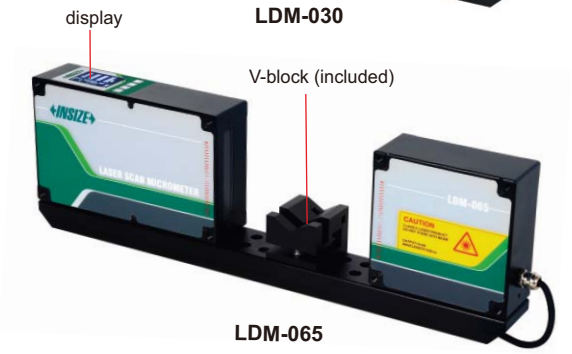
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LASER SCAN MICROMETERS



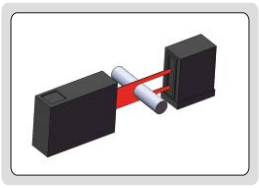


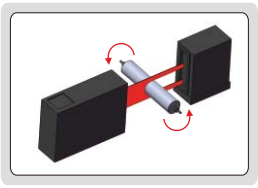
LDM-030

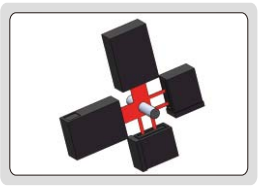


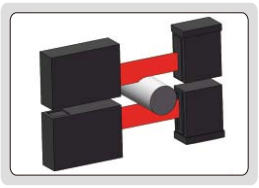
LDM-065

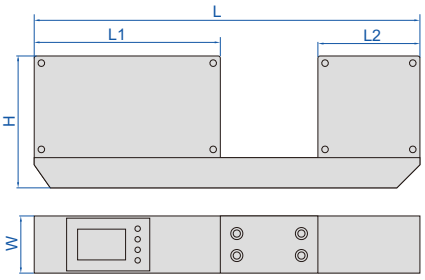
- Measure external diameter, ellipticity, run-out, maximum diameter of tools, etc.
- Can be used for transparent or non transparent workpieces
- Tolerance measurement
- Online or offline measurement
- Connected with computer and PLC


measure external diameter


measure ellipticity and run-out


two-axis measurement


large size measurement



Dimension (mm)

Code	LDM-030	LDM-065
L	351	469
W	52	52
H	120	146
L1	170	203
L2	95	131


calibration gage (**optional**)

SPECIFICATION

Code	LDM-030	LDM-065
Measuring range	0.1~30mm	0.5~65mm
Resolution	0.01/0.1/1/10/100μm selectable	
25°C accuracy	±(0.5+10%D)μm, D is measuring diameter in mm	
Repeatability	±(0.3+5%D)μm, D is measuring diameter in mm	
Laser wave length	650nm	
Measuring speed	800~3200times/s (adjustable)	
Operation temperature	0~50°C	
Operation humidity	35~85RH without condensation	
Output	dual channel RS485	
Alarm output	24V, 1A	
Power supply	DC24V, 2A	
Dimension (L×W×H)	351×52×120mm	469×52×146mm
Weight	5kg	8kg

STANDARD DELIVERY

Main unit	1 pc
V-block	1 pc
AC/DC adapter	1 pc
RS485 cable	1 pc

OPTIONAL ACCESSORY

Calibration gage	custom made

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VIDEO

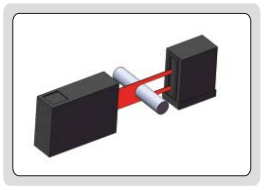
LASER SCAN MICROMETER
CODE LDM-D090



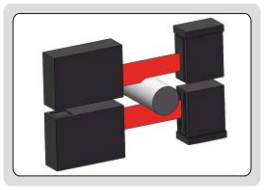


calibration gage (**optional**)

- Can measure the width and thickness of flat cables and tapes
- Can measure the outer diameter of cables, pipes and wires
- Laser scanning technology, large measurement range, high accuracy, high repeatability
- Connected with PLC and PC with RS485 interface
- Use high-precision F (θ) mirror, the swing of the measured object does not affect the measurement

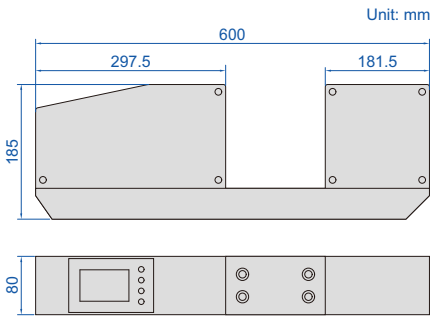


measure external diameter



large size measurement

Unit: mm



20

SPECIFICATION

Measuring range	0.5~90mm
Resolution	1μm
25°C accuracy	±(5+20%D)μm, D is measuring diameter in mm
Repeatability	±(3+20%D)μm, D is measuring diameter in mm
Laser wave length	650nm
Measuring speed	600 times/s
Operation temperature	5~45°C
Operation humidity	≤80%RH without condensation
Output	RS485/MODBUS protocol
Alarm output	24V, 1A
Power supply	AC85V~220V (50~60Hz)
Dimension (L×W×H)	600×80×185mm
Weight	6.5kg

STANDARD DELIVERY

Main unit	1 pc
V-block	1 pc
AC/DC adapter	1 pc
RS485 cable	1 pc

OPTIONAL ACCESSORY

Calibration gage	custom made

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SPECTROMETER
CODE OES-T350

VIDEO

CUSTOMIZE
CAN CUSTOMIZE OTHER METAL MATRIX DETECTION, SUCH AS: Fe (004~009), Al, Cu, Zn, Ti, Ni, Pb, etc






printer (included)


filter element (included)


electrode brush (included)


single-phase AC voltage regulator (included)


pressure valve (included)


calibration sample (included)



gray iron control sample (**optional**)


15# carbon steel control sample (**optional**)

- The standard machine can do analysis Fe 001~003
- The full-spectrum technology covers the full range of element analysis, which can determine trace amounts of carbon (C), phosphorus (P), sulfur (S) and other elements
- The analysis speed is fast, and the element composition of all channels is measured within 20 seconds
- Paschen-Runge structure with full wavelength coverage, the most concise and stable optical system structure
- Perfect aberration correction, so that the spectrometer has excellent resolution, minimize the cross interference of different elements
- Argon-filled optical chamber, effectively reducing the attenuation of P and S rays in the far ultraviolet region
- The software has automatic spectrum correction technology, can store database, trace historical data, output and print reports
- Report format can be customized, data can be sent out

To be continued

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Continued from previous page

SPECIFICATION

Optical system	optical structure	paschen-runge structure
	rowland circle of diameter	350mm
	wavelength range	160~510nm
	detector	multi high resolution CCD detectors
	pixel resolution	20pm
	full spectrum	cover the full range of element analysis
	light room temperature	34±0.5°C (be controlled automatically)
Spark source	type	digital arc and spark source/new plasma generator
	spark frequency	100~1000Hz
	plasma current	1~80A
	Ignition voltage	>7000V
Spark stand		spray discharge electrode technology reduces argon consumption and improves argon use efficiency
		good heat dissipation, continuous excitation for 100 times, the temperature of the excitation table does not rise more than 5°C
Others	measurable elements	Fe base, Al base, Cu base, Zn base, etc
	operation temperature	10~30°C, 23±2°C is recommended
	operation humidity	20%~80%RH
	power	AC220V/50Hz
	power consumption	excitation: 300W, stand by: 40W
	argon quality	99.999% high purity argon, argon pressure≥4MPa
	argon consumption	5L/min during spark mode
	dimension (LxWxH)	700x660x340mm
	weight	30kg

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc
Printer	1 pc
Calibration sample	1 pc
Electrode brush	2 pcs
Filter element	2 pcs
Single-phase AC voltage regulator	1 pc
Pressure valve	1 pc

OPTIONAL ACCESSORY

Control sample	custom specifications
Argon cylinder	**OES-T350-ARGON**
Grinding prototype	code: **OES-T350-GRIND** for ferrous metal sample preparation
Small lathe	code: **OES-T350-LATHE** for non-ferrous metal sample preparation
Argon purifier	**OES-T350-PURIFIER**

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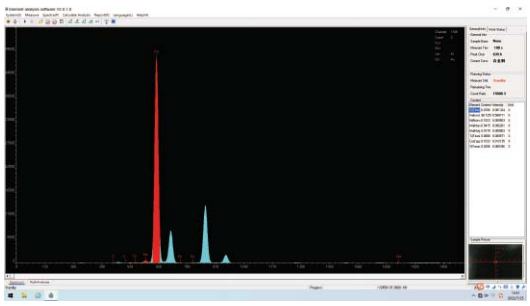
X RAY FLUORESCENCE SPECTROMETER
(RoHS DETECTOR/ALLOY COMPOSITION ANALYZER/COATING THICKNESS GAGE)
CODE XRF-B210

VIDEO

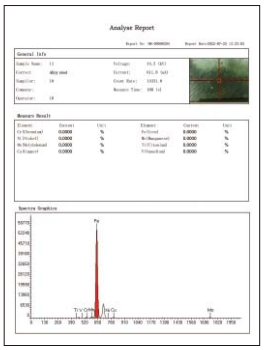
CALIBRATION CURVE CAN BE CUSTOMIZED ACCORDING TO CUSTOMER REQUIREMENTS



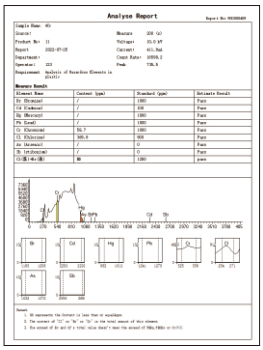




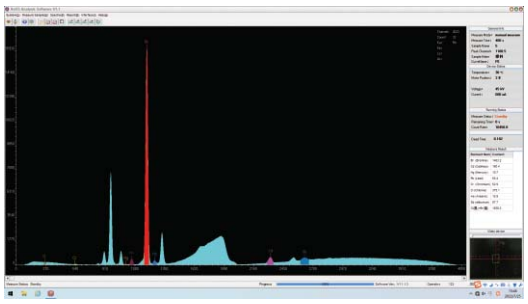
alloy composition analysis software (included)



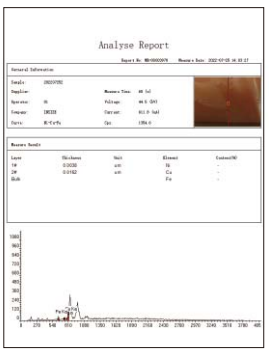
aloy composition analysis report (included)



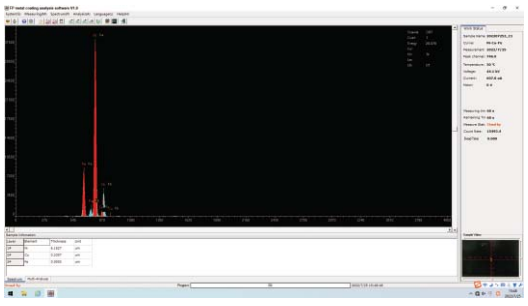
RoHS test report (included)



RoHS test software (included)



coating thickness test report (included)



coating thickness detection software (included)

To be continued

Continued from previous page

- Used for RoHS detection, alloy element analysis, coating thickness measurement
- Using SI-PIN detector with electric cooling, small size, accurate data analysis and low maintenance cost
- Seven optical path correction and collimation system, automatically switch according to different samples
- Multiple radiation leakage prevention design
- The temperature monitoring technology ensures the safe and reliable operation of the X-ray source
- Dedicated software, standard window design, friendly interface, easy to operate
- Can display multiple spectrograms at the same time and print multiple report forms
- USB3.0 interface to ensure accurate, high-speed and efficient data transmission

SPECIFICATION

Detector	type	Si-PIN electrical refrigeration semiconductor detector
	resolution	149±5 EV
	amplifier circuit module	detect the sample characteristic X-ray, further enlarge the information collected by detection
X ray excitation device	maximum output current	1mA
	power	50W, air cooling
High and low voltage power	maximum output voltage	50KV, built-in voltage overload protection
	minimum output voltage	5KV
Multi-channel pulse amplitude analyzer		maximum channel number: 4096
Optical path filter module		reduce interference light path in the process of sending x-rays, guarantee the accuracy of the detector signal
		Integrate the collimator with the filter
Collimator automatic switching module		7 kinds, Ø0.5~Ø8mm
Filter automatic switching module		5 kinds(free to choose and switch)
RoHS analysis software	elemental analysis range	S~U
	harmful element analysis	Cd, Pb, Hg, Br, Cr, Cl, As, Sb
	test time	60~200s
	detection limit	2PPM
	content analysis range	2PPM~99.9%
Alloy analysis software	elemental analysis range	Ti~U
	detection limit	100PPM
	content analysis range	100PPM~99.9%
	repeatability	0.1%
	stability	0.1%
Metal coating analysis software	elemental analysis range	Ti~U
	detection limit	0.01μm
	analysis thickness	single layer thickness 0.01~30μm
		3 layer thickness≤10μm
	repeatability	0.1μm (for outside coating less than 1μm)
	stability	0.1μm (for outside coating less than 1μm)
	light spot	within 0.2mm
Operation temperature		10~30°C
Relative humidity		10%~90%
Power		AC 220V±5V
Dimension (L×W×H)		700×460×370mm
Weight		49kg

STANDARD DELIVERY

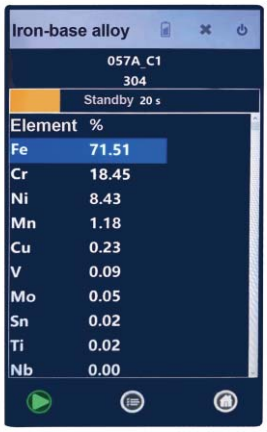
Main unit	1 pc
Standard sample	1 pc
Silver calibration	1 pc
Sample cup	2 pcs
Test film	50 pcs
Computer	1 pc
Printer	1 pc
Collimator (built-in)	7 pcs
Softerware	RoHS test software, alloy composition analysis software, coating thickness detection software

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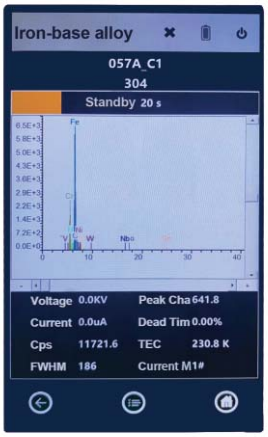
HAND-HELD SPECTROMETER
CODE HSM-A310

IP54 WATERPROOF





test



analysis

VIDEO

- Fast and non-destructive test to identify alloy grade and composition
- For all kinds of high and low temperature alloy steel, stainless steel, tool steel, chromium/molybdenum steel, nickel alloy, cobalt alloy, nickel/cobalt heat resistant alloy, titanium alloy
- Multiple tests, it can automatically calculate maximum value, minimum value and standard deviation
- IP54 dust/waterproof

SPECIFICATION

Excitation source	50KV/200μA; Ag target, integrated end window, micro X-ray tube and high voltage power supply, matching power ≥4W
Detector	Si-PIN, window area 25mm²
Elemental analysis range	Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Zr, Nb, Mo, Rh, Pd, Ag, Cd, Sn, Sb, Hf, Ta, W, Re, Pb, Bi
Alloy analysis mode	1. automatically identify alloy grade 2. alloy material qualified test mode
Collimator filter	7 groups
Display	5-inch LCD touch screen
CPU	quad-core processer, 1.4GHz, 4G memory
Memory	built-in 64G, storage data, >500000 groups
Data transmission	built-in WIFI, U disk, bluetooth (support bluetooth printer)
Data export format	EXCEL, BMP, PDF, CSV
Battery	6800mAh lithium battery, for 8 hours working time
Air pressure compensation	built-in pressure measurement module for system compensation and correction
System	Win-IOT operation system
Work environment	temperature: 0~40°C, relative humidity: 10%~90%
Dimension	250x320x80mm
Weight	1.9kg

STANDARD DELIVERY

Main unit	1 pc
Charger	1 pc
Battery	2 pcs
Test film	50 pcs
Sample cup	1 pc
Standard sample	1 pc
Protection support (including calibration silver)	1 pc
USB and cable	1 pc



standard sample (included)


protection support (included)

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INSIZE

FLAW DETECTORS

21



Digital Ultrasonic Flaw Detectors
Page 470-471



Portable Magnetic Powder Flaw Detectors
Page 472



Rechargeable UV Flaw Detection Lights
Page 473



Penetration Standard Test Blocks
Page 473

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DIGITAL ULTRASONIC FLAW DETECTOR
CODE UFD-T680

VIDEO

- The all-aluminum metal shell is strong and durable, and the electromagnetic shielding performance is very good
- Tempered glass panel, extremely hard, wear-resistant and scratch-resistant
- Full-digital multi-color high resolution (640×480 pixels) TFT LCD display
- 4 operation interface styles can be selected according to the environment
- Real-time screenshots of all pages and flaw detection reports, and save them as BMP pictures to U disk
- Export the flaw detection report as a PDF file
- Unique Fn multifunction key design
- There is no limit of the number and duration of video recording through U disk
- Memory of 500 channel files to store calibration setups and probe parameter
- Memory of 1000 wave report files to store A-Scan wave and settings
- Two fully independent gates offer a range of measurement options for signal height or distance using peak triggering
- Can choose to set the incoming wave alarm or lost wave alarm, accompanied by LED light display
- Selectable frequency ranges (automatically set by the instrument) to match probe for optimum performance
- The unique automatic gain adjustment and gain scanning function make flaw detection fast and accurate





straight-beam probe (included)



angle-beam probe (included)



USB disk (included)



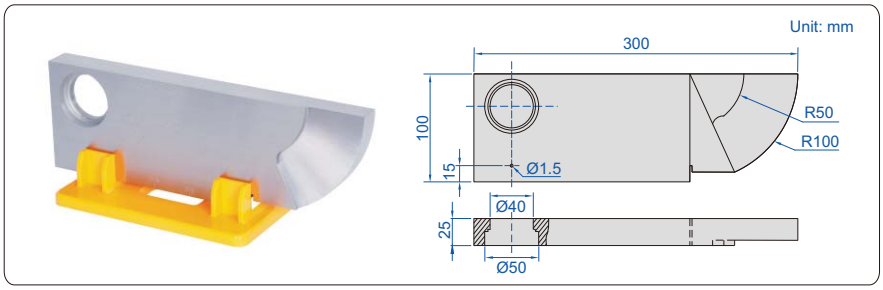
couplant (included)

FUNCTIONS

Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test result
Flaw locating	live display sound-path, projection (surface distance), depth, amplitude
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time
Curved surface correction	used for flaw detection of curved workpiece, it can display the circumferential position of defects in real time
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. The curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture
AWS D1.1	choosing this standard can reduce manual calculations and improve detection efficiency
Weld diagram	support V type, T type, L type and other weld types, acoustic path navigation real-time display, weld and defect location real-time display, scaling, easy to locate defects
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display
Crack height	the crack height is measured and calculated automatically by the diffracted wave at the end
Gate magnify	spreading of the gate range over the entire screen width
Continuous record	video recording and playback
Echo coding	display 1~9 echo display area in different colors, used to analyze the defect position
Scan freeze	display freeze holds waveform and test distance data
Peak mark	capture and mark the peak in real time
B scan	intuitively display the defect shape of the workpiece and the detection result is more intuitive

To be continued

Continued from previous page



calibration block (**optional**)

SPECIFICATION

Measuring range	0~15000mm
Working frequency	0.2~20MHz
Material velocity	100~20000m/s
Repetition frequency	20~2000Hz
Dynamic range	≥36dB
Vertical linearity	≤1.5%
Horizontal linearity	≤0.1%
Resolving power	>42dB
Sensitivity leavings	>65dB
Suppression	0~80%
Noise	≤10%
Probe selection	single crystal probe, dual crystal probe, penetrating probe, climbing probe
Pulse energy	100V, 200V, 250V, 300V, 350V, 400V, 450V, 500V (selectable)
Pulse width	30ns-510ns
Probe damping	50Ω, 150Ω, 250Ω, 500Ω (selectable)
Rectification	positive half wave, negative half wave, full wave, RF
Gates	two independent gates controllable over entire sweep range
Interface	USB 2.0
Operation temperature	-10~50°C
Relative humidity	20~95%RH
Power	build-in rechargeable battery
Size	263×170×61mm
Weight	1.92kg

STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe UFD-T60	1 pc
Single-element angle probe UFD-T61	1 pc
USB cable	1 pc
Couplant	1 bottle
Probe connecting cable	1 pc
USB disk	1 pc
Power adapter	1 pc

OPTIONAL ACCESSORY

Calibration block	**UFD-CSK1**

SPECIFICATION OF PROBE

Code	Frequency	Size	Probe type	Transducer sensor angle
UFD-T60 (included)	2.5MHz	Ø20mm	single-element straight probe	90°
UFD-T61 (included)	4.0MHz	8x9mm	single-element angle probe	60°
UFD-T62 (optional)	5.0MHz	Ø10mm	dual-element straight probe	90°
UFD-T63 (optional)	5.0MHz	Ø10mm	single-element straight probe	90°
UFD-T64 (optional)	4.0MHz	8x9mm	single-element angle probe	45°
UFD-T65 (optional)	4.0MHz	8x9mm	single-element angle probe	70°

Note: Other types of the probes are available

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PORTABLE MAGNETIC POWDER FLAW DETECTORS

VIDEO

- Conformity to standards JB/T7411-2012 ASTM E1444-05 ASTM E709 EN10228-1:1999 ISO 9934 ASTM E3024
- Multiple power supply modes available



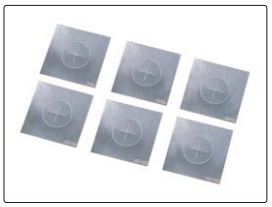
MPI-P110



DC battery pack 4400mAh **(optional)**



AC battery pack 6600mAh **(optional)**



A1 standard sensitivity test piece **(optional)**



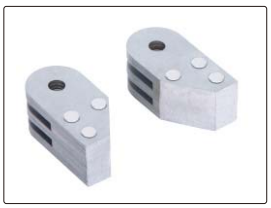
45N lifting force test block **(optional)**



177N lifting force test block **(optional)**



magnetic pole slope angle A **(optional)**



magnetic pole slope angle B **(optional)**



bag **(optional)**

21

SPECIFICATION

Code		MPI-P110	MPI-P220	MPI-P330
Magnetic field strength		>2KA/m		
Sensitivity		15/50 engraved groove clearly displayed on A1standard sensitivity test piece		
Illumination		—	white light ≥2320Lux	UV lamp ≥5220μW/cm²
Duty cycle		>50% maximum excitation time 90 seconds		>30%
Lifting power	AC	≥4.5kg (44N)		
	DC	≥18.1kg (177N)		
Magnetic pole spacing		0-230mm		
Magnetic pole size		22×22mm		
Power supply		AC220V, 50Hz (DC battery pack or AC battery pack are optional)		
Operation temperature		-10~40°C		
Relative humidity		<80% (no condensation)		
Dimension (L×W×H)		235×50×195mm		
Weight		2.3kg		

STANDARD DELIVERY

Main unit	1 pc

OPTIONAL ACCESSORY

DC battery pack 4400mAh	MPI-PDC440
AC battery pack 6600mAh	MPI-PAC660
A1 standard sensitivity test piece	MPI-PA1
45N lifting force test block	MPI-P45N
177N lifting force test block	MPI-P177N
Magnetic pole slope angle A	MPI-PMA
Magnetic pole slope angle B	MPI-PMB
Bag	MPI-PBG

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RECHARGEABLE UV FLAW DETECTION LIGHT CODE MPI-HF360

- UV-B content is 0
- Without preheating, instant start, instant on/off, no need to wait
- Supplied with glass filter
- External surface temperature increase <8K (8°C) for continuous working

goggles (included)





SPECIFICATION

UV (Light) Lux	about 6000μW/cm²
UV light power	UV LED-12VA
Covering area	diameter approximately 300mm (calibrated at 381mm distance)
FLUX error	±10% (at 0°C~40°C)
White light content	≤20LUX
Lighting characteristics	center lighting
Wavelength	room temperature 25°C, 365nm±3nm (UVA)
Power supply	12V rechargeable lithium battery
Battery capacity	3500mAh
Charging time	3~4h
Battery life	UV LED 5~6h
Dimension	175×75×170mm
Weight	750g (including battery)

STANDARD DELIVERY

Main unit	1 pc
Battery	2 pcs
Charger	1 pc
Goggles	1 pc

PENETRATION STANDARD TEST BLOCK CODE ISU-PB3

- Comply with ASME standard requirements
- The test block shows the number and clarity of lines of radiating cracks to determine the sensitivity level
- Suitable for verifying the sensitivity and operational accuracy of penetrants, as well as for testing the corrosion of stainless steel materials by penetrants



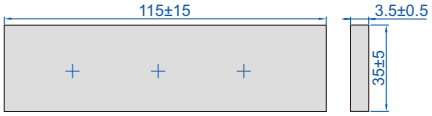
SPECIFICATION

Type	JB/T6064 B3 type
Surface treatment	chrome plating
Material	stainless steel

STANDARD DELIVERY

B3 test block	1 pc
B3 test block display image	1 pc

Unit: mm

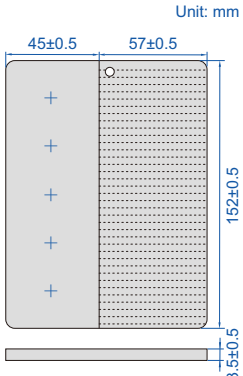


PENETRATION STANDARD TEST BLOCK CODE ISU-PB5

- Meets NB/47013.5 and ASME standards
- This test block is a means of verifying the sensitivity and operational accuracy of the penetrant, and has a rough surface in the sandblasting area to verify the cleaning performance of the penetrant and the accuracy of the cleaning method. Its sensitivity is determined by the number of defects displayed and the diameter of each point in the radial domain. It is a functional standard test block



Unit: mm



SPECIFICATION

Type	JB/T6064 B5 type
Surface treatment	chrome plating
Material	stainless steel

STANDARD DELIVERY

B5 test block	1 pc
B5 test block display image	1 pc

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22 CMM

INSIZE



CMM
Page 475-478



Measuring Arms
Page 479-480



Styli For CMM
Page 481-482



CMM Check Masters
Page 482



Gage Block Stands For CMM
Page 483



Ceramic Ball Gages
Page 483



Jigs For CMM
Page 484-490

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Can be used in shop floor, with the following features:
- Temperature compensation system, suitable for wide temperature range
- Water and oil resistance
- Compact design, small size
- Three sides open, easy to load and unload workpieces
- Without compress air
- Easy installation

ATTENTION: ROTATION OF PROBE HEAD IS MANUAL

ATTENTION: MEASUREMENT ON THE LEFT SIDE OF WORKPIECES IS LIMITED

MINI CNC CMM (SHOP FLOOR TYPE) CODE CMM-MN432

VIDEO



CMM-MN432

FEATURES
- Integrated control system, safe, reliable and easy to operate
- High precision linear guide rail and ball screw for three axes
- 4 temperature sensors for X, Y, Z three axes and workpiece, suitable for wide temperature range

CONTROL SYSTEM
- Double computer control systems
- Driven by DC servo motor
- The control system supports communication with machine tools
- The control system has 12 buttons for customize

NET-DMIS SOFTWARE
- Can measure point, straight line, curve, circle, ellipse, plane, groove, cylinder, sphere, cone, ring, edge point, corner point, polygon, straightness, flatness, circularity, cylindricity, profile of a line, profile of a surface, perpendicularity, parallelism, angularity, coaxiality, concentricity, symmetry, position, composite position, circular runout and total runout
- Modular software structure, can support: temperature compensation, turning table, I/O interface
- Can program in offline mode and do virtual measurement based on CAD model, can extract the element features of CAD for programming
- Support dynamic point measurement and import DMO theoretical point coordinates for vector point measurement
- Can import and convert CAD model (SAT, IGES, STEP)
- Can select multi language, metric and inch, polar and straight coordinate system
- Have multiple export ways: export measured data (SAT, IGES, STEP), report windows (PDF, HTML, MHT, RTF, EXCEL, CSV, txt, images, WORD, etc.), custom EXCEL template
- Support uploading the measuring result to server

To be continued

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Continued from previous page

SPECIFICATION

Code	CMM-MN432
Measuring range (X×Y×Z)	400×200×300mm
Resolution	0.1μm
Repeatability	1μm
Accuracy (L is measuring range in mm)	±(4.5+L/200)μm (15°C~30°C, variation≤2°C/h) ±(5.5+L/200)μm (10°C~15°C, 30°C~40°C, variation≤2°C/h)
Probe error	±5μm
Temperature	10°C~40°C, variation≤2°C/h
Humidity	40~60%
Power	220V±10%, 50Hz
Max. load	50kg
Dimension (L×W×H)	1270×1110×1630mm
Weight	280kg

STANDARD DELIVERY

Main unit		1 pc
Probe system	probe head *	1 pc
	probe *	1 pc
	styli **	1 set
Calibration system	datum sphere (Ø25mm)	1 pc
	pivot pillar	1 pc
Computer system	computer	1 pc
	printer	1 pc
Temperature compensation system		1 pc
Software		1 pc

* The probe head and probe are Renishaw brand
** The styli system includes styli and extensions

PROBE (included) SPECIFICATION

Probe head	angular movement with horizontal axis	0°~90° in 15 steps
	angular movement with vertical axis	±180° in 15 steps
	control mode	manual
	number of positions	168
	probe mounting	M8
Probe	weight	210g
	detect direction	±X, ±Y, +Z
	styli mounting	M2
	rating life	>1000,000 times
	weight	22g

EXTENSION (included) SPECIFICATION

Code	Material	Stem diameter	Length	Quantity
SE4	stainless steel	Ø3mm	10mm	1 pc
SE5			20mm	1 pc

STYLUS (included) SPECIFICATION

Code	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
PS2R	ruby ball / stainless steel stem	SØ2mm	20mm	Ø1.4mm	14mm	1 pc
PS17R		SØ4mm		Ø1.5mm	20mm	1 pc

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COORDINATE MEASURING MACHINES

VIDEO

FEATURES

- X&Z axis beam are made of aviation aluminum
- RENISHAW steel scale
- High precision, rigid, pre-loaded air bearings on all axis

RENISHAW UCC CONTROL SYSTEM

- High speed measurement & servo control system

RATIONAL-DMIS SOFTWARE

- Unique operation interface, complete drag-and-drop operation
- Instructional programming allows users to replace text
- Intelligent recognition of the construction, calculation and output of relevant geometric elements
- Seamless link with CAD data

RENISHAW PROBE BODY

- The TP20 is a touch trigger probe
- The TP200B is a touch triggered probe of electronic strain sensing technology, with high measurement accuracy and operate life
- The SP25M is high performance scanning and touch trigger probe



CMM-ST564A

SPECIFICATION

Code	Range (X×Y×Z)	Probe body	MPEE	MPEP	Max. dimension of workpiece	Max. weight of workpiece	Overall dimension	Weight
	mm		μm	μm	mm	kg	mm	kg
CMM-ST454A	400×500×400	TP20	±(2.1+3.3L/1000)	±2.2	525×995×600	500	1000×1240×2240	570
CMM-ST454B		TP200B	±(1.8+3.3L/1000)	±1.9				
CMM-ST454C		SP25M						
CMM-ST564A	500×600×400	TP20	±(2.1+3.3L/1000)	±2.2	625×1095×600	500	1100×1340×2240	700
CMM-ST564B		TP200B	±(1.8+3.3L/1000)	±1.9				
CMM-ST564C		SP25M						
CMM-ST686A	600×800×600	TP20	±(2.2+3.3L/1000)	±2.3	730×1400×800	700	1200×1650×2660	960
CMM-ST686B		TP200B	±(1.9+3.3L/1000)	±2.0				
CMM-ST686C		SP25M						
CMM-ST8106A	800×1000×600	TP20	±(2.2+3.3L/1000)	±2.3	930×1600×800	1000	1400×1850×2660	1270
CMM-ST8106B		TP200B	±(1.9+3.3L/1000)	±2.0				
CMM-ST8106C		SP25M						
CMM-ST10128A	1000×1200×800	TP20	±(2.7+3.3L/1000)	±2.7	1190×1814×1040	1800	1690×2370×3150	2460
CMM-ST10128B		TP200B	±(2.4+3.3L/1000)	±2.4				
CMM-ST10128C		SP25M						
CMM-ST10158A	1000×1500×800	TP20	±(2.7+3.3L/1000)	±2.7	1190×2114×1040	1800	1690×2670×3150	2820
CMM-ST10158B		TP200B	±(2.4+3.3L/1000)	±2.4				
CMM-ST10158C		SP25M						
CMM-ST10208A	1000×2000×800	TP20	±(2.7+3.3L/1000)	±2.7	1190×2614×1040	1800	1690×3270×3150	3410
CMM-ST10208B		TP200B	±(2.4+3.3L/1000)	±2.4				
CMM-ST10208C		SP25M						
CMM-ST121510A	1200×1500×1000	TP20	±(3.0+3.3L/1000)	±3.0	1390×2200×1200	2000	1890×2750×3330	3330
CMM-ST121510B		TP200B	±(2.7+3.3L/1000)	±2.7				
CMM-ST121510C		SP25M						
CMM-ST122010A	1200×2000×1000	TP20	±(3.0+3.3L/1000)	±3.0	1390×2700×1200	2000	1890×3350×3330	3910
CMM-ST122010B		TP200B	±(2.7+3.3L/1000)	±2.7				
CMM-ST122010C		SP25M						

To be continued

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Continued from previous page

SPECIFICATION

Code	Range (X×Y×Z)	Probe body	MPEE	MPEP	Max. dimension of workpiece	Max. weight of workpiece	Overall dimension	Weight
	mm		μm	μm	mm	kg	mm	kg
CMM-ST152010A	1500×2000×1000	TP20	±(3.3+3.3L/1000)	±3.3	1690×2700×1200	3000	2190×3350×3370	5220
CMM-ST152010B		TP200B	±(3.0+3.3L/1000)	±3.0				
CMM-ST152010C		SP25M						
CMM-ST152510A	1500×2500×1000	TP20	±(3.3+3.3L/1000)	±3.3	1690×3200×1200	3000	2190×3850×3400	6680
CMM-ST152510B		TP200B	±(3.0+3.3L/1000)	±3.0				
CMM-ST152510C		SP25M						
CMM-ST153010A	1500×3000×1000	TP20	±(3.5+4L/1000)	±3.5	1690×3700×1200	3000	2260×3910×3420	8120
CMM-ST153010B		TP200B	±(3.2+4L/1000)	±3.2				
CMM-ST153010C		SP25M						
CMM-ST152512A	1500×2500×1200	TP20	±(3.5+4L/1000)	±3.5	1690×3200×1400	3000	2190×3850×3870	6730
CMM-ST152512B		TP200B	±(3.2+4L/1000)	±3.2				
CMM-ST152512C		SP25M						
CMM-ST152515A	1500×2500×1500	TP20	±(3.8+4L/1000)	±3.8	1680×3330×1700	3000	2190×3980×4500	6950
CMM-ST152515B		TP200B	±(3.5+4L/1000)	±3.5				
CMM-ST152515C		SP25M						
CMM-ST153015A	1500×3000×1500	TP20	±(4.0+4L/1000)	±4.0	1680×3830×1700	3000	2260×4040×4520	8440
CMM-ST153015B		TP200B	±(3.7+4L/1000)	±3.7				
CMM-ST153015C		SP25M						
CMM-ST163515A	1600×3500×1500	TP20	±(4.0+4L/1000)	±4.0	1780×4330×1700	3000	2360×4540×4520	9960
CMM-ST163515B		TP200B	±(3.7+4L/1000)	±3.7				
CMM-ST163515C		SP25M						
CMM-ST203015A	2000×3000×1500	TP20	±(4.5+4L/1000)	±4.5	2180×3930×1700	6000	2760×4240×4520	11200
CMM-ST203015B		TP200B	±(4.0+4L/1000)	±4.0				
CMM-ST203015C		SP25M						
CMM-ST203018A	2000×3000×1800	TP20	±(4.5+4L/1000)	±4.5	2180×3930×2000	6000	2760×4240×5120	11200
CMM-ST203018B		TP200B	±(4.0+4L/1000)	±4.0				
CMM-ST203018C		SP25M						

STANDARD DELIVERY

Main unit		1 pc
Probe system	probe head (Renishaw)	1 pc
	probe body (Renishaw)	1 pc
	styli (Renishaw)	1 set
Calibration sphere	Ø19mm	1 pc
Computer		1 pc
Printer		1 pc
Software		1 pc

OPERATION ENVIRONMENT

Air pressure	0.5~1.0MPa
Air supply	0.3~0.45m³/min
Temperature	20±2°C
Humidity	55%~65%
Power	220V±10%, 50/60Hz

STYLI INCLUDED IN SP25M

Material	Ball diameter	Length	Quantity
ruby ball/ stainless steel stem	SØ2mm	21mm	2 pcs
	SØ3mm	21mm	2 pcs
	SØ4mm	21mm	2 pcs
	SØ2mm	30mm	2 pcs
	SØ3mm	40mm	2 pcs
	SØ4mm	50mm	2 pcs
	SØ6mm	75mm	2 pcs
stainless steel stem	—	20mm	1 pc

PROBE HEAD SPECIFICATION

Probe head (PH10T)	angular movement with horizontal axis	0°~105° in 7.5 steps
	angular movement with vertical axis	±180° in 7.5 steps
	number of positions	720
	probe mounting	M8
	max. output torque	0.45N.m
	max. extension length	300mm
	weight	645g
Probe body	detect direction	±X, ±Y, +Z
	styli mounting	M2
	rating life	>1000,000 times

STYLI INCLUDED IN TP20 AND TP200B

Material	Ball diameter	Length	Quantity
ruby ball/ stainless steel stem	SØ1mm	10mm	1 pc
	SØ2mm	20mm	1 pc
	SØ3mm	20mm	1 pc
	SØ3mm	30mm	1 pc
	SØ4mm	10mm	1 pc
	SØ4mm	30mm	1 pc
	SØ4mm	40mm	1 pc
	SØ5mm	20mm	1 pc
	SØ5mm	50mm	1 pc
stainless steel stem	—	10mm	1 pc
	—	20mm	1 pc
	—	30mm	1 pc

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MEASURING ARMS

- In accordance with ISO 10360-12
- Internal balance
- Dual high performance batteries
- Equivalent-arm design
- High-speed WiFi performance
- Aerospace grade carbon-fiber material
- Automatic power off
- U-shaped anti-collision design of the base



CMM-CM30

VIDEO

HIGH PRECISION, CM SERIES, 6-AXIS (mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E_{UNI}	P_{SIZE}	P_{FORM}	L_{DIA}
CMM-CM15	1500	0.018	0.025	0.009	0.016	0.026
CMM-CM20	2000	0.020	0.028	0.010	0.018	0.032
CMM-CM25	2500	0.023	0.030	0.012	0.022	0.038
CMM-CM30	3000	0.034	0.042	0.016	0.032	0.052
CMM-CM35	3500	0.043	0.056	0.020	0.038	0.066
CMM-CM40	4000	0.052	0.066	0.024	0.044	0.083
CMM-CM45	4500	0.061	0.089	0.038	0.078	0.108

HIGH PRECISION, CM SERIES, 7-AXIS (mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E_{UNI}	P_{SIZE}	P_{FORM}	L_{DIA}
CMM-CM20S	2000	0.022	0.030	0.012	0.022	0.040
CMM-CM25S	2500	0.027	0.032	0.013	0.025	0.048
CMM-CM30S	3000	0.042	0.053	0.020	0.035	0.078
CMM-CM35S	3500	0.055	0.066	0.024	0.043	0.092
CMM-CM40S	4000	0.065	0.082	0.029	0.048	0.102
CMM-CM45S	4500	0.073	0.099	0.043	0.082	0.132

STANDARD PRECISION, BE SERIES, 6-AXIS (mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E_{UNI}	P_{SIZE}	P_{FORM}	L_{DIA}
CMM-BE15	1500	0.028	0.036	0.015	0.029	0.038
CMM-BE20	2000	0.030	0.040	0.018	0.035	0.041
CMM-BE25	2500	0.035	0.045	0.020	0.038	0.050
CMM-BE30	3000	0.055	0.065	0.028	0.045	0.080
CMM-BE35	3500	0.075	0.080	0.035	0.058	0.098
CMM-BE40	4000	0.090	0.100	0.044	0.068	0.116
CMM-BE45	4500	0.112	0.120	0.048	0.086	0.128

To be continued

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SPAT Single-point articulation test

EUNI Distance measurement error between two points

PFORM Sphere form measurement error

PSIZE Sphere size measurement error

LDIA Sphere diameter obtained from performing the articulated location test (diameter of the spherical zone containing the centers of a sphere measured from multiple orientations)

SPECIFICATION

Temperature rate	3°C/5min
Battery life	5h for one battery; 10h for two batteries
Output	USB, WIFI
Operation Temperature	5°C~45°C
Operation humidity	0~95%, non-condensing
Power	100~240VAC, 50/60HZ
Weight	8.8kg~10.6kg



3mm zircon ball probe (included)



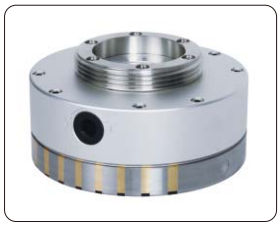
6mm zircon ball probe (included)



calibration cone (included)

STANDARD DELIVERY

Main unit	1 pc
3mm zircon ball probe	1 pc
6mm zircon ball probe	1 pc
Calibration cone	1 pc
Lithium batteries	2 pcs
USB cable	1 pc
Power adapter	1 pc
Dust cover	1 pc



magnetic base (**optional**)



electric vacuum base (**optional**)



DELL laptop (**optional**)

OPTIONAL ACCESSORY

DELL laptop	CMM-CEM-PC
Polyworks software	CMM-CEM-PW
Adjustable tripod	CMM-CEM-FAT
Electric vacuum base	CMM-CEM-EVCP
Magnetic base	CMM-CEM-IMM
Magnetic cones	CMM-CEM-MC
Magnetic spheres	CMM-CEM-MS
Point probe	CMM-CEM-PP
2mm ruby ball probe	CMM-CEM-RP2
5mm zircon ball probe	CMM-CEM-ZP5
10mm zircon ball probe	CMM-CEM-ZP10
3" straight probe extension	CMM-CEM-SPE3
4" straight probe extension	CMM-CEM-SPE4
60° probe adapter	CMM-CEM-DP60
90° probe adapter	CMM-CEM-DP90
3mm extended ball probe	CMM-CEM-EPB3
6mm extended ball probe	CMM-CEM-EPB6
Probe adapter	CMM-CEM-PA



adjustable tripod (**optional**)

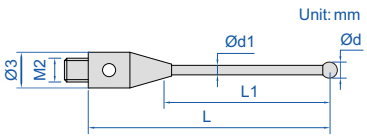
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STYLI FOR CMM

- Roundness: 0.25µm

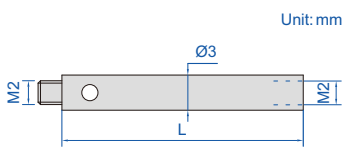


ISQ-20-071





ISQ-25-125



M2 styli **(mm)**

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-20-002	1	0.7	10	4.5	stainless steel	ruby
ISQ-20-006	2	1	10	6		
ISQ-20-010	3	1.5	10	10		
ISQ-20-021	2	1.4	20	14		
ISQ-20-025	3	1.5	20	17.5		
ISQ-20-027	4	2	20	20		
ISQ-20-052	0.5	0.3	10	3	carbide	
ISQ-20-071	1	0.7	20	12.5		
ISQ-20-105	2	1.5	30	22.5		
ISQ-20-120	3	2	30	27.5	ceramic	
ISQ-20-201	4	3	50	50	carbon fibre	

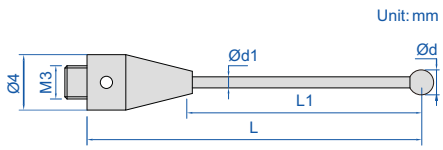
*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip

M2 extension rods of styli **(mm)**

Code	L	Material
ISQ-25-105	10	stainless steel
ISQ-25-110	20	
ISQ-25-125	30	ceramic

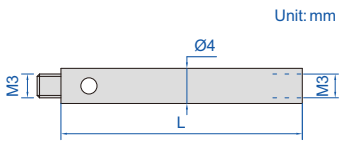


ISQ-30-066





ISQ-35-110



M3 styli **(mm)**

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-30-001	1	0.7	21	4	carbide	ruby
ISQ-30-003	2	1.4	21	8		
ISQ-30-005	3	1.5	21	12		
ISQ-30-031	2	1.5	30	22.5		
ISQ-30-066	3	2	50	42.5	ceramic	
ISQ-30-080	6	4	75	75	carbon fibre	

*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip

M3 extension rods of styli **(mm)**

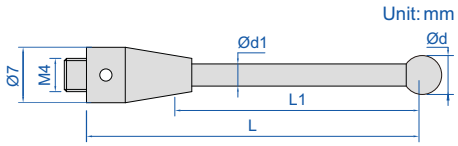
Code	L	Material
ISQ-35-101	10	stainless steel
ISQ-35-105	20	
ISQ-35-110	35	
ISQ-35-115	50	ceramic

To be continued

Continued from previous page



ISQ-40-195



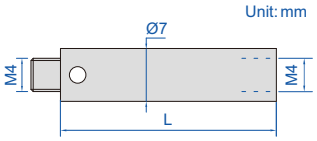
M4 styli (mm)

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-40-113	3	2	18.5	13	stainless steel	ruby
ISQ-40-208	6	4	50	36		
ISQ-40-106	1	0.7	19.5	4	carbide	
ISQ-40-109	2	1.4	19	8		
ISQ-40-141	1	0.7	20	10		
ISQ-40-195	2	1.5	50	40		
ISQ-40-202	4	2	50	38		
ISQ-40-173	5	4	50	34	ceramic	
ISQ-40-179	6	4	50	36		
ISQ-40-222	6	4	75	63		
ISQ-40-240	5	4	100	84		
ISQ-40-245	6	4	100	86		

*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip

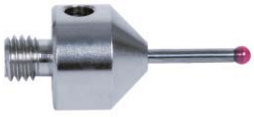


ISQ-45-025

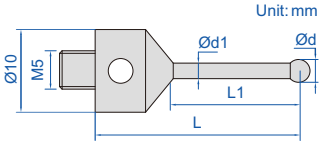


M4 extension rods of styli (mm)

Code	L	Material
ISQ-45-025	30	ceramic
ISQ-45-028	50	



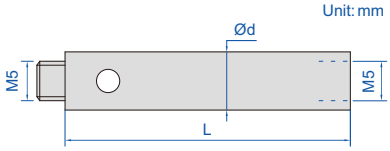
ISQ-50-059



M5 styli (mm)

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-50-051	1	0.7	20	5	carbide	ruby
ISQ-50-059	2	1.5	20	11		
ISQ-50-067	3	2	20	11		
ISQ-50-071	4	2	20	11		
ISQ-50-075	5	3	20	11		

*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip



M5 extension rods of styli (mm)

Code	L	Ød	Material
ISQ-55-012	20	10	stainless steel
ISQ-55-014	30	10	
ISQ-55-016	50	10	
ISQ-55-018	100	10	
ISQ-55-031	50	20	aluminum
ISQ-55-035	100	20	
ISQ-55-039	200	20	

CMM CHECK MASTERS

REFER TO PAGE 294~295 FOR DETAILS



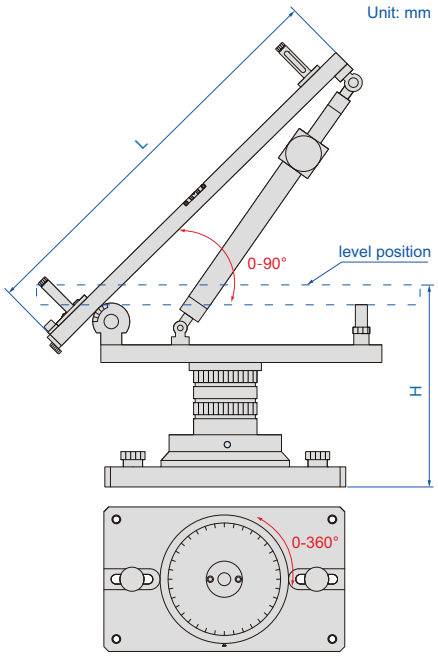
6882-600



6874-1000

GAGE BLOCK STAND FOR CMM





6885-1000

- Made of aluminum
- Used with gage blocks to calibrate CMM
- Optional accessory: gage blocks (**4101** series)

(mm)

Code	Length (L)	Height (H)
6885-1000	500, 600, 650, 700, 750, 800, 850, 900, 1000	235, 355, 475



height column (included, 2 pcs)



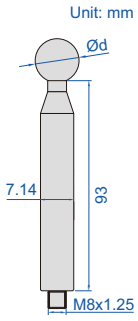
extension plate (included, 4 pcs)

CERAMIC BALL GAGES

INSPECTION CERTIFICATE

- To calibrate CMM probes
- Zirconia material, high strength and hardness, extremly wear resistance and corrosion resistance good insulation, antistatic and magnetic resistance
- Mirror surface, with pole
- Supplied with manufacturer inspection certificate





4198-20

High accuracy

Code	Diameter (Ød)	Accuracy	Roundness
4198-8	8mm	±5μm	0.5μm
4198-10	10mm	±5μm	0.5μm
4198-12D7	12.7mm	±5μm	0.5μm
4198-13	13mm	±5μm	0.5μm
4198-14	14mm	±5μm	0.5μm
4198-15	15mm	±5μm	0.5μm
4198-16	16mm	±5μm	0.5μm
4198-17	17mm	±5μm	0.5μm
4198-20	20mm	±5μm	0.5μm
4198-25D4	25.4mm	±5μm	0.5μm

Standard accuracy

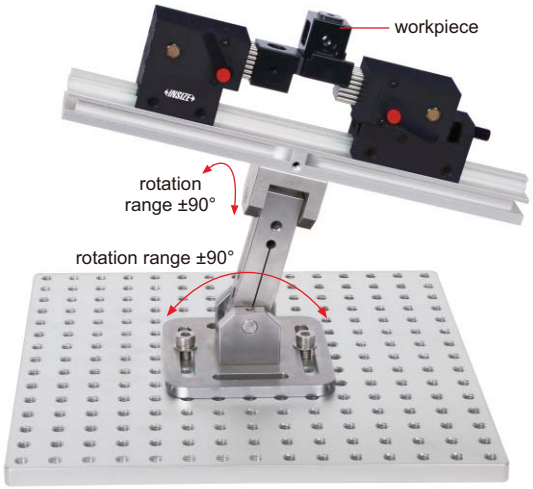
Code	Diameter (Ød)	Accuracy	Roundness
4198-8A	8mm	±5μm	1μm
4198-10A	10mm	±5μm	1μm
4198-12D7A	12.7mm	±5μm	1μm
4198-13A	13mm	±5μm	1μm
4198-14A	14mm	±5μm	1μm
4198-15A	15mm	±5μm	1μm
4198-16A	16mm	±5μm	1μm
4198-17A	17mm	±5μm	1μm
4198-20A	20mm	±5μm	1μm
4198-25D4A	25.4mm	±5μm	1μm

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JIGS FOR CMM (ANVIL Ø2.5mm)

CAN BE CUSTOMIZED

VIDEO



ISY-200



ISY-200-1



ISY-200-2



ISY-200-3



ISY-200-4



ISY-200-5



ISY-200-6

Code	Product	Remark
ISY-200	jig set	including 1 pc **ISY-200-1**, 1 pc **ISY-200-2**, 1 pc **ISY-200-3**, 1 pc **ISY-200-4**, 1 pc **ISY-200-5** and 2 pcs **ISY-200-6**

(mm)

Code	Product	Size	Anvil area	Anvil stroke
ISY-200-1	spring anvil	60×40×57	20.5×23	14
ISY-200-2	adjustable spring anvil (range 0-20mm)	70×40×57	20.5×23	14

Code	Product	Size	Hole size
ISY-200-3	base plate	300×300×12mm	M8

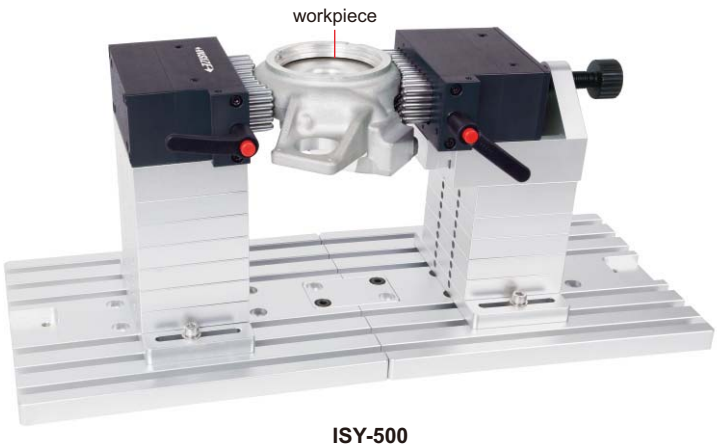
(mm)

Code	Product	Size
ISY-200-4	guide	300×40×27
ISY-200-5	two-way adjustable stand	110×110×142
ISY-200-6	clamp handle	—

JIGS FOR CMM (ANVIL Ø6mm)

VIDEO

CAN BE CUSTOMIZED



ISY-500



ISY-500-1



ISY-500-2



ISY-500-3



ISY-500-4



ISY-500-5



ISY-500-6



ISY-500-7

Code	Product	Remark
ISY-500	jig set	including 1 pc **ISY-500-1**, 1 pc **ISY-500-2**, 2 pcs **ISY-500-3**, 10 pcs **ISY-500-4**, 2 pcs **ISY-500-5**, 1 pc **ISY-500-6**, 2 pcs **ISY-500-7**

(mm)

Code	Product	Size	Anvil area	Anvil stroke
ISY-500-1	spring anvil	134×90×90	36×100	24
ISY-500-2	adjustable spring anvil (range 0-40mm)	134×120×130	36×100	24

(mm)

Code	Product	Size
ISY-500-3	base plate	300×240×20
ISY-500-4	block	120×90×20
ISY-500-5	connecting plate	170×90×15
ISY-500-6	connecting block of base plate	80×50×10
ISY-500-7	clamp handle	—

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JIGS FOR CMM (ANVIL Ø2.5mm)

CAN BE CUSTOMIZED

VIDEO



ISY-300-1



ISY-300



ISY-300-2



ISY-300-3



ISY-300-4



ISY-300-5



ISY-300-6



ISY-300-7



ISY-300-8



ISY-300-9



ISY-300-10



ISY-300-11



ISY-300-12



ISY-300-13

Code	Product	Remark
ISY-300	jig set	including 1 pc **ISY-300-1**, 2 pcs **ISY-300-2**, 1 pc **ISY-300-3**, 2 pcs **ISY-300-4**, 14 pcs **ISY-300-5**, 2 pcs **ISY-300-6**, 8 pcs **ISY-300-7**, 6 pcs **ISY-300-8**, 2 pcs **ISY-300-9**, 2 pcs **ISY-300-10**, 2 pcs **ISY-300-11**, 2 pcs **ISY-300-12**, 2 pcs **ISY-300-13**

Code	Product	Size	Hole size
ISY-300-1	base plate	300×300×12mm	M8

(mm)

Code	Product	Size	Anvil area	Anvil stroke
ISY-300-2	spring anvil	60×40×75	20.5×23	14
ISY-300-3	spring anvil	Ø26×80	3.1cm² (hexagon)	14

(mm)

Code	Product	Size
ISY-300-4	block	50×50×50
ISY-300-5	block	50×50×20
ISY-300-6	connecting plate	110×50×10
ISY-300-7	block	Ø26×20
ISY-300-8	block	Ø26×30
ISY-300-9	connecting plate	150×26×10
ISY-300-10	clip	65×11
ISY-300-11	clip	100×11
ISY-300-12	connecting block of clip stand	Ø26×20
ISY-300-13	clip stand	Ø8×75

VIDEO

CAN BE CUSTOMIZED

JIGS FOR CMM (ANVIL Ø6mm)



ISY-400



ISY-400-1



ISY-400-2



ISY-400-3



ISY-400-4



ISY-400-5



ISY-400-6

Code	Product	Remark
ISY-400	jig set	including 3 pcs **ISY-400-1**, 9 pcs **ISY-400-2**, 9 pcs **ISY-400-3**, 1 pc **ISY-400-4**, 3 pcs **ISY-400-5**, 3 pcs **ISY-400-6**

(mm)

Code	Product	Size	Anvil area	Anvil stroke
ISY-400-1	spring anvil	135×60×90	36×100	24

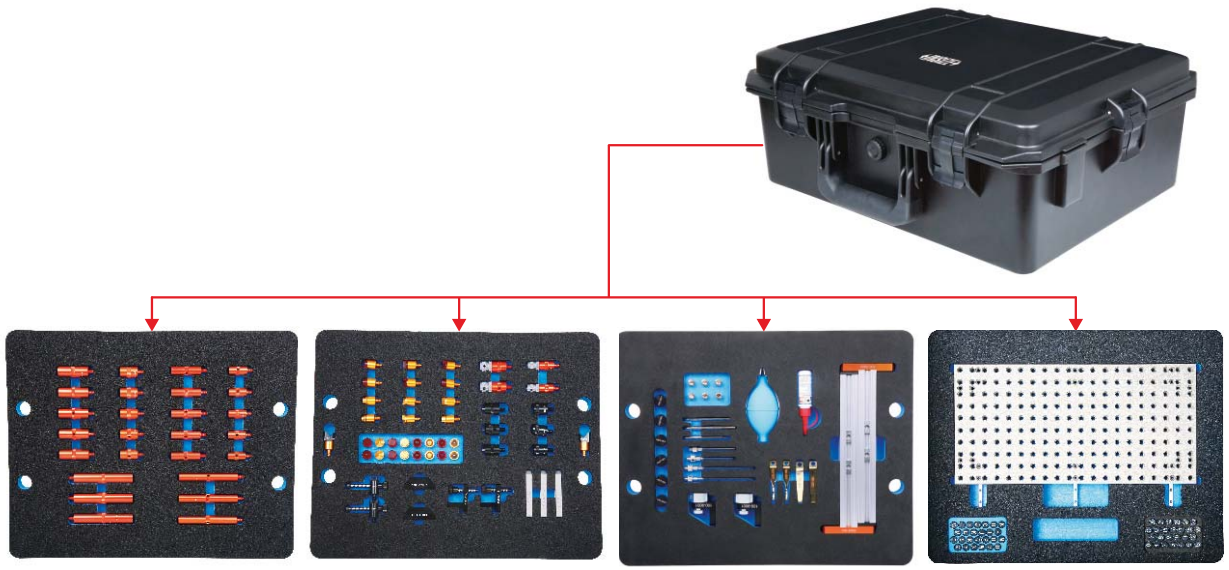
(mm)

Code	Product	Size
ISY-400-2	block	120×60×20
ISY-400-3	block	120×60×30
ISY-400-4	base plate	500×500×12
ISY-400-5	connecting plate	130×120×12
ISY-400-6	clamp handle	—

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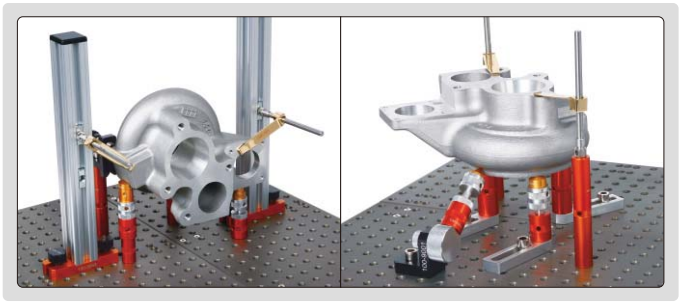
JIG SET FOR CMM
CODE ISY-100

VIDEO

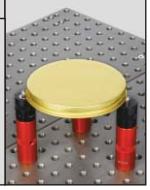


ISY-100

application examples



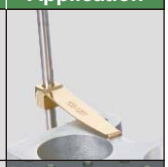
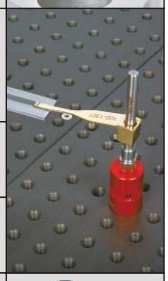
Product	Code	Size (mm)	Quantity	Application
stand 	**ISY-100-1001**	Ø16×30	5	
	ISY-100-1002	Ø16×50	5	
	ISY-100-1003	Ø16×100	3	
stand 	**ISY-100-1004**	Ø20×30	5	
	ISY-100-1005	Ø20×50	5	
	ISY-100-1006	Ø20×100	3	
stand with fine adjustment 	**ISY-100-2001**	Ø16×45~60	2	height adjustment: 45~60mm 
stand with fine adjustment 	**ISY-100-2003**	Ø20×45~60	2	
horizontal spring stand 	**ISY-100-4001**	—	2	

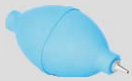
Product	Code	Size (mm)	Quantity	Application
horizontal screw stand 	**ISY-100-5001**	—	2	
magnetic stand (magnetic top surface) 	**ISY-100-7001**	Ø20×25	3	
stand for slice parts 	**ISY-100-8001**	Ø20×25	2	**ISY-100-8001** and **ISY-100-8002** use cooperatively 
clamping stand for slice parts 	**ISY-100-8002**		1	

To be continued

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Continued from previous page

Product	Code	Size (mm)	Quantity	Application
clip 	**ISY-100-1201**	—	2	
clip 	**ISY-100-1301**	—	2	
clip stand 	**ISY-100-1401**	Ø6×60	2	
	ISY-100-1402	Ø6×100	2	
vertical square column 	**ISY-100-3003**	30×30×250	2	
sliding support plate 	**ISY-100-1801**	78×20×10	3	
clamping screw 	**ISY-100-2301**	Ø8×20	6	
screw 	**ISY-100-2302**	Ø8×20	6	
base plate 	**ISY-600-400200**	400×400×12 hole size: M8×1.25 hole center distance: 20	2 pieces	—
wrench 	**ISY-100-3701**	Ø3.8×70	1	—
wrench 	**ISY-100-3801**	M2.5	1	—
	ISY-100-3802	M5	1	—
	ISY-100-3803	M6	1	—
45° stand 	**ISY-100-9001**	—	2	
V shaped support 	**ISY-100-1901**	—	2	

Product	Code	Quantity	Application
V shaped support 	**ISY-100-1902**	2	
marker 	**ISY-6100-1501**	52*	
dust cleaner 	**ISY-100-3501**	1	—
lubricating oil 	**ISY-100-3601**	1	—

*Letter A~Z, number 0~25

Product	Code	Quantity	Material	Application
support head 	**ISY-100-27016**	2	aluminum	
	ISY-100-27018	2	nylon	
support head 	**ISY-100-27026**	2	aluminum	
	ISY-100-27028	2	nylon	
support head 	**ISY-100-27036**	2	aluminum	
	ISY-100-27038	2	nylon	
support head 	**ISY-100-27046**	2	aluminum	
	ISY-100-27048	2	nylon	
support head 	**ISY-100-27056**	2	aluminum	
	ISY-100-27058	2	nylon	
support head 	**ISY-100-27066**	2	aluminum	
	ISY-100-27068	2	nylon	
support head 	**ISY-100-27076**	2	aluminum	
	ISY-100-27078	2	nylon	

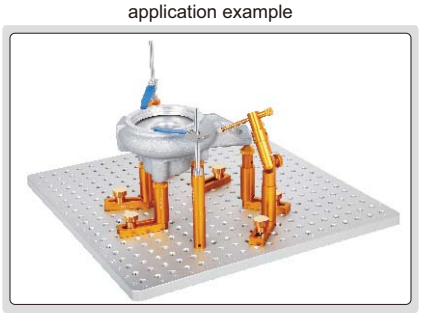


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JIG SET FOR CMM
CODE ISY-600

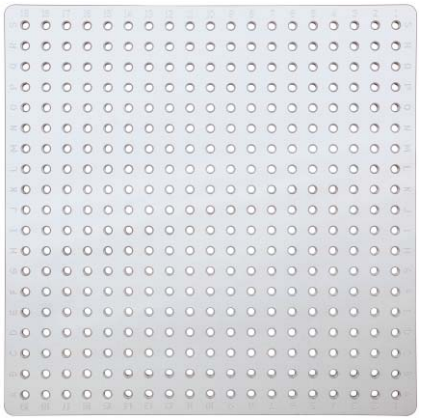
VIDEO

application example





acrylic tray (included)



ISY-600

Product	Code	Size (mm)	Quantity
stand	**ISY-600-80001**	Ø12×50	6
	ISY-600-80002	Ø12×30	6
	ISY-600-80007	Ø12×20	6
stand	**ISY-600-80003**	Ø16×50	6
	ISY-600-80004	Ø16×30	6
	ISY-600-80008	Ø16×20	6
stand	**ISY-600-80005**	Ø20×50	6
	ISY-600-80006	Ø20×30	6
	ISY-600-80009	Ø20×20	6
spring stand	**ISY-600-800010**	—	2
universal support with damping	**ISY-600-800012**	—	2
stand with fine adjustment	**ISY-600-800013**	Ø20×55~78	2
magnetic stand (magnetic top surface)	**ISY-600-800014**	Ø20×20	4
stand for slice parts	**ISY-600-800015**	Ø20×20	2
adaptor	**ISY-600-800016**	Ø20×15	6
clamping screw for base plate	**ISY-600-800017**	—	2

Product	Code	Size (mm)	Quantity
V shaped support	**ISY-600-800018**	Ø20×25	2
clamping screw	**ISY-600-800019**	—	6
sliding support plate	**ISY-600-800020**	68×20×10	6
clip	**ISY-600-800021**	12×70	5
chuck support	**ISY-600-800022**	—	2
clip stand	**ISY-600-800023**	Ø6×80	2
	ISY-600-800024	Ø6×40	3
aluminum support head	**ISY-600-800025**	—	3
nylon support head	**ISY-600-800026**	—	3
wrench	**ISY-600-800027**	Ø8×48	2
base plate	**ISY-600-800028**	400×400×15 hole size: M8X1.25	1

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TOOL PRESETTERS, PROFILE PROJECTORS, QUICK MEASUREMENT SYSTEMS, VISION MEASURING SYSTEMS

23



Tool Presetters
Page 492-494



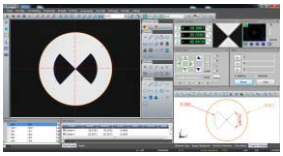
Profile Projectors
Page 495-504



Quick Measurement Systems
Page 505-510



Vision Measuring Systems
Page 511-520



Vision Measuring Softwares
Page 521-522



Jig Sets For Vision Measuring Systems
Page 523



Standard Glass Scales
Page 524

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TOOL PRESETTER (PROJECTOR TYPE)
CODE TLP-P340

VIDEO



- 99 data can be saved and printed


standard rod (included)


BT50/BT40 converter (**optional**)


BT50/BT30 converter (**optional**)

SPECIFICATION

Maximum tool diameter (X axis)		Ø300mm
Height measuring range (Z axis)		30~400mm
Accuracy	X axis	±6μm
	Z axis	±13μm
Resolution		0.5μm
Diameter of projection screen		Ø120mm
Lens	magnification	20X
	view filed	Ø6mm
Illumination		24V/20W
Spindle holder		BT50
Power supply		220V, 50/60HZ
Dimension (L×W×H)		940×520×870mm
Weight		90kg

STANDARD DELIVERY

Main unit	1 pc
BT50 spindle holder	1 pc
Standard rod	1 pc
Foot-switch	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

BT50/BT30 converter	TLP-P340-C1
BT30 rod	TLP-P340-R1
BT50/BT40 converter	TLP-P340-C2
BT40 rod	TLP-P340-R2

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VIDEO

TOOL PRESETTER
CODE TLP-400E



rotate the handwheel to rotate tools





standard rod (included)



BT50/BT40 converter (**optional**)



BT50/BT30 converter (**optional**)

- Absolute linear scales, zero setting is not needed after power on and off

SPECIFICATION

Maximum tool diameter (X axis)	Ø300mm
Height measuring range	60~400mm
Repeatability	0.005mm
Measuring accuracy	0.01mm
Linear scale resolution	0.001mm
Dial indicator graduation	0.001mm
Spindle holder	BT50
Power supply	110/220V, 50/60HZ
Dimension (L×W×H)	720x480x930mm
Weight	150kg

STANDARD DELIVERY

Main unit	1 pc
BT50 spindle holder	1 pc
Standard rod	1 pc
Dial indicator	2 pcs
Wrench	1 set
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

BT50/BT30 converter	**TLP-300H-C1**
BT50/BT40 converter	**TLP-300H-C2**

TOOL PRESETTER (BASIC TYPE)
CODE TLP-300H

VIDEO






standard rod (included)


BT50/BT40 converter (**optional**)


BT50/BT30 converter (**optional**)

- Absolute linear scales, zero setting is not needed after power on and off

SPECIFICATION

Maximum tool diameter (X axis)	Ø300mm
Height measuring range	60~300mm
Repeatability	0.005mm
Measuring accuracy	0.02mm
Linear scale resolution	0.005mm
Dial indicator graduation	0.01mm
Spindle holder	BT50
Power supply	110/220V, 50/60HZ
Dimension (L×W×H)	600x365x690mm
Weight	68kg

STANDARD DELIVERY

Main unit	1 pc
BT50 spindle holder	1 pc
Standard rod	1 pc
Dial indicator	2 pcs
Wrench	1 set
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

BT50/BT30 converter	**TLP-300H-C1**
BT50/BT40 converter	**TLP-300H-C2**

INSPECTION CERTIFICATE

PROFILE PROJECTORS



ISP-Z3015



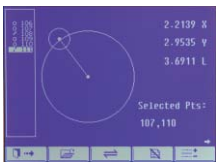
ISP-A1000E

digital readout of **ISP-A1000E**

VIDEO

- touch buttons
- USB data output to Excel and CAD
- show diagram







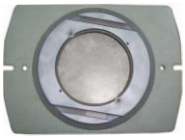
software flash disk (included, only for **ISP-A1000E**)

23

OPTIONAL ACCESSORY



lens



rotary table (glass plate diameter 100mm)



overlay chart (protractor with 1° graduation, radius with 1mm increment)



holder with clamp



swivel center support



V-block with clamp



50mm reading scale (check magnification accuracy)



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



blue filter



demo sample



printer (only for **ISP-A1000E**)

To be continued

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Continued from previous page

SPECIFICATION

Code		ISP-Z3015		ISP-A1000E	
Edge detector		not included		included	
Lens	magnification	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)
	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
	working distance	77.7mm	44.3mm	38.4mm	25.3mm
Max. workpiece height		90mm	90mm	90mm	90mm
Magnification accuracy		±0.08%			
Image		erect image			
Projector screen		diameter: Ø300mm			
		rotation range: 0°~360°, resolution: 1" or 0.01°			
		reference lines: cross-hairs			
Stage	metal stage size	340×152mm			
	glass stage size	196×96mm			
	X-Y stage travel	range: 150×50mm			
		resolution: 0.5μm			
		accuracy: (4+L/25)μm L is the measuring length in mm			
	Z (focus) travel range	90mm			
	max. load capacity	4kg			
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable			
		surface illumination: 24V/150W halogen lamp			
Data processing unit	display	X-Y stage travel, screen rotation			
	output	RS232C		RS232C, USB (data output to Excel and CAD)	
	function	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines set origin of coordinate coordinate transform set midpoint of coordinate		measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the selective point and display the result	
	advanced function	—		programming for batch measurements	
Power supply		110/220V, 50/60Hz			
Dimension (L×W×H)		550×770×1100mm			
Weight		135kg			

STANDARD DELIVERY

Main unit	1 pc
10X lens with half-reflection mirror and oblique illuminator mirror	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A1000E) and USB cable	1 pc

OPTIONAL ACCESSORY

20X lens with half-reflection mirror and oblique illuminator mirror	ISP-Z3015-LENS20X
50X lens with half-reflection mirror	ISP-Z3015-LENS50X
100X lens with half-reflection mirror	ISP-Z3015-LENS100X
Rotary table	ISP-Z3015-TABLE
Overlay chart	ISP-Z3015-CHART
Holder with clamp	ISP-Z3015-HOLDER

Swivel center support	ISP-Z3015-SUPPORT
V-block with clamp	ISP-Z3015-VBLOCK
50mm reading scale	ISP-Z3015-SCALE50
300mm calibration scale	ISP-Z3015-RULE
Blue filter	ISP-Z3015-FILTER
Demo sample	ISP-Z3015-DEMO
Printer (only for ISP-A1000E)	ISP-A1000-PRINTER

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PROFILE PROJECTORS

THE STAGE DOESN'T MOVE UP AND DOWN

INSPECTION CERTIFICATE



ISP-AZ3020



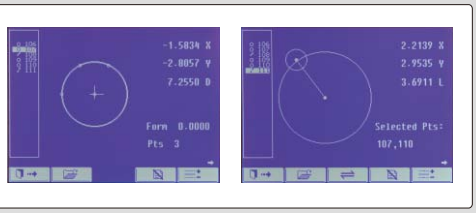
ISP-A5000E

VIDEO

- Adjust the focus by ascending and descending the projector head, the stage doesn't move up and down
- Maximum workpiece weight 50kg

digital readout of **ISP-A5000E**

- touch buttons
- USB data output to Excel and CAD
- show diagram





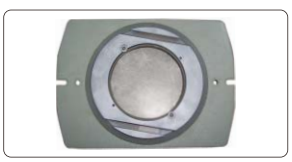
software flash disk (included, only for **ISP-A5000E**)

23

OPTIONAL ACCESSORY



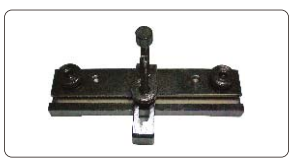
lens



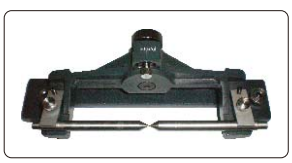
rotary table (glass plate diameter 100mm)



overlay chart (protractor with 1° graduation, radius with 1mm increment)



holder with clamp



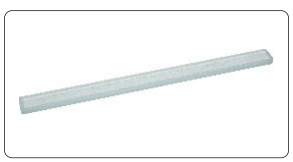
swivel center support



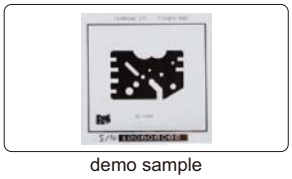
V-block with clamp



50mm reading scale (check magnification accuracy)



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



demo sample



printer (only for **ISP-A5000E**)

To be continued

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Continued from previous page

SPECIFICATION

Code		ISP-AZ3020		ISP-A5000E	
Edge detector		not included		included	
Lens	magnification	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)
	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
	working distance	77.7mm	44.3mm	38.4mm	25.3mm
Max. workpiece height		100mm	100mm	100mm	100mm
Magnification accuracy		±0.08%			
Image		erect image			
Projector screen		diameter: Ø300mm			
		rotation range: 0°~360°, resolution: 1" or 0.01°			
		reference lines: cross-hairs			
Stage	metal stage size	404×228mm			
	glass stage size	260×160mm			
	X-Y stage travel	range: 200×100mm			
		resolution: 0.5μm			
		accuracy: (3+L/75)μm L is the measuring length in mm			
	Z (focus) travel range	100mm			
	max. load capacity	50kg			
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable			
		surface illumination: 24V/150W halogen lamp			
Data processing unit	display	X-Y stage travel, screen rotation			
	output	RS232C		RS232C, USB (data output to Excel and CAD)	
	function	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines set origin of coordinate coordinate transform set midpoint of coordinate		measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the selective point and display the result	
	advanced function	—		programming for batch measurements	
Power supply		110/220V, 50/60Hz			
Dimension (L×W×H)		780×780×1100mm			
Weight		160kg			

STANDARD DELIVERY

Main unit	1 pc
10X lens with half-reflection mirror and oblique illuminator mirror	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Blue filter	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A5000E) and USB cable	1 pc

OPTIONAL ACCESSORY

20X lens with half-reflection mirror and oblique illuminator mirror	ISP-A5000-LENS20X
50X lens with half-reflection mirror	ISP-A5000-LENS50X
100X lens with half-reflection mirror	ISP-A5000-LENS100X
Rotary table	ISP-A5000-TABLE
Overlay chart	ISP-A5000-CHART
Holder with clamp	ISP-A5000-HOLDER
Swivel center support	ISP-A5000-SUPPORT
V-block with clamp	ISP-A5000-VBLOCK
50mm reading scale	ISP-A5000-SCALE50
300mm calibration scale	ISP-A5000-RULE
Demo sample	ISP-A5000-DEMO
Printer (only for ISP-A5000E)	ISP-A5000-PRINTER

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INSPECTION CERTIFICATE

HORIZONTAL PROFILE PROJECTORS



ISP-W3020



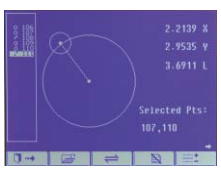
ISP-A3000E

VIDEO

digital readout of **ISP-A3000E**

- touch buttons
- USB data output to Excel and CAD
- show diagram







software flash disk (included, only for **ISP-A3000E**)

OPTIONAL ACCESSORY



lens



overlay chart (protractor with 1° graduation, radius with 1mm increment)



50mm reading scale (check magnification accuracy)



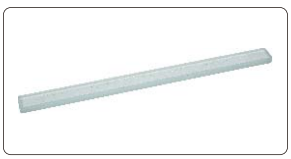
demo sample



vise



rotary table



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



printer (only for **ISP-A3000E**)

To be continued

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Continued from previous page

SPECIFICATION

Code		ISP-W3020		ISP-A3000E	
Edge detector		not included		included	
Lens	magnification	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)
	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
	working distance	77.7mm	44.3mm	38.4mm	25.3mm
Magnification accuracy		±0.08%			
Projector screen		diameter: Ø300mm			
		rotation range: 0°~360°, resolution: 1' or 0.01°			
		reference lines: cross-hairs			
Stage	metal stage size	400×150mm			
	turning range	±15°			
	X-Z stage travel	range: 200×100mm			
		resolution: 0.5μm			
		accuracy: (4+L/25)μm L is the measuring length in mm			
	Y (focus) travel range	75mm			
	max. load capacity	50kg			
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable			
		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable			
Data processing unit	display	X-Z stage travel, screen rotation			
	output	RS232C		RS232C, USB (data output to Excel and CAD)	
	function	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines set origin of coordinate coordinate transform set midpoint of coordinate		measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the selective point and display the result	
	advanced function	—		programming for batch measurements	
Power supply		110/220V, 50/60Hz			
Dimension (L×W×H)		830×1090×1010mm			
Weight		160kg			

STANDARD DELIVERY

Main unit	1 pc
10X lens	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A3000E) and USB cable	1 pc

OPTIONAL ACCESSORY

20X lens	ISP-A3000-LENS20X
50X lens	ISP-A3000-LENS50X
100X lens	ISP-A3000-LENS100X
Overlay chart	ISP-A3000-CHART
50mm reading scale	ISP-A3000-SCALE50
300mm calibration scale	ISP-A3000-RULE

Demo sample	ISP-A3000-DEMO
V-block with clamp	ISP-A3000-VBLOCK
Rotary table	ISP-A3000-RTABLE
Vise	ISP-A3000-VISE
Printer (only for ISP-A3000E)	ISP-A3000-PRINTER

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INSPECTION CERTIFICATE

HORIZONTAL PROFILE PROJECTORS



ISP-W4025

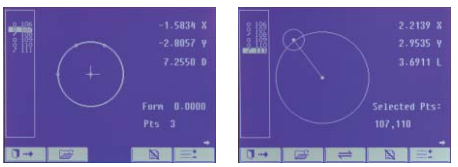


ISP-A7000E

VIDEO

digital readout of **ISP-A7000E**

- touch buttons
- USB data output to Excel and CAD
- show diagram





software flash disk (included, only for **ISP-A7000E**)

OPTIONAL ACCESSORY



lens



vise



rotary table



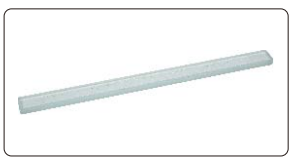
demo sample (need rotary table)



printer (only for **ISP-A7000E**)



50mm reading scale (check magnification accuracy)



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



Ø300mm overlay chart (protractor with 1° graduation, radius with 1mm increment)

To be continued

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Continued from previous page

SPECIFICATION

Code		**ISP-W4025**			**ISP-A7000E**	
Edge detector		not included			included	
Lens	**magnification**	5X (**optional**)	10X (standard)	20X (**optional**)	50X (**optional**)	100X (**optional**)
	view field	Ø80mm	Ø40mm	Ø20mm	Ø8mm	Ø4mm
	working distance	93.7mm	103.9mm	95.1mm	65.7mm	35mm
Magnification accuracy		±0.08%				
Image		erect image				
Projector screen		diameter: Ø400mm				
		rotation range: 0°~360°, resolution: 1' or 0.01°				
		reference lines: cross-hairs				
Stage	**metal stage size**	450×200mm				
	turning range	±15°				
	X-Z stage travel	range: 250×150mm				
		resolution: 0.5μm				
		accuracy: (4+L/25)μm L is the measuring length in mm				
	Y (focus) travel range	100mm				
	max. load capacity	50kg				
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable				
		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable				
Data processing unit	**display**	X-Z stage travel, screen rotation				
	output	RS232C			RS232C, USB (data output to Excel and CAD)	
	function	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines set origin of coordinate coordinate transform set midpoint of coordinate			measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the selective point and display the result	
	advanced function	—			programming for batch measurements	
Power supply		110/220V, 50/60Hz				
Dimension (L×W×H)		646×1215×1210mm				
Weight		240kg				

STANDARD DELIVERY

Main unit	1 pc
10X lens	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A7000E) and USB cable	1 pc

OPTIONAL ACCESSORY

5X lens	**ISP-W4025-LENS5X**
20X lens	**ISP-W4025-LENS20X**
50X lens	**ISP-W4025-LENS50X**
100X lens	**ISP-W4025-LENS100X**
Ø300mm overlay chart	**ISP-A3000-CHART**
50mm reading scale	**ISP-A3000-SCALE50**

300mm calibration scale	**ISP-A3000-RULE**
Demo sample	**ISP-A3000-DEMO**
V-block with clamp	**ISP-A3000-VBLOCK**
Rotary table	**ISP-A3000-RTABLE**
Vise	**ISP-A3000-VISE**
Printer (only for ISP-A7000E)	**ISP-A3000-PRINTER**

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INSPECTION CERTIFICATE

PROFILE PROJECTORS



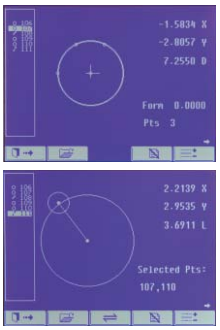
ISP-A6000 (without edge detector)



edge detector (for **ISP-A6000E**)

digital readout

- touch buttons
- USB data output to Excel and CAD
- show diagram





software flash disk (included)

23

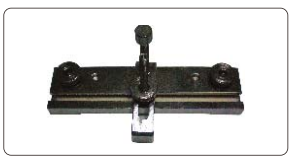
OPTIONAL ACCESSORY



lens



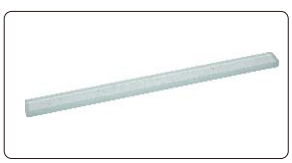
rotary table (glass plate diameter 100mm)



holder with clamp



printer



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



50mm reading scale (check magnification accuracy)



demo sample

To be continued

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Continued from previous page

SPECIFICATION

Code		ISP-A6000				ISP-A6000E
Edge detector		not included				included
Projector screen		diameter: Ø600mm				
		rotation range: 0°~360°, resolution: 1' or 0.01°				
		reference lines: cross-hairs				
Lens	magnification	5X (**optional**)	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)
	view field	Ø120mm	Ø60mm	Ø30mm	Ø12mm	Ø6mm
	working distance	242.8mm	143.2mm	85.5mm	92mm	48.5mm
Magnification accuracy		±0.08%				
Image		erect image				
Stage	metal stage size	404×265mm				
	glass stage size	207×170mm				
	X-Y stage travel	range: 200×100mm				
		resolution: 0.5μm				
		accuracy: (3+L/50)μm L is the measuring length in mm				
	Z (focus) travel range	50mm				
	max. load capacity	5kg				
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable				
		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable				
Data processing unit	display	X-Y stage travel, screen rotation				
	output	RS232C, USB (data output to Excel and CAD)				
	function	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the selective point and display the result				
	advanced function	programming for batch measurements				
Power supply		110/220V, 50/60Hz				
Dimension (L×W×H)		1200×1140×1940mm				
Weight		360kg				

STANDARD DELIVERY

Main unit	1 pc
10X lens	1 pc
Foot-switch	1 pc
Software and USB cable	1 pc
Overlay chart clip	4 pcs
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

5X lens	ISP-A6000-LENS5X
20X lens	ISP-A6000-LENS20X
50X lens	ISP-A6000-LENS50X
100X lens	ISP-A6000-LENS100X
Holder with clamp	ISP-A6000-HOLDER

300mm calibration scale	ISP-A6000-RULE
50mm reading scale	ISP-A6000-SCALE50
Rotary table	ISP-A6000-TABLE
Demo sample	ISP-A6000-DEMO
Printer	ISP-A6000-PRINTER

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VIDEO

LARGE SIZE QUICK MEASUREMENT SYSTEM
CODE QMS-A450



SPECIFICATION

Optical lens		dual-field dual-telecentric low-distortion lens	
Measurement range		**wide view field**	**small view field**
		500×400mm	430×350mm
Measurement Accuracy*	**without stitching**	±3μm①	±1μm②
	with stitching	±(5+0.02L)μm③	±(3+0.02L)μm④
Repeatability	**without stitching**	±1μm	±0.5μm
	with stitching	±2μm	±1.5μm
Illumination system	**transmission light**	telecentric illuminator, green light	
	surface light	vertical illuminator, high angle ring white light vertical illuminator, 4-zone low and medium angle ring white light (eletric) vertical illuminator, circular (directional) green light (eletric)	
	coaxial light (optional)	vertical illuminator, white light	
Max. weight of workpiece		25kg	
Measurement time		<2s	
Measurement data		2D measurement	
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz	
Power supply		220V, 50Hz, 1200W	
Dimension (L×W×H)		1060×860×1890mm	
Weight		650kg	

* The optimum temperature is 20°C±1°C
①Within 73×49mm, on focal position and environment temperature at 20°C±1°C
②Within 16×12mm, on focal position and environment temperature at 20°C±1°C
③Within 450×360mm, on focal position and environment temperature at 20°C±1°C
④Within 387×315mm, on focal position and environment temperature at 20°C±1°C

To be continued

Continued from previous page

- One or more workpieces can be measured by one step operation
- Place workpieces at any position
- Focus and measure automatically
- Measurement of 999+dimensions and 200+workpieces
- Suitable for parts with high precision requirements for large, medium, and small sizes

STANDARD DELIVERY

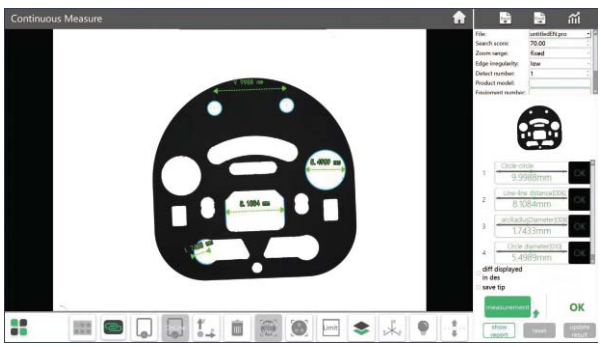
Main unit	1 pc
Computer	1 pc
Software	1 pc

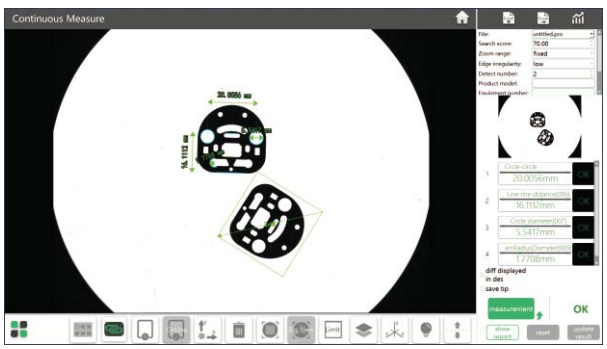
OPTIONAL ACCESSORY

Coaxial light illumination	**QMS-43-A1**
Data transimission function of software	**QMS-23-D1**
CAD import function of software	**QMS-23-C1**
Laser sensor	**QMS-43-SJ1**
Foot-switch	**QMS-43-FS1**

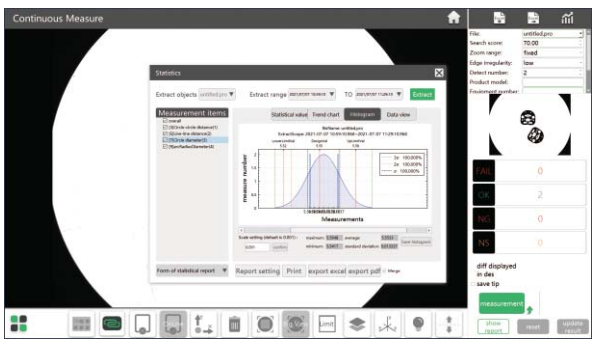
Software (included)

- Automatically measure widths, holes, rings, angles at the same time, simple and efficient





- Measuring result can be stored automatically. OK items and NG items can be counted automatically



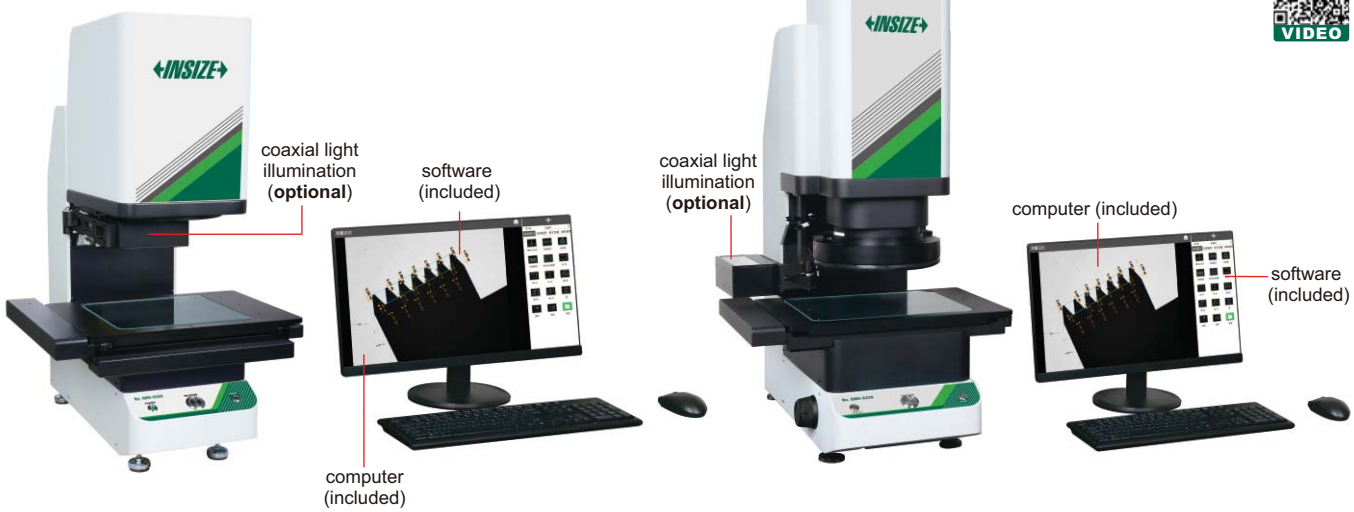


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NOTE: NOT SUITABLE FOR SMALL SIZES SUCH AS THREADS, CHAMFERS, ETC

QUICK MEASUREMENT SYSTEMS (WITH STITCHING)

VIDEO



QMS-A220 QMS-A320

SPECIFICATION

Code		QMS-A220		QMS-A315		QMS-A320	
Optical lens		dual-field dual-telecentric low-distortion lens					
		wide view field: Ø100mm small view field: Ø25mm		wide view field: Ø100mm small view field: Ø25mm		wide view field: Ø150mm small view field: Ø50mm	
View field range		wide view field	small view field	wide view field	small view field	wide view field	small view field
		93×62mm	20×16mm	100×80mm	25×20mm	150×110mm	50×35mm
Measurement range		200×200mm	130×130mm	300×200mm	230×130mm	300×210mm	200×135mm
Measurement accuracy *	without stitching	±3μm①	±1μm②	±3μm①	±1μm②	±5μm③	±2μm④
	with stitching	±(5+0.02L)μm⑤	±(3+0.02L)μm⑥	±(5+0.02L)μm⑦	±(3+0.02L)μm⑧	±(7+0.02L)μm⑨	±(4+0.02L)μm⑩
Repeatability	without stitching	±1μm	±0.5μm	±1μm	±0.5μm	±1μm	±0.5μm
	with stitching	±2μm	±1.5μm	±2μm	±1.5μm	±2μm	±1.5μm
Max. weight of workpiece		5kg					
Measurement time		<2s					
Measurement data		2D measurement					
Power supply		220V, 50Hz, 600W					
Illumination system	back light	telecentric illuminator, green light					
	ring light	4-zone circular white high light circular (directional) low-angle green light (eletric)					
	coaxial light (optional)	vertical illuminator, white light					
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz					
Dimension (L×W×H)		532×480×766mm		532×497×766mm		669×510×883mm	
Weight		50kg		60kg		68kg	

* The optimum temperature is 20°C±1°C
① Within 80×64mm, on focal position and environment temperature at 20°C±1°C
② Within 20×16mm, on focal position and environment temperature at 20°C±1°C
③ Within 120×88mm, on focal position and environment temperature at 20°C±1°C
④ Within 40×28mm, on focal position and environment temperature at 20°C±1°C
⑤ Within 180×180mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage
⑥ Within 117×117mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage
⑦ Within 270×180mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage
⑧ Within 207×117mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage
⑨ Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage
⑩ Within 180×121mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage

To be continued

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Continued from previous page

- One or more workpieces can be measured by one step operation
- Place workpieces at any position
- Focus and measure automatically
- Measurement of 999+dimensions and 200+workpieces
- **QMS-A220** and **QMS-A315** are suitable for small and medium-size parts with high precision requirements
- **QMS-A320** is suitable for medium-size parts with low accuracy requirements and fast efficiency requirements



11.6" LCD (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc

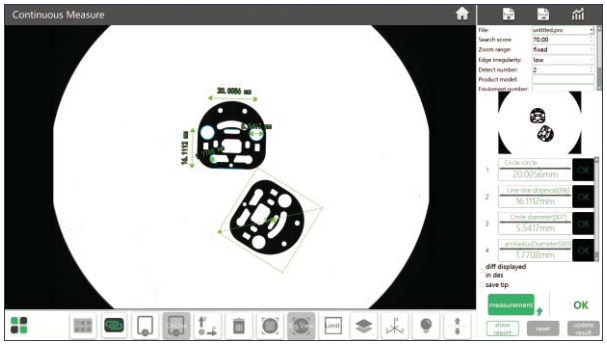
OPTIONAL ACCESSORY

Coaxial light illumination	**QMS-23-A3** (for **QMS-A220, QMS-A315**)
	QMS-23-A4 (for **QMS-A320**)
Data transimission function of software	**QMS-23-D1**
CAD import function of software	**QMS-23-C1**
Laser sensor	**QMS-43-SJ1** (for **QMS-A315**)
Foot-switch	**QMS-43-FS1**
11.6" LCD	**QMS-23-B1** (must be installed in factory)

Software (included)

- Automatically measure widths, holes, rings, angles at the same time, simple and efficient





- Measuring result can be stored automatically. OK items and NG items can be counted automatically





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NOTE: NOT SUITABLE FOR SMALL SIZES SUCH AS THREADS, CHAMFERS, ETC

QUICK MEASUREMENT SYSTEMS (WITHOUT STITCHING)

VIDEO



QMS-A110



QMS-A200

SPECIFICATION

Code		QMS-A110	QMS-A200	
Optical lens		low-distortion lens, single-field telecentric Ø100mm	dual-field dual-telecentric low-distortion lens wide view field: Ø150mm small view field: Ø50mm	
View field range		100×80mm	wide view field	small view field
			150×110mm	50×35mm
Measurement range (X×Y)		98×78mm	148×108mm	48×33mm
Measurement accuracy *		±3μm ①	±5μm ②	±2μm ③
Repeatability		±1μm	±1μm	±0.5μm
Max. weight of workpiece		5kg		
Measurement time		<2s		
Measurement data		2D measurement		
Power supply		220V, 50Hz, 600W		
Illumination system	back light	telecentric illuminator, green light		
	ring light	4-zone circular white high light circular (directional) low-angle green light (eletric)		
	coaxial light (optional)	vertical illuminator, white light		
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz		
Dimension (L×W×H)		580×235×790mm	638×336×885mm	
Weight		40kg	60kg	

* The optimum temperature is 20°C±1°C
① Within 80×64mm, on focal position and environment temperature at 20°C±1°C
② Within 120×88mm, on focal position and environment temperature at 20°C±1°C
③ Within 40×28mm, on focal position and environment temperature at 20°C±1°C

To be continued

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Continued from previous page

- One or more workpieces can be measured by one step operation
- Place workpieces at any position
- Focus and measure automatically
- Measurement of 999+dimensions and 200+workpieces
- **QMS-A110** is suitable for measuring small flat parts
- **QMS-A200** is suitable for measuring flat parts with low precision requirements and small surface sizes



11.6" LCD (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc

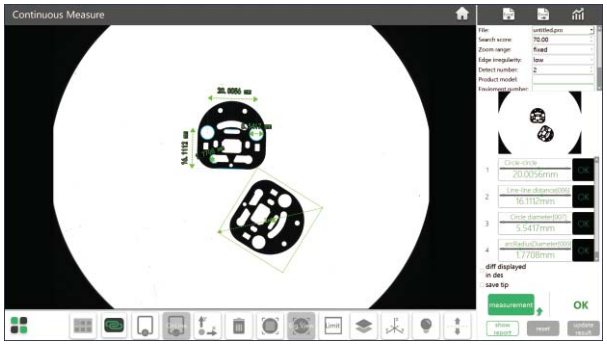
OPTIONAL ACCESSORY

Coaxial light illumination	**QMS-23-A3** (for **QMS-A110**)
	QMS-23-A4 (for **QMS-A200**)
Data transimission function of software	**QMS-23-D1**
CAD import function of software	**QMS-23-C1**
Foot-switch	**QMS-43-FS1**
11.6" LCD	**QMS-23-B1** (must be installed in factory)

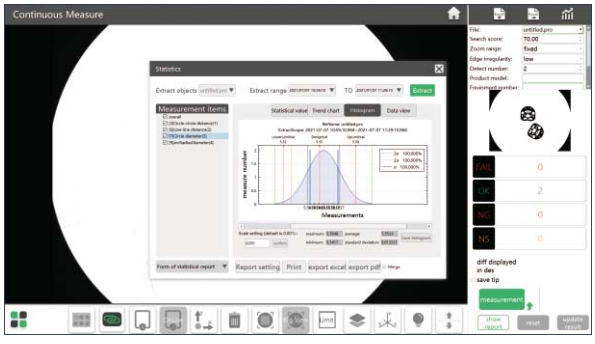
Software (included)

- Automatically measure widths, holes, rings, angles at the same time, simple and efficient





- Measuring result can be stored automatically. OK items and NG items can be counted automatically





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INSPECTION CERTIFICATE

HIGH-DEFINITION VISION MEASURING SYSTEMS (MANUAL TYPE)

- High-definition image
- Large view field
- Electronic magnification feedback lens: when the objective lens magnification is changed manually, the software automatically selects the corresponding pre-calibration data and calibration is not needed

VIDEO



ISD-H210 computer is included

STANDARD DELIVERY

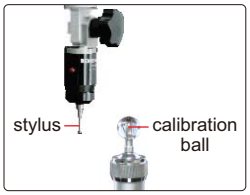
Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

SPECIFICATION

Code	ISD-H210	ISD-H320	ISD-H430
Measuring range (X×Y×Z)	200×100×150mm	300×200×150mm	400×300×150mm
Stage size	404×228mm	500×330mm	606×466mm
Glass stage size	260×160mm	350×250mm	450×350mm
Resolution of X/Y/Z axis	0.5μm		
Accuracy of X/Y axis	≤(3.5+L/100)μm (L is the measuring length in mm)		
Repeatability of X/Y axis	2μm		
Objective	0.58X~7.5X (zoom)		
View field (diagonal length)	1.4mm~14mm		
Working distance	82mm		
Magnification	27.4X~351X (on 24" monitor)		
Camera	giga-bit network camera		
Illumination	surface and contour with adjustable LED		
Max. height of workpiece	150mm		
Max. weight of workpiece	20kg		
Operation system	Windows 7/8/10		
Drive method	manual		
Power supply	110~240V, 50/60Hz		
Dimension (L×W×H)	540×560×850mm	760×600×900mm	970×670×940mm
Weight	110kg	140kg	240kg



lens with coaxial light (**optional**, must be installed in factory)



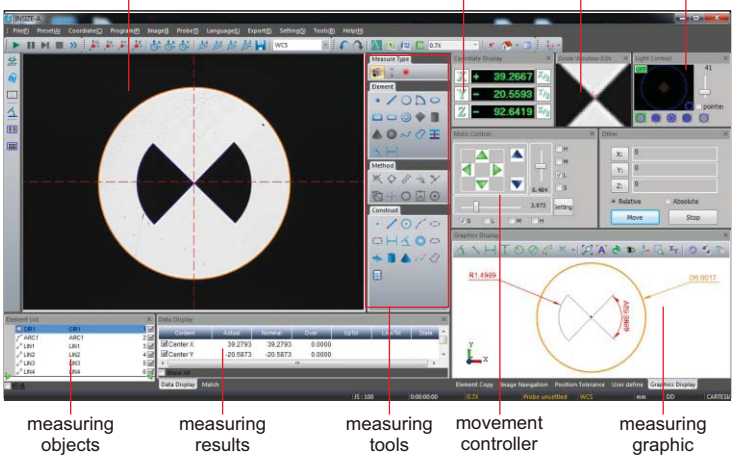
probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10μm

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: **ISD-H-OB05X** working distance: 155mm magnification: 13.7~175.5X (on 24" monitor)
2X auxiliary objective	code: **ISD-H-OB2X** working distance: 34.5mm magnification: 54.8~702X (on 24" monitor)
Probe	code: **ISD-V-PROBE** includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Vision measuring system with coaxial light lens	code: **ISD-H210CL, ISD-H320CL, ISD-H430CL**
Office software	code: **7313-OFFICE**

SOFTWARE (INCLUDED)

- Refer to page 521~522 for details

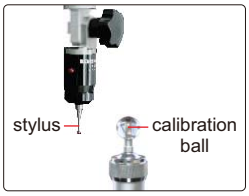


VISION MEASURING SYSTEMS (MANUAL TYPE)

INSPECTION CERTIFICATE



lens with coaxial light (**optional**, must be installed in factory)



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10μm



ISD-V250A

computer is included

VIDEO

SPECIFICATION

Code	ISD-V150A	ISD-V250A	ISD-V300A	ISD-V400A
Measuring range (X×Y×Z)	150×100×150mm	250×150×150mm	300×200×150mm	400×300×150mm
Stage size	354×228mm	450×280mm	500×330mm	606×466mm
Glass stage size	210×160mm	306×196mm	350×250mm	450×350mm
Resolution of X/Y/Z axis	0.5μm			
Accuracy of X/Y axis	≤(3.5+L/100)μm (L is the measuring length in mm)			
Repeatability of X/Y axis	2μm			
Objective	0.7X~4.5X (zoom)			
Working distance	92mm			
Magnification	33X~195X (on 19" monitor)			
Camera	1/3" color CCD, 0.3M pixel			
Illumination	surface and contour with adjustable LED			
Max. height of workpiece	150mm			
Max. weight of workpiece	20kg			
Operation system	Windows 7/8/10			
Drive method	manual			
Power supply	110/220V, 50/60Hz			
Dimension (L×W×H)	560×540×850mm	760×600×900mm	760×600×900mm	970×670×940mm
Weight	100kg	120kg	140kg	240kg

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

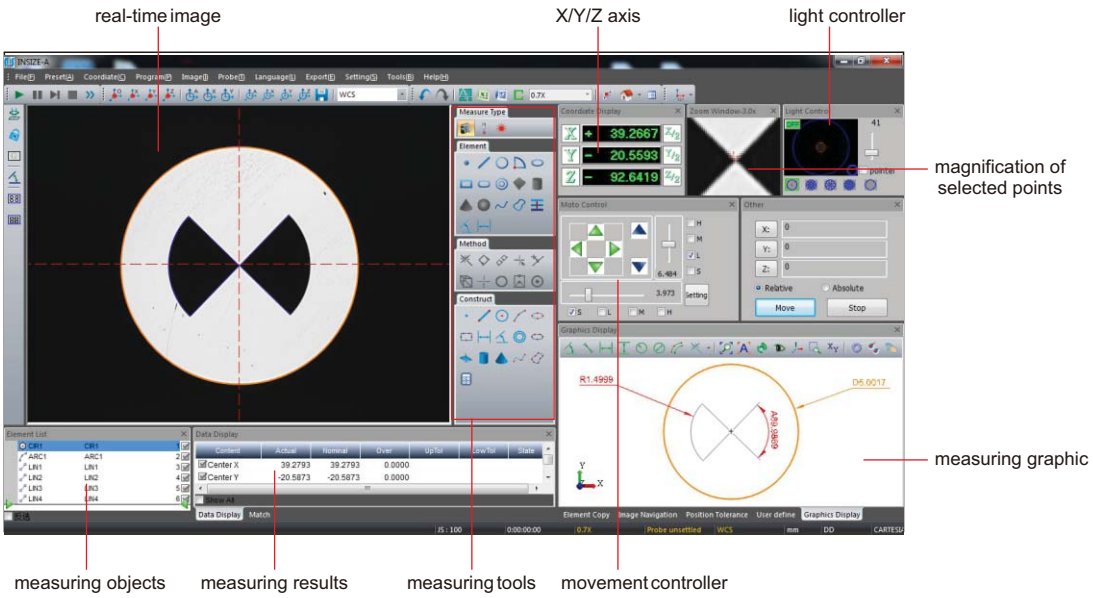
0.5X auxiliary objective	code: **ISD-V-OB05X** working distance: 175mm magnification: 16.5~97.5X (on 19" monitor)
2X auxiliary objective	code: **ISD-V-OB2X** working distance: 36mm magnification: 66~390X (on 19" monitor)
Probe	code: **ISD-V-PROBE** includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Vision measuring system with coaxial light lens (with computer)	code: **ISD-V150ACL, ISD-V250ACL, ISD-V300ACL, ISD-V400ACL**
Office software	code: **7313-OFFICE**

To be continued

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SOFTWARE (INCLUDED)

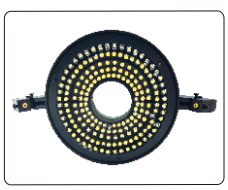
- Refer to page 521~522 for details



MOTORIZED ZOOM OBJECTIVE IS OPTIONAL

CNC VISION MEASURING SYSTEMS (WITH STAND)


lens with coaxial light (included)


programmable segmented ring light (included)


software flash disk (included)

VIDEO

computer is included



ISD-E320

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis
- Granite body, more stable
- SPC function for large quantity measurement
- Measuring software is included (page 521~522)

STANDARD DELIVERY

Main unit	1 pc
Dongle	1 pc
Software	1 pc
Computer	1 pc
Dispaly	1 pc
Lens with coaxial light	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc

To be continued

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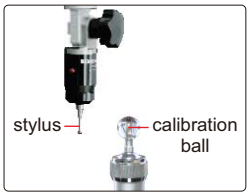
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SPECIFICATION

Code		ISD-E320	ISD-E430
Measuring range (X×Y×Z)		300×200×200mm	400×300×200mm
Stage size		556×406mm	561×556mm
Glass stage size		350×250mm	450×350mm
Resolution of X/Y/Z axis		0.5μm	
Accuracy of X/Y axis		≤(2.5+L/200)μm (L is measuring length in mm)	≤(3.5+L/200)μm (L is measuring length in mm)
Repeatability of X/Y axis		2μm	
Objective (manual zoom)		0.7X~4.5X (zoom)	
Working distance		92mm	
View field (diagonal length)		1.7~11.1mm	
Magnification		33X~208.6X (on 24" monitor)	
Camera		giga-bit network camera	
Illumination	surface	coaxial light, programmable segmented ring light	
	contour	adjustable LED light	
Max. height of workpieces		200mm	
Max. weight of workpieces		30kg	
Operation system		Windows 7/8/10	
Drive method		automatic	
Power supply		220V, 50/60Hz	
Dimension (L×W×H)		1420×915×1830mm	1650×1170×1900mm
Weight		500kg	700kg

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: **ISD-V-OB05X** working distance: 175mm magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	code: **ISD-V-OB2X** working distance: 36mm magnification: 66~417.2X (on 24" monitor)
Probe	code: **ISD-V-PROBE** includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Office software	code: **7313-OFFICE**
Laser probe	code: **ISD-V-LASER**



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10μm

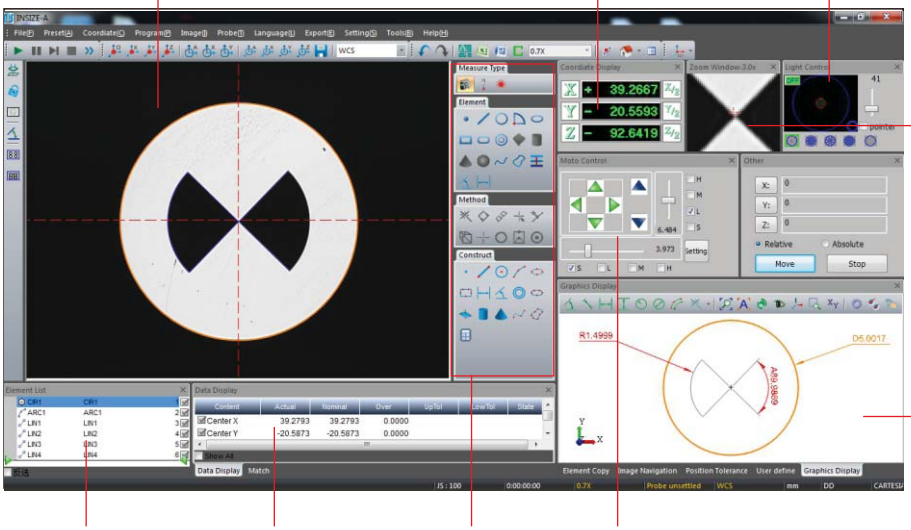


laser probe (**optional**) measuring accuracy is 5μm

SOFTWARE (INCLUDED)

23

- Refer to page 521~522 for details



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INSPECTION CERTIFICATE

CNC VISION MEASURING SYSTEMS

VIDEO



ISD-V220CNCA

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement
- Measuring software is included (page 521~522)

SPECIFICATION

Code							
	motorized zoom lens	ISD-V220ZA	ISD-V220ZHN	ISD-V270ZA	ISD-V270ZHN	ISD-V370ZA	ISD-V370ZHN
	manual zoom lens	ISD-V220CNCA	ISD-V220HN	ISD-V270CNCA	ISD-V270HN	ISD-V370CNCA	ISD-V370HN
Measuring range (X×Y×Z)		220×120 ×150mm	220×120 ×300mm	270×170 ×150mm	270×170 ×300mm	370×270 ×150mm	370×270 ×300mm
Stage size		450×280mm	450×280mm	500×330mm	500×330mm	606×466mm	606×466mm
Glass stage size		306×196mm	306×196mm	350×250mm	350×250mm	450×350mm	450×350mm
Resolution of X/Y/Z axis		0.5μm					
Accuracy of X/Y axis		≤(2.5+L/100)μm (L is the measuring length in mm)				≤(3.5+L/100)μm (L is the measuring length in mm)	
Repeatability of X/Y axis		2μm					
Objective		0.7X~4.5X (zoom)					
Working distance		92mm					
Magnification		33.0X~208.6X (with manual zoom lens, on 24" monitor)					
		31.9X~188.7X (with motorized zoom lens, on 24" monitor)					
Camera		giga-bit network camera					
Illumination	surface	coaxial light, programmable segmented ring light					
	contour	adjustable LED light					
View field (diagonal length)		1.5~10.8mm					
Max. height of workpiece		150mm	300mm	150mm	300mm	150mm	300mm
Max. weight of workpiece		30kg					
Operation system		Windows 7/8/10					
Drive method		automatic					
Power supply		220V, 50/60Hz					
Dimension (L×W×H)		760×600 ×900mm	760×600 ×1050mm	760×600 ×900mm	760×600 ×1050mm	970×670 ×940mm	970×670 ×1090mm
Weight		146kg	156kg	168kg	178kg	266kg	276kg

To be continued

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Continued from previous page



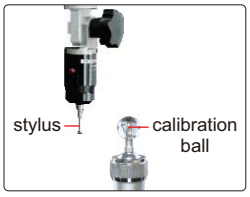
software flash disk
(included)

desk (**optional**)





laser probe (**optional**)
measuring accuracy is 5μm



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10μm

STANDARD DELIVERY

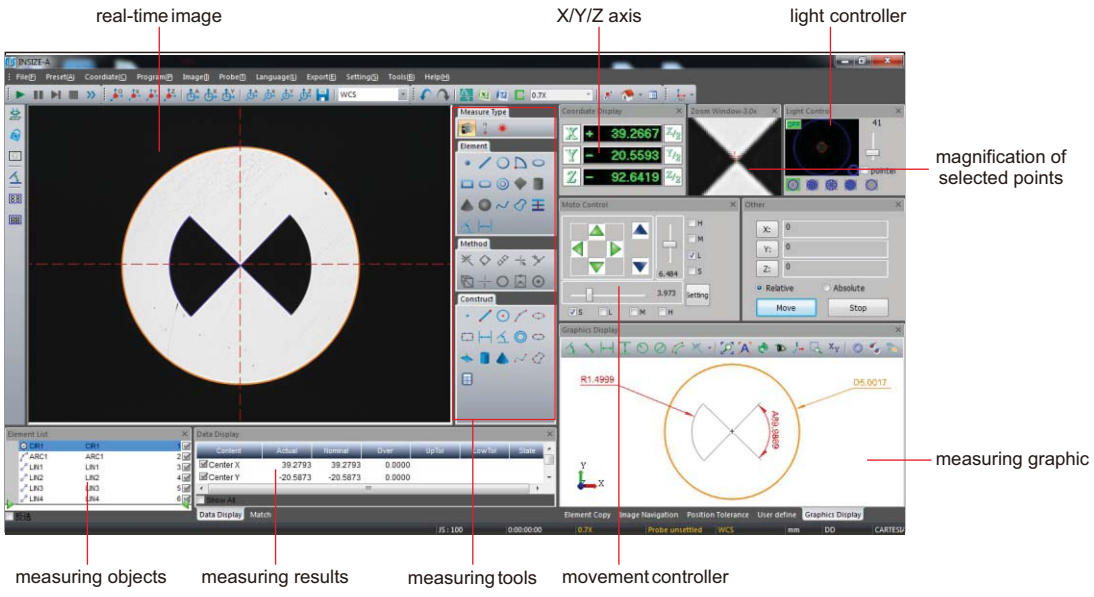
Main unit	1 pc
Software	1 pc
Computer	1 pc
24" display	1 pc
Len with coaxial light	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: **ISD-V-OB05X**, working distance: 175mm magnification: 16.5~104.3X (with manual zoom lens, on 24" monitor), 16.0~94.4X (with motorized zoom lens, on 24" monitor)
2X auxiliary objective	code: **ISD-V-OB2X**, working distance: 36mm magnification: 66~417.2X (with manual zoom lens, on 24" monitor), 63.8~377.4X (with motorized zoom lens, on 24" monitor)
Probe	code: **ISD-V-PROBE**, includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Laser probe	code: **ISD-V-LASER**
Office software	code: **7313-OFFICE**
Desk	code: **ISD-V-DESK**

SOFTWARE (INCLUDED)

- Refer to page 521~522 for details



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CNC VISION MEASURING SYSTEMS

VIDEO



ISD-V500N



computer is included

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement

SPECIFICATION

Code		ISD-V500N	ISD-V500HN
Measuring range (X×Y×Z)		470×370×200mm	470×370×400mm
Stage size		786×636mm	
Glass stage size		570×470mm	
Resolution of X/Y/Z axis		0.5μm	
Accuracy of X/Y axis		≤(2.5+L/200)μm (L is measuring length in mm)	
Repeatability of X/Y axis		2μm	
Objective		0.7X~4.5X (zoom)	
Working distance		92mm	
View field (diagonal length)		1.5~10.8mm	
Magnification		33.0X~208.6X (on 24" monitor)	
Camera		giga-bit network camera	
Illumination	surface	coaxial light, programmable segmented ring light	
	contour	adjustable LED light	
Max. height of workpieces		200mm	400mm
Max. weight of workpieces		30kg	
Operation system		Windows 7/10	
Drive method		automatic	
Power supply		220V, 50/60Hz	
Dimension (L×W×H)		1270×1200×1870mm	1270×1200×2070mm
Weight		870kg	900kg

To be continued

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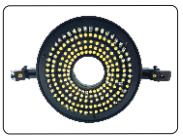
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STANDARD DELIVERY

Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Lens with coaxial light	1 pc
Controller	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc



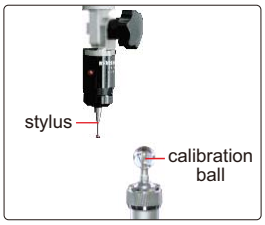
lens with coaxial light (included)



programmable segmented ring light (included)

OPTIONAL ACCESSORY

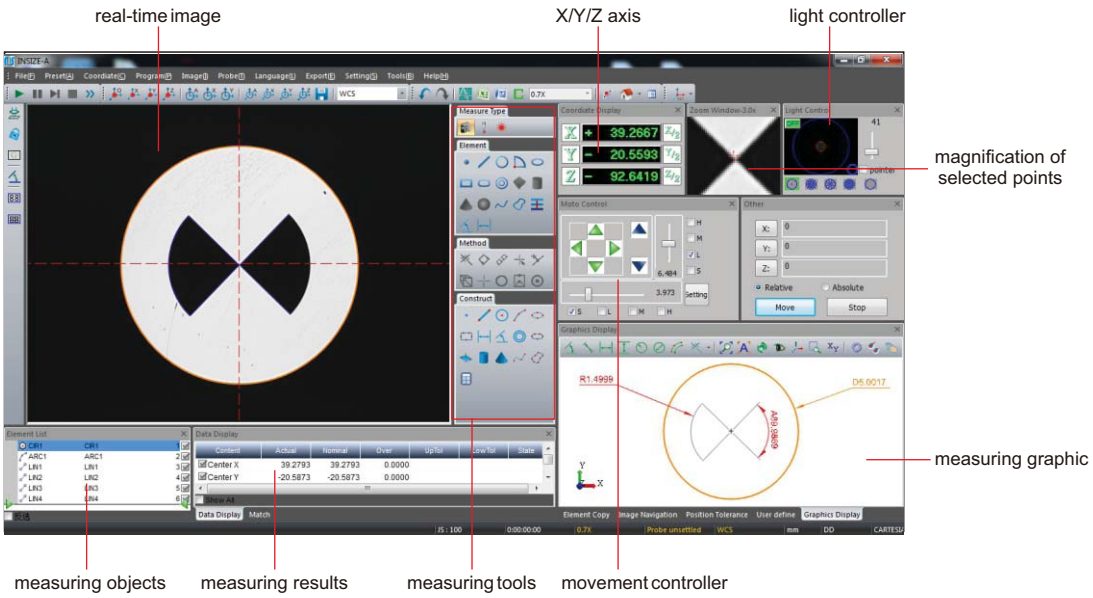
0.5X auxiliary objective	code: **ISD-V-OB05X** working distance: 175mm magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	code: **ISD-V-OB2X** working distance: 36mm magnification: 66~417.2X (on 24" monitor)
Probe	code: **ISD-V-PROBE** includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Office software	code: **7313-OFFICE**



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10μm

SOFTWARE (INCLUDED)

- Refer to page 521~522 for details



MOTORIZED ZOOM OBJECTIVE IS OPTIONAL

CNC VISION MEASURING SYSTEMS

VIDEO



VMM-L1001CN

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis, X, Y axis adopt linear guide rail structure, without air supply
- Fixed glass table and granite platform base, good stability
- SPC function for large quantity measurement
- Measuring software is included (page 521~522)

SPECIFICATION

Code		VMM-L600CN	VMM-L601CN	VMM-L800CN
Measuring range (X×Y×Z)		600×600×200mm	600×900×200mm	800×1000×200mm
Glass stage size		765×1238mm	702×1543mm	902×1643mm
Resolution of X/Y/Z axis		0.5μm		
Accuracy of X/Y axis		≤(3.5+L/200)μm (L is measuring length in mm)		
Repeatability of X/Y axis		2μm		
Objective (manual zoom)		0.7X~4.5X (zoom)		
Working distance		92mm		
View field (diagonal length)		1.7~11.1mm		
Magnification		33.0X~208.6X (on 24" monitor)		
Camera		giga-bit network camera		
Illumination	surface	coaxial light, programmable segmented ring light		
	contour	adjustable LED light		
Max. height of workpiece		200mm		
Max. weight of workpiece		35kg		
Operation system		Windows 7/8/10		
Drive method		automatic		
Power supply		AC 220V, 50/60Hz		
Dimension (L×W×H)		1445×1185×1560mm	1745×1220×1720mm	1850×1420×1720mm
Weight		1000kg	1400kg	2200kg

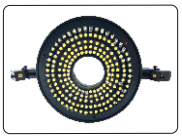
To be continued

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SPECIFICATION

Code		VMM-L1000CN	VMM-L1001CN	VMM-L1200CN
Measuring range (X×Y×Z)		1000×1200×200mm	1000×1500×200mm	1200×1500×200mm
Glass stage size		1100×1831mm	1100×2113mm	1300×2113mm
Resolution of X/Y/Z axis		0.5μm		
Accuracy of X/Y axis		≤(3.5+L/200)μm (L is measuring length in mm)		
Repeatability of X/Y axis		2μm		
Objective(manual zoom)		0.7X~4.5X (zoom)		
Working distance		92mm		
View field (diagonal length)		1.7~11.1mm		
Magnification		33.0X~208.6X (on 24" monitor)		
Camera		giga-bit network camera		
Illumination	surface	coaxial light, programmable segmented ring light		
	contour	adjustable LED light		
Max. height of workpiece		200mm		
Max. weight of workpiece		30kg		
Operation system		Windows 7/8/10		
Drive method		automatic		
Power supply		AC 220V, 50/60Hz		
Dimension (L×W×H)		2035×1590×1720mm	2315×1590×1720mm	2315×1790×1720mm
Weight		2900kg	3200kg	4000kg



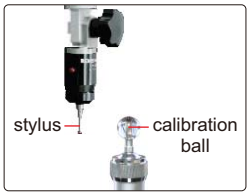
programmable segmented ring light (included)



lens with coaxial light (included)

STANDARD DELIVERY

Main unit	1 pc
Dongle	1 pc
Computer	1 pc
Software	1 pc
Dispaly	1 pc
Lens with coaxial light	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10μm



laser probe (**optional**) measuring accuracy is 5μm

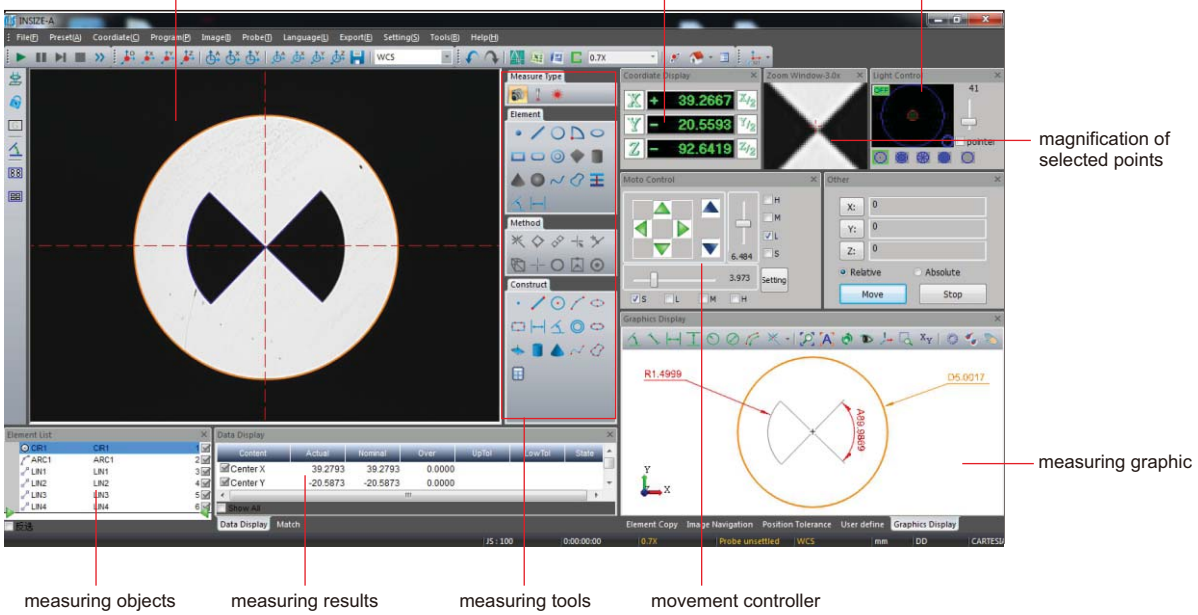
OPTIONAL ACCESSORY

0.5X auxiliary objective	code: **ISD-V-OB05X** working distance: 175mm magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	code: **ISD-V-OB2X** working distance: 36mm magnification: 66~417.2X (on 24" monitor)
Probe	code: **ISD-V-PROBE** includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Laser probe	code: **ISD-V-LASER**
Office software	code: **7313-OFFICE**

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SOFTWARE FOR VISION MEASURING SYSTEMS ISD-V SERIES, ISD-H SERIES, ISD-VMM SERIES, ISD-E SERIES AND VMM-L SERIES

VISION MEASURING SOFTWARE



- Operation system: Windows 7/10
- Language: English
- Control features: assistant focus (manual machines), auto focus (CNC machines), auxiliary light control, motion controlled by mouse (CNC machines), auto zoom lens (CNC machines)
- Image measuring methods: intelligent automatic edge detect, select points of an area, select points from multiple parts, select points via mouse, select adjacent points, select points via cross line, magnify to select points, comparatively select points, select points via probe, edge point, contour point
- Constructable elements: point, line, circle, arc, ellipse, rectangle, distance, angle, ring, slot, plane, cone, open curve, closed curve
- Support fixture (CNC machines), scanning, image navigation, user define, pixel calibration
- Measuring by image and probe, image and probe can be synchronized
- Measuring data can be sent to Excel, Word, SPC, measuring elements can be sent to dxf

- Dimension measuring tools:

point | line | circle | arc | ring | ellipse | rectangle

open curve | closed curve | distance | angle | focus plane (image) | slot | plane(probe)

sphere (probe) | cone (probe) | cylinder (probe)

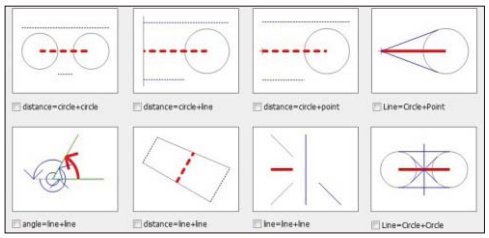
- Geometric measuring tools:

position | parallelism | squareness | angularity | symmetry | concentricity | coaxiality (probe)

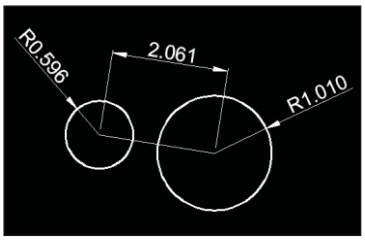
To be continued

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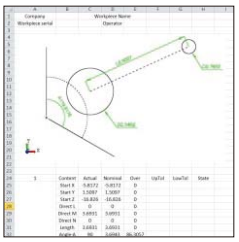
- Measuring and element construct methods:



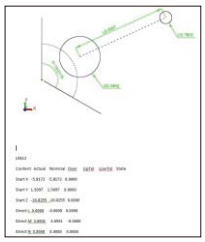
- Sent to CAD, EXCEL, WORD



CAD



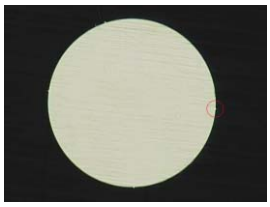
EXCEL



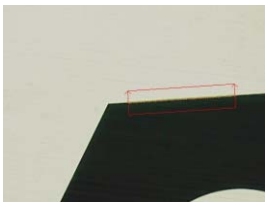
WORD

- Edge-detection:

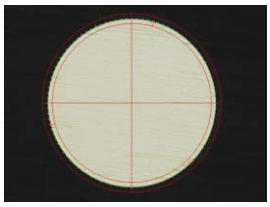
point tool



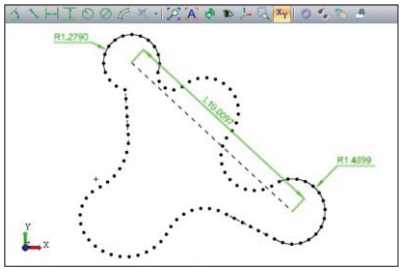
box tool



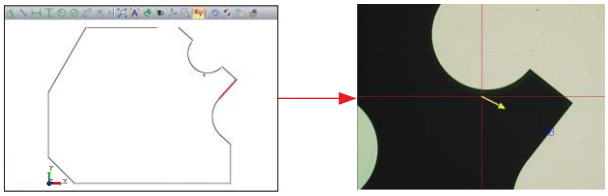
circle tool



- Contour scanning:

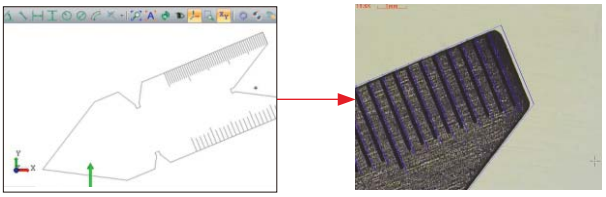


- CAD measuring:



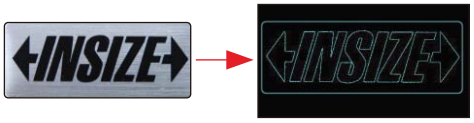
import CAD drawing, set the datum, establish coordinate system,
then the software will automatically measure

- CAD comparison:

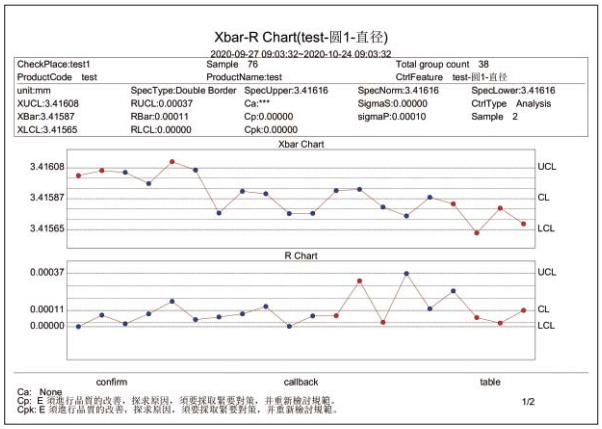


import CAD drawing,
then compare with real-time image

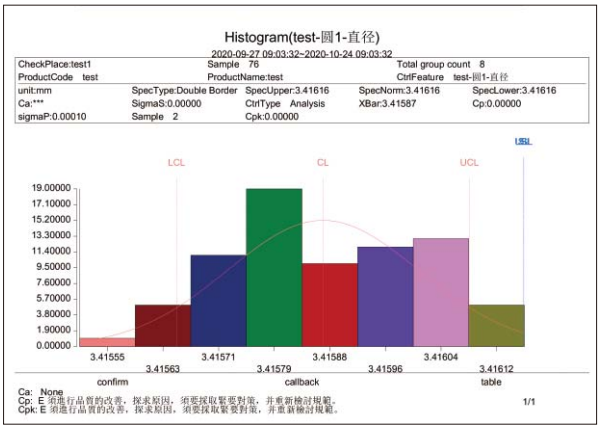
- Profile scanning:



- SPC analysis, import the measuring data to SPC module, generate Xbar-R chart, Xbar-S chart, Mid-R chart, X-Rs chart, Histogram, Sigma A and Sigma S chart, Cpk process chart, Process state analyse chart, Single proscess advice analyse chart



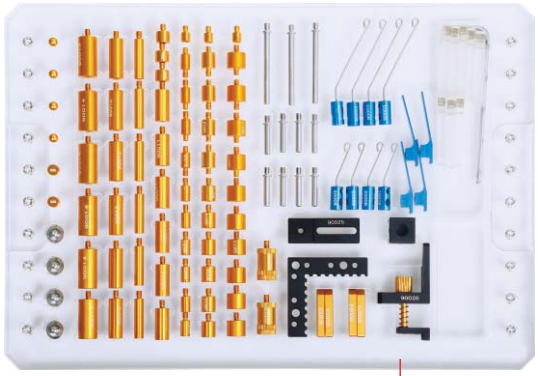
Xbar-R chart



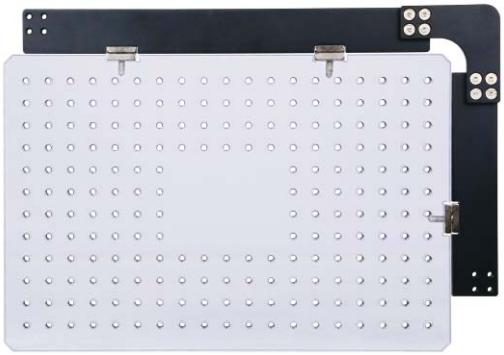
Histogram

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JIG SET FOR VISION MEASURING SYSTEMS
CODE ISY-700

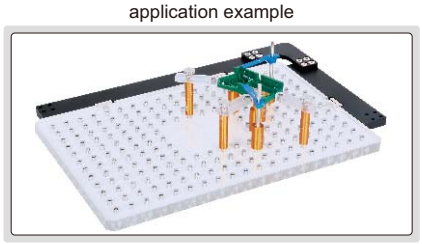


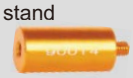
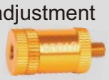
acrylic tray (included)

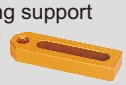
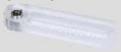


ISY-700

application example



Product	Code	Size (mm)	Quantity
clip 	**ISY-700-90001**	7×34	4
clip 	**ISY-700-90002**	Ø1.5×24	4
	ISY-700-90003	Ø1.5×50	4
clip stand 	**ISY-700-90004**	Ø4×20	8
	ISY-700-90005	Ø4×46	3
spherical support head 	**ISY-700-90006**	—	4
stand 	**ISY-700-90007**	Ø6×10	6
	ISY-700-90008	Ø6×25	6
	ISY-700-90019	Ø6×6	3
stand 	**ISY-700-90009**	Ø9×7	3
	ISY-700-90010	Ø9×10	6
	ISY-700-90011	Ø9×20	6
	ISY-700-90012	Ø9×25	6
stand 	**ISY-700-90013**	Ø12×10	6
	ISY-700-90014	Ø12×25	6
stand for slice parts 	**ISY-700-90015**	Ø6×10	4
	ISY-700-90016	Ø9×10	4
	ISY-700-90017	Ø12×10	4
stand with fine adjustment 	**ISY-700-90018**	Ø12×20~25	2

Product	Code	Size (mm)	Quantity
adapter for square support 	**ISY-700-90020**	—	2
clamping screw 	**ISY-700-90021**	—	4
L-shaped positioning plate 	**ISY-700-90022**	50×50×6	1
sliding support plate 	**ISY-700-90023**	30×12×5	4
square support 	**ISY-700-90024**	20×16×16	1
base for square support 	**ISY-700-90025**	45×16×6	1
spring stand 	**ISY-700-90026**	—	1
acrylic sliding support plate 	**ISY-700-90028**	45×12×5	8
wrench 	**ISY-700-90029**	M3	1
acrylic base plate 	**ISY-700-90030**	300×200×12 Hole size: M4X0.7	1

STANDARD GLASS SCALES



ISD-CL300A

- To calibrate optical measuring instruments, also can be used as optical positioning elements in precision machine tools

STANDARD TYPE

Code	Measuring range	Graduation	Length	Width	Thickness	Accuracy
ISD-CL100A	100mm	1mm	130mm	30mm	5mm	1μm
ISD-CL200A	200mm	1mm	230mm	30mm	5mm	1μm
ISD-CL300A	300mm	1mm	330mm	30mm	5mm	1μm
ISD-CL400A	400mm	1mm	430mm	30mm	5mm	1μm
ISD-CL500A	500mm	1mm	530mm	30mm	5mm	2μm

ECONOMIC TYPE

Code	Measuring range	Graduation	Length	Width	Thickness	Accuracy
ISD-CL100B	100mm	1mm	130mm	30mm	5mm	3μm
ISD-CL200B	200mm	1mm	230mm	30mm	5mm	3μm
ISD-CL300B	300mm	1mm	330mm	30mm	5mm	3μm
ISD-CL400B	400mm	1mm	430mm	30mm	5mm	3μm
ISD-CL500B	500mm	1mm	530mm	30mm	5mm	3μm

PROFESSIONAL TYPE (The scale is between two layers of glass and will not be worn off)

Code	Measuring range	Graduation	Length	Width	Thickness	Accuracy
ISD-CL100S	100mm	1mm	130mm	30mm	10mm	1μm
ISD-CL200S	200mm	1mm	230mm	30mm	10mm	1.5μm
ISD-CL300S	300mm	1mm	330mm	30mm	15mm	2.5μm
ISD-CL400S	400mm	1mm	430mm	30mm	15mm	3μm
ISD-CL500S	500mm	1mm	530mm	30mm	15-25mm	3.5μm

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MICROSCOPES, MAGNIFIERS

24



Toolmaker Microscopes
Page 526-527



Digital Microscopes
Page 528-562



Cutting Tools Microscopes
Page 549



Industrial Microscopes
Page 563-564



Metallurgical Microscopes
Page 565-568



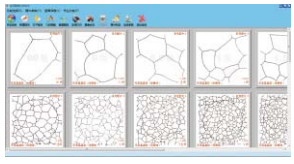
Zoom Stereo Microscopes
Page 569-575



Polarizing Microscopes
Page 576



Digital Cameras For Microscopes
Page 577-585



Metallurgical Analysis Softwares
Page 584-585



Portable Measuring Microscopes
Page 586



Table Magnifiers With Illumination
Page 587



Digital Magnifiers
Page 588-589



Magnifiers
Page 590-594



Telescoping Inspection Mirrors
Page 594



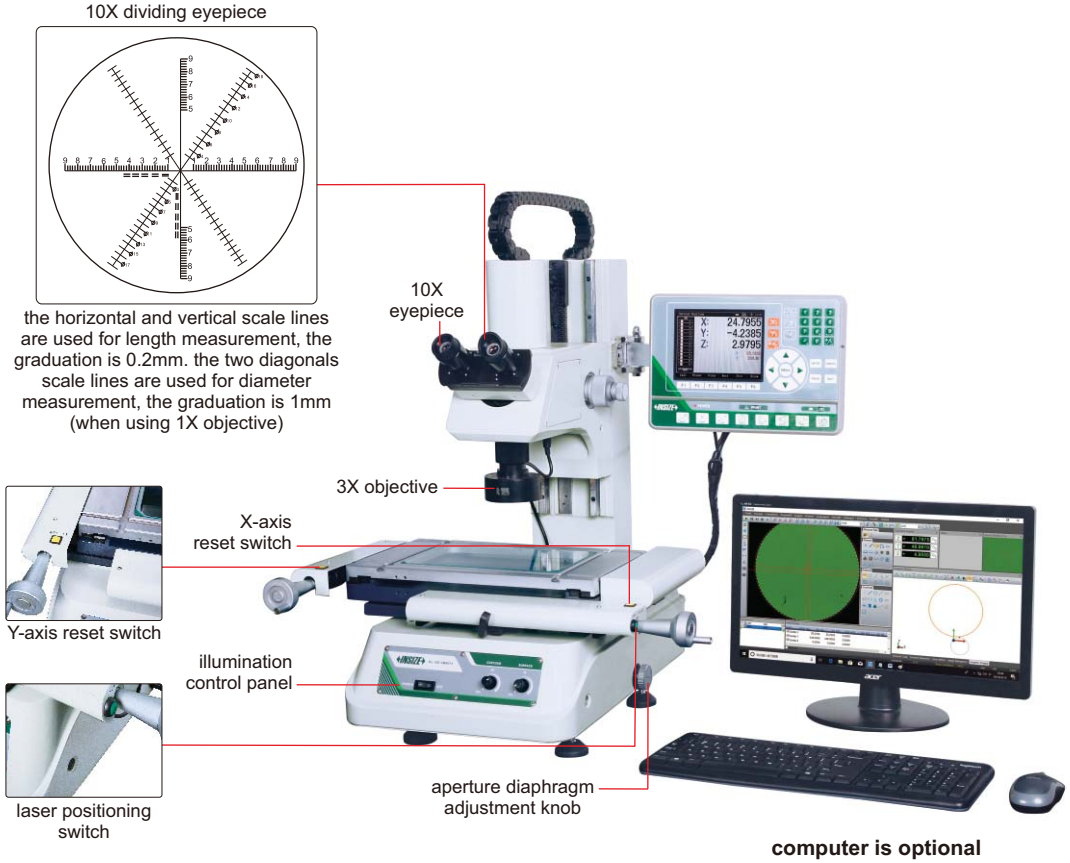
Telescoping Pick-up
Page 595

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TOOLMAKER MICROSCOPES

INSPECTION CERTIFICATE

VIDEO



ISD-VMM215

SPECIFICATION

Code	binocular	ISD-VMM205	ISD-VMM215	ISD-VMM225	ISD-VMM235
	monocular	ISD-VMM205D	ISD-VMM215D	ISD-VMM225D	ISD-VMM235D
X/Y axis travel		150×100mm	200×100mm	250×150mm	300×200mm
Z axis travel		150mm	150mm	200mm	200mm
Metal stage size		354×228mm	404×228mm	450×280mm	500×330mm
Glass stage size		210×160mm	260×160mm	306×196mm	350×250mm
Resolution of X/Y/Z axis		0.5μm			
Accuracy of X/Y axis		≤(3.5+L/100)μm (L is the measuring length in mm)			
Repeatability		2μm			
Camera		1/3" color CCD, 0.3M pixel			
Optical magnification		30X (with 3X objective)			
Image magnification		114X (on 19" monitor)			
Illumination		surface and contour with adjustable LED			
Max. weight of workpiece		25kg			
Power supply		100V~240V, 50/60Hz			
Operation system		Windows 7/8/10			
Drive method		manual			
Dimension (L×W×H)		540×667×850mm	540×667×850mm	800×675×920mm	800×675×920mm
Weight		100kg	110kg	135kg	140kg

To be continued

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Continued from previous page

DATA PROCESSING UNIT

Output	RS232
Function	simple measuring tools measure coordinate of points measure lines measure center coordinate, radius of circle with three points measure distances betwen two objects measure angles set origin of coordinate skew and calibrate the workpiece measure rectangle (including length, width, perimeter and center coordinate) measure thread (including thread diameter, screw pitch, screw angle) measure slot (including center coordinate, length, width)

STANDARD DELIVERY

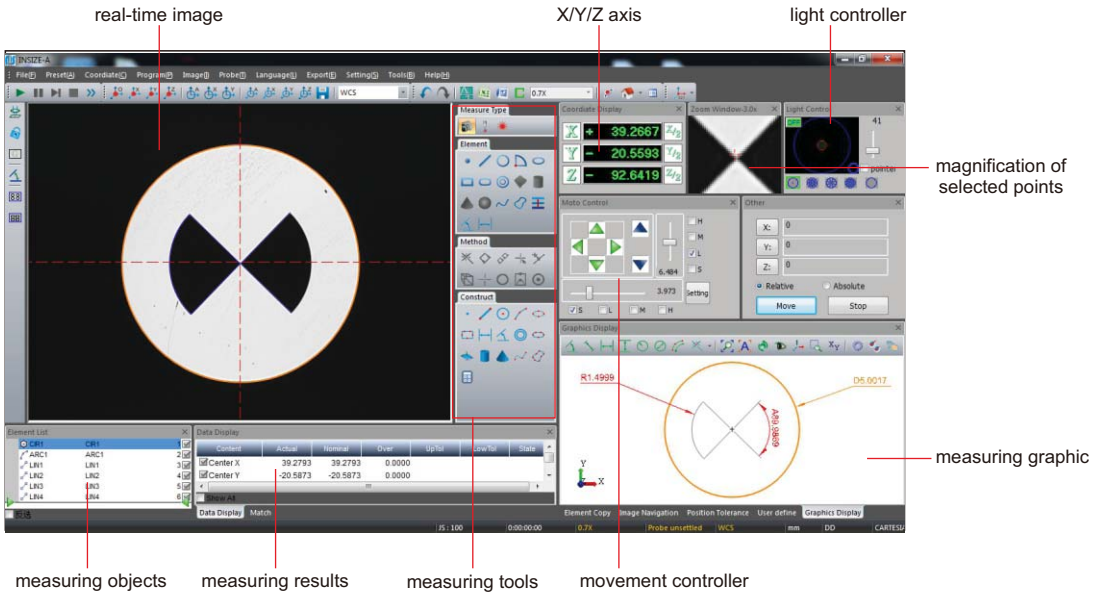
Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Calibration glass chart	1 pc
Demo sample	1 pc
Foot switch	1 pc
3X objective	1 pc

OPTIONAL ACCESSORY

1X objective	**ISD-VMM-LENS1X**
5X objective	**ISD-VMM-LENS5X**
10X objective	**ISD-VMM-LENS10X**
Toolmaker microscopes (with computer)	code: **ISD-VMM205A** (binocular) **ISD-VMM215A** (binocular) **ISD-VMM225A** (binocular) **ISD-VMM235A** (binocular) code: **ISD-VMM205DA** (monocular) **ISD-VMM215DA** (monocular) **ISD-VMM225DA** (monocular) **ISD-VMM235DA** (monocular)

SOFTWARE (INCLUDED)

- Refer to page 521~522 for details



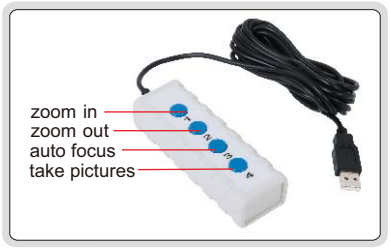
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AUTO FOCUS DIGITAL MICROSCOPES (LARGE VIEW FIELD)

TAKE PICTURES AND VIDEOS | MEASUREMENT | CAN BE CONNECTED TO PC AND TV AT THE SAME TIME | AUTO FOCUS

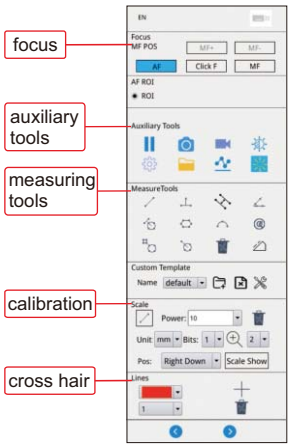


- Auto focus camera
- Take pictures and videos
- Can be connected to TV (HDMI port) and computer (RJ45 port) at the same time
- Built-in measuring software for TV
- Measuring software for computers is included
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red /yellow/black/brown colors)



controller (**optional**, for TV)

TV SOFTWARE (INCLUDED)



VIDEO

SPECIFICATION

Code	5302-AF105 (standard type)	5302-AF108 (high-definition type)
Pixel	2M	8M
Resolution	1920×1080	3840×2160
Magnification	1.4X~25.8X (on 28" TV)	1.4X~51.6X (on 28" TV)
Sensor	1/2.8" CMOS	
Auto focus distance	100mm~∞	
Output	HDMI, RJ45	
Frame rate	HDMI: 60fps, RJ45: 50fps	
Power supply	power adapter	
Dimension (L×W×H)	500×280×410mm	
Weight	17kg	

VIEW FIELD

Focus distance	Adjustable magnification (on 28" TV)	View field
100mm	3.9~25.8X	24×14~168×91mm
150mm	2.6~20X	30×17~240×128mm
200mm	2.1~17X	37×20~315×170mm
250mm	1.7~14.7X	42×24~385×210mm
270mm	1.4~14X	43×25~415×225mm

MEASURING ACCURACY

Optical magnification (5302-AF105)	Optical magnification (5302-AF108)	Measuring accruacy
2X	2X	±0.1mm
4X	4X	±0.1mm
6X	6X	±0.04mm
8X	8X	±0.02mm
14X	14X	±0.02mm
/	28X	±0.02mm

STANDARD DELIVERY

Main unit (with stand)	1 pc
LED illumination	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable (for TV)	1 pc
Network cable (for computer)	1 pc
Switch	1 pc
Software for computer	1 pc
Power adapter	2 pcs

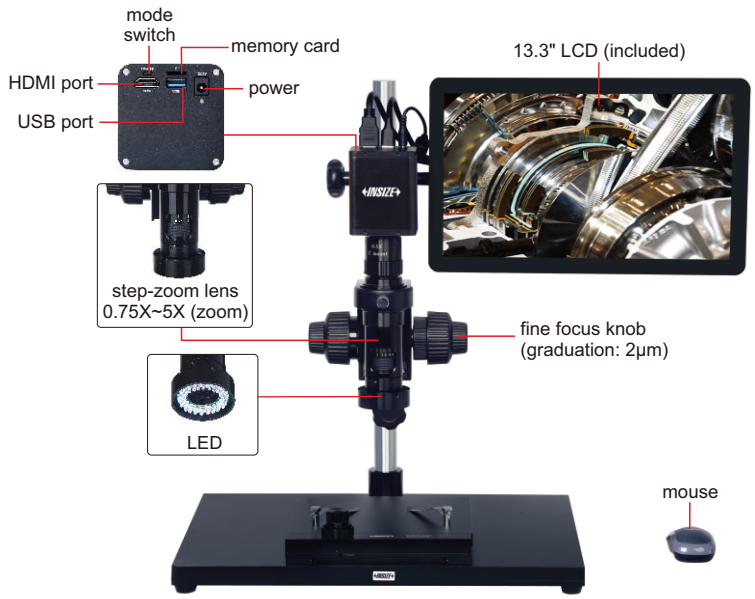
OPTIONAL ACCESSORY

28" 4K TV	5302-AF-TV28
32" 4K TV	5302-AF-TV32
Computer	5302-AF-COMPUTER
Controller	5302-AF-CONTROLLER

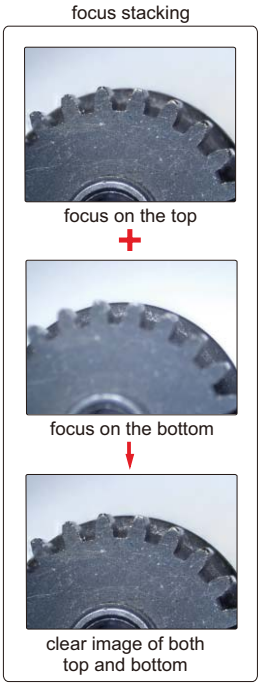
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IMAGE STITCHING | DUAL SCREEN OPERATION | FOCUS STACKING

HIGH-DEFINITION AUTO FOCUS MEASURING MICROSCOPE
CODE 5315-S710



VIDEO

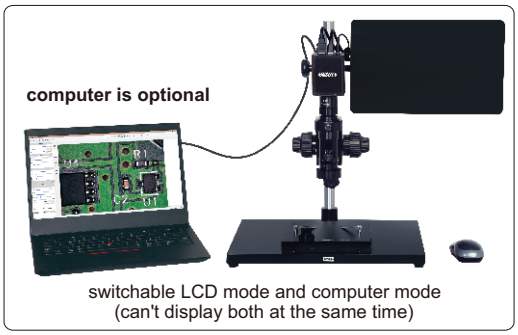


- 12M high-definition image
- Switchable LCD mode and computer mode
- Take pictures or videos, save to memory card
- Measurement results can be sent to Excel
- Auto focus
- Automatic white balance and exposure


calibration plate (included)


1X camera adapter (**optional**)

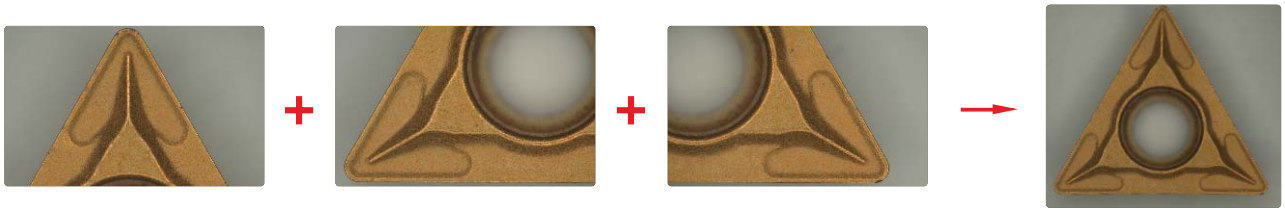

2X auxiliary objective (**optional**)



switchable LCD mode and computer mode (can't display both at the same time)



image stitching


adjust the X-Y metal stage to move the workpiece slowly to generate a stitched image automatically

To be continued

Continued from previous page

SPECIFICATION

Magnification	15X~100X (on 13.3" LCD)
Sensor	1/1.7" CMOS
Pixel	12M
Resolution	1920×1080
Frame rate	30fps
Output	HDMI/USB
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (on 13.3" LCD)

Specification	Camera adapter	
	0.5X (included)	1X (optional)
Magnification	15~100X	30~200X
Focus distance	80±2mm	80±2mm
View filed	20.0×11.2~5.5×3.1mm	10.0×5.6~2.7×1.5mm

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
32G memory card	1 pc
Mouse	1 pc
X-Y metal stage	1 pc

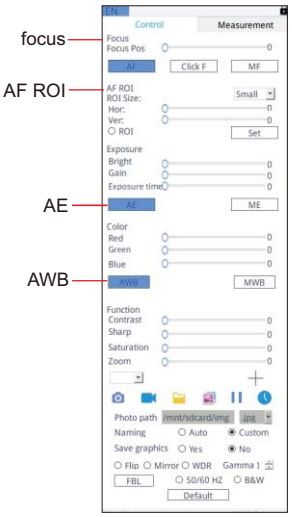
OPTIONAL ACCESSORY

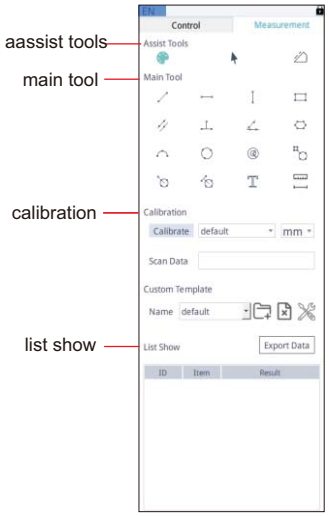
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
Computer	ISM-DL-COMPUTER
LED light	page 553~554
Auxiliary objective	page 555

MAGNIFICATION AND MEASURING ACCURACY (on 13.3" LCD)

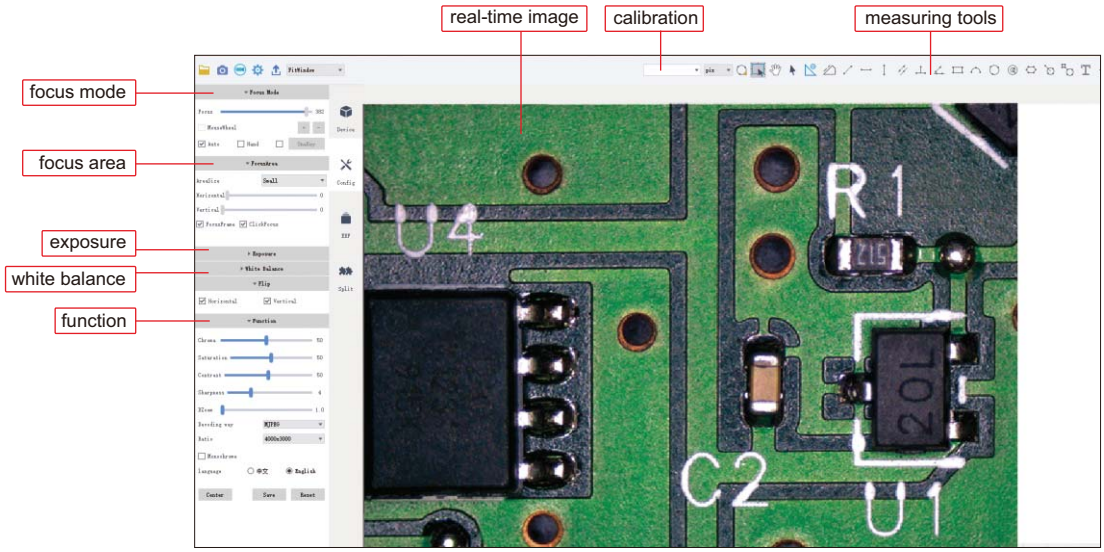
Objective magnification	Image magnification	Measuring accuracy
0.75X	15X	±20μm
1X	20X	±20μm
1.5X	30X	±20μm
2X	40X	±20μm
2.5X	50X	±20μm
3X	60X	±20μm
3.5X	70X	±20μm
4X	80X	±10μm
4.5X	90X	±10μm
5X	100X	±10μm

SOFTWARE FOR LCD (INCLUDED)





SOFTWARE FOR COMPUTER (INCLUDED)

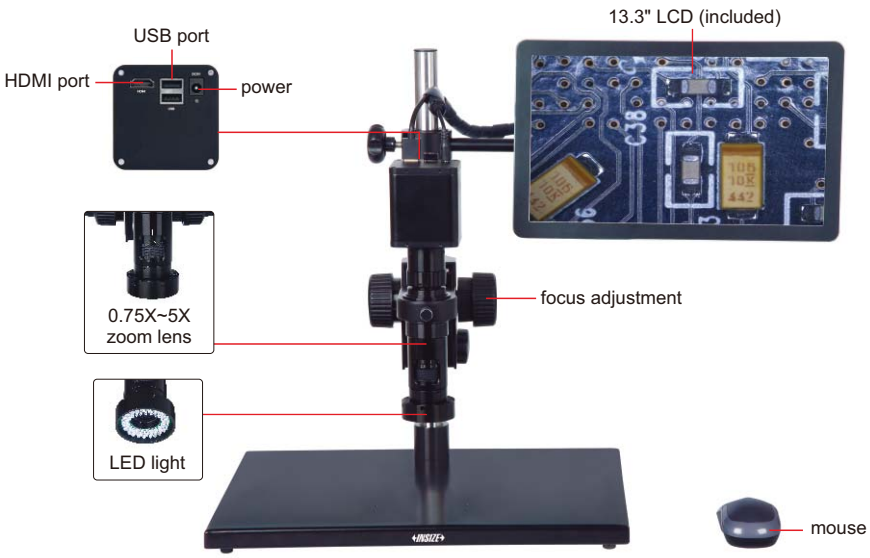


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AUTO FOCUS | TAKE PICTURES AND VIDEOS | MEASUREMENT

AUTO FOCUS DIGITAL MICROSCOPE
CODE 5303-AF103

VIDEO



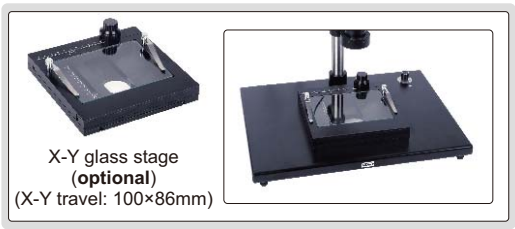

16G USB flash disk (included)

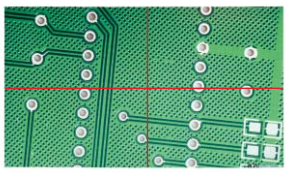

0.5X camera adapter (included)


1X auxiliary objective

1X auxiliary objective (included)

- 1080P high-definition image
- Auto focus camera
- Take pictures and videos, saved to USB flash disk
- Picture review, picture compare
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/ brown colors)
- Built-in software without computer, operation by mouse


X-Y glass stage (**optional**) (X-Y travel: 100×86mm)


display cross hair (blue/green/red/yellow/ black/brown colors)



1X camera adapter (**optional**)



2X auxiliary objective (**optional**)

SPECIFICATION

Magnification	20X~123X
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adpter	2 pcs

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	magnification	20~123X	40~246X
	focus distance	48~84mm	48~84mm
	view field	13×7~2.2×1mm	6.3×3.5~1.1×0.5mm
	measuring accuracy	±0.02mm	±0.02mm
2X (optional)	magnification	40~246X	80~492X
	focus distance	24~42mm	24~42mm
	view field	6.5×3.5~1.1×0.5mm	3.3×1.8~0.6×0.3mm
	measuring accuracy	±0.02mm	±0.02mm

AUTO FOCUS DISTANCE

Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance	48~84mm	50~78mm	55~73mm	62~71mm	65~70mm

Zoom objective scale	3X	3.5X	4X	4.5X	5X
Auto focus distance	66~70mm	67~70mm	68~70mm	68~70mm	68~70mm

OPTIONAL ACCESSORY

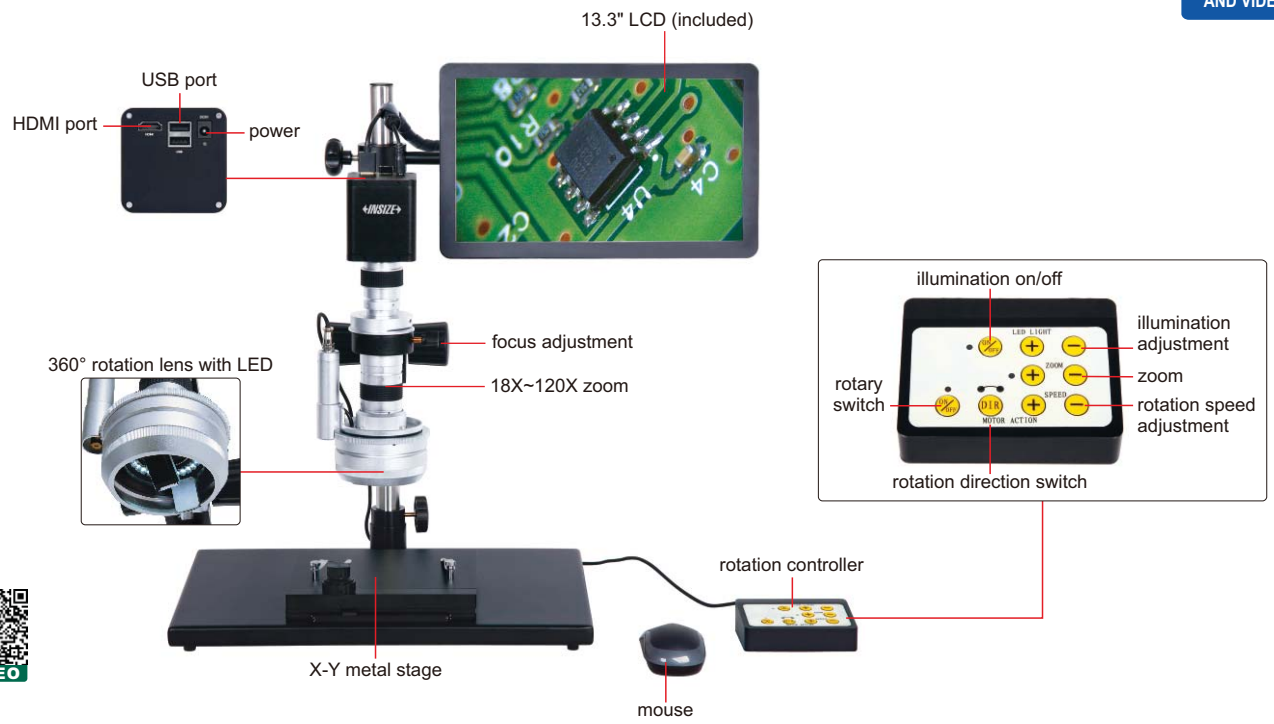
1X camera adapter	**ISM-DL-CA1X**
2X auxiliary objective	**ISM-DL-OB2X**
X-Y glass stage (travel: 100×86mm)	**ISM-DL-STAGE**
X-Y metal stage	**ISM-DL-STAGE1**
LED light	page 553~554
Auxiliary objective	page 555

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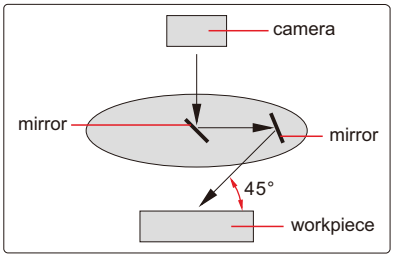
3D MOTORIZED ROTATION MICROSCOPE
CODE 5301-D400

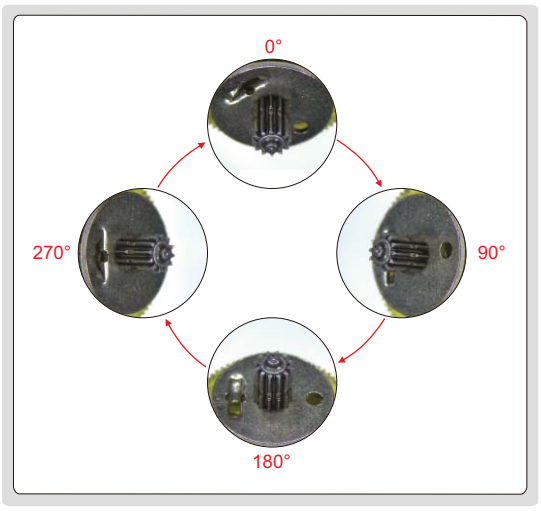
SUITABLE TO CHECK CONVEX OBJECTS AND WALL OF HOLE

TAKE PICTURES AND VIDEOS



VIDEO





360° rotation observation

- 1080P high-definition 3D image
- Take pictures and videos, save to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio and gain are adjustable

SPECIFICATION

Magnification	18X~120X
View field	2.4×1.5mm~16×9mm
Focus distance	20mm
View angle	45°
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Rotation speed	2~5RPM
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	570×300×430mm
Weight	10kg

STANDARD DELIVERY

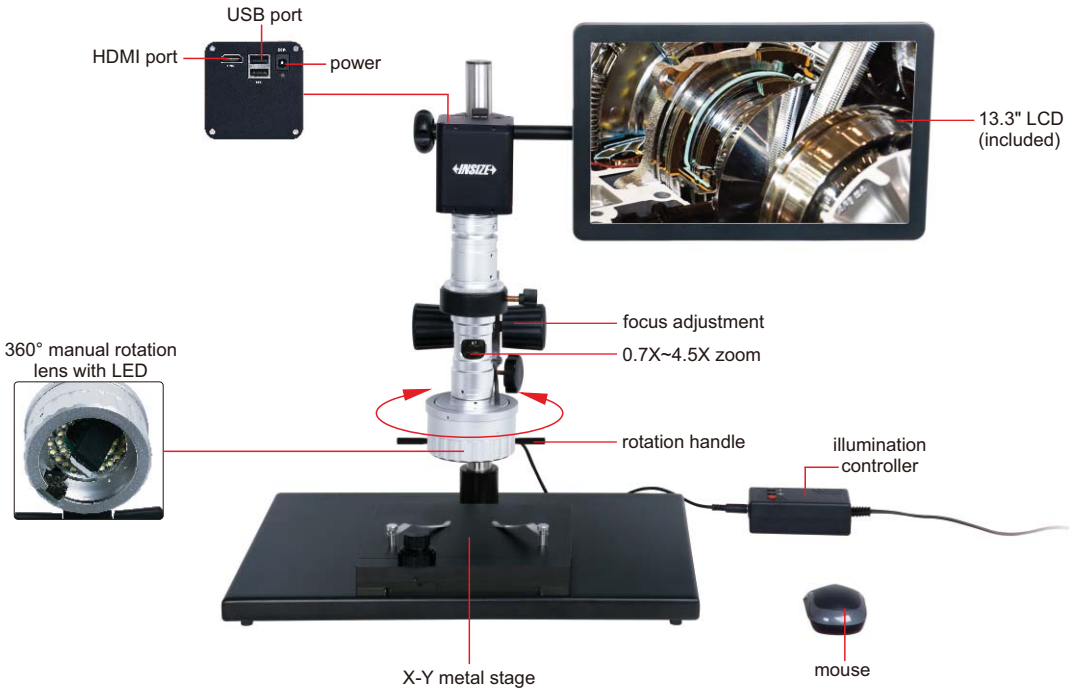
Main unit	1 pc
Rotation controller	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs

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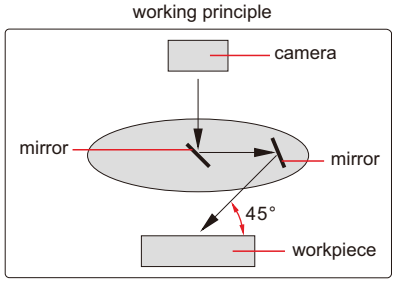
SUITABLE TO CHECK CONVEX OBJECTS AND WALL OF HOLES

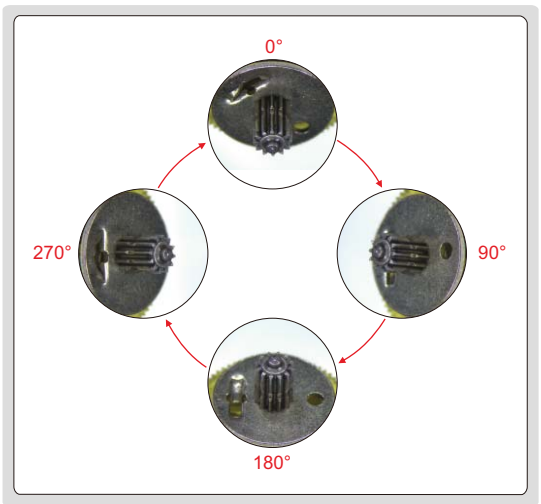
TAKE PICTURES AND VIDEOS

3D MANUAL ROTATION MICROSCOPE
CODE 5313-S407



working principle





360° rotation observation

SPECIFICATION

Magnification	18X~120X
View field	2.4×1.5mm~16×9mm
Focus distance	20mm
View angle	45°
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	220V, 50/60Hz
Dimension (L×W×H)	570×300×430mm
Weight	10kg

STANDARD DELIVERY

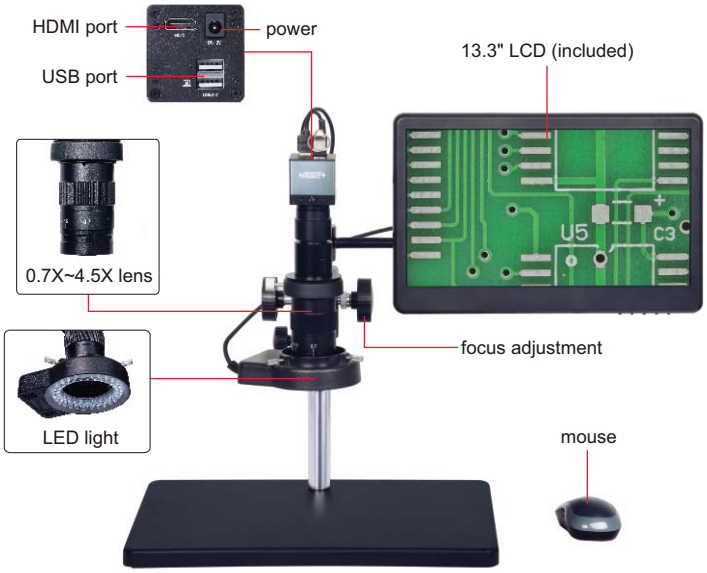
Main unit	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs

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DIGITAL MEASURING MICROSCOPE (BASIC TYPE)
CODE 5318-MD60

POPULAR MODEL

MEASUREMENT | TAKE PICTURES | BUILT-IN SOFTWARE WITHOUT COMPUTER



VIDEO

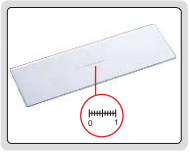
- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Brightness, contrast ratio, gain are adjustable

SPECIFICATION

Magnification	12.5X~80X
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Measuring accuracy	±0.02mm
Lines	cross lines, scale lines (number, color and position of lines are adjustable)
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	380×260×350mm
Weight	4.5kg


16G USB flash disk (included)


white/black plate (included)


glass calibration rule (graduation 0.1mm, included)

MAGNIFICATION AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter
		0.5X (included)
0.5X (optional)	magnification	6.2~40X
	view field	47×26~7.4×4mm
1X (included)	magnification	12.5~80X
	view field	23.5×13~3.7×2mm
2X (optional)	magnification	25~160X
	view field	11.8×6.5~1.8×1mm

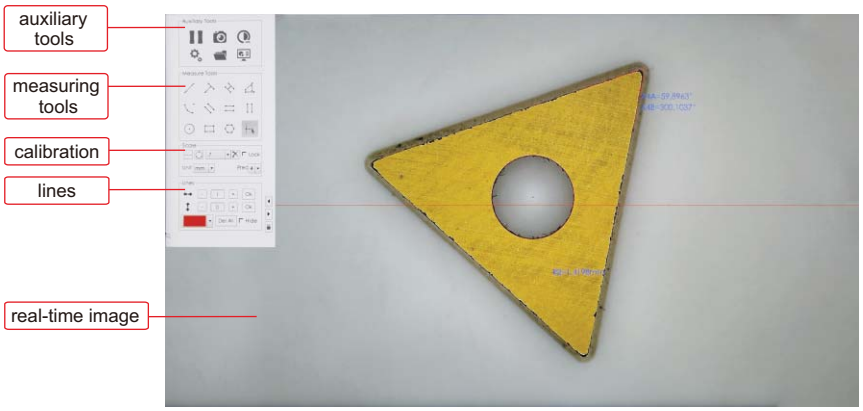
STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
White/black plate	1 pc
Glass calibration rule	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	3 pcs

OPTIONAL ACCESSORY

0.5X auxiliary objective	5318-OB05X
2X auxiliary objective	5318-OB2X

MEASURING SOFTWARE (INCLUDED)



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BUILT-IN SOFTWARE WITHOUT COMPUTER | MEASUREMENT | TAKE PICTURES

DIGITAL MEASURING MICROSCOPES

VIDEO



0.5X camera adapter (included)



1X auxiliary objective (included)


calibration plate (included)

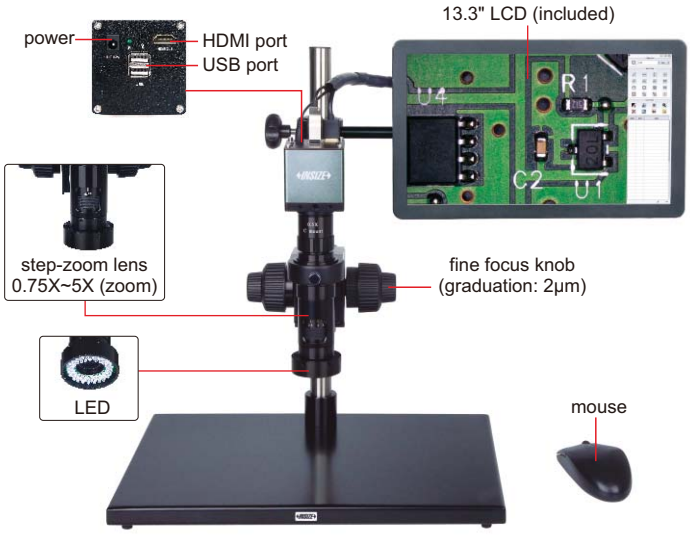

16G USB flash disk (included)



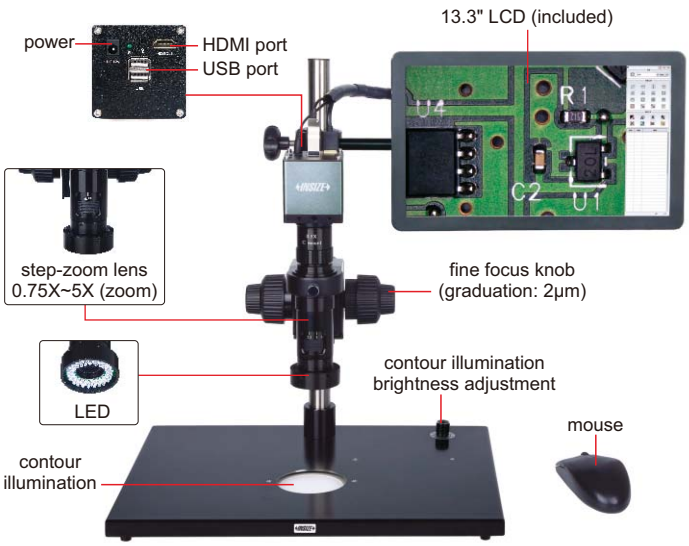
1X camera adapter (**optional**)



2X auxiliary objective (**optional**)



ISM-DL300 (without contour illumination)



ISM-DL301 (with contour illumination)

- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable

SPECIFICATION

Code	ISM-DL300 (without contour illumination)	ISM-DL301 (with contour illumination)
Magnification	15X~100X	
Sensor	1/2" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	60fps	
Output	HDMI	
Power supply	power adapter	
Dimension (L×W×H)	570×300×430mm	
Weight	6.5kg	

To be continued

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Continued from previous page

STANDARD DELIVERY

Code	ISM-DL300	ISM-DL301
Main unit	1 pc	1 pc
0.5X camera adapter	1 pc	1 pc
1X auxiliary objective	1 pc	1 pc
Calibration plate	1 pc	1 pc
16G USB flash disk	1 pc	1 pc
White/black plate	1 pc	1 pc
Mouse	1 pc	1 pc
HDMI cable	1 pc	1 pc
Power adapter	2 pcs	3 pcs

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 100×86mm)	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED light	page 553~554
Auxiliary objective	page 555

MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy*
0.75X	15X	±8μm
1X	20X	±7μm
1.5X	30X	±6μm
2X	40X	±6μm
2.5X	50X	±6μm
3X	60X	±5μm
3.5X	70X	±5μm
4X	80X	±4μm
4.5X	90X	±4μm
5X	100X	±4μm

* When measuring the contour of workpieces, please use **ISM-DL301** to ensure accuracy.



X-Y glass stage
(**optional**)
(X-Y travel: 100×86mm)

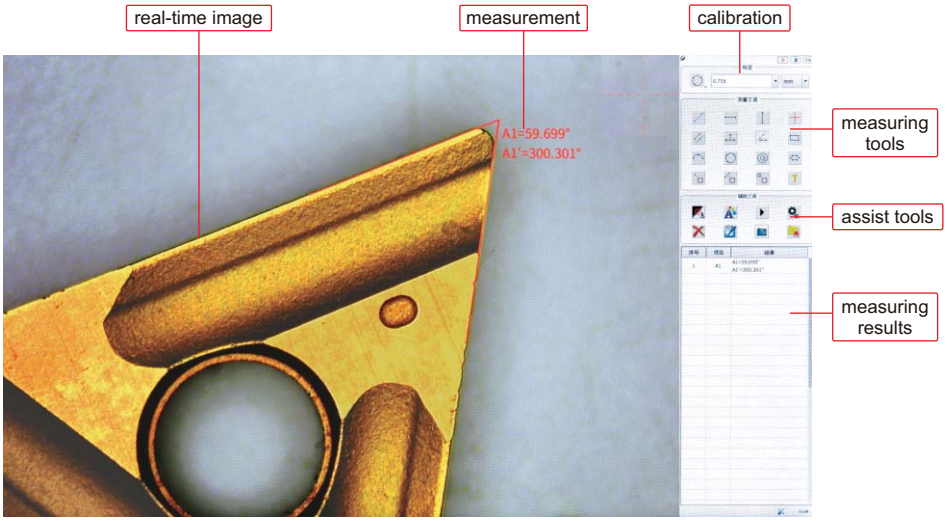


MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	magnification	15~100X	30~200X
	focus distance	70±2mm	70±2mm
	view filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
2X (optional)	magnification	30~200X	60~400X
	focus distance	29±2mm	29±2mm
	view filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

SOFTWARE (INCLUDED)

- Refer to page 550 for details



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OBSERVATION AND MEASURMENT AT HIGH MAGNIFICATION

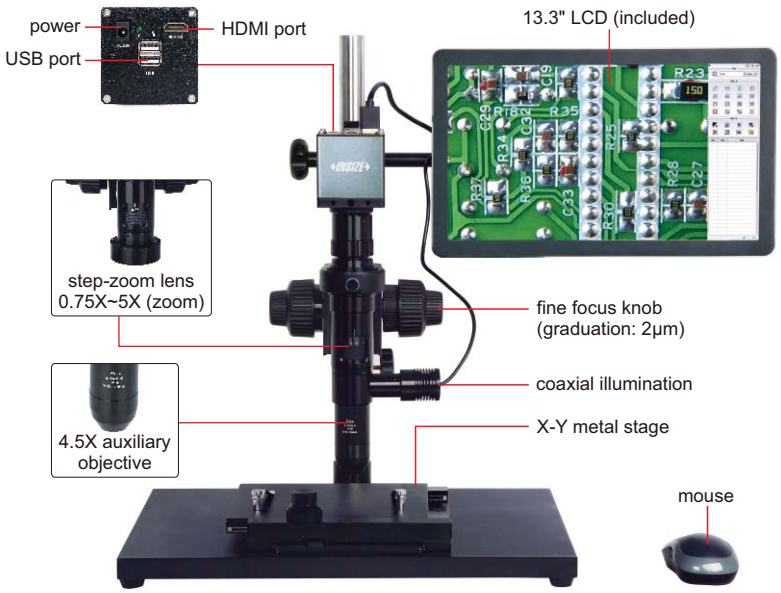
SOFTWARE IS INCLUDED, REFER TO PAGE 550 FOR DETAILS

HIGH MAGNIFICATION MEASURING MICROSCOPE
CODE ISM-DL302

VIDEO


calibration plate (included)


16G USB flash disk (included)




0.5X camera adapter (included)


1X camera adapter (**optional**)

- 1080P high-definition image
- Maximum 1000X optical magnification (using camera adapter 1X, optional)
- Built-in software without computer, operated by mouse
- Solid base and column to avoid lens shaking during focusing
- Software is included, refer to page 550 for details

SPECIFICATION

Magnification	78X~504X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	15kg

SATNDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
4.5X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
X-Y metal stage	1 pc

OPTIONAL ACCESSORY

1X camera adapter	**ISM-DL-CA1X**
LED light	page 553~554

MAGNIFICATION AND MEASURING ACCURACY

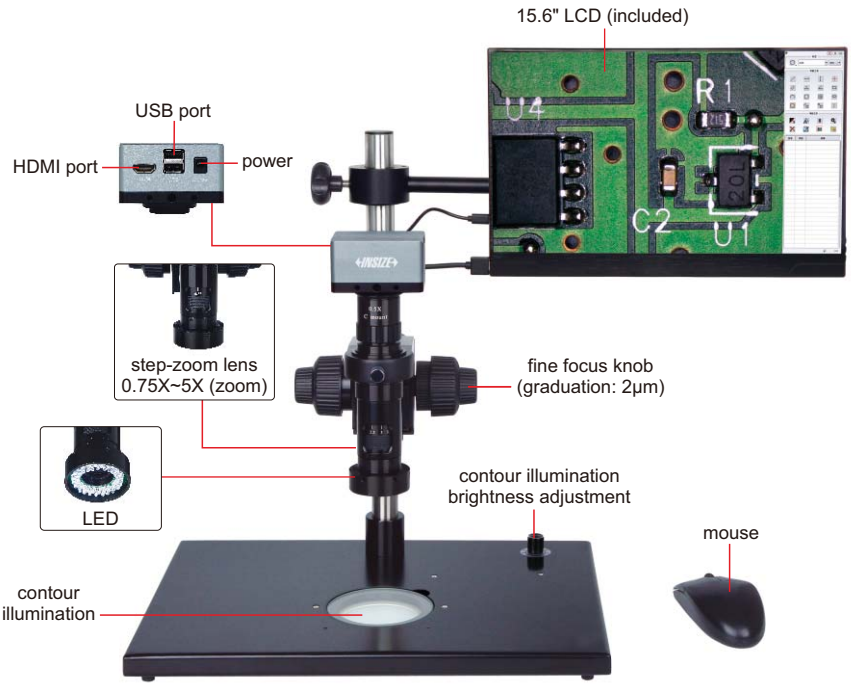
Objective magnification	Image magnification	Measuring accuracy
0.75X	78X	±5μm
1X	102X	±4μm
1.5X	153X	±4μm
2X	204X	±4μm
2.5X	255X	±4μm
3X	305X	±4μm
3.5X	356X	±4μm
4X	408X	±4μm
4.5X	458X	±4μm
5X	504X	±4μm

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Camera adapter	0.5X (included)	1X (**optional**)
Magnification	78~504X	156~1008X
Focus distance	14±2mm	14±2mm
View field	2.8×1.7~0.5×0.3mm	1.4×0.9~0.3×0.2mm

4K DIGITAL MEASURING MICROSCOPE
CODE 5310-DL401

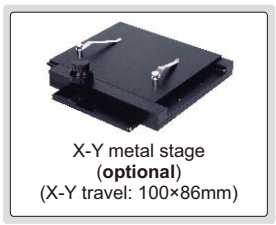
BUILT-IN SOFTWARE WITHOUT COMPUTER | TAKE PICTURES | MEASUREMENT



VIDEO



X-Y glass stage
(**optional**)
(X-Y travel: 100×86mm)



X-Y metal stage
(**optional**)
(X-Y travel: 100×86mm)



calibration plate
(included)



16G USB flash disk
(included)

24

- 4K high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable



0.5X camera adapter
(included)



1X auxiliary objective
(included)

SPECIFICATION

Magnification	17.6X~120X
Sensor	1/2.3" CMOS
Pixel	8M
Resolution	3840×2160
Frame rate	4K: 30fps, 1080P: 60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg



1X camera adapter
(**optional**)



2X auxiliary objective
(**optional**)

To be continued

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Continued from previous page

MAGNIFICATION, VIEW FIELD AND MEASURING ACCURACY

Objective magnification	Image magnification	View field	Measuring accuracy
0.75X	17.6X	19.5×11.5mm	±5μm
1X	23.7X	14.0×8.0mm	±5μm
1.5X	36.6X	9.0×5.0mm	±5μm
2X	49X	7.0×4.0mm	±5μm
2.5X	62X	5.5×3.0mm	±4μm
3X	73X	4.5×2.5mm	±4μm
3.5X	85X	4.0×2.2mm	±4μm
4X	97X	3.5×2.0mm	±3μm
4.5X	109X	3.0×1.8mm	±3μm
5X	120X	2.7×1.5mm	±3μm

STANDARD DELIVERY

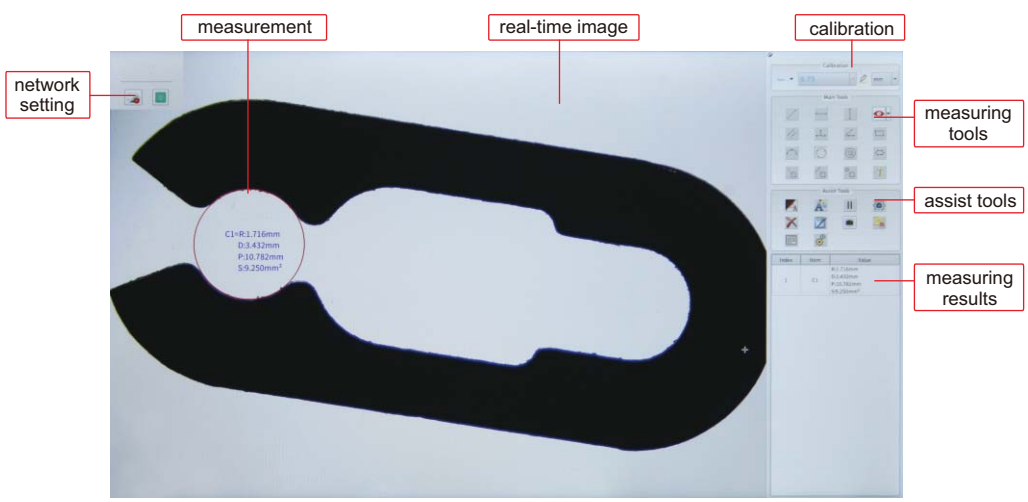
Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	3 pcs

OPTIONAL ACCESSORY

1X camera adapter	**ISM-DL-CA1X**
2X auxiliary objective	**ISM-DL-OB2X**
X-Y glass stage (travel: 100×86mm)	**ISM-DL-STAGE**
X-Y metal stage (travel: 100×86mm)	**ISM-DL-STAGE1**
LED light	page 553~554
Auxiliary objective	page 555

SOFTWARE (INCLUDED)

- Refer to page 550 for details

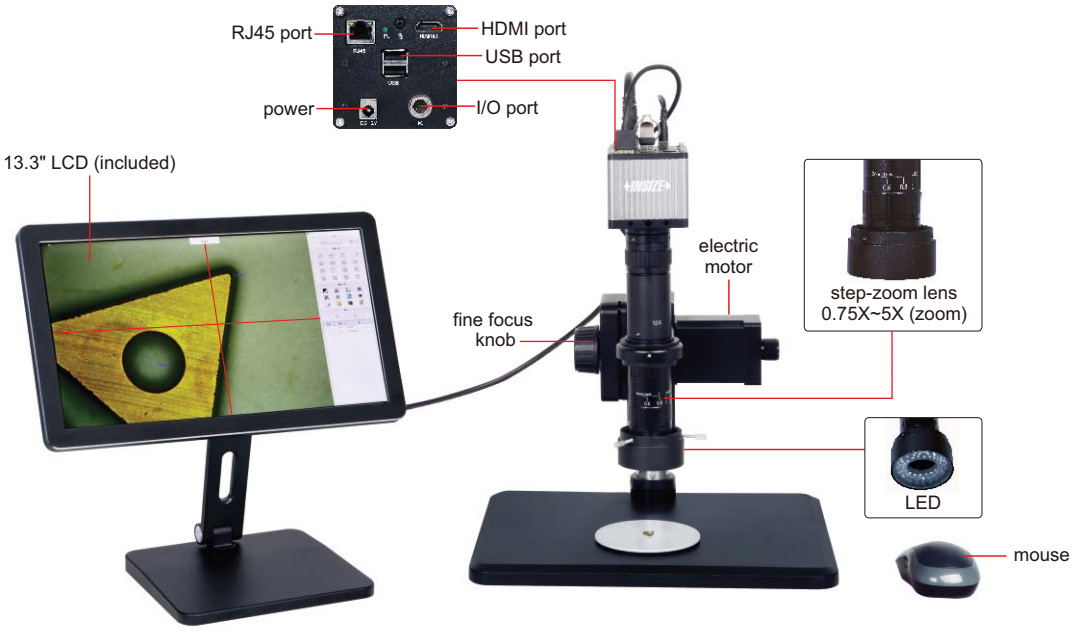


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MOTORIZED FOCUS STACKING MICROSCOPE (LARGE DEPTH OF VIEW)
CODE ISM-DL520

MOTORIZED FOCUS STACKING

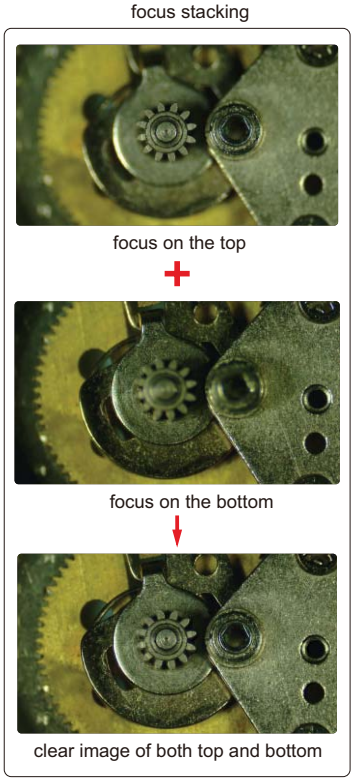
BUILT-IN SOFTWARE WITHOUT COMPUTER



VIDEO

- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Motorized focus stacking
- Send photos and measurement data via ethernet (TCP/IP)
- Name photos and measurement data files with serial number of workpieces read by scanner

focus stacking



SPECIFICATION

Magnification	24.5X~204.5X
View field	2.8×1.6~18×10mm
Focus distance	65mm
Sensor	1/1.2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	30fps
Output	RJ45
Power supply	power adapter
Dimension (L×W×H)	320×260×500mm
Weight	7kg

To be continued

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Continued from previous page



send measurement data and photos to computer



calibration plate
(included)



16G USB flash disk
(included)

STANDARD DELIVERY

Main unit	1 pc
1X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
LED ring light	1 pc
White/black plate	1 pc
Power adapter	3 pcs

MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy
0.6X	24.5X	±8μm
0.8X	32.7X	±7μm
1X	40.9X	±6μm
1.5X	61.3X	±6μm
2X	81.8X	±6μm
2.5X	102.2X	±5μm
3X	122.7X	±5μm
3.5X	143.1X	±4μm
4X	163.6X	±4μm
4.5X	184.0X	±4μm
5X	204.5X	±4μm





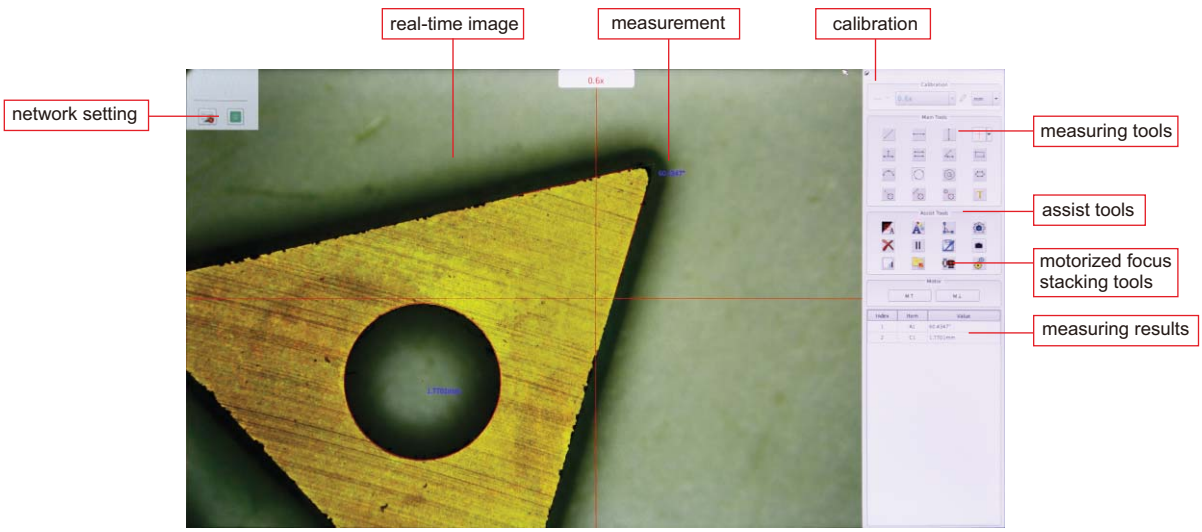
X-Y metal stage
(**optional**)
(X-Y travel: 100×86mm)

OPTIONAL ACCESSORY

X-Y metal stage (travel: 100×86mm)	ISM-DL-STAGE1

SOFTWARE (INCLUDED)

- Refer to page 550 for details

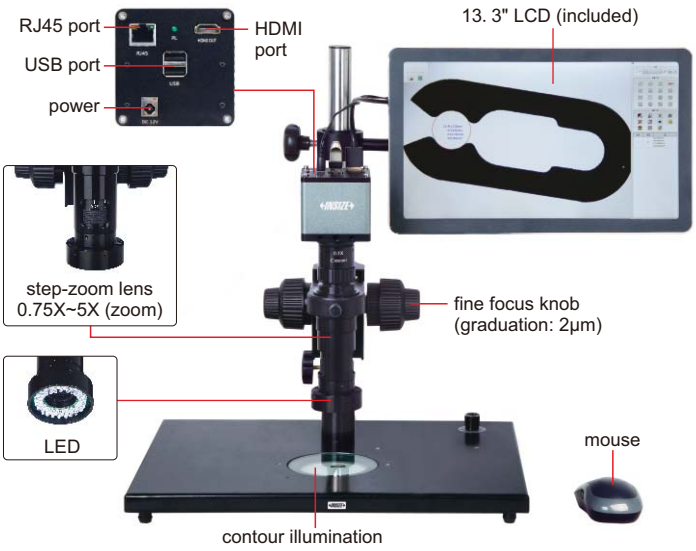


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MANUAL FOCUS STACKING MICROSCOPE (LARGE DEPTH OF VIEW)
CODE ISM-DL510

BUILT-IN SOFTWARE WITHOUT COMPUTER

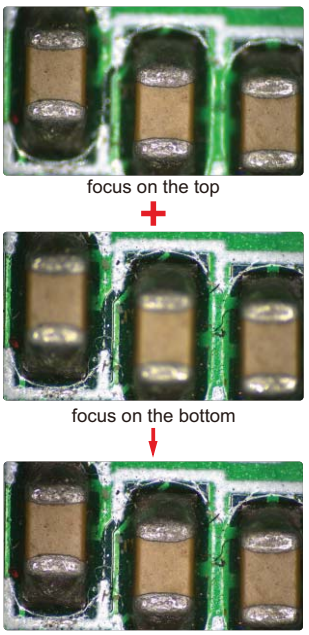
FOCUS STACKING

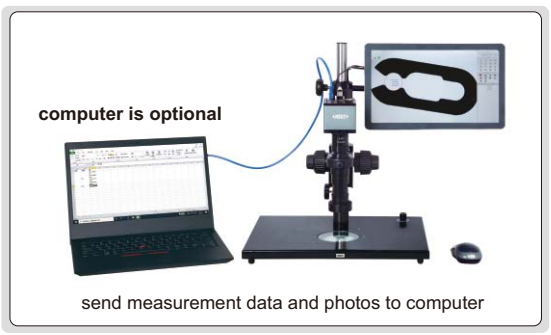


VIDEO

- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Focus stacking
- Send photos and measurement data via ethernet (TCP/IP)
- Name photos and measurement data files with serial number of workpieces read by scanner

focus stacking







1X auxiliary objective (included)



2X auxiliary objective (**optional**)

SPECIFICATION

Magnification	15X~100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm



0.5X camera adapter (included)



1X camera adapter (**optional**)

To be continued

Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	3 pcs

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 100×86mm)	ISM-DL-STAGE
Scanner and hub	7328-SCAN
LED light	page 553~554
Auxiliary objective	page 555

MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy
0.75X	15X	±8μm
1X	20X	±7μm
1.5X	30X	±6μm
2X	40X	±6μm
2.5X	50X	±6μm
3X	60X	±5μm
3.5X	70X	±5μm
4X	80X	±4μm
4.5X	90X	±4μm
5X	100X	±4μm



X-Y glass stage
(**optional**)
(X-Y travel: 100×86mm)

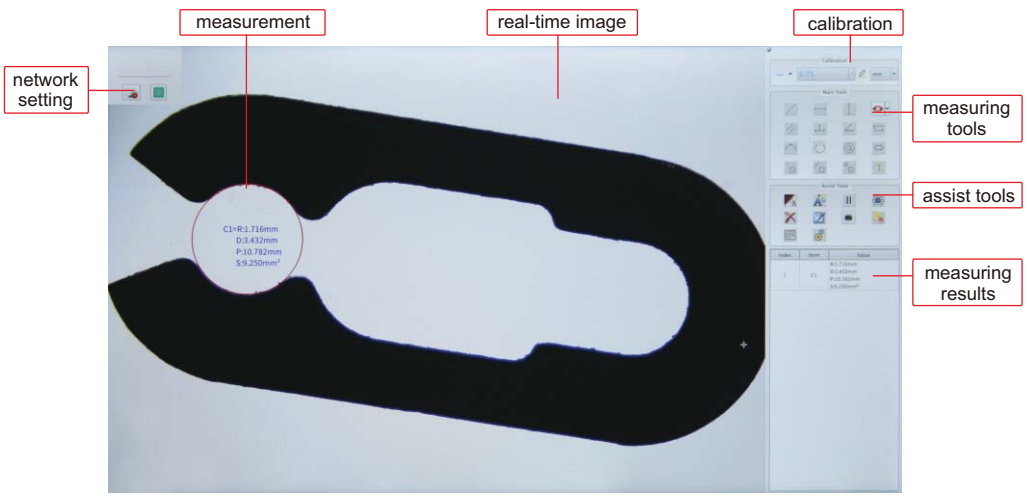


MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	magnification	15~100X	30~200X
	focus distance	70±2mm	70±2mm
	view filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
2X (optional)	magnification	30~200X	60~400X
	focus distance	29±2mm	29±2mm
	view filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

SOFTWARE (INCLUDED)

- Refer to page 550 for details

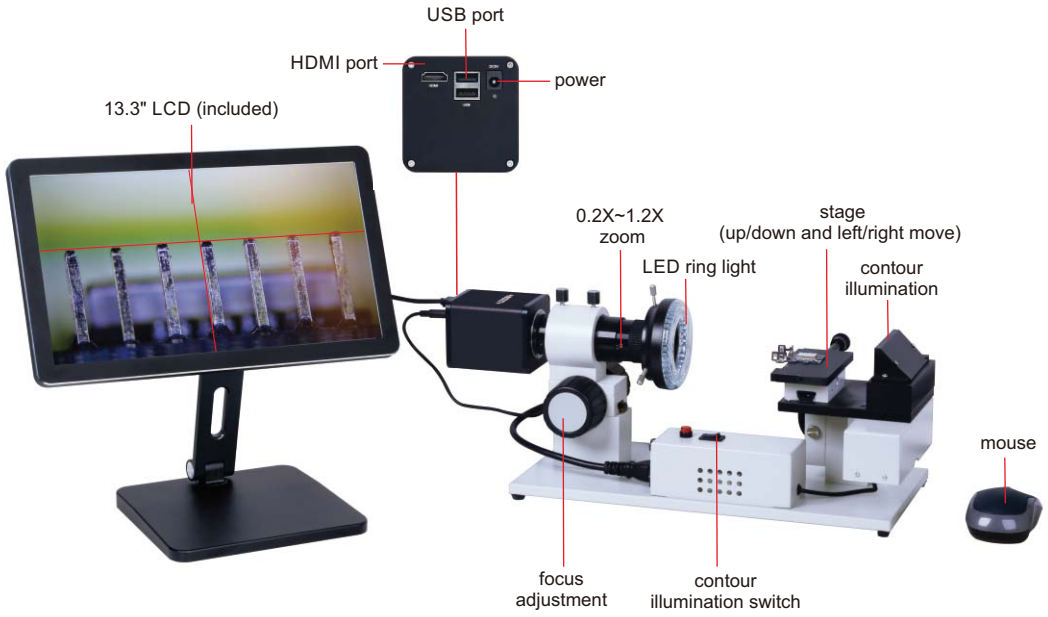


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HORIZONTAL MICROSCOPE
CODE 5316-HM810

BUILT-IN SOFTWARE WITHOUT COMPUTER

TAKE PICTURES



VIDEO

- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/brown colors)



plastic calibration rule (included, graduation 1mm)



16G USB flash disk (included)

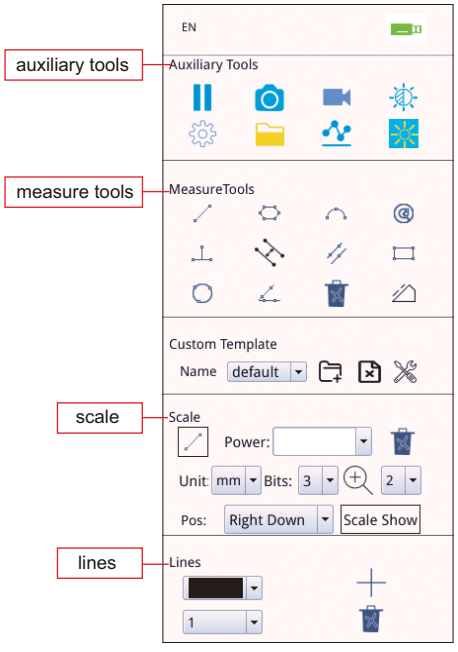
SPECIFICATION

Magnification	10.5X~62.5X
View field	4.5×2.5~28×12.3mm
Focus distance	115mm
Measuring accuracy	±0.02mm
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	1080P: 60fps/50fps
Output	HDMI
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	500×200×200mm
Weight	7kg

STANDARD DELIVERY

Main unit	1 pc
1X camera adapter	1 pc
1X auxiliary adapter	1 pc
Plastic calibration rule	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
LED ring light	1 pc

SOFTWARE (INCLUDED)

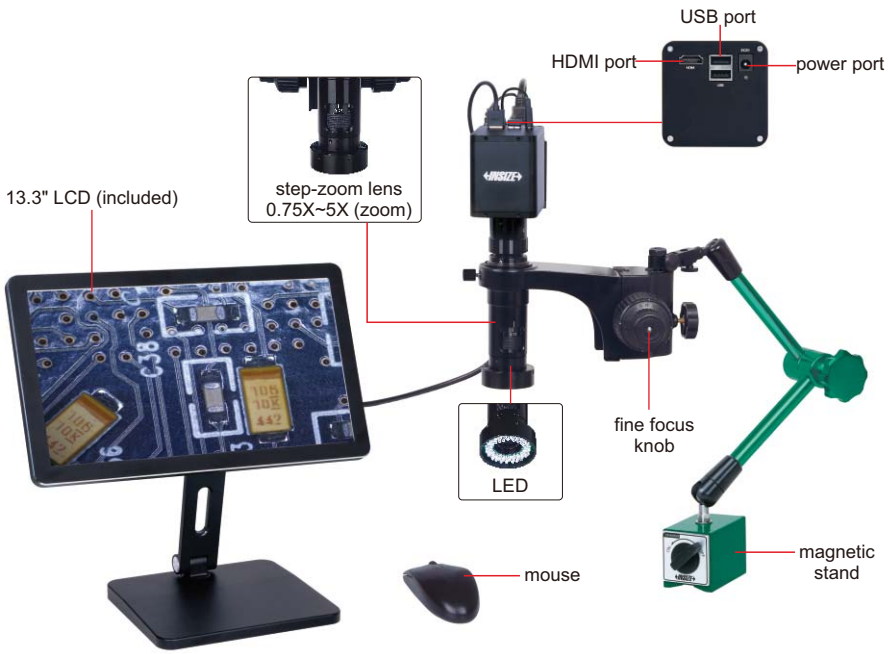


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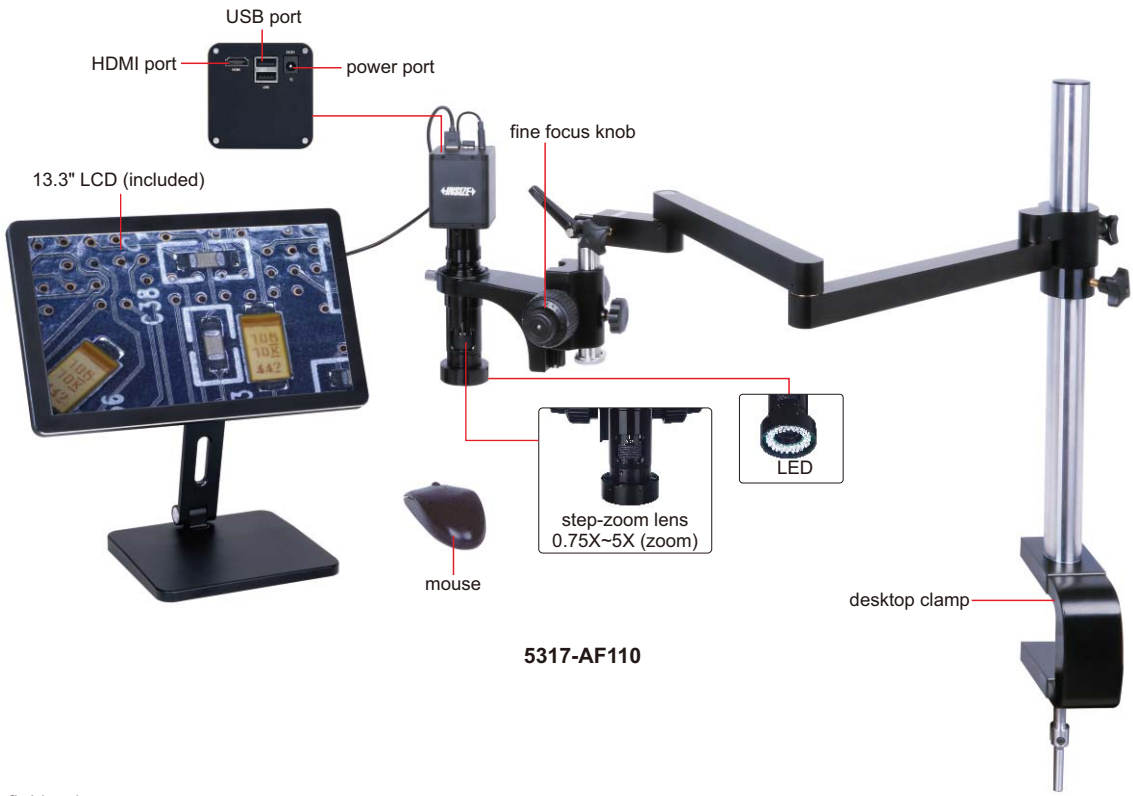
AUTO FOCUS | TAKE PICTURES AND VIDEOS | MEASUREMENT

VIDEO

FLEXIBLE ARM AUTO FOCUS DIGITAL MICROSCOPES

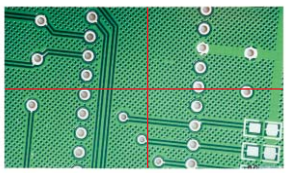


5317-AF109



5317-AF110

- 1080P high-definition image
- Auto focus camera
- Take pictures and videos, saved to USB flash disk
- Picture review, picture compare
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/brown colors)
- Built-in software without computer, operation by mouse
- Flexible arm



display cross hair
(blue/green/red/yellow/
black/brown colors)

To be continued

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Continued from previous page

SPECIFICATION

Code	5317-AF109 (with magnetic stand)	5317-AF110 (with desktop clamp)
Magnification	20X~123X	
Sensor	1/2.8" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	60fps	
Power supply	power adapter	
Dimension (height)	480mm	600mm
Weight	5.6kg	8.5kg



calibration plate (included)



16G USB flash disk (included)



0.5X camera adapter (included)



1X auxiliary objective (included)

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	magnification	20~123X	40~246X
	focus distance	48~84mm	48~84mm
	view field	13×7~2.2×1mm	6.3×3.5~1.1×0.5mm
	measuring accuracy	±0.02mm	±0.02mm
2X (optional)	magnification	40~246X	80~492X
	focus distance	24~42mm	24~42mm
	view field	6.5×3.5~1.1×0.5mm	3.3×1.8~0.6×0.3mm
	measuring accuracy	±0.02mm	±0.02mm

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adpter	2 pcs

AUTO FOCUS DISTANCE

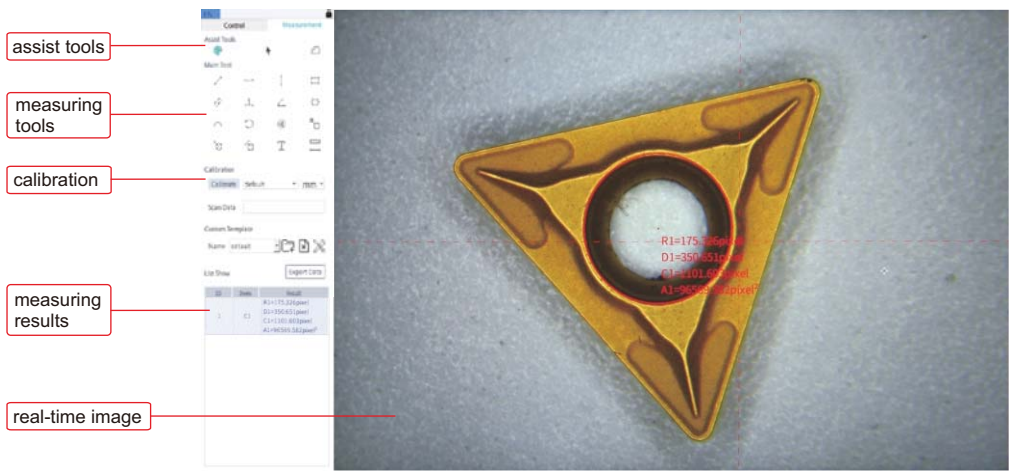
Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance	48~84mm	50~78mm	55~73mm	62~71mm	65~70mm

Zoom objective scale	3X	3.5X	4X	4.5X	5X
Auto focus distance	66~70mm	67~70mm	68~70mm	68~70mm	68~70mm

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
Auxiliary objective	page 555

MEASURING SOFTWARE (INCLUDED)



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ELECTRONIC MAGNIFICATION FEEDBACK LENS

BUILT-IN SOFTWARE WITHOUT COMPUTER

DIGITAL MEASURING MICROSCOPE CODE 5307-ID100A

VIDEO

- Electronic magnification feedback lens: when the objective lens magnification is changed manually, the software automatically selects the corresponding pre-calibration data and calibration is not needed
- Two methods of LED brightness adjustment, knob adjustment and software adjustment
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measuring results can be sent to Excel



SPECIFICATION

Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Magnification	12~77X
Focus distance	100mm
View field	2.7×1.9~17.5×11.9mm
Max workpiece height	60mm
Frame rate	60fps
Output	USB/HDMI
Power supply	power adapter
Dimension (L×W×H)	610×610×660mm
Weight	4.5kg

MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Magnification	Measuring accuracy
0.7X	12X	±9μm
1X	17X	±9μm
1.5X	26X	±8μm
2X	35X	±7μm
2.5X	43X	±7μm
3X	51X	±7μm
3.5X	60X	±6μm
4X	68X	±6μm
4.5X	77X	±5μm

STANDARD DELIVERY

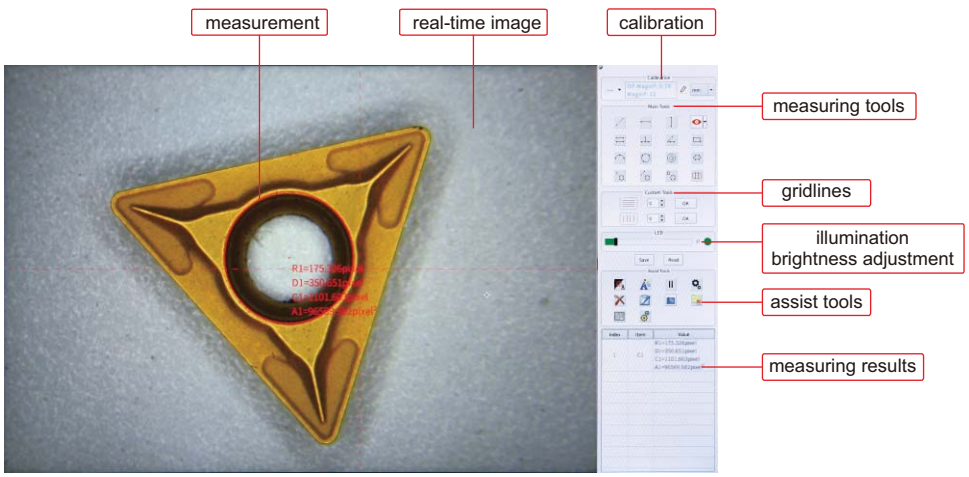
Main unit	1 pc
Calibration plate	1 pc
Power adapter	1 pc
Mouse	1 pc
16G USB flash disk	1 pc

OPTIONAL ACCESSORY

0.5X auxiliary objective	5307-ID100A-OB05X
0.75X auxiliary objective	5307-ID100A-OB075X
2X auxiliary objective	5307-ID100A-OB2X

SOFTWARE (INCLUDED)

- Refer to page 550 for details



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AUTO FOCUS DIGITAL MICROSCOPE
CODE 5319-AF290

NO CALIBRATION AFTER ZOOM | AUTO FOCUS | TAKE PICTURES AND VIDEOS | MEASUREMENT

MOTORIZED LIGHT CONTROL | MOTORIZED ZOOM



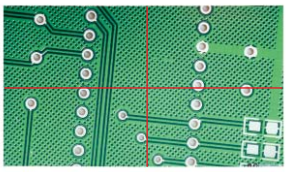
VIDEO



16G USB flash disk (included)



calibration plate (included)



display cross hair and gridline (blue/green/red/yellow/ black/white colors)

- Auto focus camera
- Take pictures and videos
- Built-in measuring software
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display actual magnification
- Digital magnification
- Shortcut keyboard operation
- Display cross hair and gridline (blue/green/red/ yellow/black/white colors)



shortcut keyboard (inclued)

Shortcut keyboard fuction

- Take picture: take a picture and save it
- Video: record a video
- Freeze: the image can be frozen
- Manual focus-: reduce the manual focus value
- Manual focus+: increase the manual focus value
- Zoom+: increase the magnification
- Zoom-: reduce the magnification
- AF/MF: switch to auto focus or manual focus
- FBL: center the camera motor
- Mirror: image horizontal flipover
- Flip: image vertical flipover
- Focus: achieve one-key focus
- Zoom 1, 2, 3, 4: save the current magnification
- Brightness+: increase the brightness of the light
- Brightness-: reduce the brightness of the light

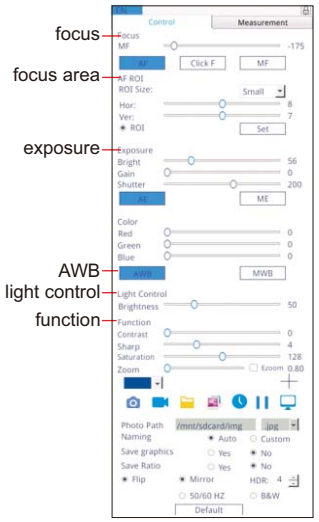
SPECIFICATION

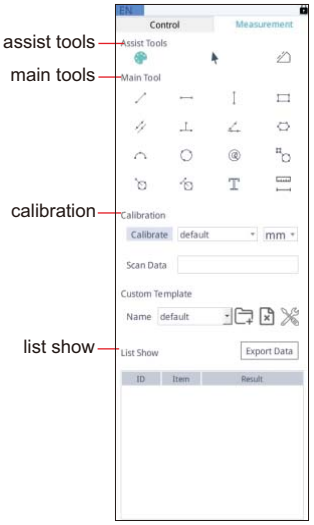
Magnification	27.4X~163X
Sensor	1/2.8" CMOS
Pixel	2M
Measuring accuracy	±0.02mm
Resolution	1920×1080
Frame rate	50/60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	600×280×390mm
Weight	6.5kg

STANDARD DELIVERY

Main unit (with stand)	1 pc
21.5" LCD	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Calibration plate	1 pc
White/black plate	1 pc
Shortcut keyboard	1 pc
Power adpter	2 pcs

SOFTWARE (INCLUDED)





FOCUS DISTANCE AND VIEW FIELD

Optical magnification*	0.8X	1X	2X	3X	4X	4.76X
Focus distance	88~133mm	88~133mm	98~123mm	103~115mm	108~111mm	108~111mm
View field (mm)	19.4×11~15.8×8.8	15×8.3~12.7×7.2	7.1×4~6.7×3.8	4.8×2.7~4.5×2.5	3.6×2~3.3×1.8	3×1.7~2.8×1.6

* The optical zoom lens can be arbitrarily zoomed between 0.8X and 4.76X

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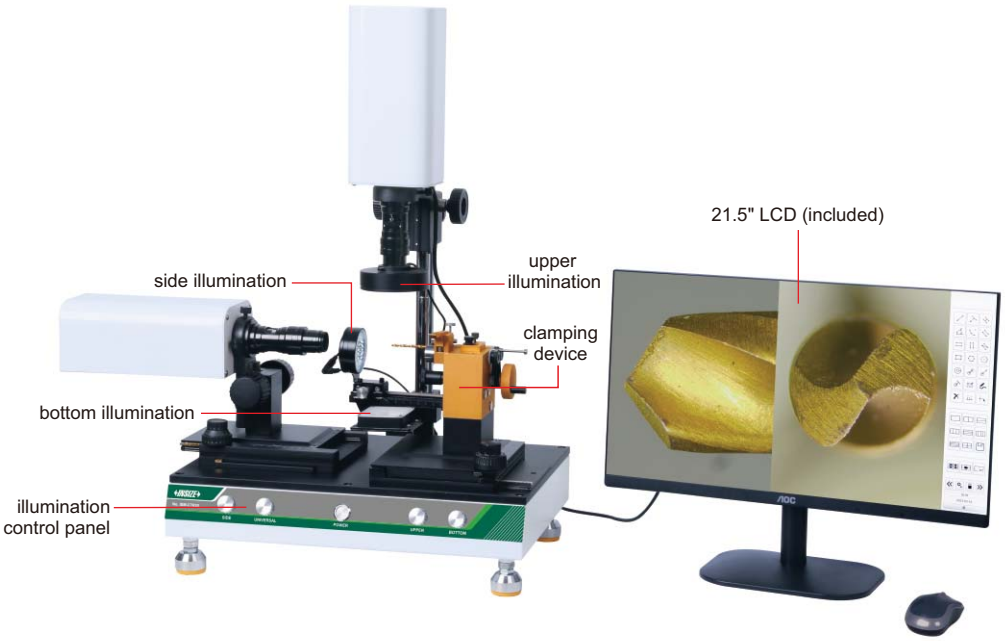
BUILT-IN SOFTWARE WITHOUT COMPUTER

SPLIT SCREEN DESIGN

TAKE PICTURES AND VIDEOS

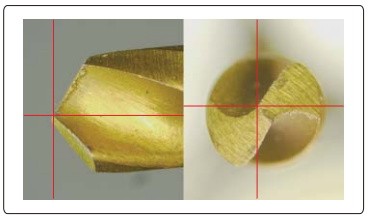
CUTTING TOOLS MICROSCOPE
CODE ISM-CT820

VIDEO





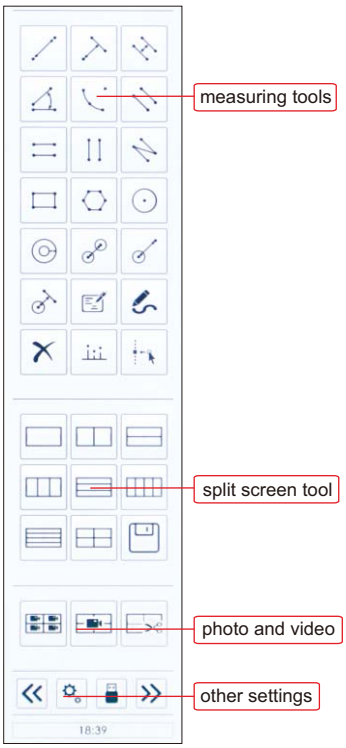
glass calibration plate (included)



display cross hairs separately (movable)

- Split screen design, zoom in and out independently
- One mouse can operate two cameras
- Display cross hairs
- Brightness, contrast ratio, white balance are adjustable
- Basic measuring tools including point to point, point to line, line to line, angle, three-point circle, etc.

SOFTWARE (INCLUDED)



screen display



single screen display



single screen display



split screen display

SPECIFICATION

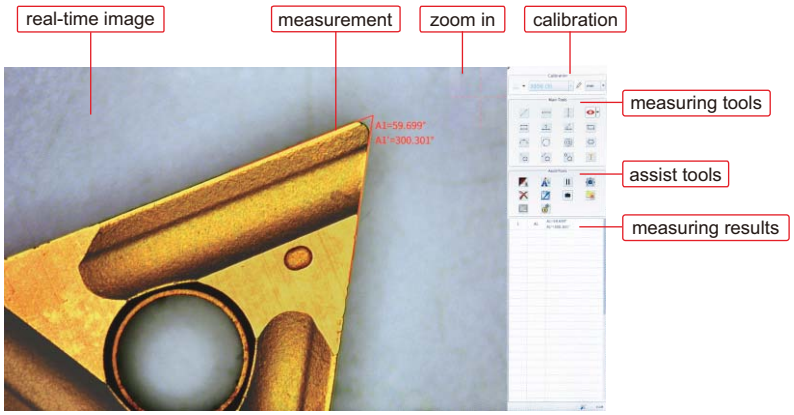
Cutting tools range	Ø3~10mm, length 30-75mm
Lens	step-zoom lens
Output	HDMI
Resolution	1920×1080
Frame rate	60fps
Focus distance	85mm
View field	0.9×1.5~5.5×10mm
Magnification	45-290X
Power supply	AC 100-240V
Dimension (L×W×H)	450×300×700mm
Weight	20kg

STANDARD DELIVERY

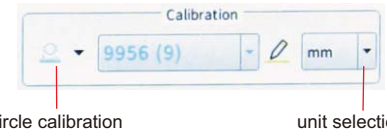
Main unit	1 pc
Display	1 pc
32G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Glass calibration plate	1 pc
Anti-dust cover	1 pc

MEASURING SOFTWARE OF DIGITAL MICROSCOPES

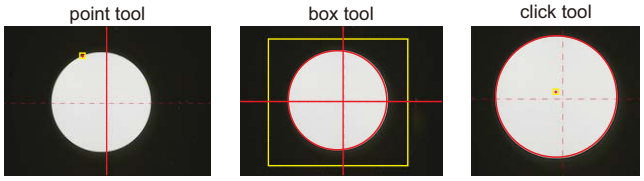
SOFTWARE CAN BE CUSTOMIZED



- **Included in digital microscopes (ISM-DL300, ISM-DL301, 5310-DL401, ISM-DL302, ISM-DL510, ISM-DL520, 5307-ID100A)**
- **Language:** Simplified Chinese, Traditional Chinese, English, Korean
- **Calibration:**



- **Edge-detection:**



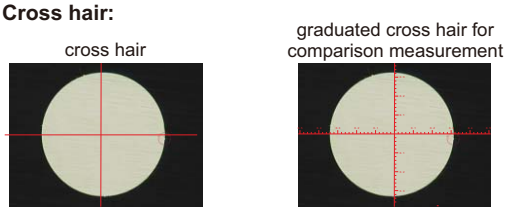
- **Measurement tools:**

measure length of line or distance between two points	measure length of line or distance between two points in horizontal direction	measure length of line or distance between two points in vertical direction
measure angle from horizontal line	measure angle from vertical line	measure angle of two lines
measure distance between two parallel lines	measure distance between two parallel lines	measure distance between multiple parallel lines
measure distance between point and line	measure radius, length and angle of arc	measure girth and area of polygon
measure radius, diameter, girth and area of circle with three points	measure radius, diameter, girth and area concentric of circles	measure length, width, girth and area of rectangle
measure minimum distance between point and circle	measure distance between point and center of circle	measure maximum distance between point and circle
measure minimum distance between line and circle	measure distance between line and center of circle	measure maximum distance between line and circle
measure minimum distance between two circles	measure center distance between two circles	measure maximum distance between two circles
add text	measure radius, diameter, girth and area of circle with two points	cross hair and graduated cross hair

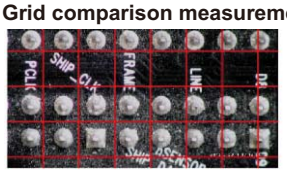
- **Assist tools:**

manual/automatic point selection	delete images
line width and color settings	export measurement data to U disk
freeze screen	take pictures and save
camera parameter settings	review pictures
layout settings of measurement items	system settings

- **Cross hair:**

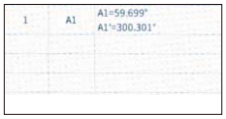


- **Grid comparison measurement:**



full-screen grid for comparison measurement, adjustable grid number

- **Output to Excel:**



- **Comparison:**

set the standard workpiece as the background image, superimpose the measured workpieces on the image for quick comparison

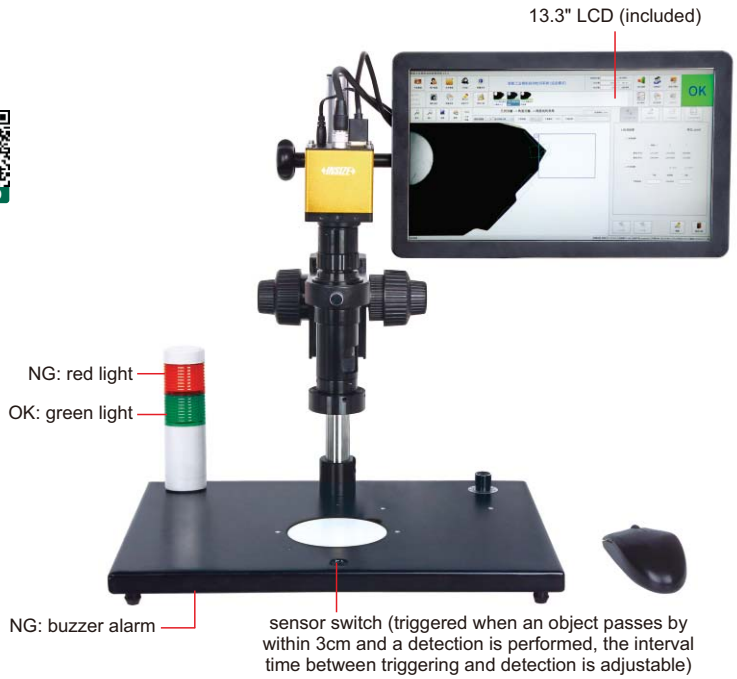
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AUTOMATICALLY LOCATE WORKPIECES REGARDLESS OF POSITION AND DIRECTION

BUILT-IN SOFTWARE WITHOUT COMPUTER

SMART MICROSCOPE CODE ISM-DL400

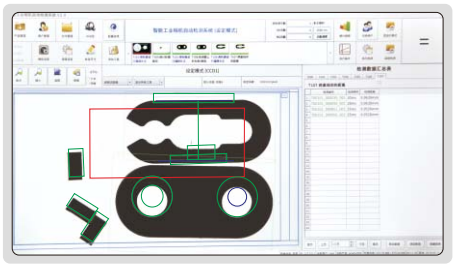
VIDEO



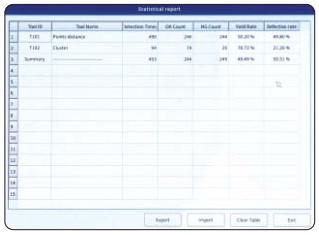
camera function

- surface defect detection
- dimension measurement
- read barcode
- burr detection
- contour matching
- character recognition
- color detection
- read QR code
- object counting
- thread measurment

detect different workpieces at one time



- Automatically identify different workpieces
- Automatically locate workpieces regardless of position and direction
- Built-in software, PLC control input and output interface
- Including multiple detection tools
- Automatically calculate, store the test results and sent to Excel



report showing the perform times of each tool, quantity of OK and NG, the report can be saved



report of each detection is automatically created and saved

SPECIFICATION

Magnification	15X~100X
Resolution	1920×1080
Pixel	2M
Single pixel size	3.75×3.75μm
Frame rate	60fps
Sensor	1/2" CMOS
Chip structure	FPGA+ARM
Operation system	Linux 3.10
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
HDMI cable	1 pc
Power adapter	3 pcs

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	magnification	15~100X	30~200X
	focus distance	70±2mm	70±2mm
	view filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
2X (optional)	magnification	30~200X	60~400X
	focus distance	29±2mm	29±2mm
	view filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
LED light	page 553~554
Auxiliary objective	page 555

To be continued

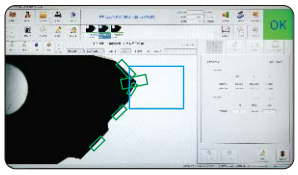
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Continued from previous page

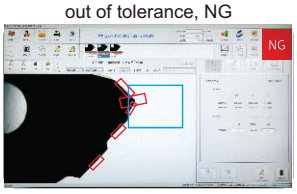
▪ APPLICATION EXAMPLES:

dimension measurement

OK



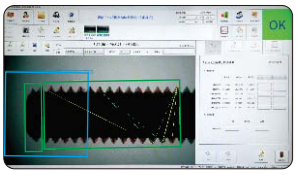
out of tolerance, NG



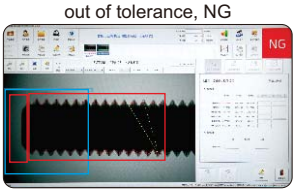
automatically locate and measure, and judge OK or NG

thread measurement

OK



out of tolerance, NG



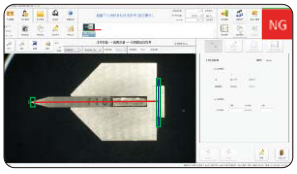
automatically measure major diameter, minor diameter, thread angle, pitch of thread, and judge OK or NG

cutting tools measurement

OK



length is too short, NG



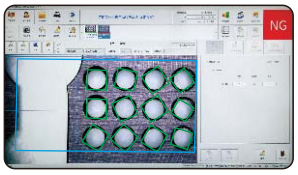
measure length and angle

counting

15 pcs holes, OK



12 pcs holes, NG



automatically locate and count, and judge OK or NG

existence or absence

existence, OK



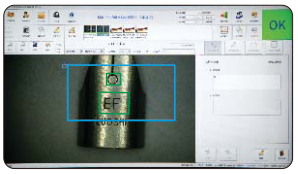
absence, NG



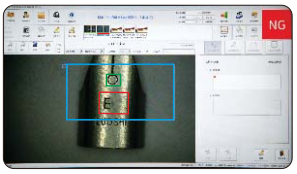
automatically detect the existence or absence of the target

character recognition

character is “EF”, OK



character is “E”, NG



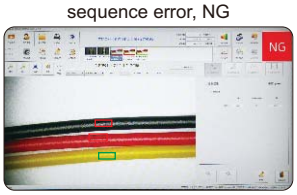
automatically detect letters or numbers in the area, and judge OK or NG

color detection

OK



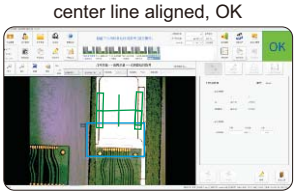
sequence error, NG



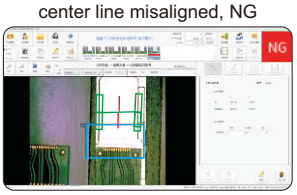
automatically detect colors, and judge OK or NG

location detection

center line aligned, OK



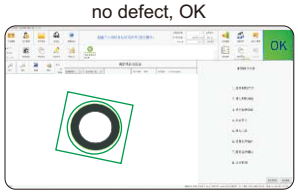
center line misaligned, NG



automatically detect whether the center line is aligned or not

surface defect detection

no defect, OK



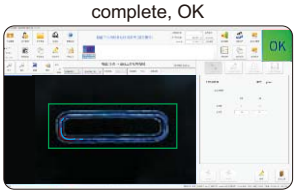
defect, NG



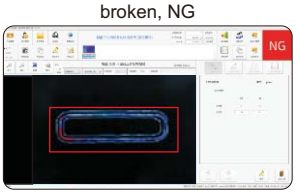
detect missing and burr on the edge of circle, and judge OK or NG

glue detection

complete, OK



broken, NG

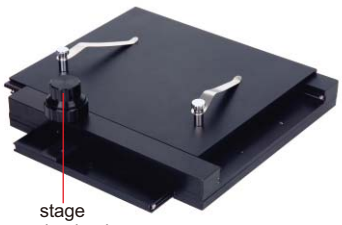


automatically detect if there is break of glue, measure width, and judge OK or NG

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X-Y METAL STAGE
CODE ISM-DL-STAGE1

- Suitable for digital microscopes **5315-S710, 5301-D400, 5313-S407, 5310-DL401, 5303-AF103, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL520**





SPECIFICATION

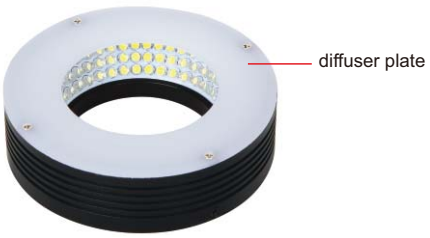
X-Y travel range	100×86mm
Dimension (L×W×H)	180×180×50mm
Weight	2.3kg

RED, GREEN, BLUE, INFRARED AND UV LIGHT CAN BE CUSTOMIZED

ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER

LED RING LIGHT
CODE ISM-LED-9245R

- Diffuser plate is included to reduce the reflective effect on workpieces
- Suitable for digital microscopes **5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710**



SPECIFICATION

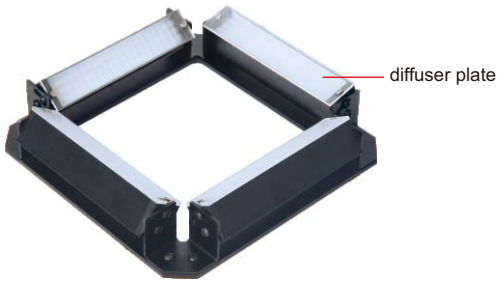
Light color	white
Power supply	24V
Power	5.5W
Angle	45°
Outside/inside diameter	92/52mm

RED, GREEN, BLUE, INFRARED AND UV LIGHT CAN BE CUSTOMIZED

ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER

LED SQUARE LIGHT
CODE ISM-LED-100L4

- Diffuser plate is included to reduce the reflective effect on workpieces
- Angle and brightness can be adjusted independently
- Suitable for digital microscopes **5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710**

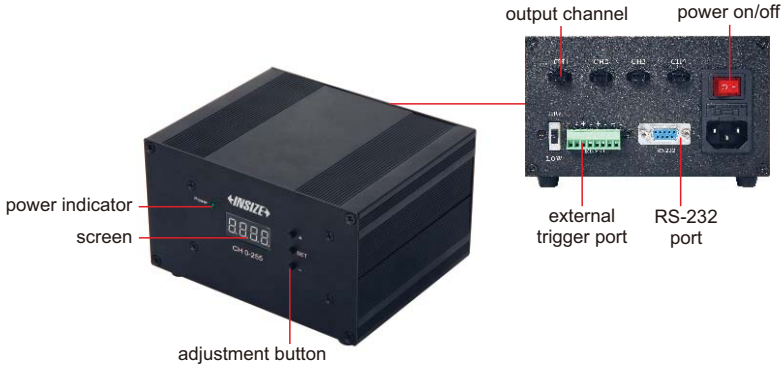


SPECIFICATION

Light color	white
Power supply	24V
Power	10.36W
Angle	0~90°
Dimension (L×W×H)	154×154×30mm

DIGITAL LIGHT CONTROLLER
CODE ISM-LED-CTRL

- 256 (0-255) steps of brightness adjustment
- With power off memory function and short circuit protection function
- Suitable for **ISM-LED-100L4, ISM-LED-9245R**

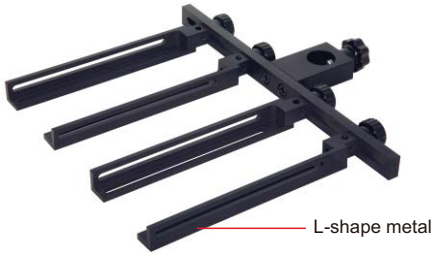


SPECIFICATION

Power supply	100~240V, 50/60HZ
Output power (rated)	60W
Output voltage (rated)	24V
Dimension (L×W×H)	145×118×83mm

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BRACKET FOR LIGHTS
CODE ISM-LED-BRACKET



application



- 4 pcs L-shape bars are included, multiple combinations can be realized
- Suitable for **ISM-LED-100L4, ISM-LED-9245R**

SPECIFICATION

Size (L×W×H)	260×300×20mm
Weight	0.7kg

DUAL HEAD LED LIGHT
CODE ISM-ZS-LED

- Adjustable illumination
- For digital and stereo microscopes



application



SPECIFICATION

Power	3W
Power supply	100~240V
Working	10000h
Illumination	10000lux

LED AUXILIARY LIGHT
CODE ISM-DL-LED

- Suitable for digital microscopes **5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710**





illumination direction and brightness are adjustable

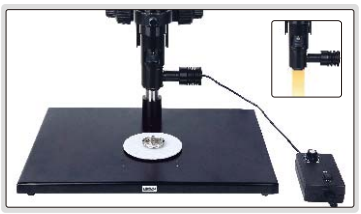
SPECIFICATION

Power	8W
Diameter of mounting hole	Ø25mm
Power supply	10~12V, 0~300mA

COAXIAL LIGHT
CODE ISM-DL-COAXIAL

- Suitable for digital microscopes **5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710**





for smooth surfaces and small holes, brightness is adjustable

SPECIFICATION

Power	1W
Power supply	0~3.4V, 0~400mA

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AUXILIARY OBJECTIVES



0.3X auxiliary objective* ISM-DL-OB03X



0.5X auxiliary objective* ISM-DL-OB05X



0.75X auxiliary objective* ISM-DL-OB075X



1X auxiliary objective ISM-DL-OB1X



1.5X auxiliary objective ISM-DL-OB1D5X



2X auxiliary objective ISM-DL-OB2X

- Suitable for digital microscopes **5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710, 5317-AF109, 5317-AF110**

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (5303-AF103)

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
0.3X (optional)	magnification	6~37X	12~74X
	focus distance	120~310mm	120~310mm
	view field	52×30~8×5mm	26×15~4×2.5mm
0.5X (optional)	magnification	10~61X	20~123X
	focus distance	78~230mm	78~230mm
	view field	37×20~5×3mm	18×10~2.5×1.5mm
0.75X (optional)	magnification	15~92X	30~184X
	focus distance	60~125mm	60~125mm
	view field	21×13~3.4×2mm	10×6.5~1.7×1mm
1X (included)	magnification	20~123X	40~246X
	focus distance	48~84mm	48~84mm
	view field	15×8~2.5×1.5mm	7.5×4~1.3×0.7mm
1.5X (optional)	magnification	30~184X	60~368X
	focus distance	36~63mm	36~63mm
	view field	10×6~1.7×1mm	5×3~0.9×0.5mm
2X (optional)	magnification	40~246X	80~492X
	focus distance	24~42mm	24~42mm
	view field	7.5×4~1.3×0.7mm	3.8×2~0.7×0.4mm

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (ISM-DL300, ISM-DL301, ISM-DL510)

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
0.3X (optional)	magnification	5~34X	10~68X
	focus distance	287±2mm	287±2mm
	view field	42×26~6.5×4.5mm	21×13~3.3×2.3mm
0.5X (optional)	magnification	9~56X	18~112X
	focus distance	166±2mm	166±2mm
	view field	25.6×16.8~5×3.5mm	12.8×8.4~2×1.3mm
0.75X (optional)	magnification	13~84X	26~168X
	focus distance	105±2mm	105±2mm
	view field	17×10.5~2.6×1.7mm	8.5×5.3~1.3×0.9mm
1X (included)	magnification	15~100X	30~200X
	focus distance	70±2mm	70±2mm
	view field	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
1.5X (optional)	magnification	26~168X	52~336X
	focus distance	42±2mm	42±2mm
	view field	8.5×5.2~1.3×0.9mm	4.3×2.6~0.7×0.5mm
2X (optional)	magnification	30~200X	60~400X
	focus distance	29±2mm	29±2mm
	view field	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

*For auxiliary objectives 0.3X, 0.5X, 0.75X, use contour illumination of **ISM-DL301, ISM-DL400, ISM-DL510, 5310-DL401** or LED light

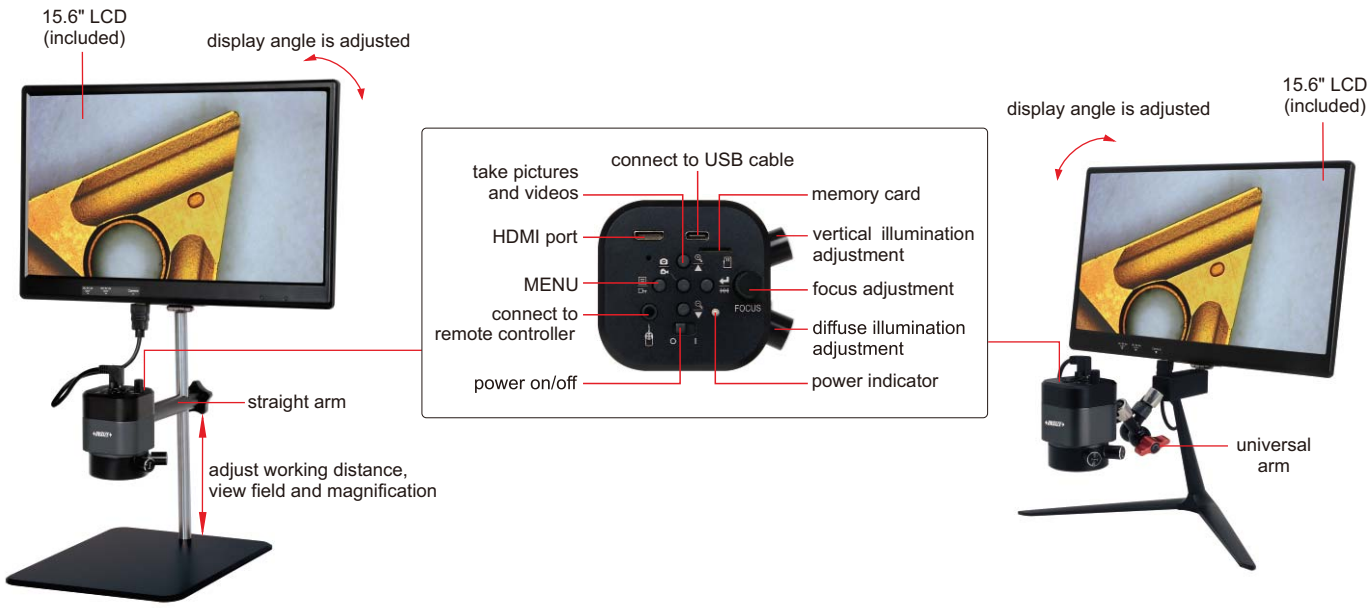
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DIGITAL MICROSCOPES

VIDEO

MEASUREMENT

TAKE PICTURES AND VIDEOS



5309-DM50

5309-DM51

- Independent control of vertical illumination and diffuse illumination
- Back focus adjustment extends working distance
- Take pictures and videos, save to memory card

SPECIFICATION

Code	5309-DM50	5309-DM51
Arm type	straight	universal
Sensor	1/2.8" CMOS	
Pixel	2M	
Resolution	1920×1080	
Exposure	real-time auto, single auto, manual adjustment	
White balance	real-time auto, single auto, manual RGB adjustment	
Record format	pictures: JPG videos: MOV	
Record media	memory card	
Working distance	45~169mm	42~195mm
Magnification	9~41X	7.6~49.4X
View field	7.6×4~38.5×21.7mm	7×4~45×25mm
Power supply	DC12V 3A	



connect to computer with USB cable, take pictures and videos, make measurement

USE COMPUTERS, OPTIONAL

Image magnification	View field	Measuring accuracy
9.0X	38.5×21.7mm	±0.02mm
13.0X	26.6×15.0mm	±0.02mm
17.0X	20.5×11.7mm	±0.02mm
22.0X	16.0×9.0mm	±0.02mm
28.5X	11.9×6.3mm	±0.02mm
34.0X	9.8×5.5mm	±0.01mm
41.0X	7.6×4.1mm	±0.01mm

STANDARD DELIVERY

Main unit	1 pc
Memory card and holder	1 pc
Plastic calibration rule (graduation 1mm)	1 pc
White/black plate	1 pc
Remote controller	1 pc
USB cable	1 pc
Measuring software	1 pc
Power adapter	1 pc

To be continued

Continued from previous page

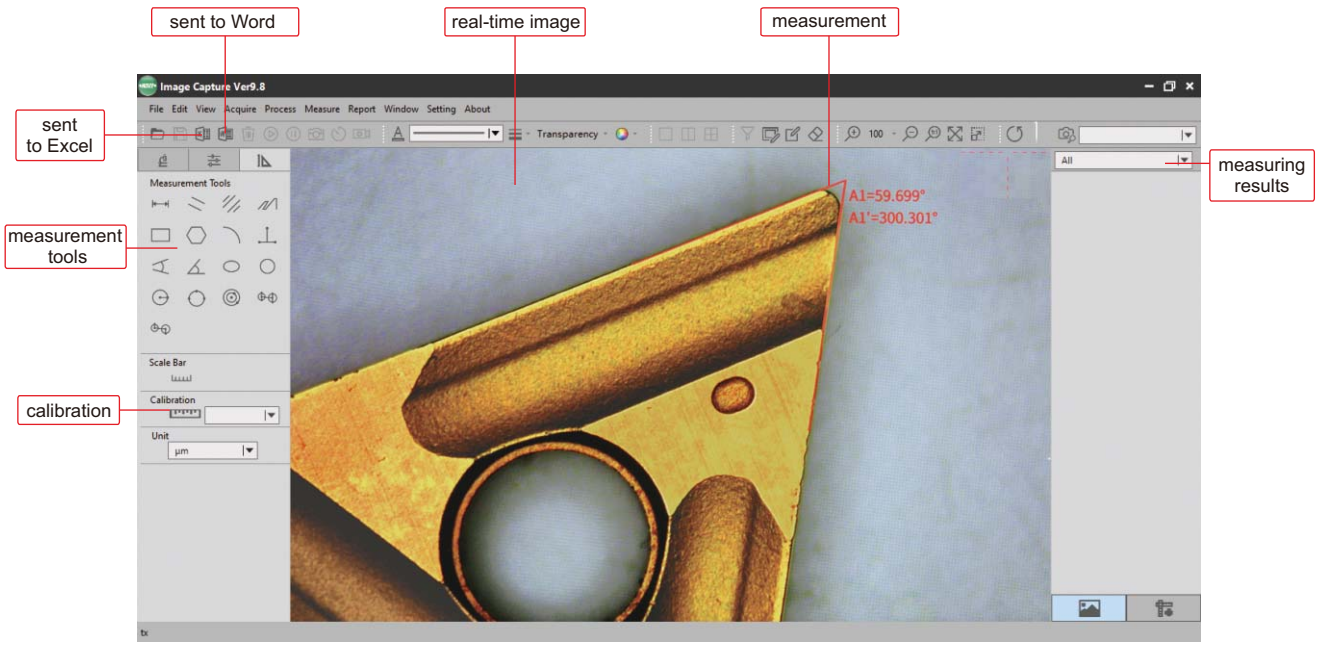

remote controller
(included)


white/black plate
(included)


plastic calibration rule
(graduation 1mm, included)

SOFTWARE FOR COMPUTER

- **Language**: Chinese (Simplified), English, French, Chinese (Traditional), Portuguese, Korean, Japanese
- **Operation system**: Windows 7/8/8.1/10 (64bit)

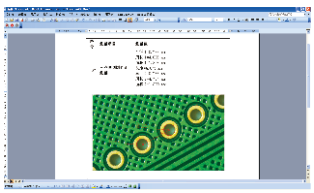


- **Measurement tools:**

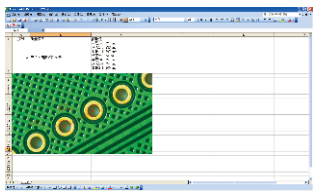
straight line distance measurement
parallel lines distance measurement
centre distance between parallel lines measurement
polyline line measurement
rectangular measurement
polygon measurement
arc measurement
three-vertical-line measurement
four-point perspective measurement
angle measurement
ellipse measurement
round measurement
circle measurement by radius
circle measurement by 3-point
torus measurement
center distance measurement by radius
center distance measurement by 3-point

- **Data is sent to Word or Excel:**

sent to word

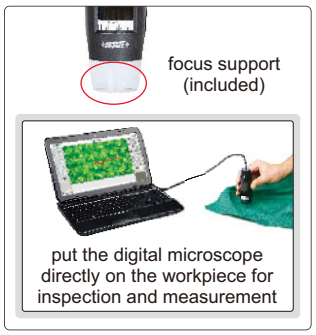


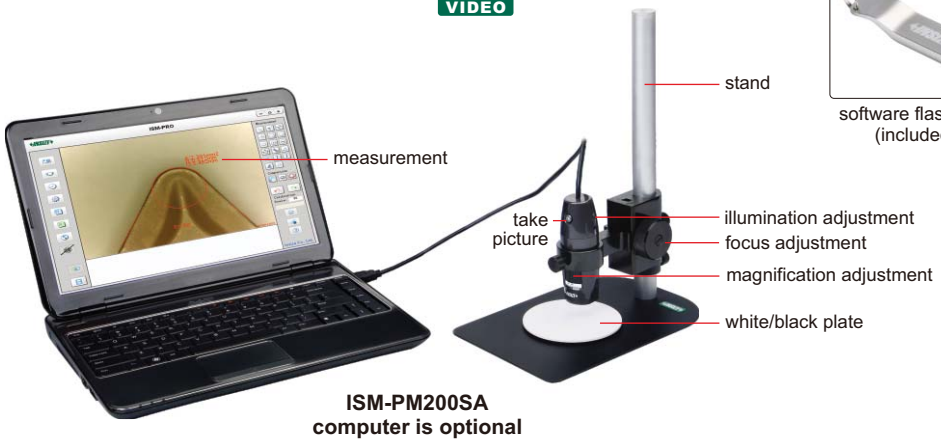
sent to excel



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DIGITAL MEASURING MICROSCOPES







- Can take pictures and videos
- Supplied with software
- Calibration rules (graduation 0.1 and 1mm) are included
- With focus support

ISM-PM200SA computer is optional

universal stand (included in **ISM-PM200SB**)



filter (**optional**)



SPECIFICATION

Code	ISM-PM200SA	ISM-PM200SB
Magnification	10X~200X	10X~200X
Stand	standard	universal
Pixel	2M (resolution: 1600×1200)	
Illumination	built-in adjustable LED	
Power supply	USB 2.0 cable (voltage required: 5±0.1V)	

OPTIONAL ACCESSORY

Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30μm
100X	13mm	3.9×3.1mm	15μm
150X	16mm	2.6×2.1mm	10μm
200X	19mm	1.8×1.5mm	8μm

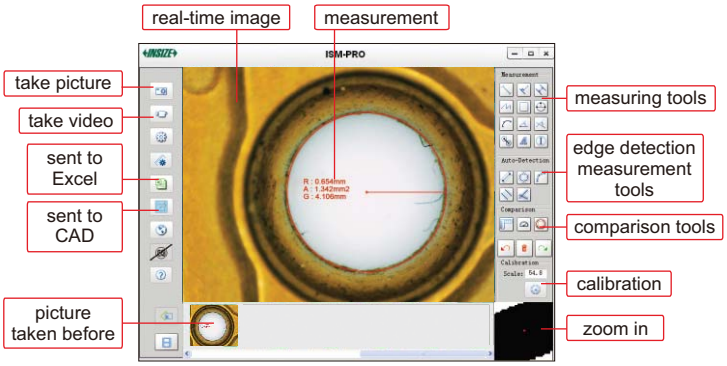
SOFTWARE

- **Language**: English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- **Operation system**: Windows 7/8/XP/Vista
- **Measuring tools:**

measure length of line or distance between two points
measure radius, length and angle of arc
measure area of rectangle
add number with circle
measure distance between two circles
measure length of continuous line
measure distance between two parallel lines
measure angle with three points
measure angle with two lines
measure radius, girth and area of circle
measure distance between point and line
add text

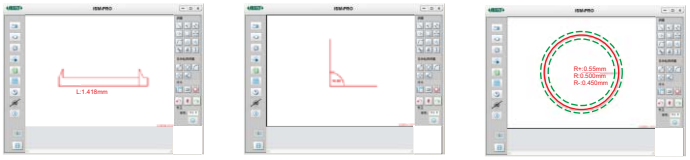
- **Edge detection measurement tools:**

detect two parallel lines automatically and calculate distance
detect circle automatically, and calculate radius, girth and area
detect arc automatically, and calculate radius, angle and arc length
detect two lines automatically, and calculate angle
detect line automatically, and calculate length

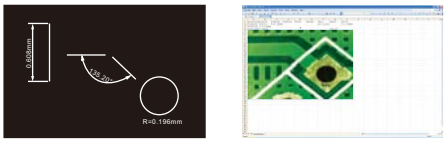


- **Comparison tools:**
  Create line, angle or circle with desired size, to compare with workpieces

create line
create angle
create circle with tolerance



- **Data is sent to CAD or Excel:**



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WiFi DIGITAL MEASURING MICROSCOPE
CODE ISM-WF200

- Maximum working distance is 5m under WiFi mode
- Can be connected to multiple iPads, Android devices or computers together under WiFi mode
- Take pictures and videos
- Supplied with software



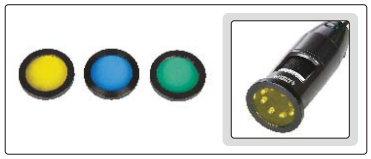
stand (code **ISM-PM-STAND**, **optional**)





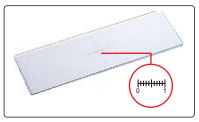
software flash disk (included)

filter (**optional**)





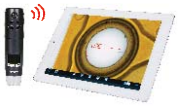
plastic calibration rule (graduation 1mm, included)



glass calibration rule (graduation 0.1mm, included)

SPECIFICATION

Magnification	10X~200X
Pixel	1.3M (resolution: 1280×1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery



connected to iPad by WiFi



connected to Android device by WiFi

STANDARD DELIVERY

Microscope	1 pc
Focus support ring for 80X/150X	1 pc
Focus support ring for 60X/200X	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
Plastic calibration rule (graduation 1mm)	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc



connected to computer by WiFi



connected to computer by USB cable

OPTIONAL ACCESSORY

Stand	**ISM-PM-STAND**
Green filter	**ISM-PM-GREEN**
Yellow filter	**ISM-PM-YELLOW**
Blue filter	**ISM-PM-BLUE**

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

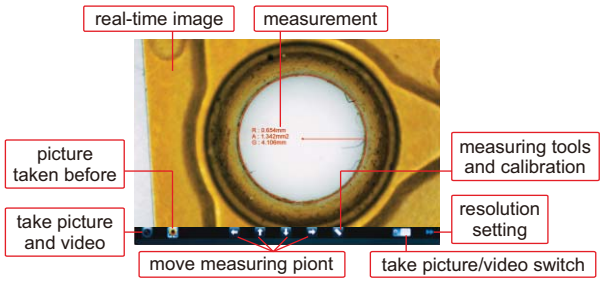
Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30μm
100X	13mm	3.9×3.1mm	15μm
150X	16mm	2.6×2.1mm	10μm
200X	19mm	1.8×1.5mm	8μm

❶ Software ISM-PAD (for iPad by WiFi)

measure length of line or distance between two points

measure radius, girth and area of circle with three points

measure angle

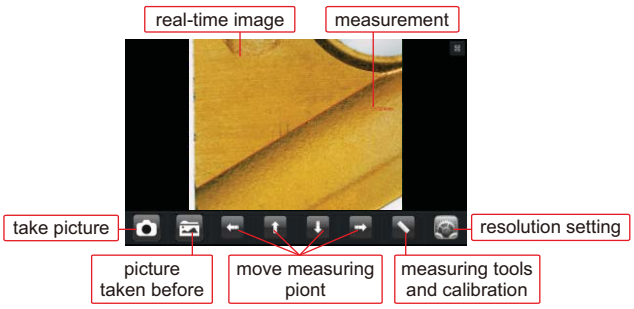


To be continued

Continued from previous page

❷ Software ISM-APK (for Android devices by WiFi)

- measure length of line or distance between two points
- measure radius, girth and area of circle with three points
- measure angle



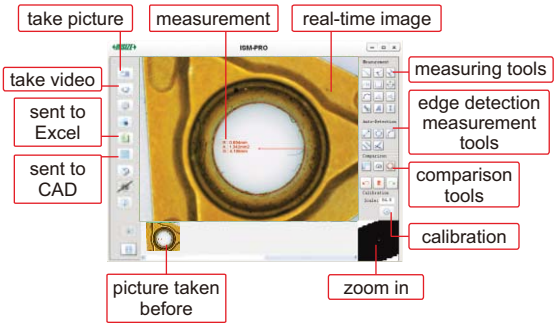
❸ Software ISM-WF Partner (for computer by WiFi)

- measure length of line or distance between two points
- measure area of polygon
- measure angle with three points
- measure radius, girth and area of circle with center point
- measure length of continuous line
- measure radius, girth and area of circle with three points
- measure angle with two lines
- measure radius, girth and area of circle with two points
- measure distance between point and line
- measure radius, length and angle of arc
- measure area of rectangle



❹ Software ISM-PRO (for computer by USB cable)

- **Measuring tools:**
  - measure length of line or distance between two points
  - measure length of continuous line
  - measure radius, length and angle of arc
  - measure distance between two circles
  - measure distance between two parallel lines
  - measure radius, girth and area of circle
  - measure distance between point and line
  - measure area of rectangle
  - measure angle with two lines
  - add number with circle
  - measure angle with three points
  - add text



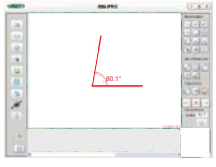
- **Edge detection measurement tools:**
  - detect line automatically, and calculate length
  - detect arc automatically, and calculate radius, angle and arc length
  - detect circle automatically, and calculate radius, girth and area
  - detect two lines automatically, and calculate angle
  - detect two parallel lines automatically and calculate distance

- **Comparison tools:**
  Create line, angle or circle with desired size, to compare with workpieces

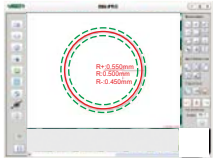
  create line



  create angle



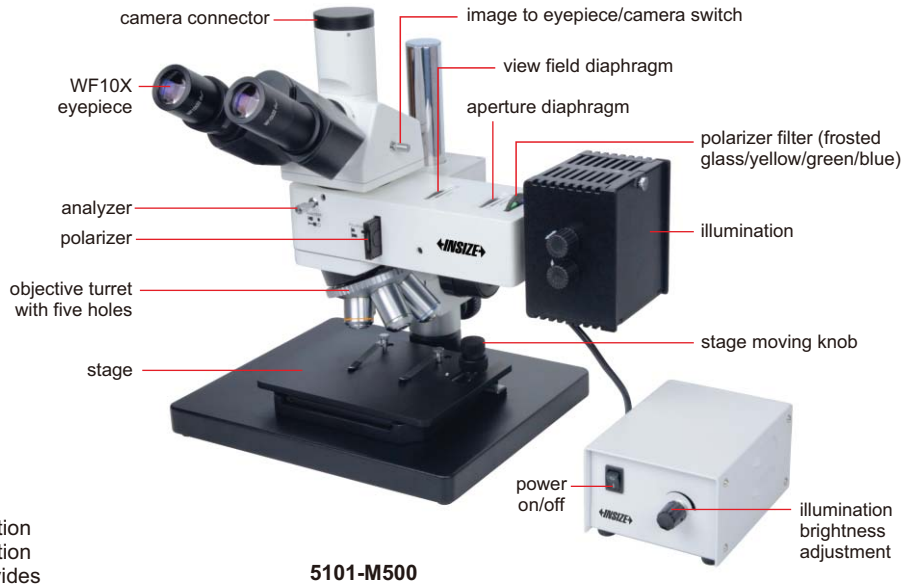
  create circle with tolerance



- **Data is sent to CAD or Excel:**



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5101-M500

- Infinite optical system, polarization observation, dark field observation
- Kohler illumination system provides uniform illumination field
- Objective 50X is spring type

SPECIFICATION

Code	5101-M500 (bright field objectives)				5101-M500BD (bright & dark field objectives)			
Illumination	6V/30W halogen lamp, brightness is adjustable				12V/50W halogen lamp, brightness is adjustable			
Objective (infinite plan achromatic)	bright field objectives				bright & dark field objectives			
	5X	10X	20X	50X	5X	10X	20X	50X
Working distance	26.1mm	20.2mm	8.80mm	3.68mm	9.70mm	9.30mm	7.23mm	2.50mm
Numerical aperture	0.12	0.25	0.40	0.70	0.12	0.25	0.40	0.70
Magnification	50X~500X							
Eyepiece (wide field)	10X (view field: Ø22mm)							
Stage	double layer							
	size: 160×140mm							
	travel: 35x30mm							
Pupil distance	53~75mm							
Diopter adjustment	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz							
Dimension (L×W×H)	415×345×380mm							
Weight	14kg							

STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Bright & dark field objective (for 5101-M500BD)	PL40X	5101-M-BD40X
	PL60X	5101-M-BD60X
	PL80X	5101-M-BD80X
	PL100X	5101-M-BD100X
10X dividing eyepiece (0.1mm/div.)		5101-M-EPD10X
Bright field objective (for 5101-M500)	PL40X	5101-M-OB40X
	PL60X	5101-M-OB60X
	PL80X	5101-M-OB80X
	PL100X	5101-M-OB100X
Digital camera		ISM-CM20, ISM-CM63, ISM-ZS70-S
Camera adapter *		5101-M-ADAPTER

*Digital camera must be used with camera adapter

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INDUSTRIAL INSPECTION MICROSCOPE (LARGE STAGE)
CODE 5104-M700



VIDEO

- For observation and inspection of large IC and chip in IT industry

SPECIFICATION

Magnification	40X~400X			
Eyepiece (wide field)	10X (view field: Ø22mm)			
Objective (plan achromatic)	4X	10X	20X	40X
Numerical aperture	0.10	0.25	0.40	0.60
Working distance	17.8mm	10mm	5.8mm	2.9mm
Stage	double layer, size: 300×268mm, travel: 250×200mm			
Kohler illumination	6V/20W halogen lamp, brightness is adjustable built-in green, blue, yellow and frosted glasses			
Pupil distance	48~75mm			
Diopter adjustment	±5 diopter (two eyepieces)			
Power supply	220V, 50/60Hz			
Dimension (L×W×H)	647×268×376mm			
Weight	12kg			

STANDARD DELIVERY

Main unit	1 pc
Camera connector	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Bright field objective	**5X plan achromatic objective (focus distance: 15.5mm)**	**5104-M700-OB5X**
	50X plan achromatic objective (focus distance: 0.32mm)	**5104-M700-OB50X**
	100X plan achromatic objective (focus distance: 2mm)	**5104-M700-OB100X**
Polarizer and analyzer		**5104-M700-AP**
Digital camera		**ISM-CM20, ISM-CM63, ISM-ZS70-S**
Camera adapter 0.5X*		**ISM-MAS-ADAPTER**

*Digital camera must be used with camera adapter

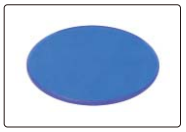
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METALLURGICAL MICROSCOPES



5102-M600

- Infinite optical system, observation in reflected or transmitted illumination, polarizing observation
- Kohler illumination system provides uniform illumination field
- Objectives 40X, 60X are spring type


blue filter (included)


frosted glass filter
(included)

SPECIFICATION

Code	5102-M600 (bright field objectives)				5102-M600BD (bright & dark field objectives)			
Illumination	6V/30W (transmitted) 6V/30W (reflected)				12V/30W (transmitted) 12V/50W (reflected)			
Objective (infinite plan achromatic)	bright field objectives				bright & dark field objectives			
	5X	10X	40X	60X	5X	10X	20X	40X
Working distance	26.1mm	20.2mm	3.98mm	3.18mm	9.70mm	9.30mm	7.20mm	3.00mm
Numerical aperture	0.12	0.25	0.60	0.70	0.12	0.25	0.40	0.70
Magnification	50X~600X				50X~400X			
Eyepiece (wide field)	10X (view field: Ø22mm)							
Stage	double layer							
	size: 210×140mm							
	travel: 75x50mm							
Pupil distance	53~75mm							
Diopter adjustment	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz							
Dimension (L×W×H)	456×260×498mm							
Weight	11kg							

STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc
Filter (blue/frosted glass)	1 pc of each

OPTIONAL ACCESSORY

Bright & dark field objective (for 5102-M600BD)	PL50X	5101-M-BD50X
	PL60X	5101-M-BD60X
	PL80X	5101-M-BD80X
	PL100X	5101-M-BD100X
10X dividing eyepiece (0.1mm/div.)		5101-M-EPD10X
Bright field objective (for 5102-M600)	PL20X	5101-M-OB20X
	PL50X	5101-M-OB50X
	PL80X	5101-M-OB80X
	PL100X	5101-M-OB100X
Digital camera		ISM-CM20, ISM-CM63, ISM-ZS70-S
Camera adapter *		5101-M-ADAPTER

*Digital camera must be used with camera adapter

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METALLURGICAL MICROSCOPES (PROFESSIONAL TYPE)

VIDEO





5108-M3000

- Infinite chromatic aberration correction optical system
- Three way observation tube with infinite hinge
- Translucent and reflective frame, front low-hand position coarse and fine coaxial focus adjustment mechanism, with adjustment elastic device to prevent sliding and random upper limit device
- Bright and dark field five-hole converter with DIC slot
- Adopt digital dimming, with light intensity reset and setting function
- With polarizer insert plate and 360° rotating analyzer insert slot

SPECIFICATION

Code	5108-M3000 (standard type)				5108-M3000H (high-definition type)			
Eyepiece	high eye point large field SWH10X-H (view field: Ø25mm, adjustable visibility)							
Objective (infinite long working distance bright and dark field semi achromatic)	5X	10X	20X	50X	5X	10X	20X	50X
Working distance	15mm	8.4mm	10.3mm	3.0mm	20mm	11mm	3.0mm	1.0mm
Numerical aperture	0.15	0.30	0.40	0.75	0.15	0.30	0.45	0.80
Optical magnification	50X~500X (up to 1000X with optional 100X objective)							
Digital magnification	170X~1700X (on 21.5" monitor), up to 3400X with optional 100X objective							
Stage	double layer							
	size: 310×240mm							
	travel: 150×100mm							
Condenser	roll-out achromatic condenser (numerical aperture 0.9)							
Illumination	5W LED, transmitted and reflected							
Observation tube	inverse image, distance adjustment: 50~76mm, two grade spectral ratio binocular: trinocular=100:0							
Diopter adjustment	±5 diopter (two eyepieces)							
Power supply	AC 100-240V							
Dimension (L×W×H)	310×600×500mm							
Weight	27kg							

STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc
0.65X camera adapter (adjustable focus)	1 pc
Polarizer and analyzer	1 pc of each

OPTIONAL ACCESSORY

Camera and software	ISM-CM63
Glass calibration rule	ISM-MAS-SCALE
Computer	5108-M-COMPUTER
2.5X infinite long working distance bright field semi achromatic objective	5108-M-OB2D5X
100X infinite long working distance bright and dark field semi achromatic objective	5108-M-BD100X
50X infinite long working distance bright and dark field achromatic objective	5108-M-APO50X
100X infinite long working distance bright and dark field achromatic objective	5108-M-APO100X
Differential interference module (DIC)	5108-M-DIC

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METALLURGICAL MICROSCOPES



5103-M1000

- Infinite optical system, polarization observation
- Kohler illumination system provides uniform illumination field
- Objectives 50X, 100X are spring type

SPECIFICATION

Code	5103-M1000 (bright field objectives)				5103-M1000BD (bright & dark field objectives)			
Illumination	6V/30W halogen lamp, brightness is adjustable				12V/50W halogen lamp, brightness is adjustable			
Objective (infinite plan achromatic)	bright field objectives				bright & dark field objectives			
	10X	20X	50X	100X	5X	10X	20X	50X
Working distance	20.2mm	8.80mm	3.68mm	0.40mm	9.70mm	9.30mm	7.23mm	2.50mm
Numerical aperture	0.25	0.40	0.70	0.85	0.12	0.25	0.40	0.70
Magnification	100X~1000X				50X~500X			
Eyepiece (wide field)	10X (view field: Ø22mm)							
Stage	double layer							
	size: 242×200mm							
	travel: 30x30mm							
Pupil distance	53~75mm							
Diopter adjustment	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz							
Dimension (L×W×H)	614×250×394mm							
Weight	13kg							

STANDARD DELIVERY

Main unit	1 pc
Polarizer and analyzer	1 pc of each
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

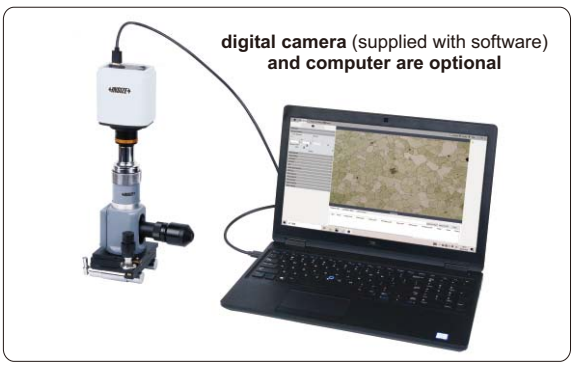
Bright & dark field objective (for 5103-M1000BD)	PL40X	5101-M-BD40X
	PL60X	5101-M-BD60X
	PL80X	5101-M-BD80X
	PL100X	5101-M-BD100X
10X dividing eyepiece (0.1mm/div.)		5103-M-EPD10X
Bright field objective (for 5103-M1000)	PL5X	5101-M-OB5X
	PL40X	5101-M-OB40X
	PL60X	5101-M-OB60X
	PL80X	5101-M-OB80X
Digital camera		ISM-CM63
Camera adapter *		5101-M-ADAPTER

*Digital camera must be used with camera adapter

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PROTABLE METALLURGICAL MICROSCOPE
CODE 5109-PM500

VIDEO



connect to digital camera



- Illumination is powered by batteries
- Aperture diaphragm improves image quality and increases depth of field
- Magnetic base with on/off switch can adhere on metal workpieces
- Can be connected to digital cameras

SPECIFICATION

Magnification	100X~500X	
Eyepiece (wide field)	10X/12.5X	
Objective (plan achromatic)	10X (included)	40X (included)
Numerical aperture	0.25	0.64
Illumination	3W LED, built-in batteries	
Stage	double layer, size: 15×12mm	
Dimension (L×W×H)	210×160×95mm	
Weight	1.5kg	

STANDARD DELIVERY

Main unit	1 pc
Eyepiece	2 pcs
Objective	2 pcs
Battery (AAA)	3 pcs

OPTIONAL ACCESSORY

Objective	**5X plan achromatic**	**5109-PM500-OB5X**
	20X plan achromatic	**5109-PM500-OB20X**
	100X plan achromatic	**5109-PM500-OB100X**
Eyepiece	**5X**	**5109-PM500-EP5X**
	15X	**5109-PM500-EP15X**
Digital camera*		**ISM-CM20, ISM-CM63, ISM-ZS70-S**
Camera adapter 0.5X		**ISM-MAS-ADAPTER**

* Digital camera must be used with camera adapter

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ZOOM STEREO MICROSCOPE (PROFESSIONAL TYPE)
CODE 5107-S70T

VIDEO



LED ring light (**optional**)



- Greenough optical system, clear observation, real color
- High working distance is convenient for operation
- Excellent flat image and large depth of field, make observation comfortable
- 6.7:1 large zoom ratio, allow quick observation adjustment

SPECIFICATION

Optical tube	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm)
Objective	0.67X~4.5X (zoom)
Observation tube	45° trinocular tube inclination angle, built-in 0.5X adapter
Zoom ratio	6.7:1
Pupil distance	50~75mm
Diopter adjustment	-8~+5 diopter (both eyepieces)
Working distance of objective	110mm
Max. workpiece height	106mm
Illumination	adjustable LED light
Power supply	110/220V, 50/60HZ
Dimension (L×W×H)	330×300×368mm
Weight	3.5kg



frosted glass filter
(included)



white/black plate
(included)

STANDARD DELIVERY

Main unit	1 pc
10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Auxiliary objective	**0.5X**	**5107-S70T-OB05X**
	1.5X	**5107-S70T-OB15X**
	2X	**5107-S70T-OB20X**
Eyepiece	**15X (view field: Ø16mm)**	**5107-S70T-EP15X**
	20X (view field: Ø12.5mm)	**5107-S70T-EP20X**
LED ring light		**ISM-ZS-RL**
Digital camera		**ISM-CM20, ISM-CM63, ISM-ZS70-S**

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PARALLEL LIGHT STEREO MICROSCOPE
CODE ISM-ZS200

PARALLEL LIGHT PATH: REDUCE FATIGUE, ACCESSORIES CAN BE ADDED INTO LIGHT PATH

coaxial illumination (**optional**)





VIDEO

optical path splitter (**optional**)



- Infinity parallel optical system and 20° inclined optical tube reduce fatigue
- Coaxial illumination is optional for deep holes which cannot be observed by ring light
- Aperture diaphragm is optional for large depth of field and high quality image

iris diaphragm (**optional**)



SPECIFICATION

Optical tube	binocular (20° inclined)
Eyepiece (wide field)	10X (view field: Ø22mm)
Objective	0.8X~8X (zoom)
Zoom ratio	1:10
Pupil distance	55~75mm
Diopter adjustment	±5 diopter (both eyepieces)
Working distance of objective	78mm
Max. workpiece height	72mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60HZ
Dimension (L×W×H)	240×280×440mm
Weight	4.3kg

STANDARD DELIVERY

Main unit	1 pc
WF10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Objective	**0.5X achromatic objective (focus distance: 186mm)**	**ISM-ZS200-OB05X***
	2X plan achromatic objective (focus distance: 32.5mm)	**ISM-ZS200-OB2X**
	0.5X plan apochromatic objective (focus distance: 126mm)	**ISM-ZS200-APO05X***
Eyepiece	**WF15X (view field: Ø16mm)**	**ISM-ZS200-EP15X**
	WF20X (view field: Ø12mm)	**ISM-ZS200-EP20X**
	WF30X (view field: Ø20mm)	**ISM-ZS200-EP30X**
Sleeve for objective		**ISM-ZS200-ADAPTER**
Iris diaphragm		**ISM-ZS200-IRD**
Optical path splitter		**ISM-ZS200-OBS**
Coaxial illumination		**ISM-ZS200-COAXIAL**
Digital camera **		**ISM-CM20, ISM-CM63**

*0.5X auxiliary objective must be used with **ISM-ZS200-ADAPTER**

**Digital camera must be used with optical path splitter

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LARGE ZOOM RATIO

ZOOM STEREO MICROSCOPES (ADVANCED TYPE)

VIDEO



ISM-ZS100T

connect to digital camera (for **ISM-ZS100T**)





LED ring light (**optional**)

SPECIFICATION

Code	ISM-ZS100	ISM-ZS100T
Optical tube	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø23mm)	
Objective	0.6X~5X (zoom)	
Zoom ratio	1:8.3	
Pupil distance	55~75mm	
Diopter adjustment	±5 diopter (two eyepieces)	
Working distance of objective	115mm	
Max. workpiece height	75mm	
Illumination	adjustable reflected and transmitted LED light	
Power supply	110/220V, 50/60HZ	
Dimension (L×W×H)	260×310×490mm	
Weight	4.9kg	

STANDARD DELIVERY

Main unit	1 pc
Camera connector 0.55X for ISM-ZS100T	1 pc
Digital camera adapter 1X for ISM-ZS100T	1 pc
WF10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Auxiliary objective	0.5X (focus distance: 220mm)	ISM-ZS100-OB05X*
	0.7X (focus distance: 125mm)	ISM-ZS100-OB07X
	2X (focus distance: 45mm)	ISM-ZS100-OB2X
Eyepiece	WF15X (view field: Ø16mm)	ISM-ZS100-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS100-EP20X
	WF30X (view field: Ø8mm)	ISM-ZS100-EP30X
Sleeve for auxiliary objective		ISM-ZS200-ADAPTER
LED ring light		ISM-ZS-RL
Digital camera for ISM-ZS100T		ISM-CM20, ISM-CM63, ISM-ZS70-S

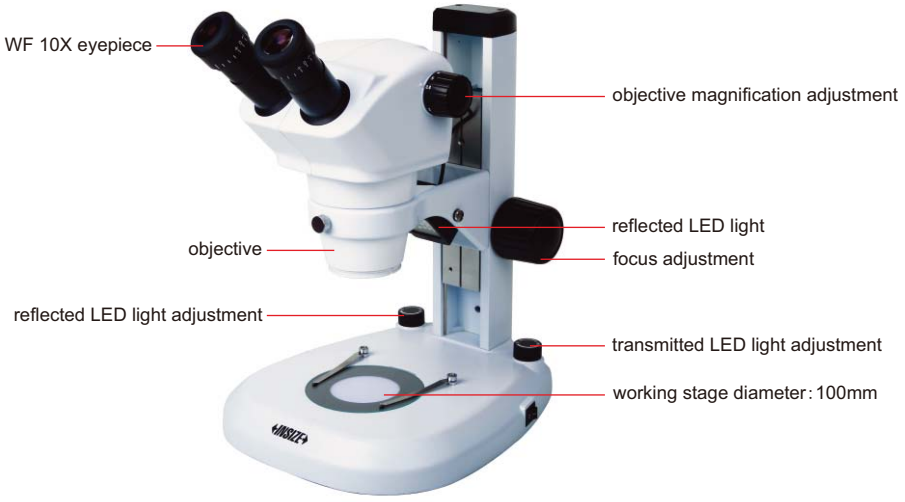
*0.5X auxiliary objective must be used with **ISM-ZS200-ADAPTER**

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ZOOM STEREO MICROSCOPES (STANDARD TYPE)



LED ring light (**optional**)



ISM-ZS50

SPECIFICATION

Code	ISM-ZS50	ISM-ZS50T
Optical tube	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm)	
Objective	0.8X~5X (zoom)	
Zoom ratio	1:6.3	
Pupil distance	55~75mm (adjustable)	
Diopter adjustment	±5 diopter (two eyepieces)	
Working distance of objective	115mm	
Max. workpiece height	75mm	
Illumination	adjustable reflected and transmitted LED light	
Power supply	110/220V, 50/60HZ	
Dimension (L×W×H)	290×260×480mm	
Weight	4.9kg	

STANDARD DELIVERY

Main unit	1 pc
WF 10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS50-OB05X*
	2X	ISM-ZS50-OB2X
Eyepiece	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS50-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
LED ring light		ISM-ZS-RL
Sleeve for auxiliary objective		ISM-ZS200-ADAPTER
Digital camera for ISM-ZS50T		ISM-CM20, ISM-CM63, ISM-ZS70-S
Camera adapter 0.5X for ISM-ZS50T**		ISM-MAS-ADAPTER

*0.5X auxiliary objective must be used with **ISM-ZS200-ADAPTER**

**Digital camera must be used with camera adapter 0.5X

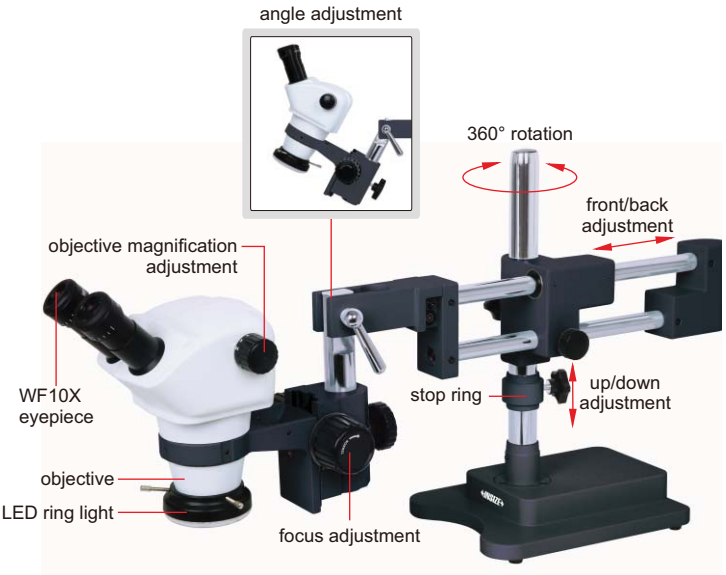
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ZOOM STEREO MICROSCOPES (WITH UNIVERSAL STAND)

VIDEO



5106-M40 (with stand type A)



5106-M50 (with stand type B)

SPECIFICATION

Code	5106-M40	5106-M40T	5106-M50	5106-M50T
Stand	type A		type B	
Optical tube	binocular	trinocular	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm)			
Objective	0.8X~5X (zoom)			
Zoom ratio	1:6.3			
Pupil distance	55~75mm			
Diopter adjustment	±5 diopter (two eyepieces)			
Working distance of objective	115mm			
Max. workpiece height	300mm			
Illumination	adjustable reflected LED ring light			
Power supply	power adapter			
Dimension (L×W×H)	610×220×430mm		790×230×430mm	
Weight	13.7kg		20kg	

STANDARD DELIVERY

Main unit (with stand)	1 pc
WF10X eyepiece	2 pcs
LED ring light	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS50-OB05X*
	2X	ISM-ZS50-OB2X
Eyepiece	10X dividing eyepiece (0.1mm/div.)	ISM-ZS50-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
Adapter sleeve		ISM-ZS30-ADAPTER
0.5X adapter (for 5106-M40T/M50T)		ISM-MAS-ADAPTER
Digital camera (for 5106-M40T/M50T) **		ISM-CM20, ISM-CM63

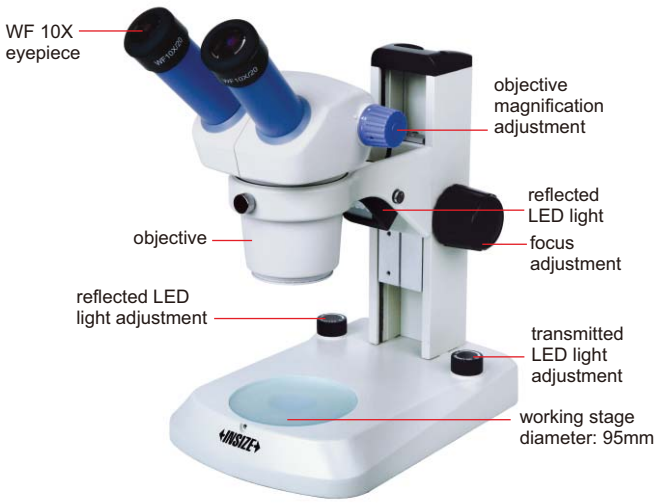
*0.5X auxiliary objiective must be used with **ISM-ZS30-ADAPTER**

Digital camera must be used with 0.5X adapter **ISM-MAS-ADAPTER

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ZOOM STEREO MICROSCOPE (BASIC TYPE)
CODE ISM-ZS30

VIDEO



SPECIFICATION

Optical tube	binocular
Eyepiece (wide field)	10X (view field: Ø20mm)
Objective	1X~4.5X (zoom)
Zoom ratio	1:4.5
Pupil distance	55~75mm (adjustable)
Diopter adjustment	±5 diopter (two eyepieces)
Working distance of objective	97mm
Max. workpiece height	60mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60HZ
Dimension (L×W×H)	260×190×400mm
Weight	4.3kg



LED ring light (**optional**)

STANDARD DELIVERY

Main unit	1 pc
WF 10X eyepiece	2 pcs
Ø95mm glass plate	1 pc
Ø95mm white/black plate	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS30-OB05X*
	0.63X	ISM-ZS30-OB06X*
	0.75X	ISM-ZS30-OB07X*
	2X	ISM-ZS30-OB2X
Eyepiece	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS30-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
LED ring light		ISM-ZS-RL
Sleeve for auxiliary objective		ISM-ZS30-ADAPTER
Digital camera		ISM-CM63
Camera adapter 0.75X **		ISM-AD-0D75

*0.5X, 0.63X and 0.75X auxiliary objectives must be used with **ISM-ZS30-ADAPTER**

**Digital camera must be used with camera adapter 0.75X

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LONG WORKING DISTANCE STEREO MICROSCOPES (LOW MAGNIFICATION)

VIDEO



5305-ZS80



5305-ZS90

SPECIFICATION

Code	**5305-ZS80** (with metal base)	**5305-ZS90** (with magnetic base)
Magnification	8X	
Eyepiece (wide field)	10X (view field: Ø20mm)	
Objective	0.8X	
Pupil distance	55~75mm	
Diopter adjustment	±5 diopter (one eyepiece)	
Working distance of objective	115mm	
Max. workpiece height	100mm	140mm
Dimension (L×W×H)	280x160x370mm	280x180x410mm
Weight	3.7kg	2.1kg

STANDARD DELIVERY

Main unit	1 pc
10X eyepieces	1 pair
0.8X objective	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Eyepiece	WF5X (view field: Ø20mm)	**5305-ZS80-EP5X**
	WF15X (view field: Ø15mm)	**5305-ZS80-EP15X**
	WF20X (view field: Ø10mm)	**5305-ZS80-EP20X**
LED ring light		**ISM-ZS-RL**



LED ring light (**optional**)

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POLARIZING MICROSCOPE
CODE ISM-POL1000



- Widely used in geology, mineralogy, fossil fuel exploration
- Single polarization, othorgonal polarization or conoscopic observation are available

SPECIFICATION

Magnification	40X~600X				
Eyepiece	10X (view field: Ø20mm)				
Infinite strain free plan achromatic objective	4X (transmitted/ reflected)	10X (transmitted/ reflected)	20X (transmitted)	40X (transmitted)	60X (transmitted)
Working distance	22.2mm	6.1mm	6.4mm	0.6mm	0.3mm
Numerical aperture	0.1	0.25	0.4	0.65	0.8
Stage	revolving round stage				
	diameter: Ø160mm				
	graduation: 1°, resolution: 6'				
Pupil distance	53~75mm				
Diopter adjustment	±5 diopter (one eyepiece)				
Illumination	12V/50W halogen lamp, brightness is adjustable (reflected illumination)				
	12V/20W halogen lamp, brightness is adjustable (transmitted illumination)				
Power supply	110/220V, 50/60HZ				
Dimension (L×W×H)	614×250×394mm				
Weight	13kg				

STANDARD DELIVERY

Main unit	1 pc
Micrometer	1 pc
Grid plate	1 pc
10X crossing eyepiece (view field: Ø20mm)	1 pc
10X dividing eyepiece (view field: Ø20mm, graduation 0.1mm)	1 pc
λ slip (first class red) and 1/4λ slip	1 pc
Quartz wedge	1 pc

OPTIONAL ACCESSORY

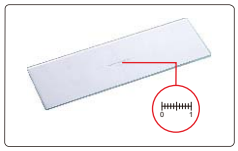
Objective for reflected system	**PL20X**	**ISM-POL1000-OBR20X**
	PL40X	**ISM-POL1000-OBR40X**
	PL60X	**ISM-POL1000-OBR60X**
	PL100X	**ISM-POL1000-OBR100X**
Objective for transmitted system	**PL100X**	**ISM-POL1000-OBT100X**
Specimen presser		**ISM-POL1000-SP**

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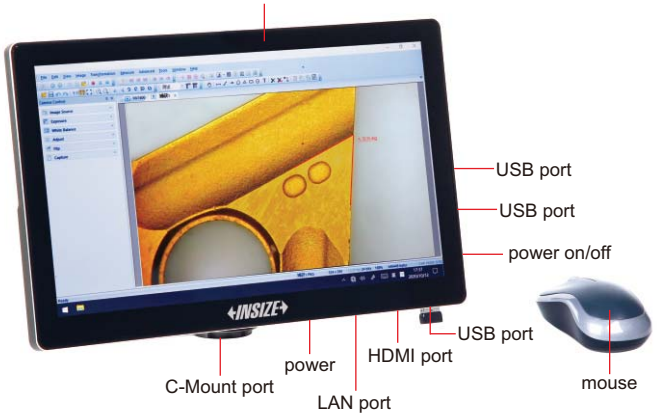
ATTENTION: CAMERA CONNECTOR AND ADAPTER ARE NEEDED ACCORDING TO MICROSCOPES

DIGITAL CAMERA FOR MICROSCOPES (WITH PAD)
CODE ISM-ZS70-S

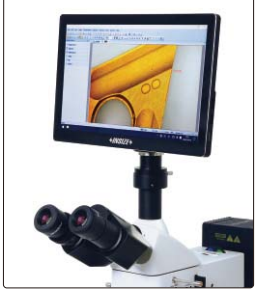
MEASUREMENT, TAKE PICTURES AND VIDEOS



glass calibration rule
(included, graduation 0.1mm)



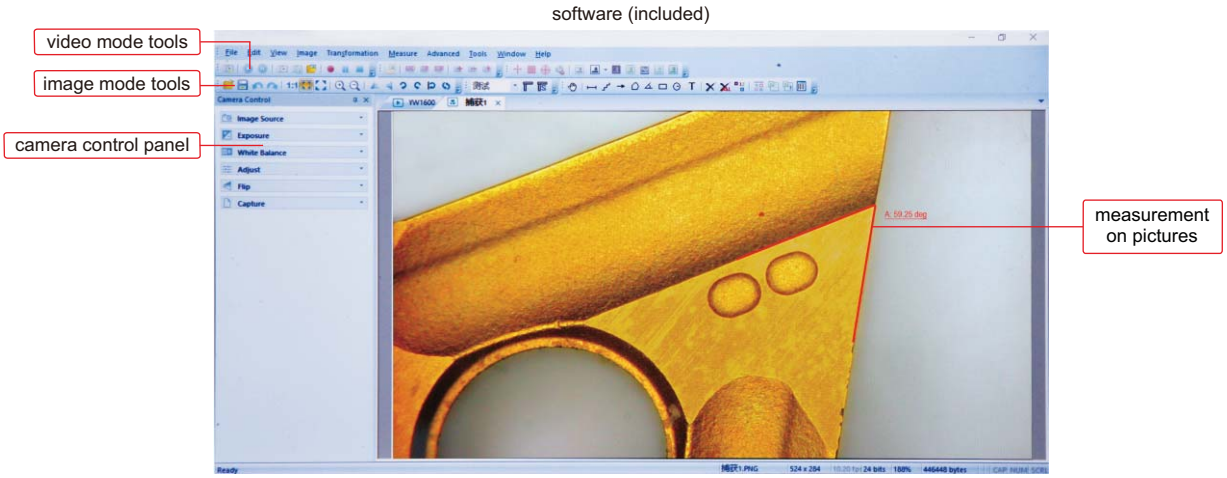
application
connected to microscope



- Windows 10 operation system
- Built-in software, can take pictures and videos, can measure
- Language: Chinese, English, French, Japanese, German, Polish, Arabic
- Automatic exposure, white balance, brightness, contrast ratio, saturation are adjustable
- Image process feature: zoom in/out, flip, mirror, stitching and so on
- Output to Excel or CSV file

VIDEO

software (included)



- **Measuring tools**

measure line | measure meander line | arrow mark | measure polygon | calibration
measure angle | measure rectangle | measure circle | text mark | show/hide scale

SPECIFICATION

Sensor	1/2.3" CMOS
Pixel	16M
Resolution	800×600, 1600×1200, 1920×1080, 2048×1536, 2304×1728, 2592×1944, 4608×3456
Frame rate	30fps (1920×1080)
Output	HDMI, USB 3.0
Power supply	power adapter
Dimension (L×W×H)	280.3×177.4×12.5mm
Weight	0.9kg

STANDARD DELIVERY

Main unit	1 pc
Mouse	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
AC/DC adapter	1 pc

DIGITAL CAMERA FOR MICROSCOPES
CODE ISM-CM63

VIDEO

ATTENTION: ADAPTERS ARE NEEDED ACCORDING TO MICROSCOPES

- To be used with computers
- Sony Exmor back-illuminated CMOS sensor
- USB3.0 transmission
- Automatic exposure, gain adjustment, white balance, chrominance adjustment, saturation adjustment, gamma correction, luminance adjustment, contrast adjustment

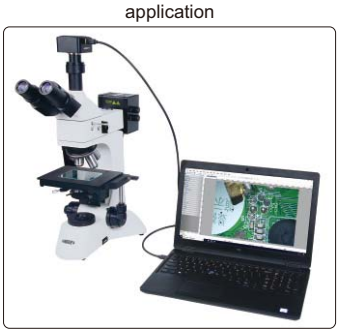


C-mount port

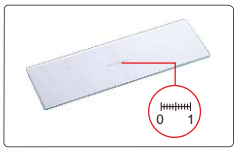
adapter 0.75X (**optional**)



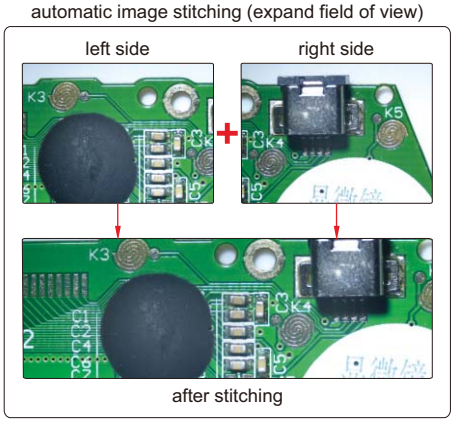
application



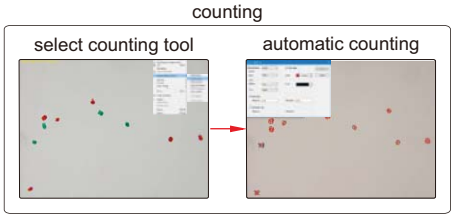
glass calibration rule (included, graduation 0.1mm)



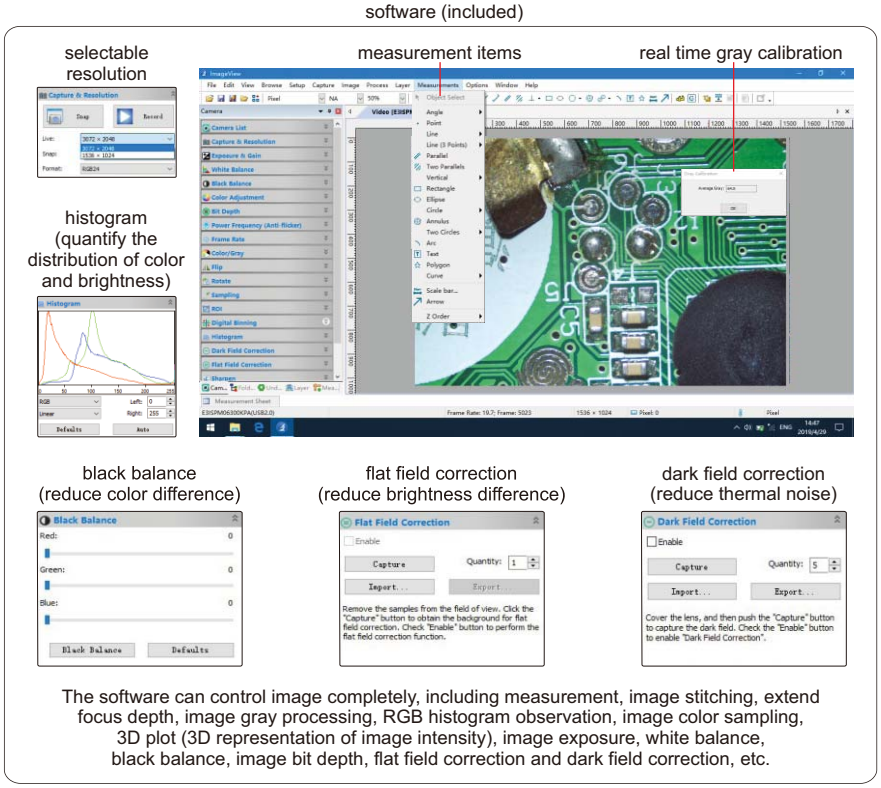
automatic image stitching (expand field of view)



counting



software (included)



The software can control image completely, including measurement, image stitching, extend focus depth, image gray processing, RGB histogram observation, image color sampling, 3D plot (3D representation of image intensity), image exposure, white balance, black balance, image bit depth, flat field correction and dark field correction, etc.

Measuring tools:

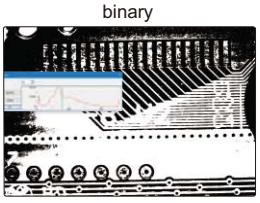
- measure length of line or distance between two points
- measure distance between two parallel lines
- measure angle
- measure radius, girth and area of circle
- measure axis lengths, girth and area of ellipse
- calibration
- measure rectangle
- measure width and diameter of ring
- measure diameter, length, perimeter angle of arc
- measure area of polygon
- measure center distance between two circles
- measure length of open curve

focus stacking



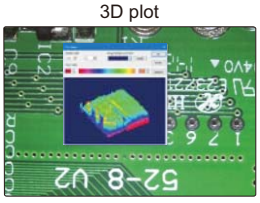
focus on the top | focus on the bottom | clear image of both top and bottom

binary



separate target and background

3D plot



visualize the distribution of image brightness and color

To be continued

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Continued from previous page

SPECIFICATION

Sensor (back-up)	1/1.8" CMOS
Resolution	3072×2048
Pixel	6.3M
Single pixel size	2.4×2.4μm
Spectral range	380-650nm (with infrared cut filter)
Frame rate	30fps
Sampling average	1×1
Exposure time	0.1ms~15s
Power supply	USB port
Weight	400g

COMPUTER REQUIREMENT

Operation system	Windows 7/8/10
CPU	Intel Core 2 2.8Hz or above
Memery	2GB or above
USB port	USB3.0 (recommand) or USB2.0
Display	17" or above

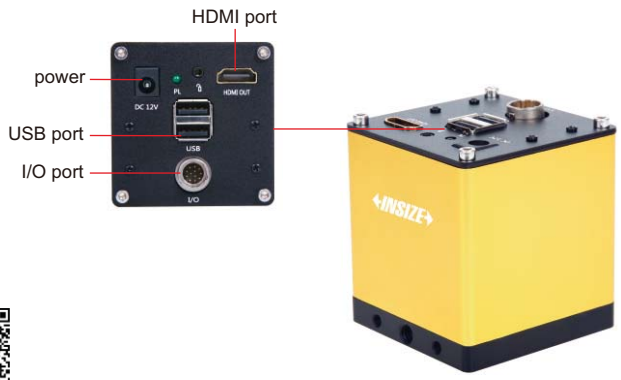
STANDAER DELIVERY

Camera (USB cable included)	1 pc
Software	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc

OPTIONAL ACCESSORY

Adapter 0.75X	ISM-AD-0D75

SMART CAMERA
CODE ISM-MV10



VIDEO

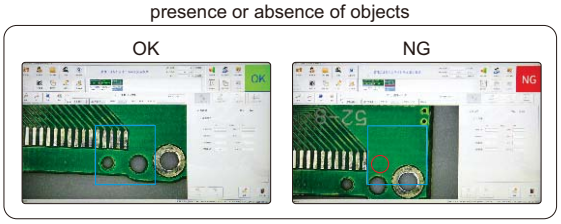
- Built-in software, operated by mouse.
- Automatically calculate, store the test results and sent to Excel
- Camera with PLC control input and output interface, can be integrated with automation equipment
- Functions: presence or absence of objects, position tilt correction, object counting, color detection, stain detection, dimension measurement, position guide, etc.

SPECIFICATION

Chip structure	FPGA+ARM
Operation system	Linux 3.10
Kernel structure	dual-core Cortex-A9
Frequency	1GHZ
I/O port	3 sets of input and output (can be connected to photoelectric switch, wire switch, PLC, etc.)
Operation temperature	-10~70°C
Sensor	1/2" CMOS
Single pixel size	3.75×3.75μm
Resolution	1920×1080
Frame rate	60fps
Video output	HDMI port
Lens connection	standard C port

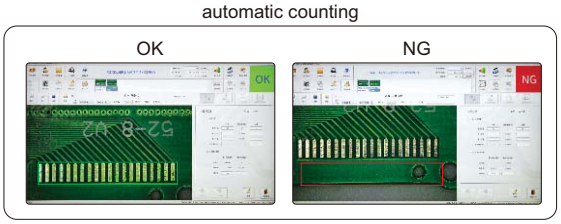
SOFTWARE

presence or absence of objects



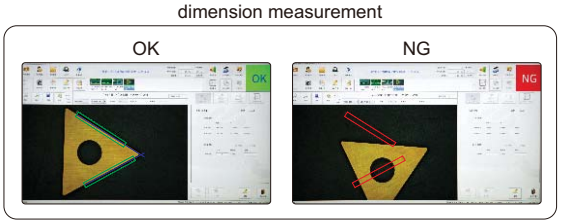
select the area and specify the target, the camera will automatically detect the presence or absence of the target.

automatic counting



select the area and specify the target, the camera will automatically calculate the number of targets.

dimension measurement



measuring angle, distance, radius, center distance, etc.

STANDAER DELIVERY

Camera (with HDMI cable)	1 pc
Software	1 pc

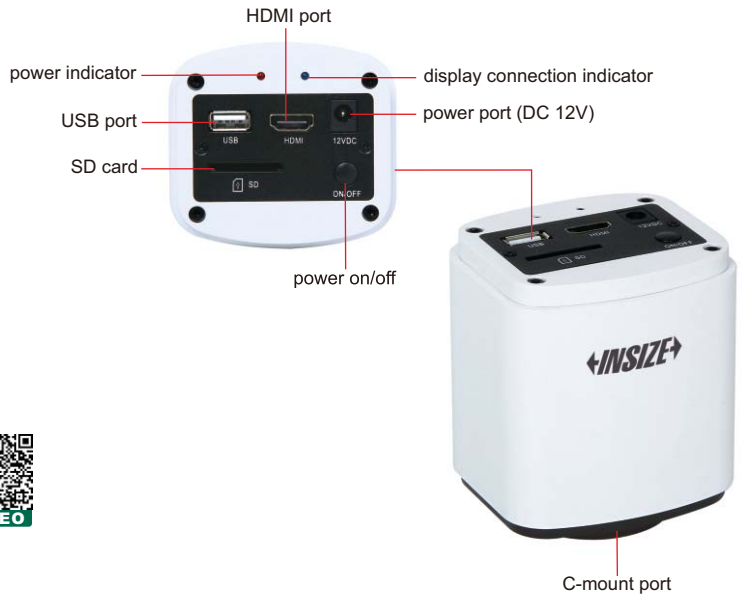
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DIGITAL CAMERA FOR MICROSCOPES
CODE ISM-CM20

ATTENTION: ADAPTERS ARE NEEDED ACCORDING TO MICROSCOPES

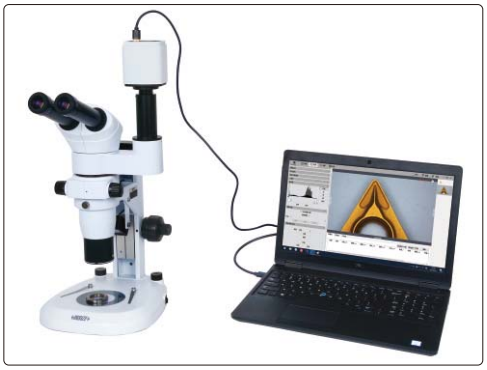
FOCUS STACKING

AUTOMATIC IMAGE STITCHING



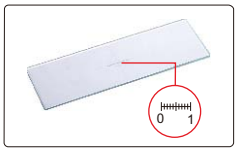
VIDEO

application



- 1080P high-definition image
- Can be connected with displays or computers
- Built-in simple measuring software for displays, without computer
- Professional measuring software for computers is included
- For bright field, dark field or fluorescent field
- Automatic exposure, white balance, gain adjustment, gamma correction, brightness contrast adjustment, saturation adjustment, chroma sharpness adjustment
- Focus stacking, automatic image stitching

glass calibration rule
(included, graduation 0.1mm)



adapter 0.5X (**optional**)



SIMPLE MEASURING SOFTWARE (BUILT-IN, FOR DISPLAYS)

- **Measuring tools:**
  - measure length of line or distance between two points
  - measure distance between point and line
  - measure rectangle
  - measure concentric circles
  - measure circle
  - measure curve
  - measure polygon
  - measure center distance of two circles
  - measure angle of two lines



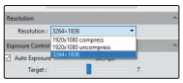
auto exposure, white balance, gain adjustment, gamma, chroma contrast adjustment, brightness sharpness adjustment, size measurement

To be continued

Continued from previous page

PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

selectable resolution

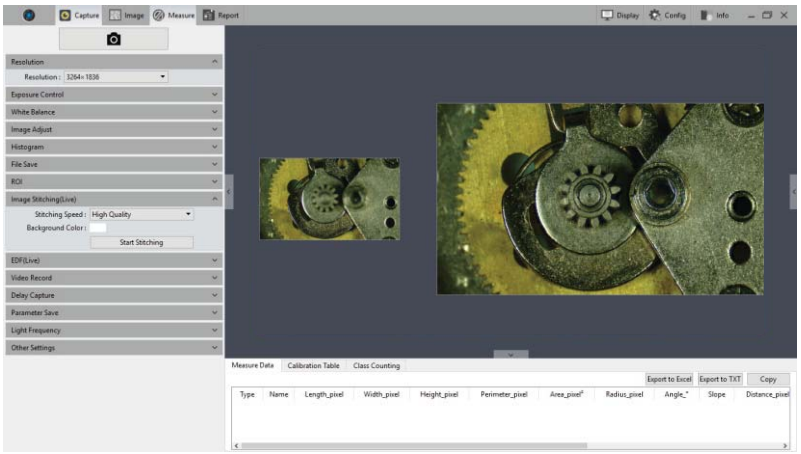


white balance
(balance color based on actual light source)



histogram
(quantify the distribution of color and brightness)





flat field correction



metrics flow
(create templates, set tolerances and build metrics flow)



manual counting
(class counting)

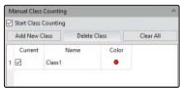


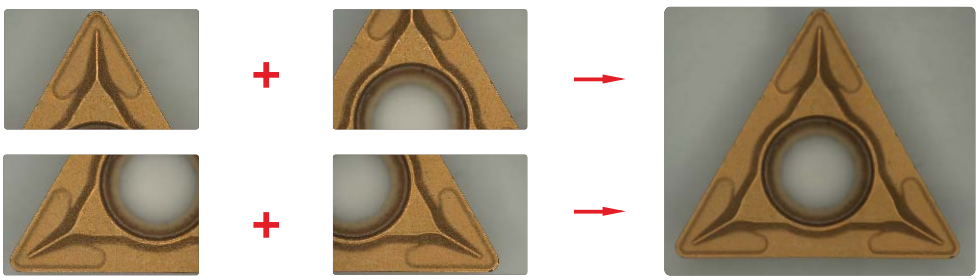
image coloring, fluorescence synthesis, binary, image smoothing, color filter/color extraction/ color inversion, delay capture, focus stacking, automatic image stitching, metrics flow, manual counting, dynamic and static measurement, layered measurement, report generation and printing, delay record, flat field correction, image adjustment, histogram.

focus stacking



focus on the top | focus on the bottom | clear image of both top and bottom

automatic image stitching



slowly move the workpiece to generate a stitched image automatically (this image can not be used for size measurement)

SPECIFICATION

Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	30fps
Power supply	power adapter
Output	HDMI/USB
Lens connection	C-mount

COMPUTER (optional) REQUIREMENT

Operation system	Windows 7/8/10 (64 bit)
CPU	Intel Core i5 or above
Memory	8GB or above
USB port	USB 3.0

DISPLAY (optional) REQUIREMENT

Size	13" or above
Resolution	1080P or above
HDMI port	type A

STANDARD DELIVERY

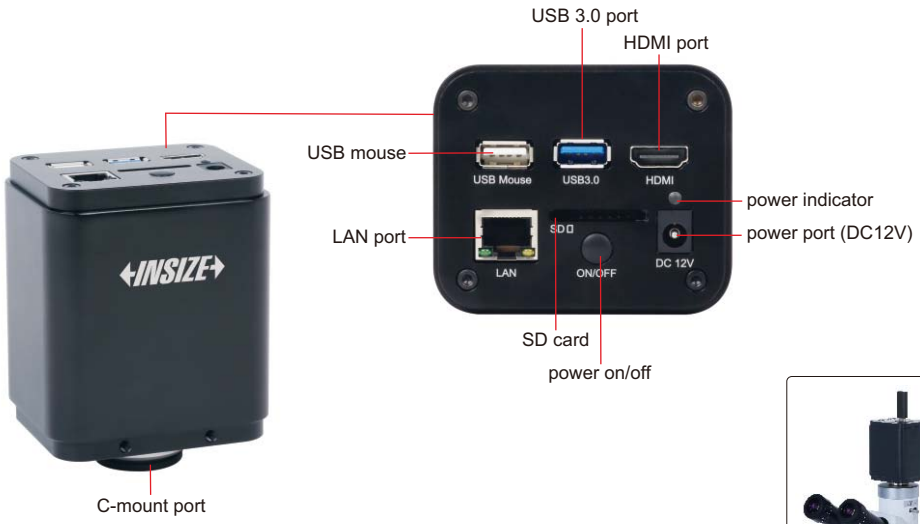
Main unit	1 pc
16G memory card and holder	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
Mouse	1 pc
HDMI cable	1 pc
USB cable	1 pc
Power supply	1 pc

OPTIONAL ACCESSORY

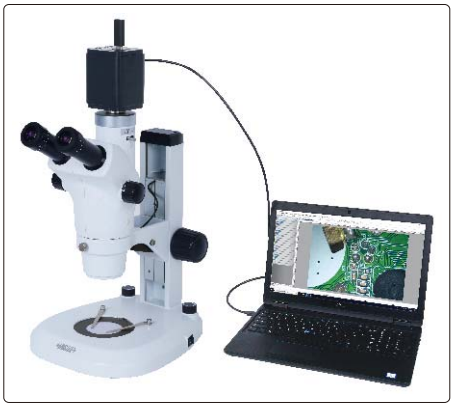
Adapter 0.5X	ISM-MAS-ADAPTER

WIFI 4K CAMERA FOR MICROSCOPES
CODE ISM-MP8B

WIRELESS AD-HOC NETWORK | AUTOMATIC IMAGE STITCHING | FOCUS STACKING



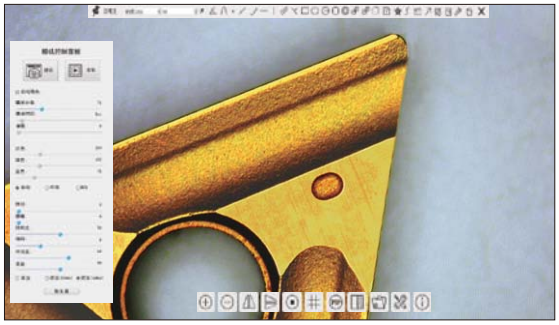
application



- 4K high-definition image
- Can be connected with displays or computers
- Built-in simple measuring software for display, without computer
- Professional measuring software for computers is included
- 4K HDMI/LAN/USB multiple video outputs
- 4K/1080P automatically switched by display resolution
- Focus stacking, automatic image stitching
- Wireless network or wired network

VIDEO

simple measuring software (built-in, for displays)



professional measuring software (included, for computers)



SPECIFICATION

Sensor	1/1.2" CMOS
Pixel	8M
Resolution	3840×2160, 1920×1080
Single pixel	2.9×2.9μm
Frame rate	60fps@3840×2160 (HDMI) 30fps@3840×2160 (LAN) 30fps@3840×2160 (USB)
Binning	1×1
Exposure	0.04~2000ms
Output	HDMI/USB/LAN
Lens connection	C-mount
Power supply	DC 12V 1A
Dimension (L×W×H)	255×170×90mm
Weight	2kg

CONNECTION

HDMI	comply with HDMI 2.0 standard 4K/1080P automatically switched by display resolution
LAN	H264 encoded video bandwidth adjustment in real time DHCP configuration or manual configuration unicast/multicast configuration
WLAN	connecting 5G WLAN adapter (USB 3.0 interface) in AP/STA mode
USB3.0	connecting USB 3.0 port of PC for video transfer MJPEG format video

To be continued

Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
16G SD card	1 pc
USB mouse	1 pc
HDMI2.0 cable	1 pc
USB3.0 cable	1 pc
USB wlan adapter	1 pc
Wlan cable	1 pc
Glass calibration ruler	1 pc
Calibration plate	1 pc
Software	1 pc
Power adapter	1 pc

OPTIONAL ACCESSORY

16G USB flash disk		IS-USBDISK-16G
Adjustable lens adapter	Ø23.2mm eyepiece tube	ISM-MP-2A075
	Ø31.75mm eyepiece tube	ISM-MP-3A075
Fixed lens adapter	Ø23.2mm eyepiece tube	ISM-MP-2F075
	Ø31.75mm eyepiece tube	ISM-MP-3F075
Adapter ring for Ø30.0mm eyepiece tube		ISM-MP-300R
Adapter ring for Ø30.5mm eyepiece tube		ISM-MP-305R

COMPUTER

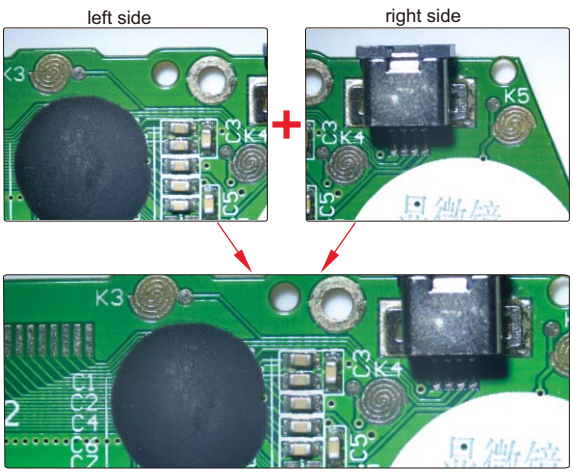
Operation system	Windows/7/8/10
CPU	Intel Core 2 2.8Hz
Memory	2GB
USB port	USB 3.0 or USB 2.0 port
Display	17"

PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

Measuring tools:

- measure length of line or distance between two points
- measure distance between two parallel lines
- measure angle
- measure radius, girth and area of circle
- measure axis lengths, girth and area of ellipse
- calibration
- measure rectangle
- measure width and diameter of ring
- measure diameter, length, perimeter angle of arc
- measure area of polygon
- measure center distance between two circles
- measure length of open curve

automatic image stitching (expand field of view)

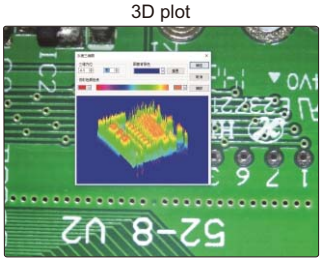


focus stacking



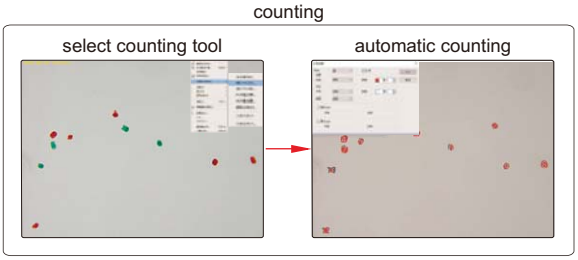
focus on the top | focus on the bottom | clear image of both top and bottom

3D plot

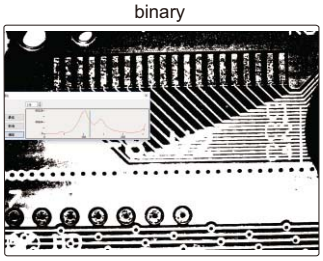


visualize the distribution of image brightness and color

counting



binary



separate target and background

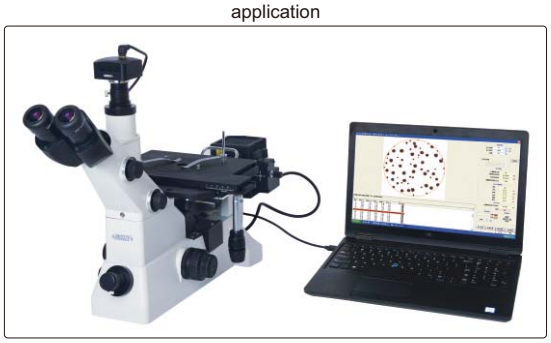
METALLURGICAL ANALYSIS SOFTWARE AND CAMERA
CODE ISM-MAS100

- More than 100 standards (ISO, ASTM, JIS, etc.)
- For metallurgical microscopes
- The camera can be inserted into the eyepiece tube or camera connector of microscopes
- Metallurgical analysis software is included, which can make comparative analysis, measurement and evaluation of various materials



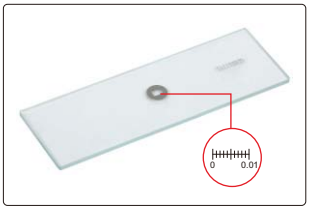
VIDEO

application



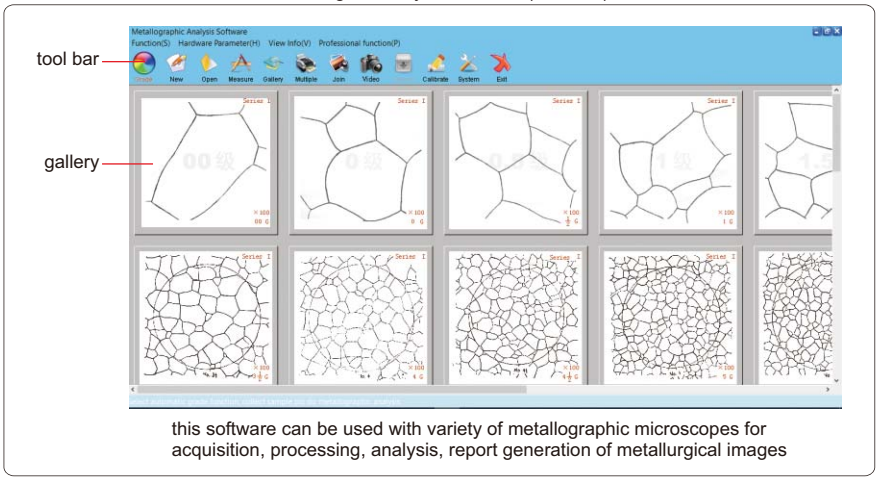


software flash disk
(included)



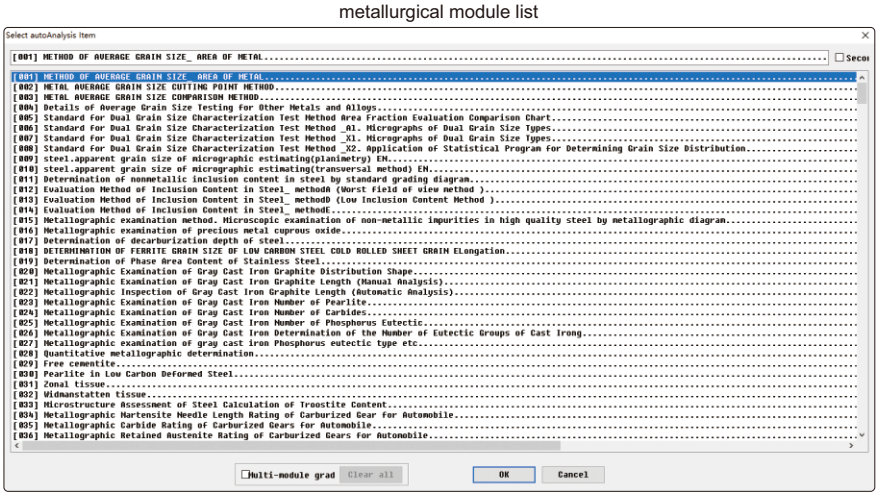
glass calibration rule
(included, graduation 0.01mm)

metallurgical analysis software (included)



this software can be used with variety of metallographic microscopes for acquisition, processing, analysis, report generation of metallurgical images

metallurgical module list



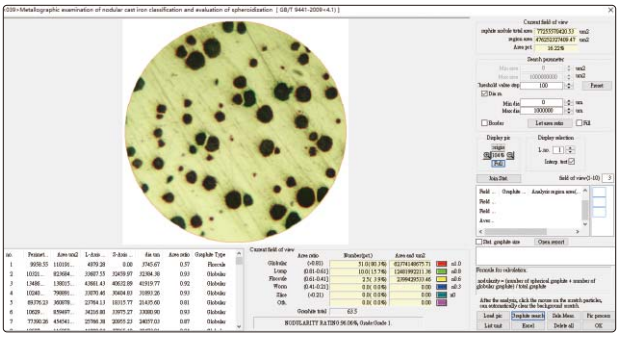
To be continued

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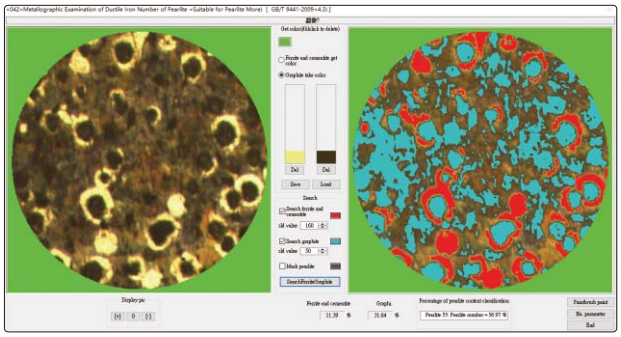
Continued from previous page

examples of metallurgical analysis

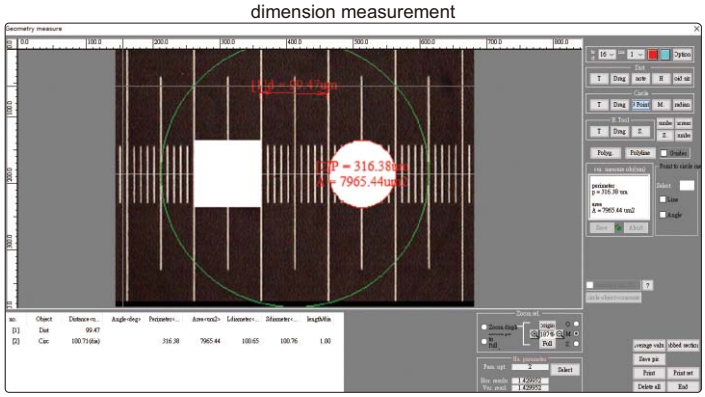
metallurgical analysis of ductile cast iron-spheroidizing grading



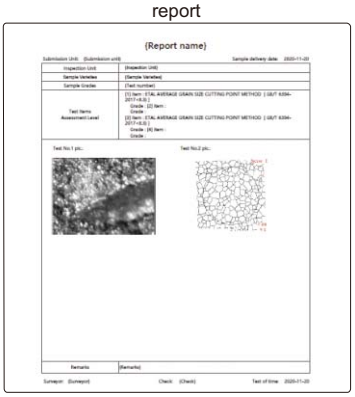
metallurgical analysis of ductile cast iron-pearlite quantity



dimension measurement



report



focus stacking

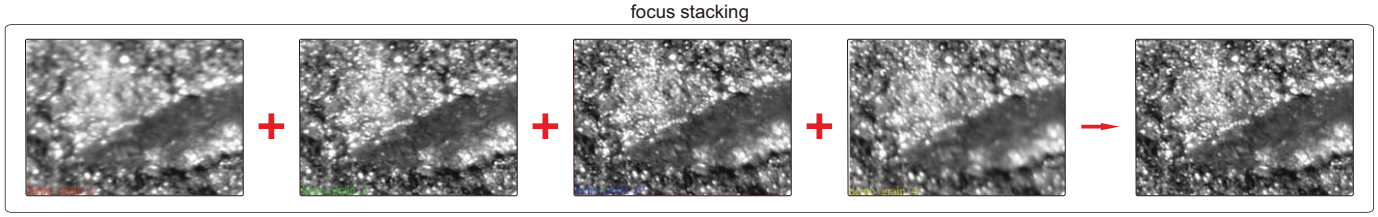
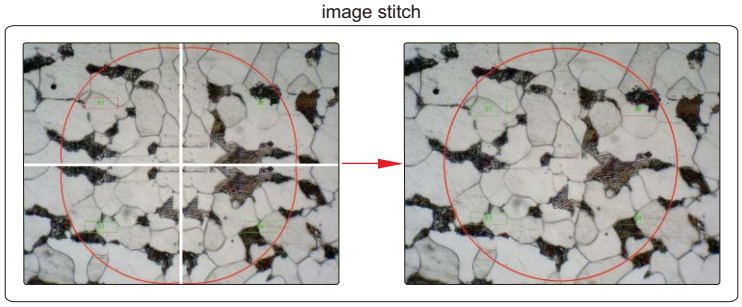
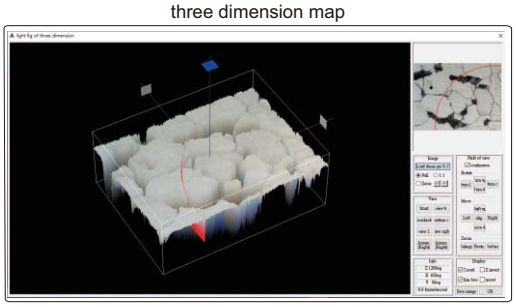


image stitch



three dimension map



SPECIFICATION

Sensor	1/2.8" CMOS
Pixel	3.1M
Resolution	2048×1536
Frame rate	10fps
Exposure	manual or automatic, adjustable exposure time
Power supply	USB port
Weight	400g

STANDARD DELIVERY

Camera (USB cable included)	1 pc
Software	1 pc
Glass calibration rule (graduation 0.01mm)	1 pc

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CAMERA ADAPTERS

- Ø23.2/30mm eyepiece adapter is included
- Suitable for digital cameras **ISM-CM20, ISM-CM63, ISM-ZS70-S**

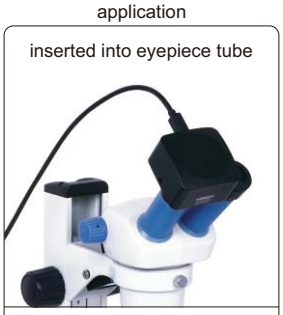


0.5X camera adapter (fixed focus distance) ISM-AD-0D5

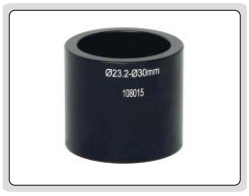


0.75X camera adapter (fixed focus distance) ISM-AD-0D75

application







Ø23.2/30mm eyepiece adapter (included)



0.5X camera adapter (adjustable focus distance) ISM-AD-A0D5



0.75X camera adapter (adjustable focus distance) ISM-AD-A0D75

SPECIFICATION

Code	ISM-AD-0D5	ISM-AD-A0D5 *	ISM-AD-0D75	ISM-AD-A0D75
Type	fixed focus distance	adjustable focus distance	fixed focus distance	adjustable focus distance
Magnification	0.5X	0.41X~0.58X	0.75X	0.64X~0.86X

* There may be shadows on the edge of image when **ISM-AD-A0D5** is used

PORTABLE MEASURING MICROSCOPES



ISM-PM100

SPECIFICATION

Code	ISM-PM20	ISM-PM40	ISM-PM50	ISM-PM100
Total magnification	20X	40X	50X	100X
Eyepiece	10X with graduation	10X with graduation	10X with graduation	10X with graduation
Objective (achromatic)	2X (numerical aperture: 0.05)	4X (numerical aperture: 0.1)	5X (numerical aperture: 0.12)	10X (numerical aperture: 0.25)
Working distance	17.2mm	18mm	17.6mm	7mm
Graduation	0.05mm	0.025mm	0.02mm	0.01mm
Viewing field	Ø9mm	Ø4.5mm	Ø3.6mm	Ø1.8mm
Focus range	30mm			
Illumination	LED light			
Diameter of base	Ø63mm			
Height	210mm			
Weight	650g			

STANDARD DELIVERY

Main unit	1 pc
Pen light	1 pc
Battery (AAA)	2 pcs

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TABLE MAGNIFIER WITH ILLUMINATION CODE 7517-3D

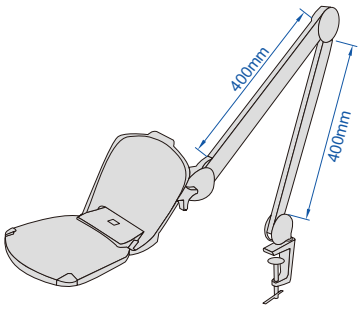
- Four steps brightness adjustment
- LED illumination, working life 20000h
- Resin lens



SPECIFICATION

Magnification	1.75X
Diopter	3D
Lens diameter	Ø125mm
Illumination	power: 3W, illumination: 260lm
Power supply	power adapter 12V, 1A

TABLE MAGNIFIERS WITH ILLUMINATION



- LED illumination, working life 20000h
- Resin lens



7520-320D



7521-3D

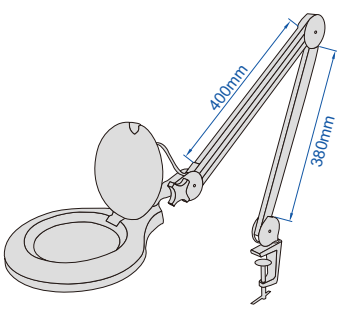
SPECIFICATION

Code	7520-320D	7521-3D
Magnification	two magnifications 1.75X/6X	1.75X
Diopter	3D/20D	3D
Lens dimension	160×127mm	Ø126mm
Illumination	power: 6W, illumination: 550lm	
Power supply	power adapter 12V, 1A	

24

TABLE MAGNIFIER WITH ILLUMINATION CODE 7516-5D

- LED illumination, working life 20000h



SPECIFICATION

Magnification	2.25X
Diopter	5D
Lens diameter	Ø122mm
Illumination	power: 7W, illumination: 420lm
Power supply	100~240V, 50~60Hz



7516-5D

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DIGITAL MAGNIFIER
CODE 7525-D4



- 720P60 camera
- Auto focus
- With screen freezing function
- 26 color modes can be switched to meet the needs of different people
- Port to TV
- Automatic shutdown after 3 minutes

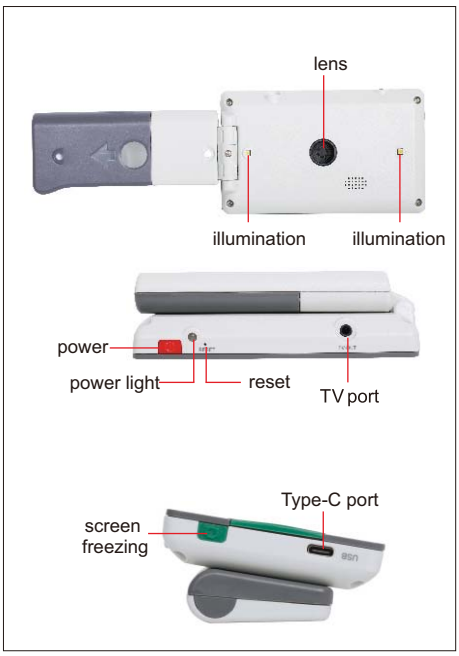
after the handle is folded, the magnifier can be directly placed on the object for observation



SPECIFICATION

Screen size	4.3 inch
Screen resolution	480x272
Magnification	2X-32X
Pixel	8M
Focus	manual/automatic
Color mode (26 modes)	color mode, color enhancement mode, negative mode, monochrome mode, black on white, white on black, blue on white, white on blue, yellow on black, black on yellow, yellow on blue, blue on yellow, green on white, white on green, orange on white, white on orange, red on black, black on red, orange on black, black on orange, yellow on green, green on yellow, red on white, white on red, yellow on white, white on yellow
Output	TV
Charging port	Type-C
Lithium battery	1600mAH (for 4 hours working)
Dimension (LxWxH)	123x39x76mm (when the handle is folded)
Weight	210g

side and back

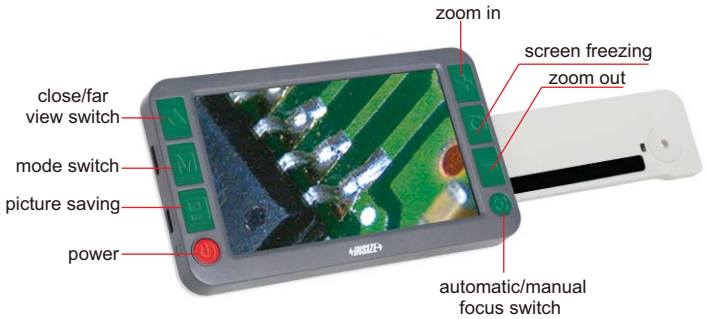


STANDARD DELIVERY

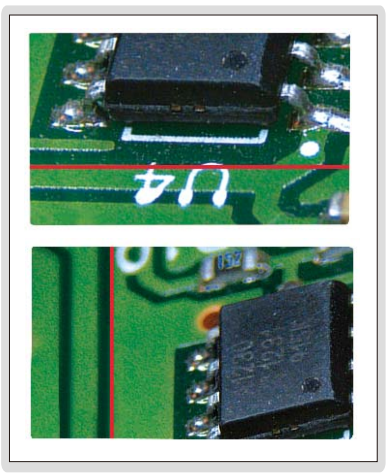
Main unit	1 pc
Video output cable	1 pc
USB charging cable	1 pc
Power adapter	1 pc

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DIGITAL MAGNIFIER
CODE 7526-D5



horizontal and vertical red lines



- 720P60 (close view) and 1080P30 (far view) cameras
- Double autofocus
- 26 color modes can be switched to meet the needs of different people
- Adopt folding bracket
- Detachable handle design, suitable for left-handed or right-handed use
- TV and HDMI ports to TV and display
- Automatic shutdown after 3 minutes

SPECIFICATION

Screen size	5 inch
Screen resolution	800x480
Magnification	2X-32X
Close view pixel	8M
Far view pixel	8M
Focus	manual/automatic
Color mode (26 modes)	color mode, color enhancement mode, negative mode, monochrome mode, black on white, white on black, blue on white, white on blue, yellow on black, black on yellow, yellow on blue, blue on yellow, green on white, white on green, orange on white, white on orange, red on black, black on red, orange on black, black on orange, yellow on green, green on yellow, red on white, white on red, yellow on white, white on yellow
Line	horizontal and vertical red lines
Function	screen freezing, image moving, photo playback, and high definition storage
Output	TV and HDMI
Storage	supports up to 32G TF card
Charging port	Type-C
Lithium battery	2500mAH (for 4 hours working)
Dimension (LxWxH)	145x30x85mm (when the handle is folded)
Weight	275g

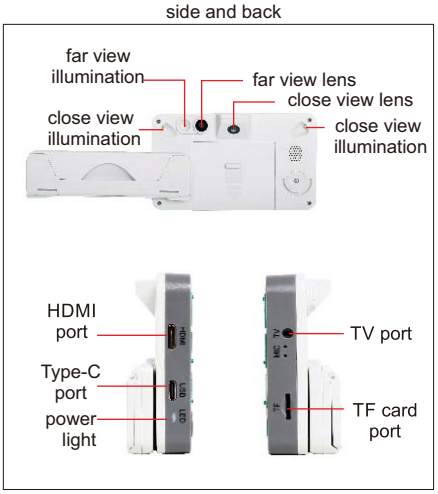
STANDARD DELIVERY

Main unit	1 pc
HDMI cable	1 pc
Video output cable	1 pc
USB charging cable	1 pc
Power adapter	1 pc

after the handle is folded, the magnifier can be directly placed on the object for observation



side and back



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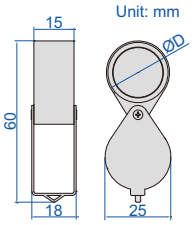
FOLDING MAGNIFIER

- Glass lens



7511-8





Code	Magnification	Lens diameter (ØD)
7511-8	10X	Ø21mm

FOLDING MAGNIFIER WITH ILLUMINATION

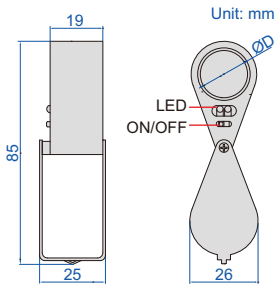
- Resin lens
- Powered by 3xLR927 batteries (included)





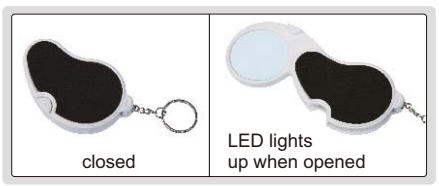


7515-10



Code	Magnification	Lens diameter (ØD)
7515-10	10X	Ø21mm

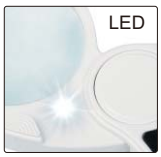
FOLDING MAGNIFIER WITH ILLUMINATION

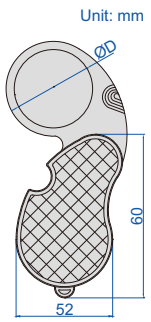


- Resin lens
- Powered by 2xCR1620 batteries (included)
- LED lights up automatically when opened



7514-1

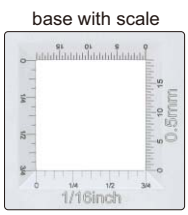




Code	Magnification	Lens diameter (ØD)
7514-1	2.5X	Ø45mm

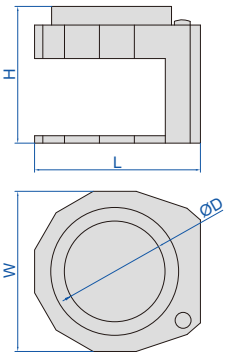
MAGNIFIER WITH ILLUMINATION

- Glass lens
- Powered by 3xAG7 batteries
- 3 pcs LED and 3 pcs UV
- Base with scale, graduation: 0.5mm, 1/16"





7524-10

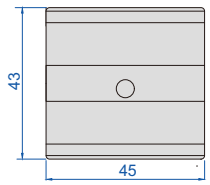


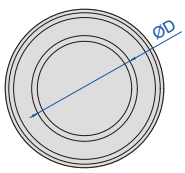
Code	Magnification	Lens diameter (ØD)	L	H	W
7524-10	10X	Ø30mm	60mm	50mm	56mm

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MEASURING MAGNIFIERS (WITH ILLUMINATION)

Unit: mm

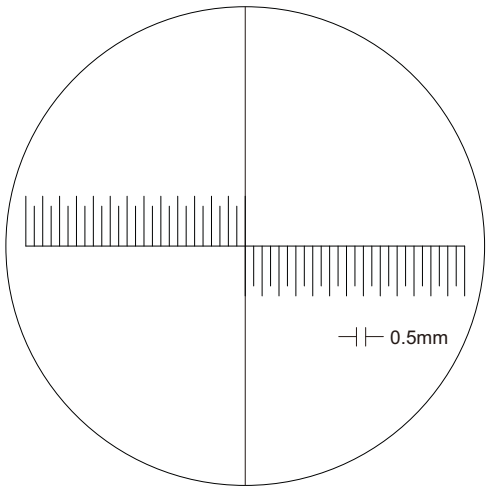






7527-D1

scale of **7527-D1**

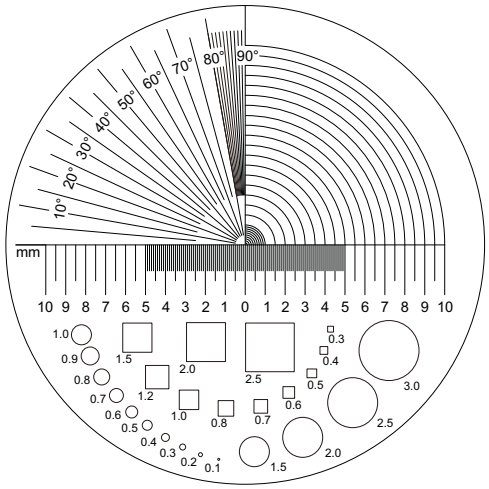


- Base with scale
- With 5 white LED and 5 UV LED
- Charging port: Type-C
- Work for 1.5h after fully charged

base with scale



scale of **7527-D2**
(0-5mm graduation: 0.1mm, 5-10mm graduation: 0.5mm)



Code	Magnification	Lens diameter (ØD)
7527-D1	10X	Ø30mm
7527-D2	10X	Ø30mm

MAGNIFIER WITH ILLUMINATION

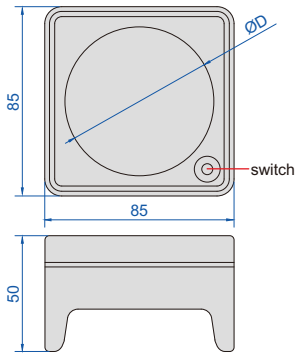
24

- Glass lens
- With 4 white LED, three levels brightness adjustment
- Charging port: Type-C



7528-3

Unit: mm



Code	Magnification	Lens diameter (ØD)
7528-3	3X	Ø70mm

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MAGNIFIERS WITH ILLUMINATION



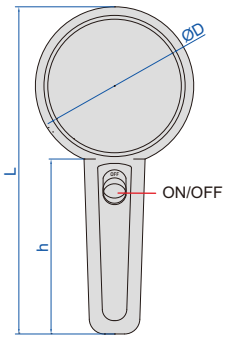
- Glass lens
- Powered by 3xAAA batteries (included)



7513-2



7513-4



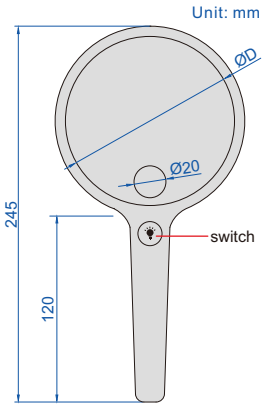
Code	Magnification	Lens diameter (ØD)	L	h
7513-2	2X	Ø75mm	170mm	90mm
7513-4	4X	Ø50mm	145mm	90mm

MAGNIFIER WITH ILLUMINATION

- Resin lens
- With 20 white LED, three levels brightness adjustment
- Charging port: Type-C



7529-24



Code	Magnification	Lens diameter (ØD)
7529-24	2X/4X	Ø105mm

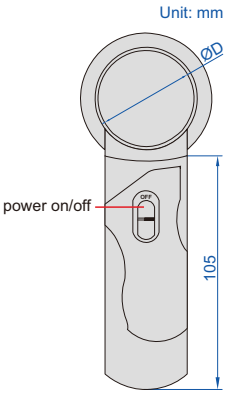
MAGNIFIER WITH TWO LENSES

- Resin lens
- Interchangeable lenses
- Powered by 3 pcs AAA batteries (included)





7522-610



Code	Lens number	Magnification	Lens diameter (ØD)
7522-610	2 pcs	6X	50mm
		10X	37mm

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MAGNIFIER WITH ILLUMINATION



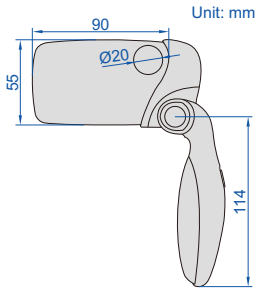


- Two magnifications
- LED illumination
- Powered by 2 pcs AAA batteries (included)
- Resin lens

Code	Magnification	Lens size
7518-26	2X/6X	90x55mm

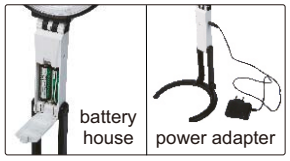


7518-26



THREE WAYS MAGNIFIER WITH ILLUMINATION







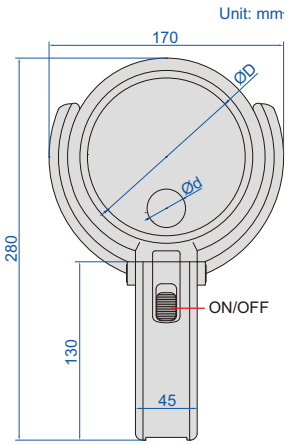
- Resin lens
- Powered by 2xAA batteries (included) or power adapter (110~240V, 50~60Hz)

Code	Magnification	Lens diameter (ØD/Ød)
7512-1	2X/4X	Ø120mm/Ø28mm



7512-1

VIDEO



MAGNIFIER



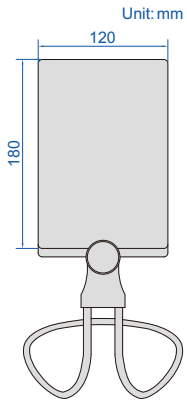


- Resin lens
- Silicone hose can be shaped according to needs
- Can be used on table or hanging around neck

Code	Magnification	Lens size
7530-1D8	1.8X	180x120mm



7530-1D8



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MAGNIFICATION GLASSES

interchangeable lenses



head band (included)

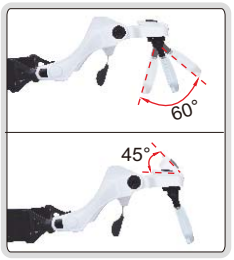




7523-3D5

VIDEO

adjustable lens and LED angle



- Resin lens
- Interchangeable lenses
- Powered by 3 pcs AAA batteries (included)

Code	Lens number	Magnification
7523-3D5	5 pcs	1X
		1.5X
		2X
		2.5X
		3.5X

adjustable holder angle



moveable lens for focus

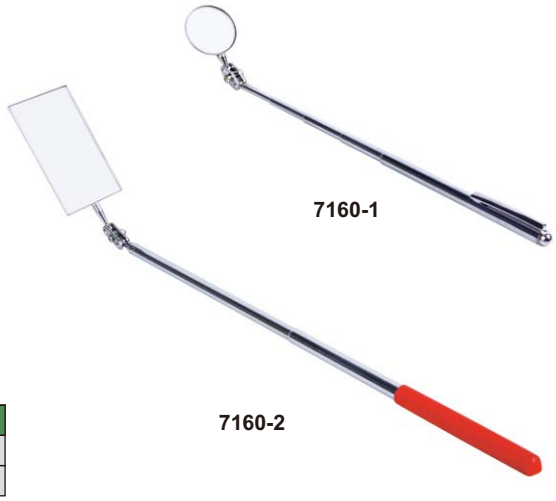


2 pcs LED



TELESCOPING INSPECTION MIRRORS

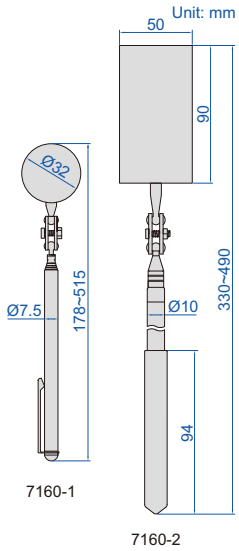
- Inspect hidden areas
- Rotation of the mirror: 360°
- Length of handle is adjustable, handle is made of stainless steel



7160-1

7160-2

Unit: mm



Code	Size of mirror	Length
7160-1	Ø32mm	178~515mm
7160-2	50x90mm	330~490mm

TELESCOPING INSPECTION MIRROR (WITH ILLUMINATION)

- Inspect hidden areas
- Head can bend and rotate
- Telescoping handle, made of stainless steel
- With two CR2032 batteries

head can bend and rotate



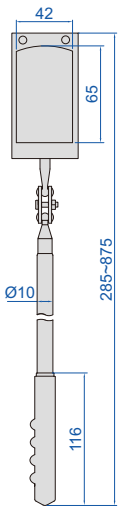
handle length is adjustable





7162-1

Unit: mm



Code	Size of mirror	Length
7162-1	65x42mm	285~875mm

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TELESCOPING MAGNETIC PICK-UP AND FLASHLIGHT





7163-1



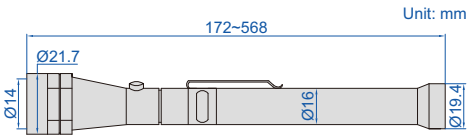
magnetic head



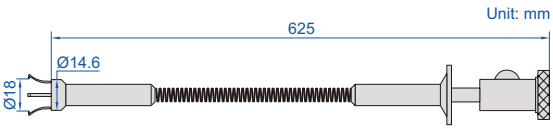
magnetic end to attach on steel surfaces

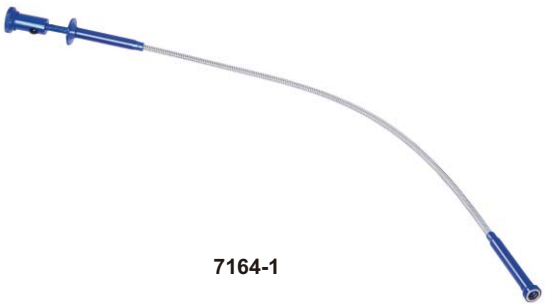
- For illumination and pick up steel parts in hidden areas
- Head can bend
- Telescoping handle, made of stainless steel
- Magnetic head and end
- With four LR44 batteries

Code	Magnetic force of the end	Magnetic force of the head	Flashlight range	Battery life	Length
7163-1	4kgf	2kgf	3m	8h	172~568mm



FLEXIBLE PICK-UP AND FLASHLIGHT

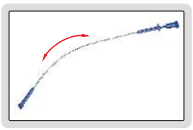




7164-1

- For illumination and pick up steel parts in hidden areas
- Flexible spring rod, made of stainless steel
- Three LR44 batteries

Code	Magnetic force	Flashlight range	Battery life
7164-1	0.9kgf	1m	24h



flexible spring rod



flashlight head

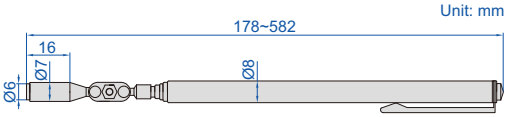


4 retractable claws



magnetic head

TELESCOPING MAGNETIC PICK-UP





7161-1

- Pick up steel parts from hidden areas
- Rotation of magnetic head: 360°
- Length of handle is adjustable, handle is made of stainless steel

Code	Size of magnetic tip	Magnetic force	Length
7161-1	Ø6mm	0.45kgf	178~582mm

25 VIDEOSCOPES

INSIZE



Videoscopes
Page 597-609



Pipe Videoscopes
Page 610

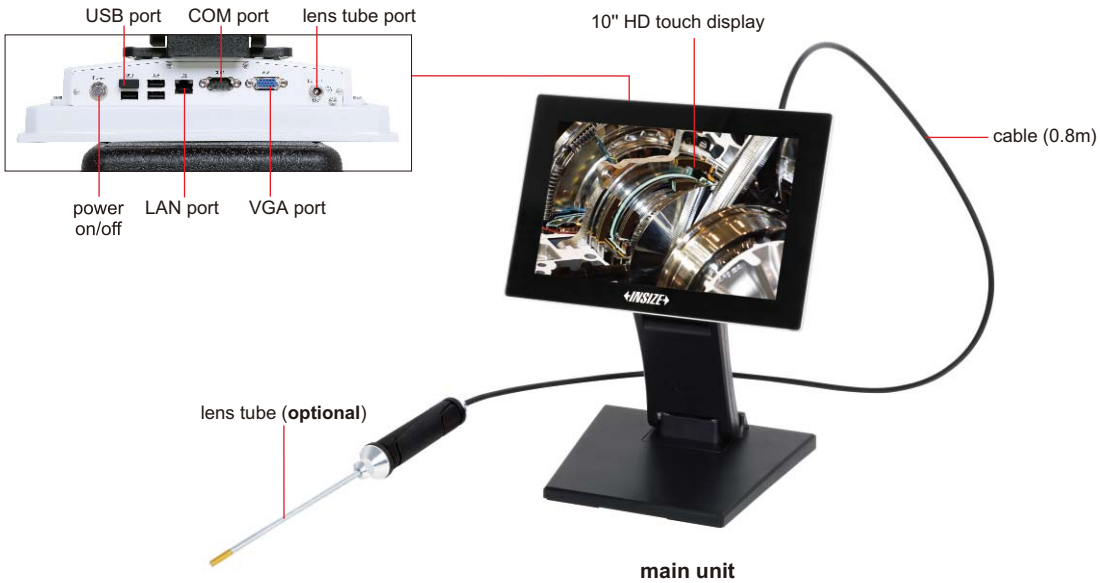


Rigid Borescopes
Page 611

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REAR FIBER ILLUMINATION

VIDEOSCOPE (DESK TYPE)



main unit

MAIN UNIT (WITHOUT LENS TUBE)

Code	**ISV-Y**
Display	10" HD touch display
Function	take picture, take video
File format	picture: JPG, video: MP4
Memory	built-in hard disk or USB flash disk
Image process	image zoom (1X, 2X, 3X)
Image control	noise reduction, negative film, flip over, freeze, on-line edit
Illumination	stepless adjustment
Additional function	real-time dynamic annotation, real-time watermark, rapid defect mark
Output	USB, HDMI
Power supply	AC/DC adapter (for continuous working)
Weight	1000g

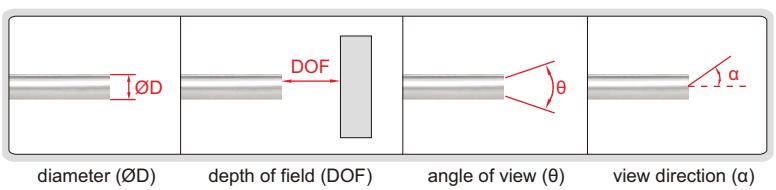
STANDARD DELIEVERY

Main unit	1 pc
USB disk	1 pc
Mouse	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Lens tube	refer to below details
Software for automatic defect identification	can be customized





diameter (ØD) | depth of field (DOF) | angle of view (θ) | view direction (α)

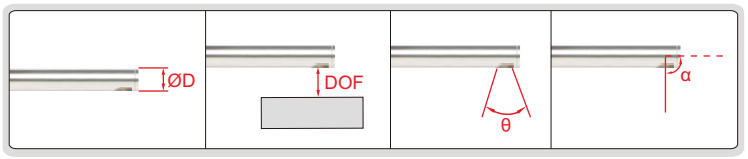
RIGID STRAIGHT LENS TUBE, FRONT VIEW

Code	Lens tube		Lens					
	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	dust/ waterproof
ISV-Y1210	1.2mm	90mm	0.04M	rear optical fiber	120°	3~70mm	0°	IP67
ISV-Y1810	1.8mm	120mm (**optional** 90-150mm)	0.16M			3~70mm	0°	
ISV-Y2010	2.0mm	120mm (**optional** 90-150mm)	0.16M			3~70mm	0°	
ISV-Y2410	2.4mm	150mm (**optional** 90-300mm)	0.16M			3~70mm	0°	
ISV-Y2810	2.8mm	150mm (**optional** 90-300mm)	0.16M			3~70mm	0°	
ISV-Y3910	3.9mm	200mm (**optional** 90-500mm)	1M			8~150mm	0° (**optional** 30°, 70°)	
ISV-Y6010	6.0mm	300mm (**optional** 90-1000mm)	1M			12~200mm	0° (**optional** 30°, 70°)	

To be continued

Continued from previous page



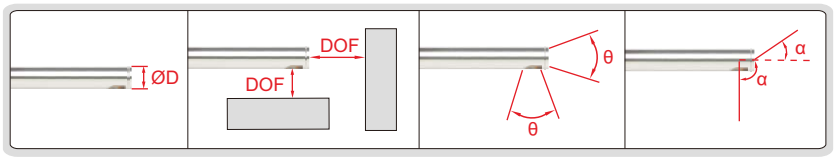


diameter (ØD) depth of field (DOF) angle of view (θ) view direction (α)

RIGID STRAIGHT LENS TUBE, SIDE VIEW

Code	Lens tube		Lens					
	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	dust/ waterproof
ISV-Y2810C	2.8mm	150mm (**optional** 90-300mm)	0.16M	rear optical fiber	120°	3~70mm	90°	IP67
ISV-Y3910C	3.9mm	200mm (**optional** 90-500mm)	1M			8~150mm		
ISV-Y4510C	4.5mm	250mm (**optional** 90-800mm)	1M			8~150mm		
ISV-Y6010C	6.0mm	300mm (**optional** 90-1000mm)	1M			12~200mm		



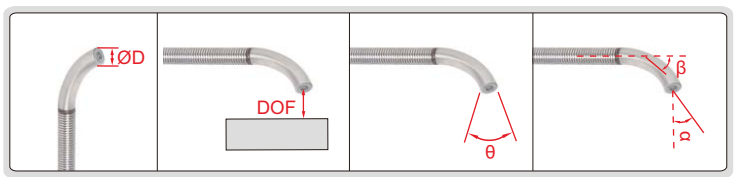


diameter (ØD) depth of field (DOF) angle of view (θ) view direction (α)

RIGID STRAIGHT LENS TUBE, FRONT VIEW & SIDE VIEW

Code	Lens tube		Lens					
	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	dust/ waterproof
ISV-Y6010S	6.0mm	300mm (**optional** 90-1000mm)	1M	rear optical fiber	120°	front view: 12~200mm side view: 8~150mm	front view: 0° side view: 90°	IP67





diameter (ØD) depth of field (DOF) angle of view (θ) view direction (α)
bending angle (β)

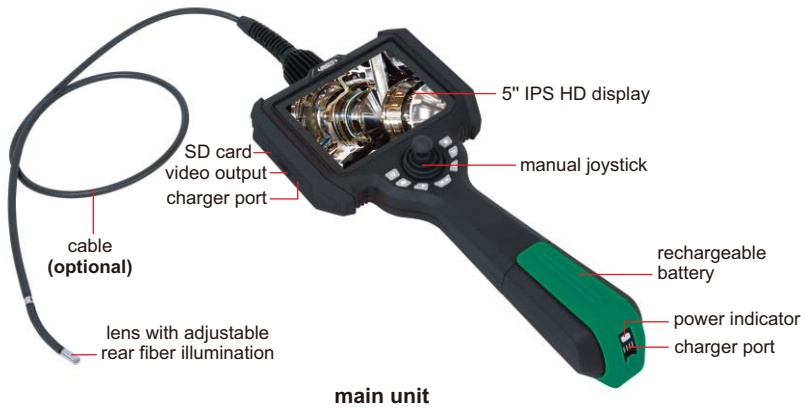
BENDING SPRING LENS TUBE

Code	Lens tube		Lens						
	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	bending angle (β)	dust/ waterproof
ISV-Y3010W	3.0mm	1000mm	0.16M	rear optical fiber	120°	8~150mm	0°	75° (can be customized)	IP65
ISV-Y5010W	5.0mm		1M			8~150mm			
ISV-Y7010W	7.0mm		1M			12~200mm			

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VIDEOSCOPE

REAR FIBER ILLUMINATION



main unit



changeable lens cable



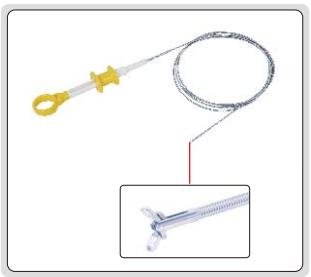
tripod (included)



ISV-L-HOOK (optional)



ISV-L-MAGNET (optional)



ISV-L-CLAMP (optional)

VIDEO

MAIN UNIT (WITHOUT CABLE)

Code	**ISV-L**
Display	5" high definition LCD
Resolution	1024×720
Function	take pictures, take videos
File format	picture: JPG, video: MP4
Image process	image zoom (1X, 2X, 3X, 4X)
Image control	freeze, flip over, playback and analog ruler
Memory	memory card
Output	USB, HDMI
Power supply	rechargeable lithium battery (working time ≥ 4hours) AC/DC adapter (for continuous working)
Weight	1000g

OPERATION ENVIRONMENT

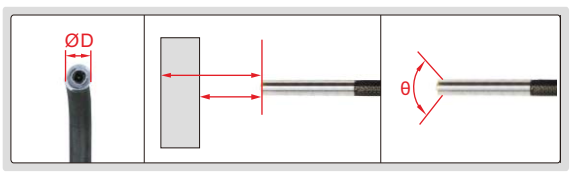
Main unit	-10~50°C, no preheat
Operation temperature	-20~70°C
Storage temperature	-20~60°C
Relative humidity	maximum 90%, no condensation

STANDARD DELIEVERY

Main unit	1 pc
32G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Tripod	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Cable	please refer to details
WIFI output	**ISV-L-WIFI** (must be installed in factory, only for Android OS)
Temperature alarm	**ISV-L-HTALARM** (must be installed in factory, for Ø3.9mm, Ø4.5mm and Ø6.0mm)
Hook	**ISV-L-HOOK** (must be installed in factory, for Ø3.9mm, Ø4.5mm and Ø6.0mm)
Magnet	**ISV-L-MAGNET** (must be installed in factory, for Ø3.9mm, Ø4.5mm and Ø6.0mm)
Clamp	**ISV-L-CLAMP**



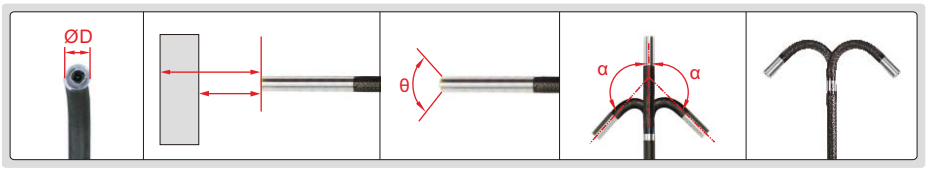
diameter (ØD) depth of field (DOF) angle of view (θ)

ONE-DIRECTION CABLE (NO BENDING), FRONT VIEW

Code	Cable		Lens							
	length	type	view direction	diameter (ØD)	depth of field (DOF)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L09505	0.5m	spring tube	front view	0.95mm	3~30mm	>120°	rear fiber	0.16M	400×400	IP65
ISV-L09510	1m									
ISV-L1210	1m			1.2mm	3~30mm					
ISV-L1510	1m	tungsten wire weaved cable		1.5mm	3~70mm					
ISV-L1515	1.5m									

To be continued

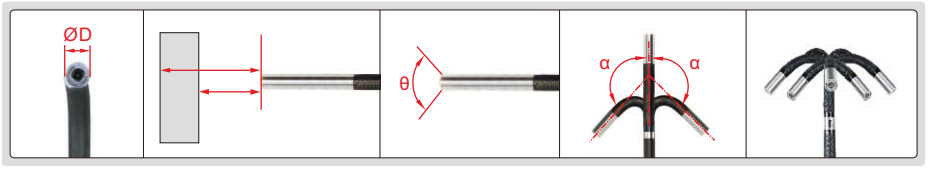
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diameter (ØD) | depth of field (DOF) | angle of view (θ) | bend range (α) | bend in 2 directions

TWO-DIRECTION BENDING CABLE, FRONT VIEW

Code	Cable		Lens									
	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L1810	1m	tungsten wire weaved cable	front view	two directions	1.8mm	3~30mm	±160°	>120°	rear fiber	0.16M	400×400	IP65
ISV-L2010	1m				2.0mm	3~30mm						
ISV-L2410	1m				2.4mm	3~70mm (**optional** 5~100mm)						
ISV-L2415	1.5m											
ISV-L2420	2m											



diameter (ØD) | depth of field (DOF) | angle of view (θ) | bend range (α) | bend in 4 directions

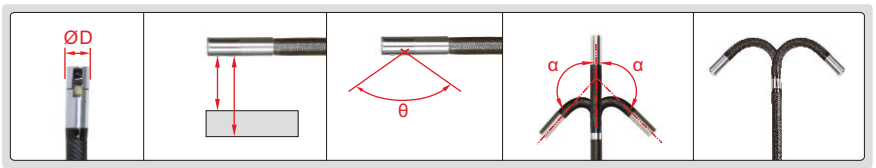
FOUR-DIRECTION BENDING CABLE, FRONT VIEW

Code	Cable		Lens									
	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L2810	1m	tungsten wire weaved cable	front view	four directions	2.8mm	3~70mm (**optional** 5~100mm)	±160°	>120°	rear fiber	0.16M	400×400	IP65
ISV-L2815	1.5m											
ISV-L2820	2m											
ISV-L2830	3m											
ISV-L3910	1m				3.9mm	8~150mm (**optional** 3~70mm)				0.92M	1280×720	IP67
ISV-L3915	1.5m											
ISV-L3920	2m											
ISV-L3930	3m											
ISV-L3940	4m											
ISV-L3950	5m											
ISV-L6010	1m				6.0mm	12~200mm (**optional** 3~70mm, 8~150mm)				0.92M	1280×720	IP67
ISV-L6015	1.5m											
ISV-L6020	2m											
ISV-L6030	3m											
ISV-L6040	4m											
ISV-L6050	5m											
ISV-L6060	6m											
ISV-L6070	7m											

To be continued

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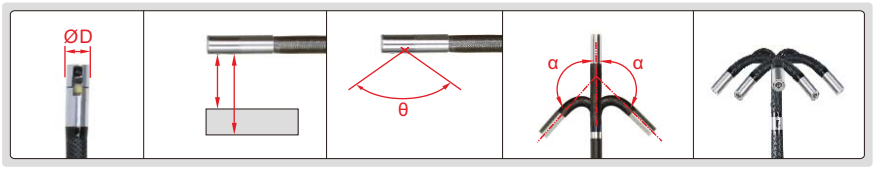
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diameter (ØD) | depth of field (DOF) | angle of view (θ) | bend range (α) | bend in 2 directions

TWO-DIRECTION BENDING CABLE, SIDE VIEW

Code	Cable		Lens									
	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L1810C	1m	tungsten wire weaved cable	side view	two directions	1.8mm	3~30mm	±160°	>120°	rear fiber	0.16M	400×400	IP65
ISV-L1815C	1.5m											



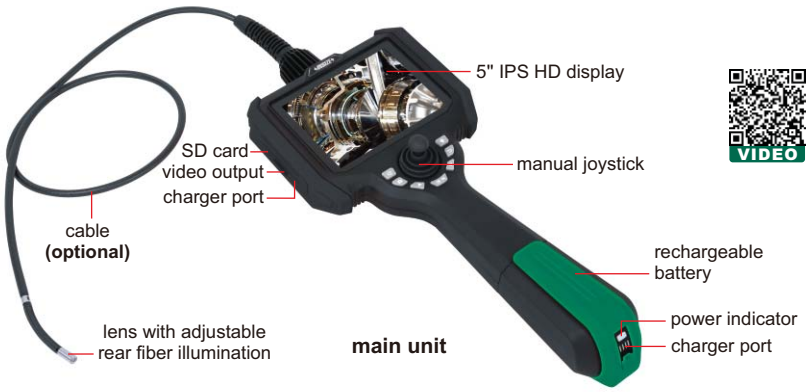
diameter (ØD) | depth of field (DOF) | angle of view (θ) | bend range (α) | bend in 4 directions

FOUR-DIRECTION BENDING CABLE, SIDE VIEW

Code	Cable		Lens									
	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L2810C	1m	tungsten wire weaved cable	side view	four directions	2.8mm	3~70mm	±160°	>120°	rear fiber	0.16M	400×400	IP65
ISV-L2815C	1.5m											
ISV-L2820C	2m											
ISV-L2830C	3m											
ISV-L4510C	1m				4.5mm	5~100mm (**optional** 8~150mm)				0.92M	960×720	IP67
ISV-L4515C	1.5m											
ISV-L4520C	2m											
ISV-L4530C	3m											
ISV-L6010C	1m				6.0mm	8~150mm (**optional** 5~100mm)						
ISV-L6015C	1.5m											
ISV-L6020C	2m											
ISV-L6030C	3m											
ISV-L6040C	4m											
ISV-L6050C	5m											

FRONT AND SIDE VIEW VIDEOSCOPE

REAR FIBER ILLUMINATION



MAIN UNIT (WITHOUT CABLE)

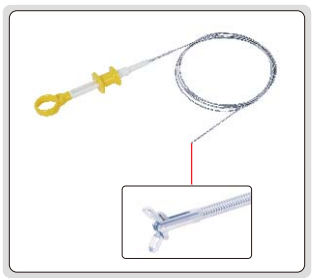
Code	**ISV-S**
Display	5" high definition LCD
Resolution	1024×720
Function	take pictures, take videos
File format	picture: JPG, video: Mp4
Image process	image zoom (1X, 2X, 3X, 4X)
Image control	freeze, flip over, playback and analog ruler
Memory	memory card
Output	USB, HDMI
Power supply	rechargeable lithium battery (working time ≥ 4hours) AC/DC adapter (for continuous working)
Weight	1000g


changeable lens cable


tripod (included)


ISV-S-HOOK (optional)


ISV-S-MAGNET (optional)


ISV-S-CLAMP (optional)

STANDARD DELIEVERY

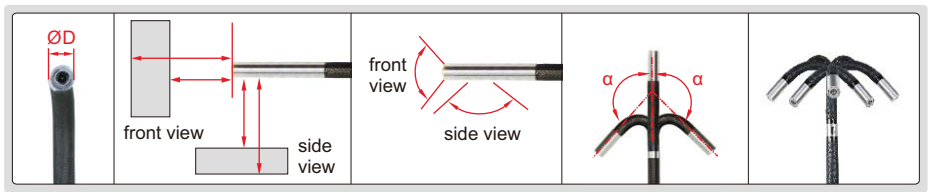
Main unit	1 pc
32G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Tripod	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Cable	please refer to details
WIFI output	**ISV-S-WIFI** (must be installed in factory, only for Android OS)
Temperature alarm	**ISV-S-HTALARM** (must be installed in factory)
Hook	**ISV-S-HOOK** (must be installed in factory)
Magnet	**ISV-S-MAGNET** (must be installed in factory)
Clamp	**ISV-S-CLAMP**

OPERATION ENVIRONMENT

Main unit	-10~50°C, no preheat
Operation temperature	-20~70°C
Storage temperature	-20~60°C
Relative humidity	maximum 90%, no condensation



diameter (ØD) depth of field (DOF) angle of view (θ) bend range (α) bend in 4 directions

FOUR-DIRECTION BENDING CABLE, FRONT VIEW&SIDE VIEW

Code	Cable		Lens									
	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-S6010	1m	tungsten wire weaved cable	front view and side view	four directions	6.0mm	front view: 12~200mm (**optional** 3~70mm) side view: 8~150mm (**optional** 3~70mm)	±160°	>120°	rear fiber	0.92M	1280×720	IP67
ISV-S6015	1.5m											
ISV-S6020	2m											
ISV-S6030	3m											
ISV-S6040	4m											
ISV-S6050	5m											

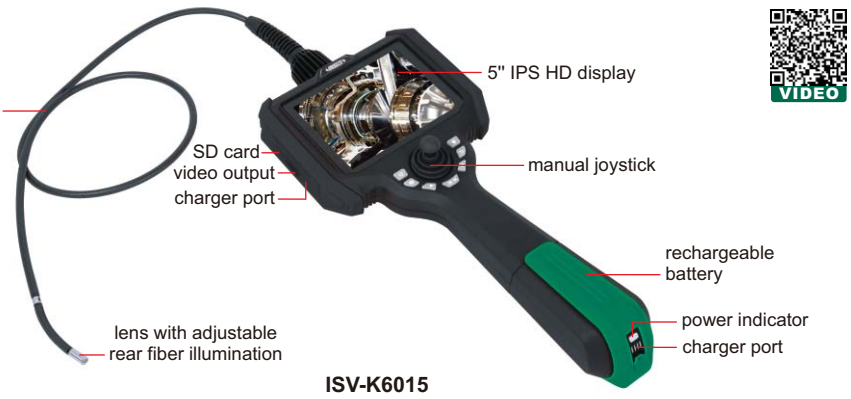
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VIDEOSCOPES



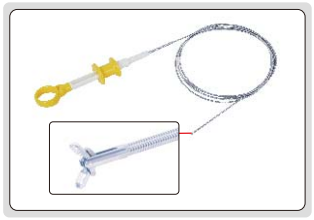
changeable lens cable

REAR FIBER ILLUMINATION



ISV-K6015

VIDEO



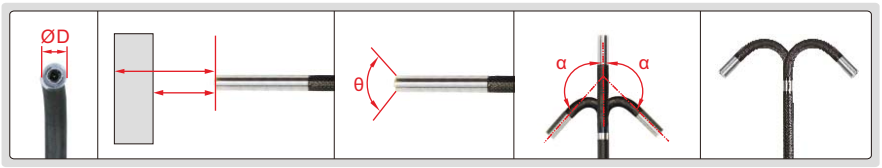
ISV-K-CLAMP (optional)



ISV-K-HOOK (optional)



ISV-K-MAGNET (optional)



diameter (ØD) | depth of field (DOF) | angle of view (θ) | bend range (α) | bend

SPECIFICATION

Code		ISV-K1810	ISV-K2410	ISV-K2810	ISV-K3915	ISV-K6015
Lens	diameter (ØD)	1.8mm	2.4mm	2.8mm	3.9mm	6.0mm
	pixel	0.16M			0.92M	
	resolution	400×400			1280×720	
	depth of field	3-30mm	3-70mm	3-70mm	8-150mm	12-200mm
	bending direction	two directions	two directions	four directions	four directions	four directions
	bending range (α)	±160°				
	angle of view (θ)	120°				
	illumination	rear fiber				
	lens	sapphire glass lens				
	dust/waterproof	IP65			IP67	
	bend control	manual joystick				
Cable	length	1m	1m	1m	1.5m	1.5m
	type	tungsten wire weaved cable				
Main unit	display	5" high definition LCD				
	function	take pictures, take videos				
	file format	picture: JPG, video: MP4				
	image process	image zoom (1X, 2X, 3X, 4X)				
	image control	freeze, flip over, playback and analog ruler				
	memory	memory card				
	output	USB, HDMI				
	power supply	rechargeable lithium battery (working time ≥ 4 hours), AC/DC adapter (for continuous working)				
Weight		1000g				

STANDARD DELIEVERY

Main unit	1 pc
32G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Tripod	1 pc
AC/DC adapter	1 pc

OPERATION ENVIRONMENT

Main unit	-10~50°C, no preheat
Operation temperature	-20~70°C
Storage temperature	-20~60°C
Relative humidity	maximum 90%, no condensation

OPTIONAL ACCESSORY

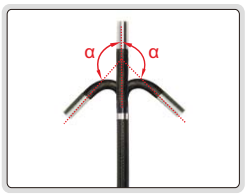
WIFI output	**ISV-K-WIFI** (must be installed in factory, only for Android OS)
Temperature alarm	**ISV-K-HTALARM** (must be installed in factory, for **ISV-K3915** and **ISV-K6015**)
Hook	**ISV-K-HOOK** (must be installed in factory, for **ISV-K3915** and **ISV-K6015**)
Magnet	**ISV-K-MAGNET** (must be installed in factory, for **ISV-K3915** and **ISV-K6015**)
Clamp	**ISV-K-CLAMP**

MOBILE PHONE VIDEOSCOPE
CODE ISV-P6

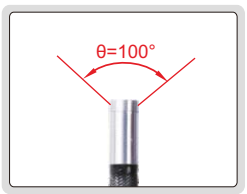
VIDEO



the clamping range of mobile phone bracket L=56-95mm



bending of lens up to 180°



angle of view



lens with LED



bend in any direction

- For Android and IOS mobile phones

SPECIFICATION

Diameter of lens (ØD)	6±0.2mm
Length of cable	1m
Resolution	960×720, 1280×720 (switchable)
Depth of field	20mm~∞
Angle of view (θ)	100°
Bending range (α)	0~180°
Illumination	LED with 3 levels control
Cable type	wear resistant
Interface	USB, Type-C
Mobile phone system	Android, IOS
Power supply	rechargeable battery (for 2 hours working)
Dimension (L×W×H)	195×57×105mm
Weight	450g

STANDARD DELIVERY

Main unit (with cable)	1 pc
Type-C cable	1 pc
Micro USB cable	1 pc
Iphone cable	1 pc
Charging cable	1 pc

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TUNGSTEN WIRE WEAVED CABLE
BREAK AND WEAR RESISTANCE

VIDEOSCOPES (BASIC TYPE)

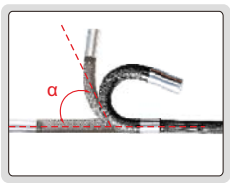


VIDEO

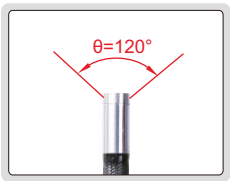
ISV-S106

SPECIFICATION

Code		ISV-T105	ISV-S106
Lens	diameter (ØD)	6mm	
	pixel	1M	
	resolution	1280×720	
	depth of field	20~150mm	
	bending direction	360°	
	bending range (α)	0°~220°	
	angle of view (θ)	120°	
	illumination	7 pcs LED, with 6 levels control	
	illuminance	25000 Lux	
	lens	sapphire glass lens	
	dust/waterproof	IP67	
	bend control	manual joystick	
	temperature alarm	temperature sensor (**optional**)	
Cable	length	1m	1.5m
	type	tungsten wire weaved cable	
Main unit	display	3.5" IPS full-view display	
	display resolution	640×480	
	function	take pictures, take videos	
	file format	picture: JPG, video: MP4	
	image process	image zoom (1X, 2X, 3X, 4X, 5X)	
	memory	memory card (Maximum: 64G)	
	output	USB, HDMI, WIFI (**optional**)	
	dust/waterproof	IP65	
	power supply	rechargeable lithium battery (working time ≥ 3 hours; optional: additional battery, working time ≥ 9 hours) AC/DC adapter (for continuous working)	
Weight		1000g	



220° bending angle



120° view angle



LED 6 levels control


360° bending direction

STANDARD DELIVERY

Main unit (with cable & lens)	1 pc
16G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Battery	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Additional battery	**ISV-S106-BATTERY** (must be installed in factory)
WIFI output	**ISV-S106-WIFI**
Temperature alarm	**ISV-S106-HT-ALARM**

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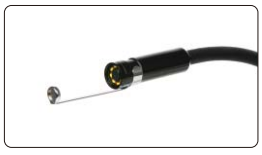
VIDEOSCOPE (BASIC TYPE)
CODE ISV-E40

MEMORY CABLE CAN BE FIXED AT ANY SHAPE

IP67 WATERPROOF

VIDEO




magnet pick up (included)


hook (included)


45° mirror (included)

SPECIFICATION

Lens	diameter (ØD)	8mm
	pixel	0.92M
	resolution	1280x720
	depth of field	30~80mm
	angle of view	77°
	illumination	3 levels
	dust/waterproof	IP67
Cable	length	1180mm
	type	memory (can be set at any shape)
Main unit	display	5" IPS LCD
	function	take picture, take video
	file format	picture: JPG, video: MOV
	image process	image zoom (1.5X, 2X, 3X, 4X)
	memory	memory card (**optional**)
	output	Type-C
	power supply	rechargeable lithium battery (for 5 hours working)
	dimension	217×155×131mm
Weight		506g

STANDARD DELIVERY

Main unit	1 pc
45° mirror	1 pc
Hook	1 pc
Magnet pick up	1 pc

OPTIONAL ACCESSORY

32G memory card	ISV-E40-CARD
Card reader	ISV-E40-READER

OPERATION ENVIRONMENT

Operation temperature	-10~50°C
Storage temperature	-20~60°C
Operation humidity	15%~85%

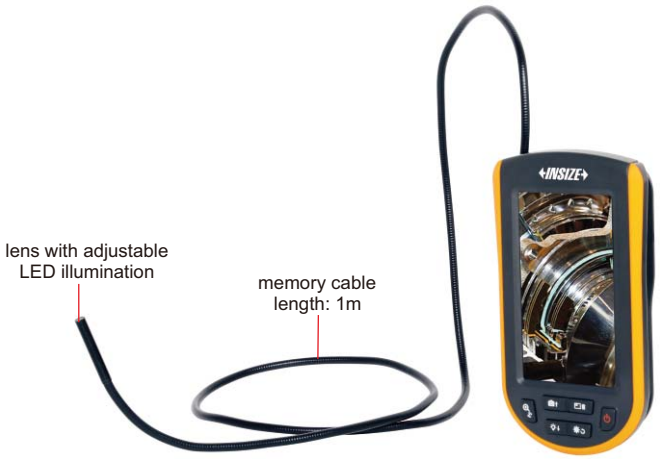
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MEMORY CABLE CAN BE FIXED AT ANY SHAPE

IP67 WATERPROOF

VIDEO

VIDEOSCOPE (ECONOMIC TYPE)
CODE ISV-E30




magnet pick up (included)


hook (included)


cable can be wrapped around the main unit

SPECIFICATION

Lens	diameter	5.2mm
	pixel	0.4M
	depth of field	30~80mm
	angle of view	72°
	illumination	8 levels
	dust/waterproof	IP67
Cable	length	1m
	type	memory (can be set at any shape)
Main unit	display	4.3" LCD
	function	take picture, take video
	file format	picture: JPG, video: AVI
	image zoom	2X
	memory card	memory card (**optional**)
	output	micro USB
	power supply	AA battery
	dimension	154×32.5×87.5mm
Weight		280g

STANDARD DELIVERY

Main unit	1 pc
Hook	1 pc
Magnet pick up	1 pc
AA battery	4 pcs

OPTIONAL ACCESSORY

32G memory card	ISV-E40-CARD
Card reader	ISV-E40-READER

OPERATION ENVIRONMENT

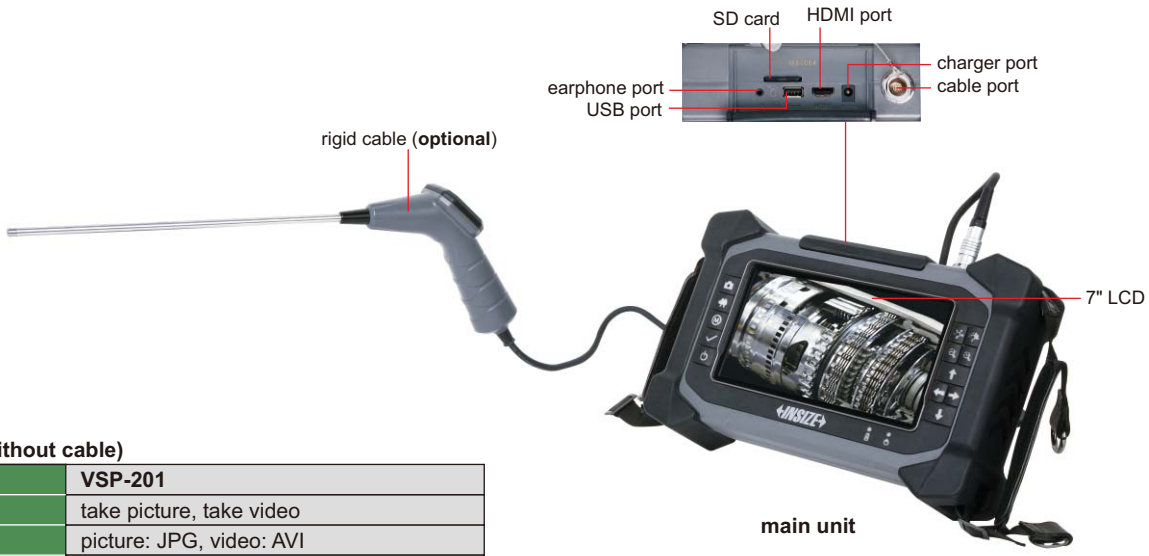
Operation temperature	-10~50°C
Storage temperature	-20~60°C
Operation humidity	15%~85%

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MULTIPURPOSE VIDEOSCOPE

VIDEO

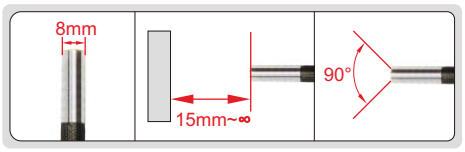
VIDEO



main unit

MAIN UNIT (without cable)

Code	**VSP-201**
Function	take picture, take video
File format	picture: JPG, video: AVI
Image process	brightness, contrast
Memory	64GB
Output	HDMI, USB
Power supply	rechargeable battery (for 4 hours working)
Dimension	260×170×65mm
Weight	1.2kg



diameter (ØD) focus distance (F) angle of view (θ)



bend in any direction | 360° swivel in clockwise and counter-clockwise | bend within 120°



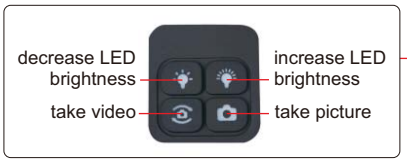
FOUR-DIRECTION BENDING CABLE (FRONT VIEW)

Code		**VSP-201D**
Cable	**length**	3m
	type	tungsten wire weaved cable
Lens	**diameter (ØD)**	8mm
	focus distance (F)	15mm~∞
	angle of view (θ)	90°
	illumination	6 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP67



To be continued

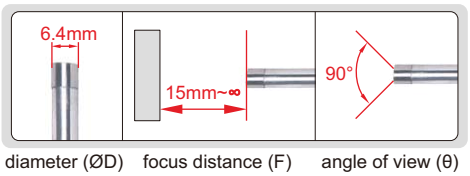
Continued from previous page





RIGID CABLE

Code		VSP-201H
Cable	length (L)	250mm
	type	stainless steel
Lens	diameter (ØD)	6.4mm
	focus distance (F)	15mm~∞
	angle of view (θ)	90°
	illumination	6 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP64

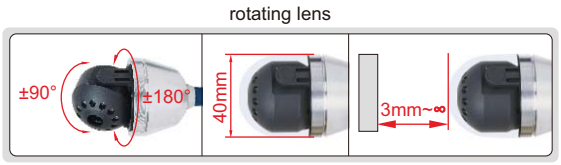


ROTATING LENS CABLE

Code		VSP-201R
Cable	length	30m
	type	high strength glass fibre
Lens	diameter (ØD)	40mm
	focus distance (F)	3mm~∞
	angle of view (θ)	100°
	illumination	12 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP67
	lens control	motorized





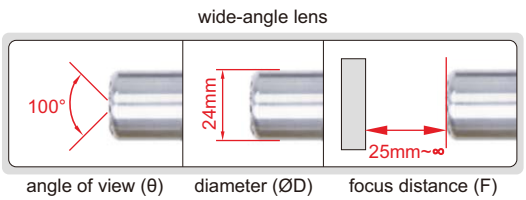


WIDE-ANGLE LENS CABLE

Code		VSP-201W
Cable	length	30m
	type	high strength glass fibre
Lens	diameter (ØD)	24mm
	focus distance (F)	25mm~∞
	angle of view (θ)	100°
	illumination	12 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP67



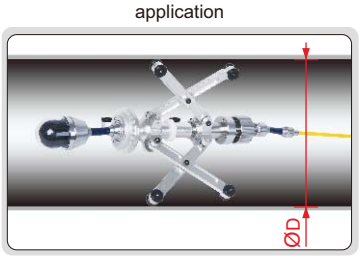




ADJUSTABLE SUPPORT

Code	Working diameter (ØD)	Remark
VSP-201-R200	60~200mm	for VSP-201R or VSP-201W





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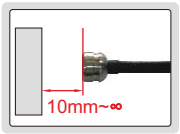
PIPE VIDEOSCOPE
CODE ISV-VP280

IP68 WATERPROOF

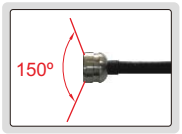
ATTENTION: RESISTANCE TO ACID AND ALKALI LIQUID (CONSULT IS NEEDED)

VIDEO

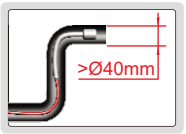




focus distance



angle of view



can turn at least two times in the pipe (>Ø40mm)


vertical use

horizontal use


Ø50mm centering ring (**optional**) fixed on the lens to center lens in the pipe


Ø100mm brush (included) fixed on the lens to clean the internal wall of pipes

SPECIFICATION

Lens	diameter	28mm
	dust/waterproof	IP68
	pixel	0.3M
	resolution	640×480
	frame	30fps
Cable	length	30m
	dust/waterproof	IP68
	type	semi-rigid
Main unit	function	take picture and video
	file format	picture: JPG, video: ASF
	image process	mirror, rotate, zoom (1.5X, 2X)
	memory	4G SD card
	output	TV, USB
	power supply	4×AA batteries
Weight		5kg

STANDARD DELIVERY

Main unit	1 pc
Cable with lens	1 pc
Stand	1 pc
Indicator of cable working length	1 pc
4G SD card	1 pc
Ø100mm brush	1 pc
AA battery	4 pcs
AAA battery	2 pcs
Video output cable	1 pc
USB cable	1 pc

OPTIONAL ACCESSORY

Ø50mm centering ring	ISV-VP280-R50
Ø150mm brush	ISV-VP280-B150

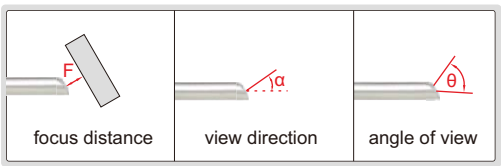
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IP67 WATERPROOF

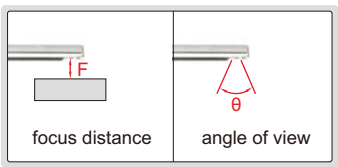
RIGID BORESCOPES



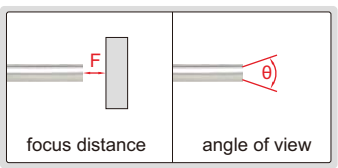
ISV-1H4300



view direction α=30° or 70°



view direction α=90°



view direction 0°

- Focus distance: 2mm, depth of view: 5~100mm
- Dust/waterproof level: IP67
- Can be used in liquid with temperature -10°C~85°C



LED light handle (**optional**)



adjustable LED light source (**optional**)



camera and display (**optional**)

25

SPECIFICATION

Code	Length (L)	View direction (α)	Diameter (ØD)	Angle of view (θ)
ISV-1H4170	174mm	0°	4mm	≥60°
ISV-1H4173	174mm	30°		
ISV-1H4177	174mm	70°		
ISV-1H4179	166mm	90°		
ISV-1H4300	302mm	0°		
ISV-1H4303	302mm	30°		
ISV-1H4307	302mm	70°		

OPTIONAL ACCESSORY

LED light handle	**ISV-1HLED**
Adjustable LED light source	**ISV-1LED1**
Camera and display	**ISV-2CAM**

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LED LIGHT HANDLE
CODE ISV-1HLED

- For rigid borescopes


battery (included)


charger (included)





SPECIFICATION

Power	3W
Battery	3.7V rechargeable battery (for 2 hours working)
Dimension	120×27×27mm
Weight	300g

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc
Charger	1 pc

ADJUSTABLE LED LIGHT SOURCE
CODE ISV-1LED1

- For rigid borescopes
- High LED illumination and brightness is adjustable
- For long time work with low noise





SPECIFICATION

Color temperature	5600K
Cooling	fan cooling
Power	AC110~220V, 50/60Hz
Dimension	400×300×112mm
Weight	7kg

STANDARD DELIVERY

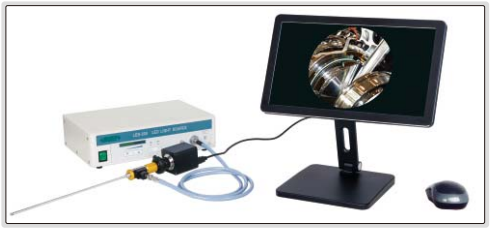
Main unit	1 pc
1.8m optical fiber cable	1 pc

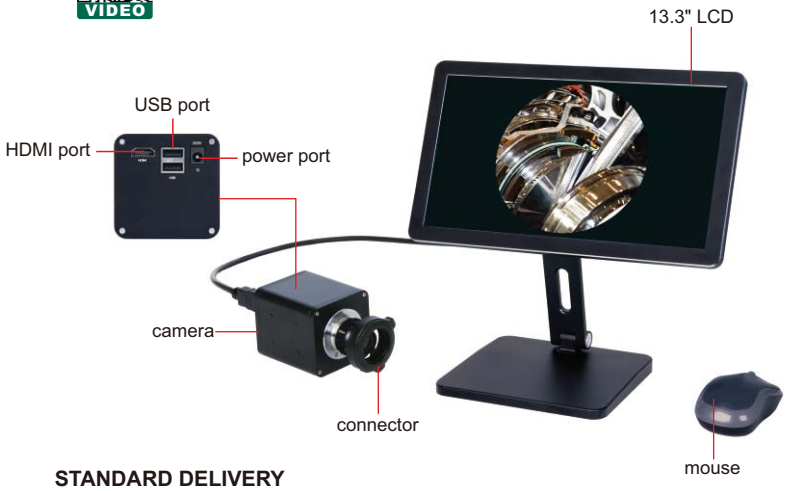
CAMERA (WITH DISPLAY)
CODE ISV-2CAM

VIDEO

TAKE PICTURES AND VIDEOS

AUTO FOCUS





- For rigid borescopes
- 1080P high-definition image
- Auto-focus camera
- Take pictures and videos, saved to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable

SPECIFICATION

Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	350×100×430mm
Weight	2kg

STANDARD DELIVERY

Camera	1 pc
Connector	1 pc
13.3" LCD (with stand)	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs


16G USB flash disk (included)

INSIZE

COATING INSPECTION

26



Coating Thickness Gages
Page 614-617



Coating Thickness Gages
Page 618



Surface Profile Gages
Page 618-619



Wet Film Gages
Page 619



Gloss Meters
Page 620-621



Colorimeters
Page 622-624



Pencil Hardness Testers
Page 625



Cross Cut Adhesion Testers
Page 625



Digital Adhesion Testers
Page 626



Rotational Abrasion Testers
Page 627



Paint Film Flexibility Testers
Page 627



Impact Testers
Page 628

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COATING THICKNESS GAGE (HIGH PRECISION) CODE ISO-8000FN

SUITABLE FOR THIN COATING BELOW 10μm

FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES


calibration foils (included)


zero calibration plate (included)


stand (**optional**)

VIDEO


eddy current probe (**optional**)



magnetic induction probe (included)

- Can measure thickness of thin coating below 10μm
- High repeatability
- Magnetic induction probe measures the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate
  Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)
  Coating: zinc, aluminum, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Eddy current probe measures the thickness of non-conductive coating on non-magnetic metal substrate
  Substrate: copper, aluminum, zinc, non-magnetic stainless steel
  Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- Maximum, minimum, average and variance values can be calculated automatically

SPECIFICATION

Probe		**Magnetic induction probe** (included)	**Eddy current probe (optional)***
Measuring range		0~500μm	0~1500μm
Resolution		0.1μm (range<100μm) 1μm (100μm≤range≤500μm)	0.1μm (range<100μm) 1μm (100μm≤range<1000μm) 0.01mm (1.00mm≤range≤1.50mm)
Accuracy		±(0.5+2%L)μm L is measuring thickness in μm	
Repeatability		≤(0.2+0.8%L)μm L is measuring thickness in μm	
Measuring mode		single and continuous	
Measuring interval	single mode	1.5s	0.8s
	continuous mode	0.4s	0.4s
Calibration mode		zero calibration and multi-points calibration (1~5 points)	
Minimum substrate thickness		0.1m	0.05mm
Minimum measuring area		Ø7mm	
Minimum radius of curvature workpieces	convex surface	1.5mm	
	concave surface	10mm	
Unit		μm/mil	
Power supply		4×1.5V AAA batteries	
Dimension		148×76×26mm	
Weight		148g	

STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe	1 pc
Zero calibration plate	1 pc
Calibration foils (5.6μm, 11.6μm, 24.6μm, 50.0μm, 100μm, 252μm, 390μm)	1 set
1.5V AAA battery	4 pcs

OPTIONAL ACCESSORY

Eddy current probe (with zero calibration plate)	ISO-8000FN-N1500*
Stand	ISO-8000FN-STAND

*For precision measurement of thin coating below 10μm, please use the stand for eddy current probe

VIDEO

BLUETOOTH | FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES | DATA OUTPUT

COATING THICKNESS GAGE
CODE 9501-1200

POPULAR MODEL


eddy current probe NFE (**optional**) with zero calibration block


magnetic induction probe FE90 for bores and grooves (**optional**)


calibration foils (included)


magnetic induction probe FE10 for large range (**optional**)


zero calibration block for FE (included)


receiver (**optional**)



button for data transmission

magnetic induction probe FE (included)

- Magnetic induction probe (FE) measures the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate.
  Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)
  Coating: zinc, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Eddy current probe (NFE) measures the thickness of non-conductive coating on non-magnetic metal substrate.
  Substrate: copper, aluminum, zinc, non-magnetic stainless steel
  Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- Tolerance measurement
- Data statistic, including average, variance, maximum and minimum values
- Data can be sent to Excel by connecting to computers via bluetooth or cable of receiver
- Support bluetooth printer
- Automatic power off

SPECIFICATION

Probe type	**FE** (included) magnetic induction probe	**NFE (optional)** eddy current probe	**FE90 (optional)** magnetic induction probe for bores and grooves	**FE10 (optional)** magnetic induction probe for large range
Measuring range	0~1250µm	0~1250µm	0~1250µm	500~10000µm
Accuracy	±(3%L+1)µm (range≤1250µm) ±(3%L+10)µm (range>1250µm)		L is measuring thickness in µm	
Resolution	0.1µm (range<100µm)			
	1µm (range≥100µm)			
Measuring mode	continuous and single			
Minimum substrate thickness	0.5mm	0.3mm	0.5mm	2mm
Minimum measuring area	Ø7mm	Ø5mm	Ø7mm	Ø40mm
Minimum curvature radius of convex workpiece	1.5mm	3mm	—	10mm
Memory	600			
Output	USB			
Power supply	2×1.5V AA batteries			
Dimension	135×77×32mm			
Weight	172g			

STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe (FE)	1 pc
Zero calibration block for FE probe	1 pc
Calibration foils (50/100/250/500/1000µm)	1 set
1.5V AA battery	2 pcs
Software and USB cable	1 pc

OPTIONAL ACCESSORY

Receiver	ISR-C300-RECEIVER
Cable of receiver	9501-1200-CABLE
Bluetooth printer	ISR-C002-PRINTER
Eddy current probe (NFE) with zero calibration block	9501-1200-NFE
Magnetic induction probe (FE90) for bores and grooves	9501-1200-FE90
Magnetic induction probe (FE10) for large range	9501-1200-FE10

COATING THICKNESS GAGE (BASIC TYPE)
CODE ISO-1200FN

FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES

- Probe is suitable for both magnetic and non-magnetic metal substrates
- Can measure the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate
  Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)
  Coating: zinc, aluminum, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Can measure the thickness of non-conductive coating on non-magnetic metal substrate
  Substrate: copper, aluminum, zinc, non-magnetic stainless steel
  Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- 3 measuring modes: Fe, NFe, Fe/NFe
- Store 9 measuring records
- Small and portable, easy for operation



SPECIFICATION

Measuring range		0~2000μm
Resolution		0.1μm (range<100μm) 1μm (100μm≤range<1000μm) 0.01mm (1mm≤range≤2mm)
Accuracy		±(2μm+3%L) L is measuring thickness in μm
Measure interval		0.5s
Calibration mode		zero calibration
Measuring mode		Fe, NFe, Fe/NFe
Minimum substrate thickness	Fe	0.2mm
	NFe	0.05mm
Minimum measuring area		Ø25mm
Minimum radius of curvature workpieces	convex surface	5mm
	concave surface	25mm
Unit		μm/mil
Power supply		2×1.5V AAA batteries
Main unit dimension		101×62×28mm
Probe dimension		71×26×22mm
Weight		114g


Fe zero calibration plate (included)


NFe zero calibration plate (included)



standard foil (included)

STANDARD DELIVERY

Main unit	1 pc
Fe zero calibration plate	1 pc
NFe zero calibration plate	1 pc
Standard foil (100μm)	1 pc
1.5V AAA battery	2 pcs

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FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES

COATING THICKNESS GAGE (BASIC TYPE) CODE ISO-1000FN

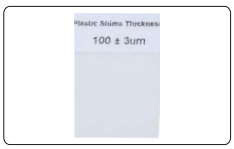
- Probe is suitable for both magnetic and non-magnetic metal substrates
- Can measure the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate
  Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)
  Coating: zinc, aluminum, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Can measure the thickness of non-conductive coating on non-magnetic metal substrate
  Substrate: copper, aluminum, zinc, non-magnetic stainless steel
  Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- 3 measuring modes: Fe, NFe, Fe/NFe
- Store 9 measuring records
- Small and portable, easy for operation



ruby contact point

SPECIFICATION

Measuring range		0~2000μm
Resolution		0.1μm (range<100μm) 1μm (100μm≤range<1000μm) 0.01mm (1mm≤range≤2mm)
Accuracy		±(2μm+3%L) L is measuring thickness in μm
Measure interval		0.5s
Calibration mode		zero calibration
Measuring mode		Fe, NFe, Fe/NFe
Minimum substrate thickness	Fe	0.2mm
	NFe	0.05mm
Minimum measuring area		Ø25mm
Minimum radius of curvature workpieces	convex surface	5mm
	concave surface	25mm
Unit		μm/mil
Power supply		2×1.5V AAA batteries
Dimension		101×62×28mm
Weight		79g



standard foil (included)


Fe zero calibration plate (included)


NFe zero calibration plate (included)

STANDARD DELIVERY

Main unit	1 pc
Fe zero calibration plate	1 pc
NFe zero calibration plate	1 pc
Standard foil (100μm)	1 pc
1.5V AAA battery	2 pcs

CALIBRATION FOILS FOR COATING THICKNESS GAGE

- To calibrate or check the accuracy of coating thickness gages
- Increase the measurement accuracy after foil calibration
- Uniformity: ±0.3μm (≤50μm), ±0.6% (>50μm)
- Dimension: 45×30mm (thickness≤2000μm), 50×30mm (thickness>2000μm)
- Supplied with manufacturer inspection certificate

INSPECTION CERTIFICATE

26

Code	Thickness	Deviation*	Uniformity
9503-FL1	11.5μm	±5%	±0.3μm
9503-FL2	23μm	±5%	±0.3μm
9503-FL3	50.5μm	±5%	±0.6%
9503-FL4	102μm	±5%	±0.6%
9503-FL5	250μm	±5%	±0.6%
9503-FL6	495μm	±3%	±0.6%
9503-FL7	995μm	±2%	±0.6%
9503-FL8	1780μm	±5%	±0.6%
9503-FL9	3725μm	±4%	±0.6%
9503-FL10	7650μm	±2%	±0.6%



9503-FL6

*Deviation between the ordered thickness and the thickness marked on the calibration foils when supplied

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X RAY FLUORESCENCE SPECTROMETER (RoHS DETECTOR/ALLOY COMPOSITION ANALYZER/COATING THICKNESS GAGE) CODE XRF-B210

REFER TO PAGE 466~467 FOR DETAILS

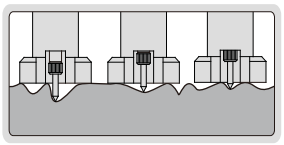




SURFACE PROFILE GAGE

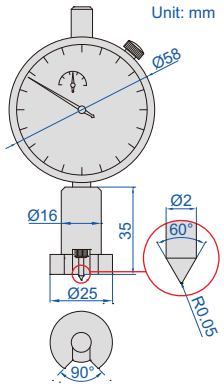
VIDEO

measure peak-to-valley height of blast cleaned surfaces





2344-1





- Measure peak-to-valley height of blast cleaned surface.
  If the profile is too low, the adhesion of the coating to the surface will be reduced.
  If the profile is too high, there is the danger that the profile peaks will remain uncoated, allowing rust spots to occur.
- Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Stainless steel base

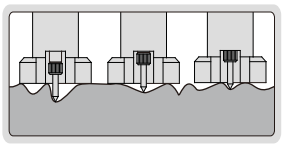
Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
2344-1	0-1mm	1mm	0.001mm	±0.005mm

DIGITAL SURFACE PROFILE GAGE

DATA OUTPUT

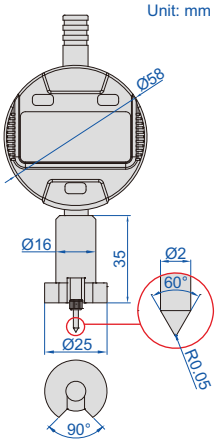
VIDEO

measure peak-to-valley height of blast cleaned surfaces





2843-10





- Measure peak-to-valley height of blast cleaned surface.
  If the profile is too low, the adhesion of the coating to the surface will be reduced.
  If the profile is too high, there is the danger that the profile peaks will remain uncoated, allowing rust spots to occur.
- Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Button function: on/off, zero, mm/inch, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Data ouput
- Stainless steel base
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)

Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
2843-10	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm

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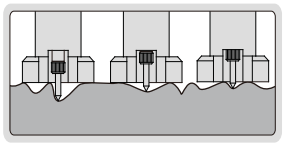
DATA OUTPUT

DISPLAY MAXIMUM, MINIMUM, DIFFERENCE VALUE BETWEEN MAXIMUM AND MINIMUM

DIGITAL SURFACE PROFILE GAGE

VIDEO

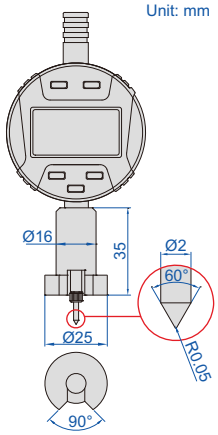
measure peak-to-valley height of blast cleaned surfaces





2844-10

Unit: mm



- Measure peak-to-valley height of blast cleaned surface. If the profile is too low, the adhesion of the coating to the surface will be reduced. If the profile is too high, there is the danger that the profile peaks will remain uncoated, allowing rust spots to occur.
- Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Data ouput
- Stainless steel base
- Optional accessory: data output cable (code **7315-50M** page 5, **7302-40M** page 13)

set zero



zero set block (included)

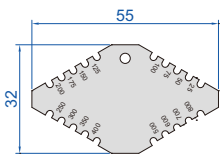
Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
2844-10	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm

WET FILM GAGES



4845-1

Unit: mm

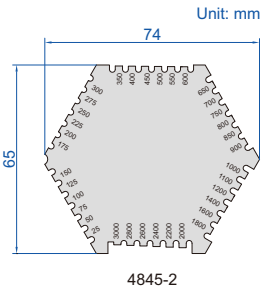


4845-1



4845-2

Unit: mm



4845-2

- Made of stainless steel

Code	Range	Accuracy	Thickness
4845-1	25-800μm	±5μm	1.8mm
4845-2	25-3000μm	25-100μm: ±5μm 100μm-3000μm: ±5%	1mm

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60° GLOSS METER (BASIC TYPE)
CODE 5702-DG6

VIDEO

- To test the gloss of coating, such as painting, varnish, printing ink, etc.
- To test the material surfaces, such as metal, granite, ceramic, plastic, paper, etc.
- According to ISO 2813, ISO 7668, ASTM D523, ASTM D2457, DIN 67530
- Automatic judgement after setting high and low limits
- Automatic power off



base with calibration block (included)



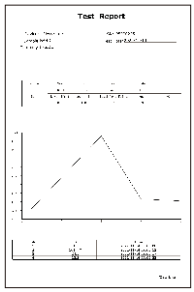
SPECIFICATION

Incidence angle	60°
Measuring range	0~200GU
Resolution	0.1GU
Accuracy	±1.5GU (range<120GU) ±1.5% (range≥120GU)
Repeatability	0.2GU (range<120GU) 0.2% (range≥120GU)
Zero error	0.1GU
Measuring area	20×10mm
Power supply	rechargeable battery
Data port	USB
Dimension	135×45×75mm
Weight	237g

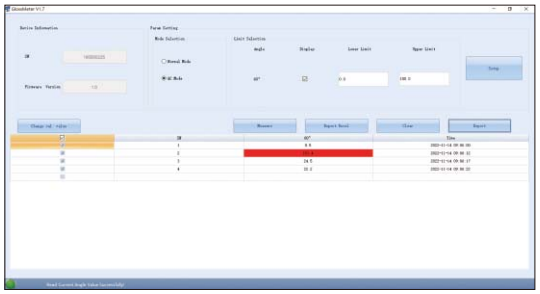
STANDARD DELIVERY

Main unit	1 pc
Base with calibration block	1 pc
U disk	1 pc
AC/DC adapter	1 pc
USB data cable	1 pc
Cleaning cloth	1 pc

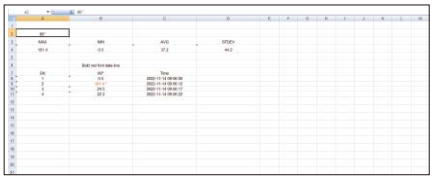
software (included), test can be controlled from the software, display test data and report



report



software



measurement data is sent to Excel

60° GLOSS METER
CODE ISQ-DG6

- To test the gloss of coating, such as painting, varnish, printing ink, etc.
- To test the material surfaces, such as metal, granite, ceramic, plastic, paper, etc.
- According to ISO 2813, ASTM D2457, ASTM D523
- Automatic power off



base with calibration block (included)



SPECIFICATION

Incidence angle	60°
Measuring range	0~150GU
Resolution	0.1GU
Accuracy	±1.2GU
Repeatability	0.4GU
Zero set error	0.2GU
Measuring area	20×10mm
Output	bluetooth
Power supply	1×1.5V AA battery
Dimension	123×38×65mm
Weight	300g

STANDARD DELIVERY

Main unit	1 pc
Base with calibration block	1 pc
Spare calibration block	1 pc

connect mobile phone via bluetooth (only Android system)



operate and output data by mobile phone

VIDEO

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DATA OUTPUT | BLUETOOTH | CAN BE OPERATED BY COMPUTERS OR MOBILE PHONES

20°/60°/85° GLOSS METER
CODE ISQ-DG8

VIDEO





base with calibration block (included)

- To test the gloss of coating, such as painting, varnish, printing ink, etc.
- To test the material surfaces, such as metal, granite, ceramic, plastic, paper, etc.
- According to ISO 2813, ASTM D2457, ASTM D523
- Memory of 10000 measurement results for browsing and output
- Automatic power off



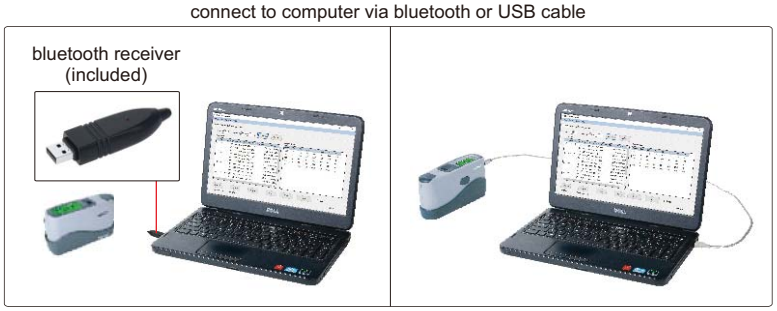
software flash disk (included)

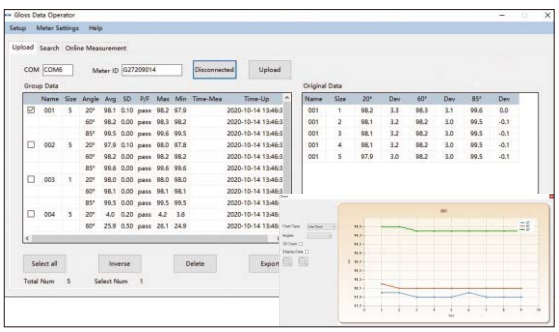
connect to mobile phone via bluetooth (only Android system)



operate and output data by mobile phone

connect to computer via bluetooth or USB cable





software (included), test can be controlled from the software, display test data, output to Excel

SPECIFICATION

Incidence angle	20°	60°	85°
Measuring range	0~2000GU	0~1000GU	0~160GU
Resolution	0.1GU (range≤119.9GU)		
	1GU (range>119.9GU)		
Accuracy	±1.5GU (range≤119.9GU)		
	±1.5% (range>119.9GU)		
Repeatability	0.2GU (range≤119.9GU)		
	0.2% (range>119.9GU)		
Zero set error	0.2GU		
Measuring area	10×9mm	16×9mm	39×5mm
Output	USB and bluetooth		
Power supply	1×1.5V AA battery		
Dimension	155×48×75mm		
Weight	400g		

STANDARD DELIVERY

Main unit	1 pc
Base with calibration block	1 pc
Software and USB cable	1 pc
Bluetooth receiver	1 pc

SPECTROPHOTOMETER
CODE 9710-30

DATA OUTPUT | CONCAVE GRATING SPECTROPHOTOMETRIC | Ø8/4mm DUAL APERTURE | BLUETOOTH

- Concave grating spectrophotometric
- 3.5 inch TFT color LCD, capacitive touch screen, 256 image element double arrays CMOS image sensor
- D/8 geometrical optics, conforms with CIE No.15, ISO7724/1, ASTM E1164, DIN5033 Teil 7
- Use long life and low power consumption combined LED light source
- Camera locating function, switchable 8mm/4mm aperture, support both SCI and SCE at the same time
- Large capacity storage space, over 20,000 measurement data
- USB port and Bluetooth 4.0
- Two standard observer angles, a variety of illuminant, a variety of color indexes, conforms with a variety of standard colorimetric data
- Measure sample spectra, accurate Lab data, can be used in color matching and accurate color transmission



VIDEO



software flash disk (included)



white and black calibration cavity (included)



printer (**optional**)



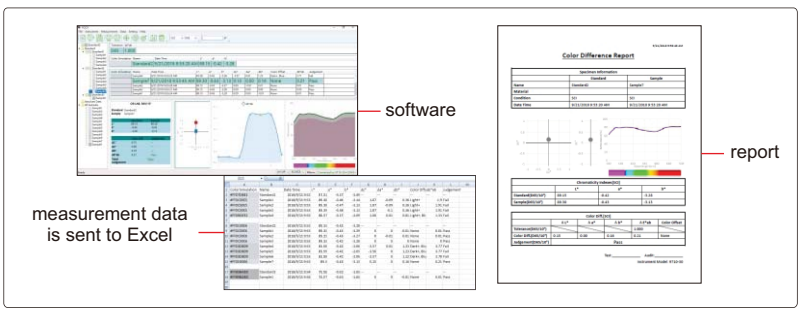
measurement



reflectivity

SPECIFICATION

Optical geometry		reflect: di: 8°, de: 8° (diffused illumination, 8-degree viewing angle)
Integrating sphere size		Ø48mm
Light source		combined LED light, UV light
Spectrophotometric mode		concave grating
Sensor		256 image element double array CMOS image sensor
Wavelength range		400~700nm
Wavelength interval		10nm
Semiband width		10nm
Measured reflectance range		0~200%
Measuring aperture		dual aperture: MAV: Ø8mm; SAV: Ø4mm
Specular component		SCI&SCE
Color space		CIE LAB, XYZ, Yxy, LCh, CIE LUV, hunter LAB
Color difference formula		ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc (2:1), ΔE*cmc (1:1), ΔE*00v, ΔE (Hunter)
Other colorimetric index		WI (ASTM E313, CIE/ISO, AATCC, hunter), YI (ASTM D1925, ASTM 313), metamerism index MI, staining fastness, color fastness, colorstrength, opacity
Observer angle		2°/10°
Illuminant		A, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, TI83, TI84, U35
Displayed data		spectrogram/values, samples chromaticity values, color difference values/graph, PASS/FAIL result, color offset
Measuring time		2.6s
Repeatability	**spectral reflectance**	MAV/SCI, within 0.08% of standard deviation (400~700nm: 0.18%)
	colorimetric values	MAV/SCI: ΔE*≤0.03
Inter-instrument error		MAV/SCI: ΔE*≤0.15
Measurement mode		single measurement, average measurement
Data port		USB, bluetooth 4.0
Data storage		standard 1000 pcs, sample 28000 pcs
Illuminant life span		5 years, more than 3 million times measurements
Battery		Li-ion battery, 5000 measurements within 8 hours
Dimension		184×77×105mm
Weight		600g



software (included), test can be controlled from the software, display test data, report

STANDARD DELIVERY

Main unit	1 pc
White and black calibration cavity	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Printer	**9710-PRINTER**
Powder test box	**9710-POWDERBOX**
Universal test kit	**9710-TESTKIT**

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SPECTROPHOTOMETER CODE 5701-D40

FOUR KINDS OF APERTURE | GRATING SPECTROPHOTOMETRIC | DATA OUTPUT | MATCHING COLOR CARD QUICKLY

- Conforms with CIE No.15, ISO7724-1, ASTM E1164 and DIN5033 Teil7 standards
- Grating spectrophotometric, 3.5" IPS full color screen, dual optical path high precise CMOS array sensor
- Use long life and low power consumption combined LED light source, include UV and exclude UV measurement
- Camera locating function, switchable 11mm/6mm/1×3mm aperture
- Large capacity storage space, over 20000 measurement data
- Two standard observer angles, a variety of illuminant, a variety of color indexes, conforms with a variety of standard colorimetric data
- Measure sample spectra, accurate Lab data, can be used in color matching and accurate color transmission



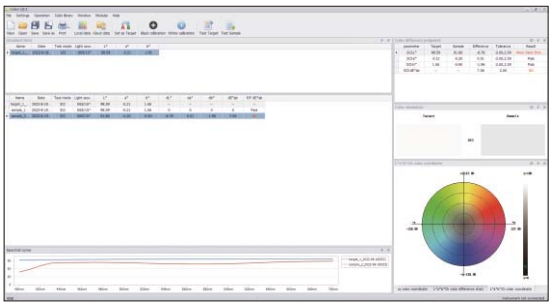


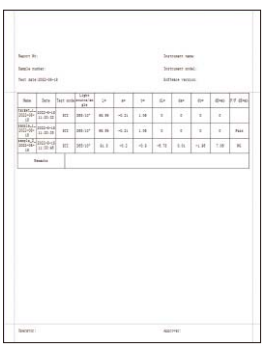
measurement

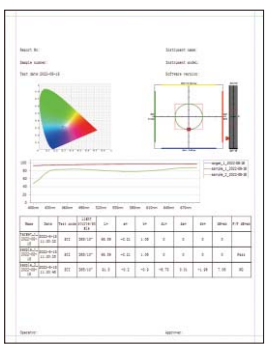
SPECIFICATION

Optical geometry		D/8 (diffused illumination/8° direction reception), SCI+SCE (specular component included+specular component excluded)
Integrating sphere size		Ø40mm
Light source		LED (full band balanced LED)+UV
Spectrophotometric mode		grating
Sensor		dual optical path high precise CMOS array sensor
Wavelength range		400~700nm
Wavelength interval		10nm
Reflectance measurement range		0~200%
Reflectance resolution		0.01%
Displaye resolution		0.01
Illumination area/aperture		MAV: Ø11mm; SAV: Ø6mm, Ø3mm; MINI: 1×3mm
Color space		CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB
Color difference formula		ΔE*ab, ΔE*cmc, ΔE*94, ΔE*00
Other colorimetric index		whiteness (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, hunter, taube berger stensby), yellowness (ASTM D1925, ASTM 313-00, ASTM E313-73), blackness (My, dM), color fastness, tint (ASTM E313-73) color density CMYK (A, T, E, M), milm, munsell, opacity, color strength
Observer angle		2°/10°
Illuminant		A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, TI83, TI84, Id50, Id65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2
Measuring time		about 1.5s
Repeatability	spectral reflectance	within 0.08% of standard deviation
	colorimetric values	ΔE*ab≤0.025 (after whiteboard correction, measuring the whiteboard 30 times at 5s interval)
Inter-instrument error		ΔE*ab≤0.25 (BCRA series II, average value of 12 color plates)
Data port		USB, bluetooth
Light source lifetime		10 years, more than 1 million times measurements
Battery		3.7V/3000mAh, rechargeable 8000 times continuous tests
Dimension		95×129×231mm
Weight		750g

software (included), test can be controlled from the software, display test data, report


software


pure data report


graphic report

VIDEO

To be continued

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Continued from previous page

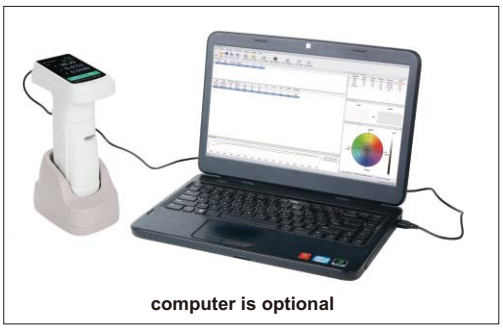
STANDARD DELIVERY

Main unit	1 pc
White calibration cavity	1 pc
Measuring aperture	3 pcs
USB cable	1 pc
USB disk	1 pc
AC/DC adapter	1 pc



white calibration cavity (included)

connect to computer



computer is optional

COLORIMETER (BASIC TYPE) CODE 5700-LS35

- Conforms with CIE 15, CIE S 005, ISO 7724-1 and ISO 13655 standards
- 3.5-inch IPS display and capacity touch panel
- Contains multiple color cards and can match the closest color code quickly
- QC testing function, can set color difference threshold
- Able to store 1000 colors and 1000 color comparison
- 3.7V/4000mAh battery, 10000 continuous measurements



white calibration cavity (included)



SPECIFICATION

Illumination geometry	D/8, specular component include (SCI)
Illumination light source	full spectrum LED light source
Measurement conditions	light source D65, field of view 10°
Measuring time	about 1s
Color space	CIE Lab, Luv, LCh, Yxy, CMYK, RGB, Hex
Color difference formula	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc (2:1), ΔE*cmc (1:1), ΔE*00
Repeatability	standard deviation ΔE*ab is within 0.03 (measurement condition: the average value of 30 measurements on the whiteboard at an interval of 3s after calibration)
Charging interface	USB (Type-C)
Dimension	86×63×158mm
Weight	245g

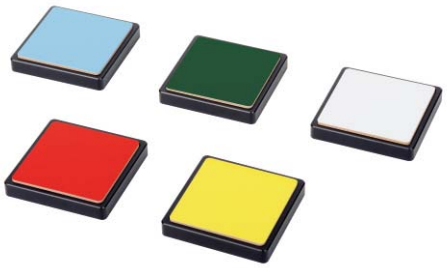
VIDEO

STANDARD DELIVERY

Main unit	1 pc
White calibration cavity	1 pc
USB cable	1 pc
AC/DC adapter	1 pc
Cleaning cloth	1 pc
Locating plate	1 pc

STANDARD COLOR PLATES CODE 5704-CP01

- To calibrate color measuring instruments
- Made of ceramic
- Wear resistance, corrosion resistance, high optical stability
- Supplied with ISO17025 calibration certificate from National Institute of Metrology, China



SPECIFICATION

Spectral reflectance factor	spectral reflectance factor in the wavelength range of 380nm to 780nm
Standard illuminant	A, D65, etc
Viewing angle	2°, 10°
Color space	CIE-Lab, XYZ, etc
Annual variation	Δx, Δy≤0.005
Dimension	50×50mm

STANDARD DELIVERY

Protective gloves	1 pair
Calibration certificate	1 pc



calibration certificate (included)

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PENCIL HARDNESS TESTER
CODE PHT-C751

VIDEO

- For flat coating surfaces
- Conform to ASTM D3363, ISO 15184, BS3900-E19 and ECCA-T4/1

in use





SPECIFICATION

Pressure of pencil on coating	500g, 750g, 1000g (main unit is 500g, one weight is 750g, two weights are 1000g)
Angle between pencil and measured surface	45°
Dimension (L×W×H)	95×80×110mm
Weight	2kg

STANDARD DELIVERY

Main unit	1 pc
Weights	2 pcs
Leveling rod	1 pc
Level	1 pc
Pencil	12 pcs (4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H)
Pencil sharpener	1 pc

OPTIONAL DELIVERY

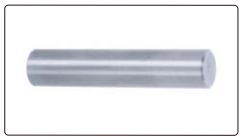
Pencil (17 pcs: 6B-9H)	**PHT-C751-P**
400 grade abrasive paper	**PHT-C751-S**



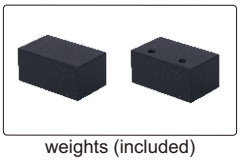
level (included)



pencils (included)



leveling rod (included)



weights (included)

CROSS CUT ADHESION TESTER
CODE ISQ-PK100

VIDEO

- To test the adhesion of paint coating on metal, wood, plastic, etc.
- According to ISO 2409, ASTM D3359, DIN53151

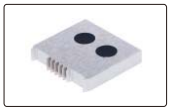




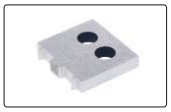
3mm pitch blade (included)



2X magnifier (included)



2mm pitch blade (included)



1mm pitch blade (included)



brush (included)



test tape (included)
ISQ-PK100-1

SPECIFICATION

Blade		1mm pitch	2mm pitch	3mm pitch
Applied paint thickness	**on hard substrate (like metal)**	0~60μm	61~120μm	121~250μm
	on soft substrate (like wood, plaster)	–	0~120μm	121~250μm
Minimum substrate thickness	**hard substrate (like metal)**	0.25mm	0.25mm	0.25mm
	soft substrate (like wood, plaster)	–	10mm	10mm
Minimum size of test sample		150×100mm	150×100mm	150×100mm
Dimension		170×28×40mm		
Weight		430g		

STANDARD DELIVERY

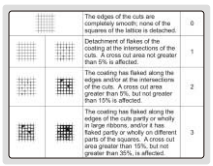
Handle	1 pc
1mm pitch blade	1 pc
2mm pitch blade	1 pc
3mm pitch blade	1 pc
Test tape (ISQ-PK100-1)	1 pc
2X magnifier	1 pc
Brush	1 pc



step 1: make grid cutting on surface



step 2: paste and remove the tape



step 3: according to the shedding status, judge the adhesion grade

DIGITAL ADHESION TESTER
CODE SPT-AD21

VIDEO




Ø20mm dolly (included)


glue gun and glue (included)


cutting tool (included)
for Ø10mm, Ø14mm, Ø20mm dolly

- Pull-off test
- Built-in rechargeable lithium battery, no need external power source
- Portable design, can be used anywhere
- Standard USB interface, can directly transmit the stored data to computer, no need to install software
- Conforms to GB/T 5210, ASTM D4541/D7234, ISO 4624/16276-1
- Store all test results, includes maximum pull-off force, pull-off rate, dolly size and time
- Built in real-time clock, all saved data have corresponding date and time
- Selectable four different sizes dolly for different resolution and testing range
- No need conversion, the instrument can calculate pull-off force according to the dolly size
- Get the testing results from LCD directly
- Two units MPa and psi for selection and can be converted automatically

SPECIFICATION

Range	0~20MPa
Dolly diameter	Ø20mm
Resolution	0.01MPa (1psi)
Accuracy	±1% full scale
Pull-off Force	0.7~20MPa
Power	built-in rechargeable lithium battery
Dimension (LxWxH)	360x75x115mm
Weight	3kg

STANDARD DELIVERY

Main unit	1 pc
Ø20mm dolly	20 pcs
Cutting tool for Ø20mm dolly	1 pc
Charger	1 pc
USB cable	1 pc
Glue gun	1 pc
3M glue	1 pc

OPTIONAL ACCESSORY

Ø10mm dolly	**SPT-AD21-10**	10 pcs/package pull-off force: 2.8~80MPa
Ø14mm dolly	**SPT-AD21-14**	10 pcs/package pull-off force: 1.4~40MPa
Ø20mm dolly	**SPT-AD21-20**	10 pcs/package pull-off force: 0.7~20MPa
Ø50mm dolly	**SPT-AD21-50***	10 pcs/package pull-off force: 0.4~3.5MPa
Cutting tool	**SPT-AD21-CUTTER1**	for Ø10mm, Ø14mm, Ø20mm dolly
Cutting tool	**SPT-AD21-CUTTER2***	for Ø50mm dolly
Sleeve	**SPT-AD21-SLEEVE***	for Ø50mm dolly
Glue	**SPT-AD21-GLUE**	3M DP420 epoxy glue/50ml

*Ø50mm dolly requires corresponding cutter and sleeve

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ROTATIONAL ABRASION TESTER
CODE QMY-AP32

- To test flat paint film
- Comply with ISO 7784-2, ISO 9352, GB/T1768, ASTM D3884, ASTM D1175 standards



VIDEO

SPECIFICATION

Plateform rotary speed	60±2 r/min, 72±2 r/min (selectable)
Load weight	500g, 750g, 1000g
Sample size	Ø100mm
Grinding wheel	external diameter (51.6±0.1)mm, thickness (12.7±0.1)mm
Counting range of plateform rotation	0~9999 times
Motor power	25W
Power supply	220V, 50Hz
Dimension	260×410×280mm
Weight	14kg

STANDARD DELIVERY

Main unit	1 pc
Vacuum cleaner	1 pc
1000g weight	2 pcs
750g weight	2 pcs
500g weight	2 pcs
TABER CS-10 grinding wheel	1 pair
Sandpaper	10 pcs
Glass plate	5 pcs

OPTIONAL ACCESSORY

TABER CS17 grinding wheel (1 pair)	QMY-AP32-CS17
Glass plate (Ø100mm with a 9mm center hole, 100 pcs/box)	QMY-AP32-GP
Aluminum plate (Ø100mm with a 9mm center hole, 100 pcs/box)	QMY-AP32-AP
180# emery cloth strip (100 pcs/box)	QMY-AP32-EC

PAINT FILM FLEXIBILITY TESTER
CODE PPF-BF62

- To test the flexibility of paint and varnish
- Bend the coated test plates on the shaft rods with different diameter, the minimum shaft rod diameter that does not cause damage to the film is the film flexibility



VIDEO

SPECIFICATION

Shaft rod length	35mm
Shaft rod 1	Ø15mm
Shaft rod 2	Ø10mm
Shaft rod 3	Ø5mm
Shaft rod 4	Ø4mm
Shaft rod 5	cross section 3×10mm, radius of curved surface 1.5mm
Shaft rod 6	cross section 2×10mm, radius of curved surface 1.0mm
Shaft rod 7	cross section 1×10mm, radius of curved surface 0.5mm
Dimension	450×75×100mm
Weight	3.1kg

STANDARD DELIVERY

Main unit	1 pc
Test plate	1 box (500 pcs)
4X magnifier	1 pc

OPTIONAL ACCESSORY

Test plate (dimension: 120×25×0.28mm, 500 pcs/box)	PPF-BF62-TP

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IMPACT TESTER
CODE THD-PF34

VIDEO


300g main weight (included)


1000g main weight (included)


2lb main weight (included)


2lb additional weight (included)


1000g additional weight (included)



Ø16.3mm die base (included)



Ø12.7mm indenter (included)



Ø15.9mm indenter (included)





- For paint and varnish dry coating. To test the ability to resist cracking or peeling from the substrate when deformation is caused by weights impact under standard conditions
- Indenter, base and weight can be replaced quickly
- Conform to ISO 6272-2:2002, ASTM D 2794

SPCIFICATION

Impact height range	0-100cm (0-40inch)
Graduation	1cm
Impact depth	2.5cm
Weight	1000g (2 pcs), 300g (1 pc), 2lb (2 pcs)
Indenter diameter	Ø12.7mm (1/2 inch DIA), Ø15.9mm (5/8 inch DIA)
Die base diameter	Ø16.3mm

OPTIONAL ACCESSORY

Base plate (120×70×0.5mm, 180 pcs/box) *	THD-PF34-T

*Can be customized according to the needs of different thickness, size and processing

STANDARD DELIVERY

Main unit	1 pc
1000g main weight	1 pc
300g main weight	1 pc
2lb main weight	1 pc
1000g additional weight	1 pc
2lb additional weight	1 pc
Ø12.7mm indenter	1 pc
Ø15.9mm indenter	1 pc
Ø16.3mm die base	1 pc

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PORTABLE INSTRUMENTS

27



Ultrasonic Thickness Gages
Page 631-638



Tachometers
Page 638-639



Stroboscopes
Page 640



Vibration Pens
Page 640-641



Digital Multimeters
Page 641-644



Digital AC/DC Clamp Meters
Page 645



Voltage Testers
Page 646



Laser Distance Meters
Page 647



Portable Conductivity/TDS Meters
Page 647



Portable pH Meters
Page 648



Refractometers
Page 648-650



Digital Stopwatches
Page 650

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27 PORTABLE INSTRUMENTS

INSIZE



Stroke Counters
Page 650



Digital Moisture Meters
Page 651



Differential Pressure Manometers
Page 652



Anemometers
Page 653



Bourdon Tube Pressure Gages
Page 653



Digital Sound Level Meters
Page 654-655



Light Meters
Page 655-657



Gas Detectors
Page 657-658



Teslameters
Page 659



Laser Belt Tension Meters
Page 659

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PENETRATE COATING AND MEASURE THE THICKNESS OF SUBSTRATE | BLUETOOTH | REAL-TIME TEMPERATURE COMPENSATION | DATA OUTPUT

ULTRASONIC THICKNESS GAGE (ADVANCED TYPE) CODE ISU-800D

- Real-time temperature compensation eliminates the error caused by temperature variation
- Support both single element transducers and dual element transducers
- Measure the thickness of substrate through coating
- Measuring mode: standard mode (dual element transducer: P-E mode, single element transducer: I-E mode), penetrate coating mode (dual element transducer: I-E mode, single element transducer: E-E mode or auto mode)
- Measure method: single point, scanning, deviation
- Set upper and lower limits for alarm when out-of-tolerance
- Single point and 2 points calibration
- Keyboard lock function avoids parameter setting change caused by unintended press during measurement
- Memory 1000 measurement values
- Data can be transferred to PC by Bluetooth connection or Mini-USB cable



VIDEO

transducer **ISU-S15-P06** (included)



transducer **ISU-S2M-P14** (**optional**)



transducer **ISU-G5M-P10** (**optional**)



transducer **ISU-G5M-P08** (**optional**)



transducer **ISU-G7M-P06** (**optional**)



transducer **ISU-G2M-P12** (**optional**)



transducer **ISU-H3M-P12** (**optional**)



delay block **ISU-S15-P06-CB** (**optional**)



delay block **ISU-S15-P06-CB1** (**optional**)



SPECIFICATION

Measuring range	refer to the specification of transducers
Resolution	0.01mm/0.001mm
Accuracy	refer to the specification of transducers
Data output	bluetooth and USB
Velocity	1~19999m/s
Power supply	3.7V rechargeable lithium battery
Dimension	157×78×37mm
Weight	260g

STANDARD DELIVERY

Main unit	1 pc
Transducer ISU-S15-P06	1 pc
Power adaptor	1 pc
USB cable	1 pc
Couplant	1 bottle

OPTIONAL ACCESSORY

Transducer	refer to the specification of transducers
Couplant (for ISU-H3M-P12)	**ISU-HT5-COUPLANT**
Thermal printer (with cable)	**ISU-800D-PRINTER**

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Type	Freq	Diameter (Ød)	Measuring range	Min. size of pipes (diameter x wall thickness)	Accuracy	Working temperature	Application
ISU-S15-P06 (Included)	single element	15MHz	8mm	I-E: 0.9~28mm E-E: 0.15~14mm	Ø10x1.5mm Ø15x0.35mm	±0.02mm/0.3%H* (take the larger one)	-10~60°C	high precision or thin workpieces
ISU-S15-P06-CB (optional)**	-	-	5mm	I-E: 0.9~10mm E-E: 0.15~5mm	Ø10x1.2mm Ø15x0.35mm			high precision or Irregular surface
ISU-S15-P06-CB1 (optional)**	-	-	8mm	I-E: 0.9~38mm E-E: 0.3~19mm	–			high precision or thick workpieces
ISU-S2M-P14 (optional)	single element	2MHz	19mm	I-E: 30~2000mm E-E: 30~1000mm	–	±0.5%H*	-10~310°C	ultra-thick workpieces
ISU-G5M-P10 (optional)	dual element	5MHz	13mm	0.8~300mm	Ø25x3mm	±0.04mm (range: <10mm) ±H/333mm* (range: ≥10mm)	-10~60°C	normal workpieces
ISU-G5M-P08 (optional)	dual element	5MHz	11mm	0.8~225mm	Ø20x1.2mm			curved surface and normal workpieces
ISU-G7M-P06 (optional)	dual element	7.5MHz	9mm	0.8~50mm	Ø15x1.2mm			curved surface and small workpieces
ISU-G2M-P12 (optional)	dual element	2MHz	17mm	3~700mm	Ø30x4mm	±0.05mm/0.5%H* (take the larger one)		castings and thick workpieces
ISU-H3M-P12 (optional)	dual element	3MHz	15mm	2~200mm	Ø25x3mm	±0.05mm/0.5%H* (take the larger one)	-10~310°C	workpieces with high temperature

* H is the measured thickness in mm
** Delay blockers, suitable for transducer **ISU-S15-P06**

ULTRASONIC THICKNESS GAGE CODE ISU-720D

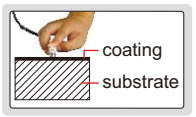
DATA OUTPUT | WITH A AND B SCAN | PENETRATE NON-METALLIC COATING AND MEASURE THE THICKNESS OF METAL SUBSTRATES

- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
  – E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrates, can penetrate coating and measure the thickness of substrates
  – T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance
- Automatic power off

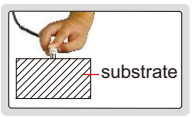


SPECIFICATION (ON STEEL)

Measuring range	refer to specification of transducers
Resolution	0.1/0.01mm
Accuracy	±0.04mm (H<10mm) ±(0.04+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm
Frequency	refer to specification of transducers
Display	320×240, color screen display
Velocity	1000~9999m/s
Measuring frequency	2 times/second and 10 times/second
Operation temperature of main unit	-20~50°C
Output	USB
Measuring unit	mm/inch
Power supply	2×1.5V AA batteries
Dimension	133×75×29mm
Weight	260g (including batteries)



Echo-Echo mode (E-E)



Transmit-Echo mode (T-E)

VIDEO

transducer **ISU-T04** (**optional**)



transducer **ISU-T06** (**optional**)



transducer **ISU-T08** (**optional**)



transducer **ISU-T12** (**optional**)



transducer **ISU-T13** (**optional**)



transducer **ISU-T25** (**optional**)



STANDARD DELIVERY

Main unit	1 pc
Bicrystal transducer ISU-T07	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc

OPTIONAL ACCESSORY

Transducer	ISU-T04, ISU-T06, ISU-T08, ISU-T12, ISU-T13, ISU-T25
Couplant (for ISU-T13)	ISU-HT5-COUPLANT

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Mode	Frequency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07 (included)	T-E E-E	5.0MHz	13.2mm	T-E mode: 1.5~200mm E-E mode: 3~25mm	T-E mode: Ø25×3mm	-20~60°C	general use
ISU-T04 (optional)	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
ISU-T08 (optional)	T-E	5.0MHz	11mm	0.8~300mm	Ø25×1.2mm	-20~60°C	general use
ISU-T12 (optional)	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature
ISU-T25 (optional)	T-E	1.0MHz	26mm	3~200mm	–	-20~60°C	for fiberglass and organic material

DATA OUTPUT

WITH A AND B SCAN

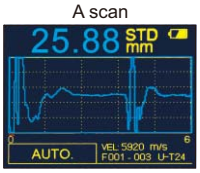
ULTRASONIC THICKNESS GAGE (FOR THICK WORKPIECES MADE OF ORGANIC MATERIALS) CODE ISU-710D

VIDEO

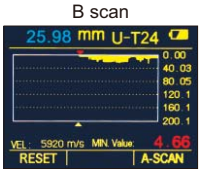


- For thick workpieces made of organic materials
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance
- Automatic power off

A scan



B scan



SPECIFICATION (ON STEEL)

Measuring range		20~590mm
Resolution		0.1/0.01mm
Accuracy		±(0.04+H/1000)mm (H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm
Transducer	**type**	single element transducer
	frequency	1.0MHz
	diameter (Ød)	26mm
Display		320×240, color screen display
Velocity		1000~9999m/s
Measuring frequency		2 times/second and 10 times/second
Operation temperature		main unit: -20~50°C transducer: -20~60°C
Output		USB
Measuring unit		mm/inch
Power supply		2×1.5V AA batteries
Dimension		133×75×29mm
Weight		260g (including batteries)

STANDARD DELIVERY

Main unit	1 pc
Transducer	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc

ULTRASONIC THICKNESS GAGE (FOR THIN WORKPIECES) CODE ISU-700D

DATA OUTPUT

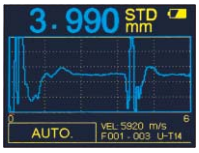
WITH A AND B SCAN

VIDEO

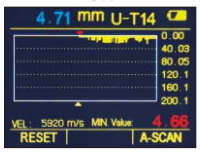


- For thin workpieces
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance
- Automatic power off

A scan



B scan



SPECIFICATION (ON STEEL)

Measuring range		Transmit-echo (T-E) mode: 1.5~20mm
		Echo-echo (E-E) mode: 0.2~10mm
Resolution		0.1/0.01/0.001mm
Accuracy		±0.04mm (H<10mm) ±(0.04+H/1000)mm (H≥10mm) H is the thickness to be measured in mm
Transducer	**type**	single element transducer
	frequency	15.0MHz
	diameter (Ød)	7.5mm
Display		320×240, color screen display
Velocity		1000~9999m/s
Measuring frequency		2 times/second and 10 times/second
Operation temperature		main unit: -20~50°C transducer: -20~60°C
Output		USB
Measuring unit		mm/inch
Power supply		2×1.5V AA batteries
Dimension		133×75×29mm
Weight		260g (including batteries)

transducer protective sleeve (included)



STANDARD DELIVERY

Main unit	1 pc
Transducer	1 pc
Transducer protective sleeve	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc

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PENETRATE NON-METALLIC COATING AND MEASURE THE THICKNESS OF METAL SUBSTRATE

VIDEO | DATA OUTPUT | INSPECTION CERTIFICATE

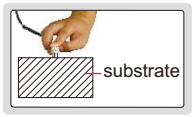
ULTRASONIC THICKNESS GAGE (THROUGH COATING) CODE ISU-300D

- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
  – E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrates, can penetrate coating and measure the thickness of substrates
  – T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- Tolerance measurement
- Average calculation of maximum 9 readings
- Data can be input to Excel and Word as keyboard signal



SPECIFICATION (ON STEEL)

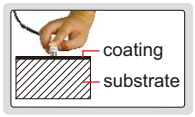
Measuring range	refer to specification of transducers
Resolution	0.1/0.01mm
Accuracy	±0.04mm (H<10mm) ±(0.04+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm
Velocity	1000~9999m/s
Operation temperature of main unit	-20~50°C
Output	USB
Measuring unit	mm/inch
Power supply	2×1.5V AAA batteries
Dimension	116×64×27mm
Weight	220g



Transmit-Echo mode (T-E)


transducer **ISU-T04** (**optional**)


transducer **ISU-T06** (**optional**)



Echo-Echo mode (E-E)


transducer **ISU-T12** (**optional**)


transducer **ISU-T13** (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Transducer ISU-T07	1 pc
Battery (AAA)	2 pcs
Couplant (for ISU-T04, ISU-T06, ISU-T07, ISU-T12)	1 bottle
USB cable	1 pc

OPTIONAL ACCESSORY

Transducer	ISU-T04, ISU-T06, ISU-T12, ISU-T13
Couplant (for ISU-T13)	ISU-HT5-COUPLANT

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Mode	Frequency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07 (included)	T-E E-E	5.0MHz	13.2mm	T-E mode: 1.5~200mm E-E mode: 3~25mm	T-E mode: Ø25×3mm	-20~60°C	general use
ISU-T04 (optional)	T-E	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
ISU-T12 (optional)	T-E	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature

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ULTRASONIC THICKNESS GAGE
CODE ISU-250C

INSPECTION CERTIFICATE

DATA OUTPUT

VIDEO



- Measure the thickness from one side of objects, suitable for pipes, tanks, etc.
- Applicable material: metal, plastic, glass, nylon, resin, ceramic, ice
- Tolerance measurement
- Average calculation of 9 readings
- Data can be input to Excel and Word as keyboard signal

SPECIFICATION (ON STEEL)

Measuring range	refer to specification of transducers
Resolution	0.1/0.01mm
Accuracy	±0.04mm (H<10mm) ±(0.04+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm
Velocity	1000-9999m/s
Operation temperature of main unit	-20~50°C
Output	USB
Measuring unit	mm/inch
Power supply	2×1.5V AAA batteries
Dimension	64×116×27mm
Weight	220g





transducer **ISU-T06** (**optional**)



transducer **ISU-T13** (**optional**)



transducer **ISU-T04** (**optional**)



transducer **ISU-T12** (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Transducer ISU-T08	1 pc
Battery (AAA)	2 pcs
Couplant (for ISU-T04, ISU-T06, ISU-T08, ISU-T12)	1 bottle
USB cable	1 pc

OPTIONAL ACCESSORY

Transducer	**ISU-T04, ISU-T06, ISU-T12, ISU-T13**
Couplant (for ISU-T13)	**ISU-HT5-COUPLANT**

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Frequency	Diameter (Ød)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T08 (included)	5.0MHz	11mm	0.8~300mm	Ø25×1.2mm	-20~60°C	general use
ISU-T04 (optional)	10.0MHz	6mm	0.7~20mm	Ø15×1mm	-20~60°C	for small tubes
ISU-T06 (optional)	7.5MHz	9mm	0.7~50mm	Ø15×1.2mm	-20~60°C	for thin workpieces
ISU-T12 (optional)	2.0MHz	17mm	2~400mm	Ø40×3mm	-20~60°C	for casting iron
ISU-T13 (optional)	5.0MHz	15mm	3~100mm	Ø25×2mm	0~350°C	for high temperature

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ATTENTION: NOT SUITABLE FOR CASTINGS AND ALUMINUM WORKPIECES

ULTRASONIC THICKNESS GAGE (BASIC TYPE)
CODE ISU-100D

INSPECTION CERTIFICATE

POPULAR MODEL

VIDEO





- Measure the thickness from one side of objects, suitable for pipes, tanks, etc.
- Applicable material: steel, stainless steel, glass, copper, brass, polystyrene, titanium, etc.

SPECIFICATION (ON STEEL)

Measuring range		0.8~300mm
Resolution		0.1/0.01mm
Accuracy		±0.05mm (H<10mm) ±(0.05+H/1000)mm (10≤H<100mm) ±H/333mm (H≥100mm) H is the thickness to be measured in mm
Transducer	frequency	5MHz
	diameter (Ød)	10.8mm
Minimum size of pipes		20×1.2mm (diameter×wall thickness)
Velocity		1000-9999m/s
Operation temperature		main unit: -20~50°C transducer: -20~60°C
Measuring unit		mm/inch
Power supply		2×AAA batteries
Dimension		114×64×28mm
Weight		200g

STANDARD DELIVERY

Main unit	1 pc
Transducer	1 pc
Couplant	1 bottle
Battery (AAA)	2 pcs

STANDARD TEST BLOCKS FOR ULTRASONIC THICKNESS GAGES

INSPECTION CERTIFICATE

STEP WEDGE BLOCKS CAN BE CUSTOMIZED



cylinder block

Cylinder block set (17 blocks are included) (mm)

Code	Material	Diameter	Thickness	Accuracy	QTY
ISU-ST	45#	Ø20	0.5	±0.01	1 pc
	45#	Ø20	1		1 pc
	45#	Ø20	1.2		1 pc
	45#	Ø20	1.5		1 pc
	45#	Ø20	2		1 pc
	45#	Ø20	3.3		1 pc
	45#	Ø20	5.5		1 pc
	45#	Ø20	7.7		1 pc
	45#	Ø20	10		1 pc
	45#	Ø20	15		1 pc

- Supplied with manufacturer inspection certificate
- Material of step wedge blocks can be customized

Cylinder block set (17 blocks are included) (mm)

Code	Material	Diameter	Thickness	Accuracy	QTY
ISU-ST	45#	Ø20	20	±0.02	1 pc
	45#	Ø20	25		1 pc
	45#	Ø20	50		1 pc
	45#	Ø20	75		1 pc
	45#	Ø20	100	±0.05	1 pc
	45#	Ø20	150		1 pc
	45#	Ø20	200		1 pc



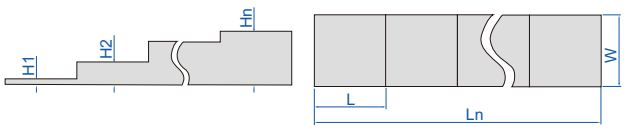
round tube block

Round tube block set (2 blocks are included) (mm)

Code	Material	Outer diameter	Wall thickness	Accuracy	Length	QTY
ISU-SWT	45#	Ø30	2	±0.02	40	1 pc
	45#	Ø40	3	±0.02	40	1 pc



step wedge block



Step wedge blocks (mm)

Code	Material	QTY of steps (n)	Thickness							Accuracy	Width (W)	Length of each step (L)	Total length (Ln)
			H1	H2	H3	H4	H5	H6	H7				
ISU-S4A	45#	4	6.25	12.5	18.75	25	-	-	-	±0.02	20	20	80
ISU-S4B	45#	4	5	10	15	20	-	-	-	±0.02	20	20	80
ISU-S5A	45#	5	2.5	5	7.5	10	12.5	-	-	±0.02	20	20	100
ISU-S5B	45#	5	2	4	6	8	10	-	-	±0.02	20	20	100
ISU-S7A	45#	7	3	12.5	24	30	36	42	48	±0.02	40	40	280
ISU-S7B	45#	7	1	1.5	2	4	6	8	10	±0.02	40	40	280

NON-CONTACT TACHOMETER CODE 9223-120

- Accurately measure the rotary speed without contact
- Automatically save the maximum value, minimum value and the last value, 500 data can be stored during continuous measurement

SPECIFICATION

Measuring range	2.5~99999RPM
Resolution	0.1RPM (range 2.5~999.9RPM) 1RPM (range 1000~99999RPM)
Accuracy	±(0.05%n+1d)RPM n is rotary speed, d is resolution
Laser power	CLASS 3R, 3mW~4mW
Sampling time	0.6 second (above 100RPM)
Measuring distance	50~500mm
Operation temperature	0~40°C
Power supply	3×AA batteries
Dimension	180×71×29.9mm
Weight	145g



reflection sticker (included)



STANDARD DELIVERY

Main unit	1 pc
Reflection sticker	3 pcs
Battery (AA)	3 pcs

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CONTACT TACHOMETER
CODE 9224-213

- Can measure rotary speed, line speed and line length
- Automatically save the maximum value, minimum value and the last value, 96 data can be stored during continuous measurement
- With backlight display




cone cavity head (included)


clamping sleeve (included)


cone head (included)


small cone head (included)

SPECIFICATION

Measuring range	rotary speed	0.5~19999RPM
	line speed	0.05~500m/min
	line length	0.05~99999m
Resolution	rotary speed	0.1RPM (range 0.5~999.9RPM) 1RPM (range 1000~19999RPM)
	line speed	0.01m/min (range 0.05~99.99m/min) 0.1m/min (range 100~500m/min)
	line length	0.02m
Accuracy	rotary speed	±(0.4%n+1d)RPM (n<300RPM) ±(0.05%n+1d)RPM (n≥300RPM) n is rotary speed, d is resolution
	line speed	±(1%+1d)m/min d is resolution
	line length	±(1%+1d)m d is resolution
Sampling time		0.8s (above 60RPM)
Operation temperature		0~40°C
Power supply		3×AA batteries
Dimension		171×71×35mm
Weight		162g

STANDARD DELIVERY

Main unit	1 pc
Wheel with 0.1m perimeter	1 pc
Clamping sleeve	1 pc
Cone head	1 pc
Small cone head	1 pc
Cone cavity head	1 pc
Battery (AA)	3 pcs


wheel with 0.1m perimeter (included)

CONTACT/NON-CONTACT TACHOMETER
CODE 9225-405

- 2 measuring method, contact and non-contact
- Can measure rotary speed and line speed
- Automatically save the maximum value, minimum value and the last value, 500 data can be stored during continuous measurement
- Automatic power off


cone head (included)


cone cavity head (included)


reflection sticker (included)


wheel with 0.1m perimeter (included)


small cone head (included)


clamping sleeve (included)



SPECIFICATION

Measuring method		Non-contact	Contact
Measuring range	rotary speed	2.5~99999RPM	0.5~19999RPM
	line speed	—	0.05~500m/min
Resolution	rotary speed	0.1RPM (range 2.5~999.9RPM) 1RPM (range 1000~99999RPM)	0.1RPM (range 0.5~999.9RPM) 1RPM (range 1000~19999RPM)
	line speed	—	0.01m/min (range 0.05~99.99m/min) 0.1m/min (range 100~500m/min)
Accuracy	rotary speed	±(0.05%n+1d)RPM n is rotary speed, d is resolution	±(0.4%n+1d)RPM (n<300RPM) ±(0.05%n+1d)RPM (n≥300RPM) n is rotary speed, d is resolution
	line speed	—	±(1%+1d)m/min d is resolution
Laser power		CLASS 3R, 3mW~4mW	—
Sampling time		0.6s (above 100RPM)	
Measuring distance		50~500mm	—
Operation temperature		0~40°C	
Power supply		3×AA batteries	
Dimension		206×71×36mm	
Weight		170g	

STANDARD DELIVERY

Main unit	1 pc
Reflection sticker	3 pcs
Wheel with 0.1m perimeter	1 pc
Clamping sleeve	1 pc
Cone head	1 pc
Small cone head	1 pc
Cone cavity head	1 pc
Battery (AA)	3 pcs

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DIGITAL LED TACHOMETER/STROBOSCOPE
CODE ISQ-TS120K

- Make cyclical motion (rotation, vibration, etc.) objects to appear slow-moving or stationary
- On-line inspection or observation for moving objects
- Measure the rotation or vibration speed and frequency
- Can be triggered from outside by moving objects, make LED flash frequency same as the rotation or vibration



VIDEO

SPECIFICATION

Flash frequency range		60~120000FPM (flash per minute), 1~2000Hz
Resolution	FPM	0.1FPM (<100000FPM), 1FPM (≥100000FPM)
	HZ	0.01Hz (<200Hz), 0.1Hz (≥200Hz)
Setting accuracy		±0.01%
Phase shift increment		3°
Flash pulse duration time		0.1~2.5°
LED light		3 pcs CREE 10W lamp
LED life		3~5 years
Trigger mode		internal and external
Power supply		built-in rechargeable battery or AC/DC adapter
Dimension		208×70×60mm
Weight		380g

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
Proximity trigger	1 pc

proximity trigger (included)





make LED flash frequency same as the rotation or vibration (power supply from AC/DC adapter when external trigger is used)

VIBRATION PEN (THREE PARAMETERS)
CODE 0020-A199



- Acceleration, velocity and displacement can be tested
- Automatic power off

27

SPECIFICATION

Parameter	acceleration	velocity	displacement
Measuring range	0.01~199.9m/s² (peak value)	0.01~199.9mm/s (virtual value)	0.001~1.999mm (peak~peak value)
Frequency	10Hz~1kHz	10Hz~1kHz	10Hz~500Hz
Frequency response	±5% (≥20Hz) -20%~+10% (<20Hz)		
Linearity	±(5%+2unit)		
Indeterminacy of sensitivity	≤3%		
Operation temperature	0°C~40°C/32°F~104°F		
Operation humidity	<85%		
Power supply	2×LR44 battery (for 10 hours working)		
Dimension	150x22x18mm		
Weight	55g		

STANDARD DELIVERY

Main unit	1 pc
LR44 battery	2 pcs

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VIBRATION PEN
CODE 9720-199

SPECIFICATION

Measured parameter	speed
Measuring range	0.1~199.9mm/s
Frequency	10Hz~1KHz
Accuracy	±(5%±2)mm/s
Operation temperature	0°C~40°C
Operation humidity	<85%
Power supply	2×LR44 batteries (for 10 hours wroking)
Dimension	150x22x18mm
Weight	55g

- Measure vibration of motors, fans, pumps, compressors and machine tools to prevent mechanical failure
- Small size, light weight, low energy consumption, easy operation, easy to carry
- One key control
- Automatic power off

STANDARD DELIVERY

Main unit	1 pc
LR44 battery	2 pcs



VIDEO

PORTABLE VIBRATION CALIBRATOR
CODE 0021-AS159

- Quick, easy calibration and checking of vibration measurement, monitoring and recording system

SPECIFICATION

Frequency	159.2Hz±1%
Acceleration	10m/s²±3% (RMS)
Distortion	<5%
Transverse vibration	<5%
Warm-up time	<20s
Maximum load	70g
Mounting thread	M5×0.8mm
Operation temperature	0°C~40°C
Operation humidity	10%RH~90%RH, non-condensing
Power supply	rechargeable lithium battery, working time≥5h
Dimension	Ø54.5×147mm
Weight	620g



VIDEO

STANDARD DELIVERY

Main unit	1 pc
Power adapter	1 pc

PEN-TYPE DIGITAL MULTIMETER
CODE 9241-ML200

VIDEO

- Auto/manual ranging
- Maximum mode
- Data hold
- NCV detection
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V



test lead (included)



clips (included)



SPECIFICATION

Function	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/0.1V/1V	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.8%+3)
	600V	1V	±(1.0%+3)
DC Current	20mA/200mA	10μA/0.1mA	±(1.5%+3)
AC Current	20mA/200mA	10μA/0.1mA	±(2.0%+3)
Resistance	200Ω	0.1Ω	±(1.0%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/0.1kΩ/1kΩ	±(1.0%+1)
	20MΩ	10kΩ	±(1.0%+5)
Logic level test	<1.5V (green LED on); 1.5~3.5V (green & red LED off); >3.5V (red LED on)		
Diode	open circuit voltage 1.5V		
Continuity buzzer	<50Ω		
Power supply	2×1.5V AAA batteries		

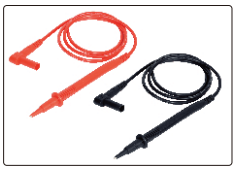
STANDARD DELIVERY

Main unit	1 pc
Test lead	1 pc
Clip	2 pcs
Battery (AAA)	2 pcs

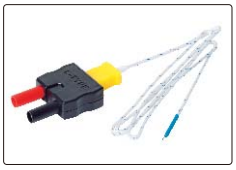
DIGITAL MULTIMETER
CODE 9216-F520



- 2000 counts digital display
- Auto ranging (except 200mV AC)
- Data hold
- Max hold
- Display with backlight
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V



test leads (included)



temperature probe and adapter (included)

SPECIFICATION

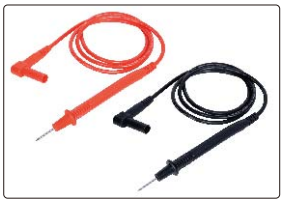
Function	Range	Resolution	Accuracy ("d" is the least reading)
DC Voltage	200mV	0.1mV	±(0.5%+2d)
	2V/20V/200V	0.001V/0.01V/0.1V	±(1.0%+2d)
	600V	1V	±(1.2%+2d)
AC Voltage (50~60Hz)	200mV	0.1mV	±(1.5%+30d)
	2V	0.001V	±(1.2%+3d)
	20V/200V	0.01V/0.1V	±(1.5%+3d)
	600V	1V	±(2.0%+4d)
DC Current	200μA	0.1μA	±(1.0%+3d)
	2000μA/20mA/200mA	1μA/0.01mA/0.1mA	±(1.5%+3d)
	10A	0.01A	±(2.5%+5d)
AC Current (50~60Hz)	200μA	0.1μA	±(1.5%+5d)
	2000μA/20mA/200mA	1μA/0.01mA/0.1mA	±(1.8%+5d)
	10A	0.01A	±(3.0%+7d)
Resistance	200Ω	0.1Ω	±(1.2%+4d)
	2kΩ	0.001kΩ	±(1.0%+2d)
	20kΩ/200kΩ/2MΩ	0.01kΩ/0.1kΩ/0.001MΩ	±(1.2%+2d)
	20MΩ	0.01MΩ	±(2.0%+3d)
Temperature (type-K)	-50°C to 1000°C	1°C	±(3.0%+5°C)
	-58°F to 1832°F	1°F	±(3.0%+8°F)
Diode test	test current: 0.3mA typical	1mV	±(10%+5d)
Continuity check	less than 100Ω		
Power supply	9V battery		
Dimension (LxWxH)	150×70×48mm		
Weight	255g		

STANDARD DELIVERY

Main unit	1 pc
Thermocouple adapter	1 pc
Temperature probe	1 pc
9V battery	1 pc
Test lead	2 pcs

MINI DIGITAL MULTIMETER (BASIC TYPE)
CODE 9242-ML100A

- Portable size with protective case
- 2000 counts digital display
- 10A fuse protection
- Low battery indication
- Safety rating: CAT III 600V



test leads (included)

POPULAR MODEL

VIDEO



SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
DC Voltage	200mV/2000mV/20V	0.1mV/1mV/0.01V	±(0.5%+2d)
	200V/600V	0.1V/1V	±(1.0%+2d)
AC Voltage (50/60Hz)	200V/600V	0.1V/1V	±(1.2%+10d)
DC Current	2000μA/20mA	1μA/0.01mA	±(1.0%+2d)
	200mA	0.1mA	±(1.2%+2d)
	10A	0.01A	±(2.0%+2d)
Resistance	200Ω/2000Ω/20kΩ/200kΩ	0.1Ω/1Ω/0.01kΩ/0.1kΩ	±(0.8%+2d)
	2000kΩ	1kΩ	±(1.0%+2d)
Battery test	9V	0.01V	±(1.0%+2d)
	1.5V	0.001V	±(1.0%+2d)
Diode test	open circuit voltage 2.8V DC		
Continuity check	<30Ω		
Power supply	1×9V 6F22 battery		
Dimension (LxWxH)	122×61×40mm		
Weight	150g		

STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs
9V battery	1 pc

SMART DIGITAL MULTIMETER
CODE 9247-190



test leads (included)

VIDEO



- Automatically identify test modes for AC voltage/DC voltage/resistance/continuity
- NCV detection and judge the strength by light and buzzer
- Self-calibration when power on to ensure accuracy
- LIVE firewire recognition
- Display with backlight
- True RMS measurement
- Data hold
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V

STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs
Battery (CR2032)	2 pcs

SPECIFICATION

Function	Range	Resolution	Accuracy
DC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(0.5%+3)
AC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(1.0%+3)
DC Current	6000μA/60mA/600mA	1μA/0.01mA/0.1mA	±(1.2%+5)
AC Current	6000μA/60mA/600mA	1μA/0.01mA/0.1mA	±(1.5%+5)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(1.0%+5)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.5%+3)
Capacitance	6nF/60nF/600nF/6μF/60μF/600μF	0.001nF/0.01nF/0.1nF/0.001μF/0.01μF/0.1μF	±(4.0%+5)
	6mF/60mF	0.001mF/0.01mF	±(5.0%+5)
Frequency	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz/0.01kHz/0.1kHz	±(1.0%+5)
	10MHz	0.001MHz	±(3.0%+5)
Duty cycle	1~99%	0.1%	±(3.0%+5)
Diode measurement	open circuit voltage 2.0V		
Continuity measurement	<50Ω		
Power	2×3V CR2032 batteries		
Dimension (LxWxH)	133×68×18mm		
Weight	178g		

DIGITAL MULTIMETER (WITH JACK INDICATOR LIGHT)
CODE 9246-180

VIDEO



- Jack indicator light: jacks flash green to indicate the corresponding jacks for test leads
- NCV detection and judge the strength by light and buzzer
- Self-calibration when power on to ensure accuracy
- LIVE firewire recognition
- Double color backlight (orange backlight prompts high voltage or current: the orange backlight automatically lights up when voltage is higher than 80V or the current is higher than 1A)
- Large range capacitance meter 100mF
- True RMS measurement
- Battery test function
- Max/Min mode
- Data hold
- Low battery indication
- Auto power off
- Safety rating: CAT III 1000V, CAT IV 600V



test leads (included)

STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs
Battery (AA)	2 pcs

SPECIFICATION

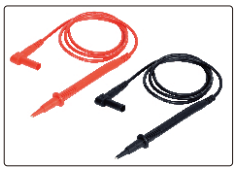
Function	Range	Resolution	Accuracy
DC Voltage	600mV/6V/60V/600V/1000V	0.1mV/0.001V/0.01V/0.1V/1V	±(0.5%+3)
AC Voltage	6V/60V/600V/750V	0.001V/0.01V/0.1V/1V	±(0.8%+5)
DC Current	60μA/60mA/600mA/10A	0.01μA/0.01mA/0.1mA/0.01A	±(1.2%+3)
AC Current	60mA/600mA/10A	0.01mA/0.1mA/0.01A	±(1.5%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(1.0%+3)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.5%+3)
Capacitance	10nF/100nF/1000nF/10μF/100μF/1000μF	0.001nF/0.01nF/0.1nF/0.001μF/0.01μF/0.1μF	±(4.0%+5)
	10mF/100mF	0.001mF/0.01mF	±(5.0%+5)
Frequency	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz/0.01kHz/0.1kHz	±(1.0%+3)
	10MHz	0.001MHz	±(3.0%+3)
Duty cycle	1~99%	0.1%	±(3.0%+3)
Diode measurement	forward DC current 2.5mA, reverse DC voltage 3.0V		
Continuity measurement	<30Ω		
Power	2x1.5V AA batteries		
Dimension (LxWxH)	188×88×50mm		
Weight	424g		

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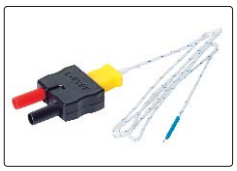
DIGITAL AC/DC CLAMP METER
CODE 9315-CF210

- 4000 counts LCD display
- 30mm jaw opening
- True RMS measurement
- NCV detection
- REL (zero) function
- Data hold
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V





test leads (included)



temperature probe and adapter (included)

SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
AC Current (50/60Hz) *	40A	0.01A	±(2.5%+8d)
	400A	0.1A	±(2.8%+5d)
DC Current	40A	0.01A	±(2.5%+5d)
	400A	0.1A	±(2.8%+5d)
AC Voltage (50-400Hz)**	4V/40V/400V	0.001V/0.01V/0.1V	±(1.5%+5d)
	600V	1V	±(2.0%+5d)
DC Voltage	400mV	0.1mV	±(0.8%+2d)
	4V/40V/400V	0.001V/0.01V/0.1V	±(1.5%+2d)
	600V	1V	±(2.0%+2d)
Resistance	400Ω	0.1Ω	±(1.0%+4d)
	4kΩ/40kΩ/400kΩ	0.001kΩ/0.01kΩ/0.1kΩ	±(1.5%+2d)
	4MΩ	0.001MΩ	±(2.5%+3d)
	40MΩ	0.01MΩ	±(3.5%+5d)
Capacitance	40nF	0.01nF	±(4.0%+20d)
	400nF/4μF/40μF	0.1nF/0.001μF/0.01μF	±(3.0%+5d)
	400μF	0.1μF	±(4.0%+10d)
	4mF	0.001mF	±(5.0%+10d)
Frequency	10Hz/100Hz/1kHz/10kHz	0.01Hz/0.1Hz/0.001kHz/0.01kHz	±(1.2%+2d)
Duty cycle	0.5% to 99.0%	0.1%	±(1.2%+2d)
Temperature (type-K)	-20°C to 760°C	1°C	±(3.0%+5°C)
	-4°F to 1400°F	1°F	±(3.0%+9°F)
Power supply	2x1.5V AAA batteries		
Dimension (LxWxH)	210x75x45mm		
Weight	255g		

STANDARD DELIVERY

Main unit	1 pc
Thermocouple adapter	1 pc
Temperature probe	1 pc
Battery (AAA)	2 pcs
Test lead	2 pcs

* All AC current/voltage ranges are specified from 5% to 100% of range

** AC voltage bandwith: 50 to 400Hz (sine); 50 to 60Hz (all waves)

AC PHASE AND VOLTAGE DETECTOR
CODE 9723-400

- Non-contact detection of phase sequence, high and low voltage, wire distinction
- Low battery indication
- Auto power off
- Flashlight



VIDEO

SPECIFICATION

Phase sequence detection	screen shows clockwise or counterclockwise
High and low voltage detection	beep: slow~fast backlight: green~red analog bar: low~high
Wire distinction	green backlight indicates neutral wire red backlight indicates live wire
Power supply	2×1.5V AAA batteries
Dimension	157×27×23mm
Weight	32g

DIGITAL VOLTAGE TESTER
CODE 9721-250

- Direct AC test (contact): 12-250V
  two way display: voltage displays on LCD screen and neon lamp lights up (when voltage>80V)
- Induction AC test (non-contact): 12-250V
  to detect power source or recognize the phase line, ground line and break point
- Direct DC test (contact): 6-36V
  instant sense and display
- Work without battery
- Tester tip: CRV material



SPECIFICATION

Range	AC: 12-250V; DC: 6-36V
Neon lamp life	30000 times
Dimension	133×21×19mm
Weight	22g

VOLTAGE TESTER
CODE 9722-250

- Tester tip: CRV material

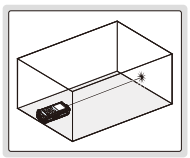


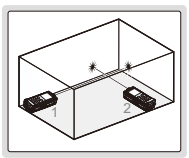
SPECIFICATION

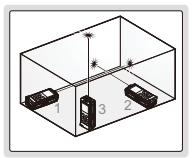
Range	AC: 100-250V
Neon lamp life	30000 times
Dimension	145×Ø15mm
Weight	21g

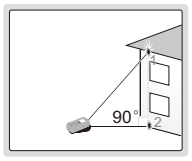
LASER DISTANCE METERS

- High accuracy models: **9561-50B**, **9561-70B**
  Low accuracy models: **9561-50B-F**, **9561-70B-F**
- Large display with backlight
- Unit: m, ft, in, ft+in
- Distance, area, volume and height measurement
- Continuos measuring mode to track maximum and minimum value
- Memory of 30 measurement values
- Automatic power off: laser 30s, main unit 180s


distance measurement


area measurement


volume measurement



height measurement





9561-50B

SPECIFICATION

Code	9561-50B	9561-70B	9561-50B-F	9561-70B-F
Measuring range	0.2~50m	0.2~70m	0.2~50m	0.2~70m
Resolution	0.001m, .001ft, 1/16"			
Accuracy	±(3+D/20)mm D: measured distance, unit: m		±(5+D/20)mm D: measured distance, unit: m	
Laser type	630~670nm, class II, <1mW			
Power supply	2×AAA batteries			
Dimension (L×W×H)	115×50×28mm			
Weight	95g			

STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	2 pcs

IP65 WATERPROOF

PORTABLE CONDUCTIVITY/TDS METER
CODE 0411-0200

- Reading mode: auto-read and continuous-read
- Automatic/manual temperature compensation
- Auto-hold feature senses and locks the measurement endpoint
- Cell constant is settable
- 1 point calibration with standard recognition
- Data capacity up to 200 sets for each parameter
- IP65 dust/waterproof
- Auto power off


wristband (included)


standard solution (included)



SPECIFICATION

Conductivity	range	0.00μS/cm~200mS/cm
	resolution	0.01μS/cm minimum
	accuracy	±1.0%FS
	reference temperature	25°C/77°F
	calibration point	1
	standard recognition	84μS/cm, 1413μS/cm, 12.88mS/cm
TDS	range	0.00mg/L~300g/L
	resolution	0.01mg/L minimum
	accuracy	±1.0%FS
Temperature	range	-5~110°C/23~230°F
	resolution	0.1°C/0.2°F
	accuracy	±0.2°C/±0.4°F
Input		electrode with 5-pin aviation connector
Power supply		rechargeable battery
Dimension		80×225×35mm
Weight		400g

STANDARD DELIVERY

Main unit	1 pc
Electrode	1 pc
Electrode holder	2 pcs
Wristband	1 pc
Silicone rubber case	1 pc
AC/DC adapter and charging cable	1 pc
Standard solution	1 bottle

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PORTABLE pH METER
CODE 0431-0018

IP65 WATERPROOF


standard solution (included)


wristband (included)


KCl powder (included)



- Reading mode: auto-read and continuous-read
- Automatic/manual temperature compensation
- Auto-hold feature senses and locks the measurement endpoint
- 1 or 2 points calibration with standard recognition
- Data capacity up to 200 sets for each parameter
- IP65 dust/waterproof
- Auto power off

VIDEO

SPECIFICATION

pH	range	-2.00~18.00pH
	resolution	0.01pH
	accuracy	±0.01pH
	calibration point	1 or 2
	standard recognition	NIST pH buffers: 4.01, 7.00, 10.01
Voltage	range	-1999~1999mV
	resolution	1mV
	accuracy	±0.1%FS
Temperature	range	-5~110°C/23~230°F
	resolution	0.1°C/0.2°F
	accuracy	±0.2°C/±0.4°F
Inputs		pH electrode: BNC (Q9)
		temp. probe: 4-pin aviation connector
Power supply		rechargeable battery
Dimension		80×225×35mm
Weight		400g

STANDARD DELIVERY

Main unit	1 pc
Electrode	1 pc
Electrode holder	2 pcs
Wristband	1 pc
Silicone rubber case	1 pc
AC/DC adapter and charging cable	1 pc
Standard solution	3 bottles
KCl powder	1 bottle

DIGITAL REFRACTOMETER
CODE ISQ-DRM31

SUITABLE FOR WATER BASED COOLANT



VIDEO

- Quickly measure the concentration of coolant, sugar solution, juice and drinks
- Two measurement modes: single measurement and automatic average multiple measurement
- Two units: brix and refractive index
- Refer to the refraction factor of coolant, for example: the refraction factor of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is (2.1×6%)=12.6%
- Automatic power off

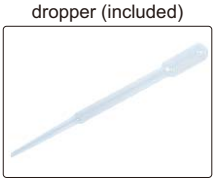
SPECIFICATION

Measuring range	0~50% (1.3330~1.4200RI)
Accuracy	±0.2% (±0.0003RI)
Resolution	0.1% (0.0001RI)
Power supply	1×AAA battery
Dimension	121×58×25mm
Weight	90g

STANDARD DELIVERY

Main unit	1 pc
Dropper	1 pc
Battery (AAA)	1 pc

dropper (included)



MINI DIGITAL REFRACTOMETER
CODE 5801-A55



SUITABLE FOR WATER BASED COOLANT

- Quickly measure the concentration of coolant
- Automatic temperature compensation
- Brix and refractive index can be displayed
- Refer to the refraction coefficient of coolant, for example: the refraction coefficient of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is (2.1×6%)=12.6%
- Automatic power off

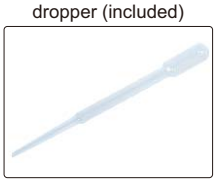
SPECIFICATION

Measuring range	0~50% (1.3330~1.4200RI)
Accuracy	±0.2% (±0.0003RI)
Resolution	0.1% (0.0001RI)
Power supply	built-in 3.7V rechargeable lithium battery
Dimension	147×46×27mm
Weight	115g (including battery)

STANDARD DELIVERY

Main unit	1 pc
Dropper	1 pc

dropper (included)



PORTABLE REFRACTOMETER
CODE ISQ-RM30

SUITABLE FOR WATER BASED COOLANT

- Quickly measure the concentration of coolant
- Refer to the refraction factor of coolant, for example: the refraction factor of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is (2.1×6%)=12.6%

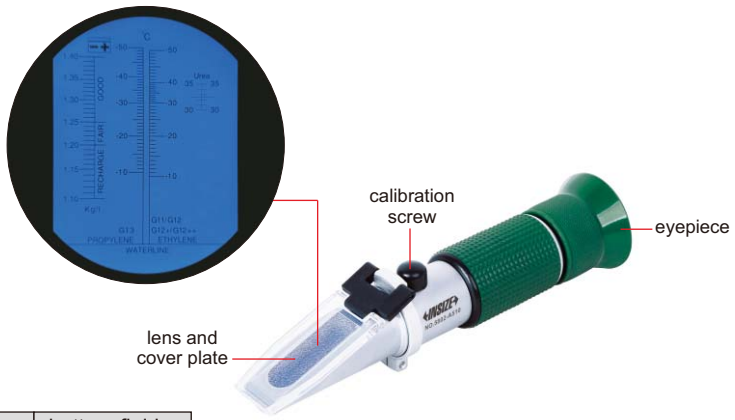


VIDEO

SPECIFICATION

Measuring range	0~32%
Graduation	0.2%
Dimension	27×40×160mm
Weight	175g

PORTABLE REFRACTOMETER FOR AUTOMOTIVE LIQUID
CODE 5802-A510



- Measure the freezing point of the antifreeze and the concentration of urea in diesel exhaust fluid
- Measure the specific gravity of battery fluid

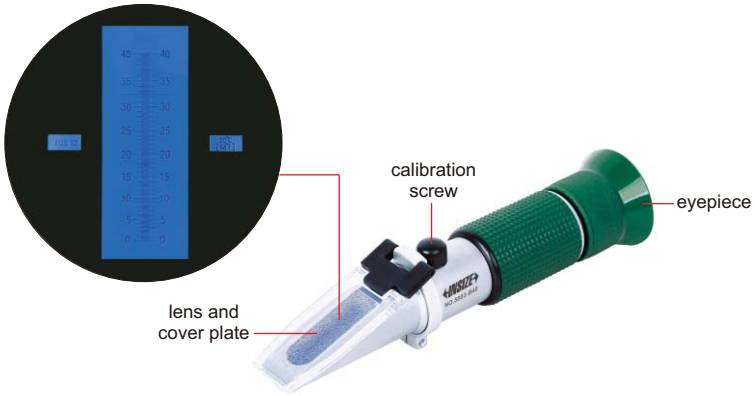
SPECIFICATION

Measuring object	ethylene glycol	propylene glycol	urea	battery fluid
Measuring range	-50~0°C	-50~0°C	30~35%	1.10~1.40kg/l
Accuracy	±5°C	±5°C	±1%	±0.02kg/l
Resolution	1°C	1°C	1%	0.01kg/l
Dimension	27x40x160mm			
Weight	172g			

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PORTABLE REFRACTOMETER FOR DIESEL EXHAUST FLUID
CODE 5803-B40

- Measure the concentration of urea in diesel exhaust fluid
- Wide measuring range



SPECIFICATION

Measuring range	0~40%
Accuracy	±0.2% (20°C)
Resolution	0.2%
Dimension	27x40x160mm
Weight	170g

DIGITAL STOPWATCH
CODE DSW-A010

- Split time, total time and continuous time can be displayed
- 10 groups of results can be read out from memory after resetting
- Scroll back and forth to read out the memory digits
- The fastest, slowest and average time can be displayed
- Able to record the split times (00-199)



SPECIFICATION

Measuring range		0~9 hours, 59 minutes, 59.99 seconds
Resolution		0.01s
Accuracy		±0.5s
Function	memory	10 groups
	timer	up to 10 hours
	time	12-hour or 24-hour time display, alarm can be set
Power supply		LR44 battery
Screen dimension		33.6×13.6mm
Dimension		76×63×16mm (metal case)

STANDARD DELIVERY

Main unit	1 pc
String	1 pc

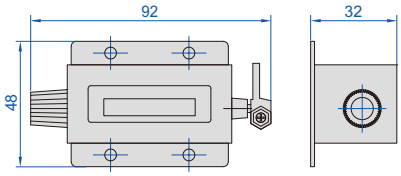
27

STROKE COUNTER
CODE 7600-6

- Accumulate and record the number of mechanical movements
- Rotate back to zero



Unit: mm



SPECIFICATION

Code	Number of digits	Range
7600-6	6	0-999999

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DIGITAL MOISTURE METER
CODE 9341-50

- Suitable for wood, smooth cement, hard gypsum, mixed mortar, brick, etc.
- Measure moisture, temperature and relative humidity
- Temperature type: ambient, dew point, wet bulb
- Maximum and minimum modes
- Automatic power off



SPECIFICATION

Measuring depth		0~50mm
Measuring range	**moisture**	0~60%
	temperature	-10~50°C/14~122°F
	relative humidity	0~100%RH
Accuracy	**moisture**	±2%
	temperature	±2%
	relative humidity	±5%RH
Resolution	**moisture**	0.1%
	temperature	0.1°C/0.1°F
	relative humidity	0.1%RH
Sampling time		0.5s for moisture
		1s for temperature and relative humidity
Power supply		2×AAA batteries
Dimension		130×56×29mm
Weight		206g

VIDEO

STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	2 pcs

INDUCTIVE MOISTURE METER
CODE 0120-IM24

- Suitable for wood, gypsum and cement
- MAX/MIN/HOLD mode
- Alarm function
- Low battery indication
- Auto power off



SPECIFICATION

Measuring range	0~100%
Resolution	1%
Accuracy	±4%
Detection depth	20~40mm
Sampling time	0.5s
Battery	9V
Dimension	185×55×38mm
Weight	193g

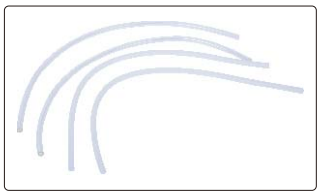
STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

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DIFFERENTIAL PRESSURE MANOMETER
CODE 0140-DP05

VIDEO



soft tubes (included)



- Offset and differential measurement
- Record maximum/minimum/average value with relative timestamp
- Built-in USB interface for data transmission
- Unit: psi, inH_2O, bar, mbar, kPa, inHg, mmHg, oz/in^2, ftH_2O, cmH_2O, kg/cm^2
- Zero adjust
- Data hold
- Display with backlight
- Low battery indication
- Automatic power off
- Safety rating: CAT III 600V

SPECIFICATION

Pressure range	-5~5psi										
Maximum pressure	20psi										
Unit	psi	inH_2O	bar	mbar	kPa	inHg	mmHg	oz/in^2	ftH_2O	cmH_2O	kg/cm^2
Range	5	138.3	0.344	344.7	34.47	10.18	258.5	80	11.53	351.5	0.351
Resolution	0.001	0.1	0.001	0.1	0.01	0.01	0.1	0.01	0.01	0.1	0.001
Accuray	±0.3%FSO (25°C)										
Repeatability	±0.2% (Max. ±0.5%FSO)										
Linearity/hysteresis	±0.29%FSO										
Response time	0.5s typical										
Operation temperature	0°C~50°C										
Power supply	1×9V 6F22 battery or AC/DC adapter										
Dimension (LxWxH)	165×90×40mm										
Weight	350g										

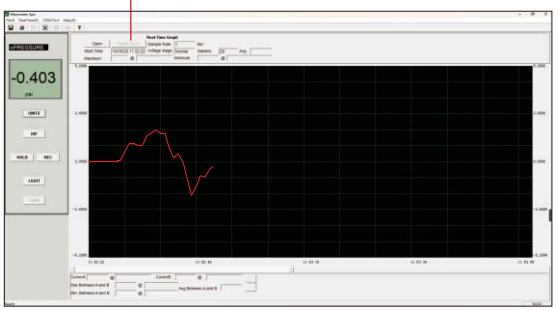
27

STANDARD DELIVERY

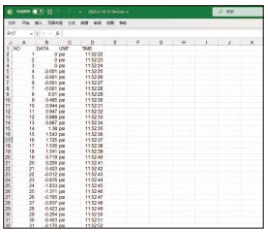
Main unit	1 pc
AC/DC adapter	1 pc
9V battery	1 pc
Software flash disk	1 pc
USB cable	1 pc
Soft tubes	4 pcs

software (included), connect to PC via USB cable

export data



display realtime value and curve

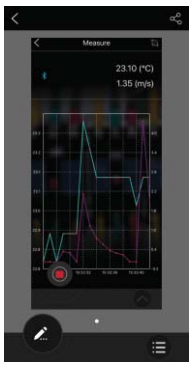


export data to Excel

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ANEMOMETER
CODE 0110-1125

App measurement



App record



- Measure air velocity and temperature
- Min/Max, data hold function
- Bluetooth 4.0
- Auto power off
- Supplied with APP for Apple and Android



SPECIFICATION

	Unit	Measuring range	Resolution	Accuracy
Air velocity	m/s	1.1~25.0	0.01	±(3%+0.3)
	km/h	4~90	0.1	±(3%+1)
	ft/min	220~4920	1	±(3%+40)
	MPH	2.5~56.0	0.1	±(3%+0.4)
	knots	2.2~48.0	0.1	
Air temperature	°C	0~50	0.1	±2
	°F	32~122	0.1	±4
Sensors	air velocity sensor, NTC-type precision thermistor			
Sampling time	0.5s			
Operation altitude	max 2000m			
Operation environment	0~50°C, 0~80%RH			
Storage environment	-10~60°C, 0~80%RH			
Auto power off	10 minutes			
Data port	bluetooth 4.0			
Power supply	9V			
Dimension	213×54×36mm			
Weight	172g			

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

CAN BE CUSTOMIZED

BOURDON TUBE PRESSURE GAGES (LIQUID FILLED)

- Stainless steel case and bezel, copper alloy internals
- Shock-proof and pulse-proof
- Suitable for pneumatic systems, hydraulic systems and compressed air systems



5201-63B2Y10

Dial size	Ø63mm		
Process connection	1/4BSP	1/4ZG	1/4NPT
Connector location	bottom	bottom	bottom
Range (0~10bar/0~150psi)	**5201-63B2Y10**	**5201-63Z2Y10**	**5201-63N2Y10**

SPECIFICATION

Accuracy class	1.6
Ambient temperature	-20~60°C
Medium temperature	≤60°C

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DIGITAL SOUND LEVEL METER (ADVANCED TYPE)
CODE 9353-413

- Automatic range conversion
- Over range indicator
- Maximum mode
- Data hold
- AC signal output: 0.707Vrms, impedance approx.100Ω
  DC signal output: 20mV/dB, impedance approx.1kΩ



SPECIFICATION

Measuring range	40dB~130dB (ref.20μPa)
Frequency	20Hz~12.5kHz
Resolution	0.1dB
Accuracy	IEC 61672-1:2013 class 2
Frequency weighting	A weighting
Response time	fast (125ms), slow (1s)
Microphone	pre polarization condenser microphone
Refercner direction	axial direction of condenser microphone
Power supply	4×1.5V AAA batteries
Dimension	210×68×27mm
Weight	240g

STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	4 pcs
Precision screwdriver	1 pc

SOUND LEVEL METER (BASIC TYPE)
CODE 0010-A35

App measurement



App record



- Auto range selection
- Over range indication
- Display backlight
- Min/Max, data hold function
- Bluetooth 4.0
- Auto power off
- Supplied with APP for Apple and Android



SPECIFICATION

Frequency	31.5Hz~8KHz
Measuring range	35dB~130dB
Accuracy	±3.0dB (ref 94dB@1kHz)
Resolution	0.1dB
Frequency weighting	A and C
Display update	2 times/sec
Microphone	1/2 inch electret condenser microphone
Power supply	9V battery
Operation temperature and humidity	0°C~40°C/32°F~104°F, 10%RH~90%RH
Dimension	185×54×36mm
Weight	184g

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc
Windscreen	1 pc

DATA OUTPUT

DIGITAL SOUND LEVEL METER
CODE 9351-130

- Automatically select best range: 30~80dB, 40~90dB, 50~100dB, 60~110dB, 70~120dB, 80~130dB
- Over range indicator
- Real time, average, maximum modes
- Memory 16000 measurement values
- AC signal output: 0.707 Vrms at FS, impedance approx. 600Ω
  DC signal output: 10mV/dB, impedance approx.100Ω
- Automatic power off



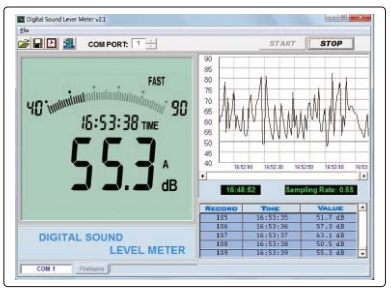
SPECIFICATION

Measuring range	30~130dB
Accuracy	±2dB
Resolution	0.1dB
Sampling time	0.5s for digital, 0.05s for analogue
Response time	fast: 125ms, slow: 1s
Frequency	30Hz~8KHz
Frequency weighting	A/C
Microphone	electret condenser type
Output	RS232, AC/DC
Power supply	6×AAA batteries
Dimension	265×80×69mm
Weight	317g



software flash disk (included)

VIDEO



software (included), display measurement values and graph, save and output data

STANDARD DELIVERY

Main unit	1 pc
Software and RS232 cable	1 pc
Output connector	1 pc
Battery (AAA)	6 pcs

LIGHT METER
CODE 0131-A120

- Photosensor can rotate 90° clockwise and 180° counterclockwise
- Build-in calibration filters ensure the accuracy when working in different colors
- Data hold function
- Lux/FC unit switch
- Low battery alarm



SPECIFICATION

Measuring range	0.1~199.9Lux	1~1999Lux	10~19990Lux	100~199900Lux
Resolution	0.1Lux	1Lux	10Lux	100Lux
Measuring range	0.01~19.99FC	0.1~199.9FC	1~1999FC	10~19990FC
Resolution	0.01FC	0.1FC	1FC	10FC
Accuracy	±(4%+10d), range<20000Lux/2000FC ±(5%+10d), range≥20000Lux/2000FC (d is resolution, calibrated with standard incandescent lamp at color temperature 2856K)			
Repeatability	±2%			
Sampling time	0.5s			
Operation environment	0~40°C, 0~70%RH			
Storage environment	-10~50°C, 0~80%RH			
Battery	9V			
Dimension	185×68×38mm			
Weight	130g			

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

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LIGHT METER (BASIC TYPE)
CODE 0130-L110

- Suitable for measuring illuminance in various occasions
- Data hold function
- Fast switching of measuring range, easy to operate



SPECIFICATION

Measuring range	1~1999Lux	10~19990Lux	100~100000Lux
Resolution	1Lux	10Lux	100Lux
Accuracy	±(4%+10d), range<10000Lux ±(5%+10d), range≥10000Lux (d is resolution, calibrated with standard incandescent lamp at color temperature 2856K)		
Repeatability	±2%		
Sampling time	0.5s		
Operation environment	0~40°C, 0~70%RH		
Storage environment	-10~50°C, 0~80%RH		
Battery	9V		
Photodetector dimension	105×58×28mm		
Main unit dimension	130×72×30mm		
Weight	170g		

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

UV LIGHT METER
CODE 0132-UV199

- Self-recognize probes
- Real-time value, maximum value, minimum value, average value, time, energy value are displayed at the same time

VIDEO



probe
0132-UVA1
(included)

MAIN UNIT SPECIFICATION

Display	240×160 LCD
Power supply	4 AAA alkaline batteries
Dimension	148×76×26mm
Weight	194g

STANDARD DELIVERY

Main unit	1 pc
Probe 0132-UVA1	1 pc
Battery	4 pcs

PROBE SPECIFICATION

Probe code	**0132-UVA1** (included)	**0132-UVC0 (optional)**	**0132-UVCWP1 (optional)**
Application	general purpose low power UVA intensity and energy measurement	intensity and energy measurement of 254nm UV sterilization mercury lamp	intensity and energy measurement of 254nm UV sterilization mercury lamp
Spectral response	λp=365nm 315nm-400nm	λp=254nm 230nm-280nm	
Power measuring range	0~200000μW/cm²		
Resolution	0.1μW/cm²		
Energy measuring range	0-9999999μJ/cm²		
Measuring accuracy	±10%		
Record time	0-99999s		
Sampling speed	6 times/second		
Measuring unit	μW/cm² (default), mW/cm², W/m²		
Test hole diameter	Ø10mm		
Probe size	39×32×15mm	Ø39×15mm	Ø50×20mm
Waterproof depth	—	—	1m

To be continued

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Continued from previous page

Probe code	0132-UVCLED0 (optional)	0132-UVB0 (optional)	0132-UVA0 (optional)
Application	measurement of 260nm-285nm UV LED sterilization lamp	general puapose UVB intensity and energy measurement	intensity and energy measurement of light source of high pressure mercury lamp in UV curing industry
Spectral response	280nm-315nm *	λp=310nm * * 280nm-315nm	λp=365nm 315nm-400nm
Power measuring range	0~200000μW/cm²		0~2000mW/cm²
Resolution	0.1μW/cm²		0.1mW/cm²
Energy measuring range	0-9999999μJ/cm²		
Measuring accuracy	±10%		
Record time	0-99999s		
Sampling speed	6 times/second		2048 times/second
Measuring unit	μW/cm² (default), mW/cm², W/m²		mW/cm² (default), W/m²
Test hole diameter	Ø10mm		
Probe size	Ø39×15mm		39×32×15mm

*Wide spectral range, avoid using in strong light

**Suitable for measuring UVB light source with wavelength 297nm, 308nm, and 313nm

Probe code	0132-UVALED0 (optional)	0132-UVALED1 (optional)	0132-UVALED3 (optional)
Application	intensity and energy measurement of area light source of UV LED in UV curing industry	intensity and energy measurement of point light source of UV LED in UV curing industry	general purpose UVA+UVV LED intensity and energy measurement, low power measuring range
Spectral response	calibrated with 395nm UV LED 340nm-420nm		
Power measuring range	0~20000mW/cm²		0~200000μW/cm²
Resolution	1mW/cm²		0.1μW/cm²
Energy measuring range	0-9999999μJ/cm²		
Measuring accuracy	±10%		
Record time	0-99999s		
Sampling speed	2048 times/second		6 times/second
Measuring unit	mW/cm² (default), W/cm², W/m²		μW/cm² (default), mW/cm², W/m²
Test hole diameter	Ø10mm	Ø1mm	Ø10mm
Probe size	39×32×15mm		

IP65 WATERPROOF

SINGLE GAS DETECTORS

- Detect combustible gas (EX, including CH_4, C_3H_8, H_2, etc), O_2, CO or H_2S, support more than 30 types of gas sensors, customization for detecting toxic gases (such as NO, NH_3, PH_3, etc) available
- Adjustable alarm level, alarm mode: sound, light, vibration
- Adjustable calibration level
- Sampling method: natural diffusion
- High concentration protection for sensor
- Up to 500 alarm records storage capacity
- Self-test on startup
- Display with backlight
- Language: English, Chinese
- Low battery indication
- Explosion proof level: Ex ib IIB T3 Gb



calibration cap (included)

VIDEO



0611-SG01

SPECIFICATION

Code	0611-SG01	0611-SG02	0611-SG03	0611-SG04
Gas	combustible gas/EX	O_2	CO	H_2S
Range	0-100%LEL	0-30%vol	0-1000ppm	0-100ppm
Resolution	1%LEL	0.1%vol	1ppm	1ppm
Accuray	±5%FS			
Response time	T_{90}<60s			
Operation environment	temperature: -10°C~55°C; humidity: <95%RH, no condensation			
Sensor lifetime	2 years (depending on working environment)			
Power supply	3.7V rechargeable Li-ion battery, working time>8h			
Dimension (LxWxH)	124×60×46mm			
Weight	205g			

STANDARD DELIVERY

Main unit	1 pc
Calibration cap	1 pc
AC/DC adapter and charging cable	1 pc

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MULTI GAS DETECTOR
CODE 0612-MG04

DATA OUTPUT

IP66 WATERPROOF


software flash disk (included)


charging cable (included)


calibration cap (included)

VIDEO


charging and data transmission interface on the back

- Detect combustible gas (EX, including CH_4, C_3H_8, H_2, etc), oxygen (O_2), carbon monoxide (CO) and hydrogen sulfide (H_2S), optional configuration includes other toxic gases such as NO, NH_3, PH_3, etc; support more than 30 types of gas sensors, flexible sensor combination and customization available
- Adjustable alarm level, alarm mode: sound, light, vibration and screen display
- Adjustable calibration level
- Sampling method: natural diffusion
- High concentration protection for sensor
- Data transmission via charging interface
- Up to 1000 alarm records storage capacity
- Self-test on startup
- Display with backlight
- Language: English, Chinese and Spanish (Portuguese and Russian customizable)
- Low battery indication
- Explosion proof level: Ex ib IIC T4 Gb

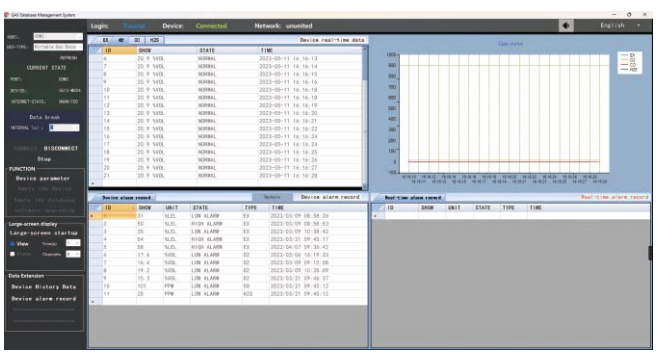
SPECIFICATION

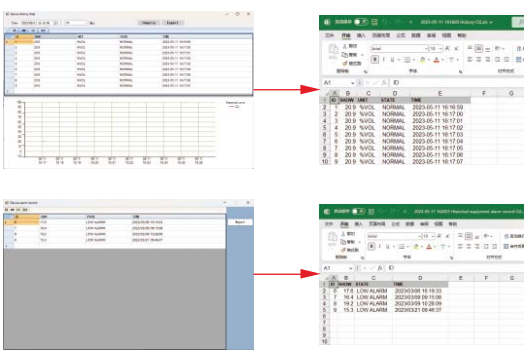
Gas	combustible gas (EX)	O_2	CO	H_2S
Range	0-100%LEL	0-30%vol	0-1000ppm	0-100ppm
Resolution	1%LEL	0.1%vol	1ppm	1ppm
Accuray	±5%FS			
Response time	T_{90}<60s			
Operation environment	temperature: -10°C~50°C; humidity: <95%RH, no condensation			
Sensor lifetime	2 years (depending on working environment)			
Power supply	3.7V rechargeable Li-ion battery, working time>8h			
Dimension (LxWxH)	150×72×48mm			
Weight	310g			

STANDARD DELIVERY

Main unit	1 pc
Calibration cap	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

software (included), connect to PC via USB cable, display test data and export record


display real-time data and alarm record


export history data and alarm record

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DATA OUTPUT

VIDEO

TESLAMETERS (GAUSSMETERS)

- Measure magnetic induction of DC magnetic field
- Directly display the N/S polarity of the measured magnetic field
- One-key zero function: eliminate the influence of zero drift before measurement
- Maximum value hold: record the maximum value of the changing magnetic field
- Unit switch between mT or G (1mT=10G)
- Auto ranging
- Built-in USB interface for data transmission
- Display with backlight
- Auto power off



axial probe (**optional**)



radial probe (included)

0501-MA01

SPECIFICATION

Code	0501-MA01	0501-MA05
Range	2000mT	
Resolution	0.01mT (0~200mT) 0.1mT (200~2000mT)	
Accuray	±1.0%	±2.0% (≤1000mT) ±5.0% (1000mT~2000mT)
Temperature coefficient	±0.1%/K	
Zero drift	±0.5mT/h	
Interface	USB	
Power supply	3×1.5V AA batteries or USB	
Dimension (L×W×H)	165×90×40mm	
Weight	350g	

STANDARD DELIVERY

Main unit	1 pc
Radial probe	1 pc
Battery (AA)	3 pcs

OPTIONAL ACCESSORY

Axial probe	0501-PA

LASER BELT TENSION METER CODE 5900-HZ18

- Laser sensor, direct measurement, easy to use
- Two sensors: internal and external, external sensor is suitable for measurement in narrow spaces
- Automatic power off

VIDEO



external sensor

internal sensor

SPECIFICATION

Measuring range		10~800Hz
Input parameter range		maximum free belt length: 99.99m maximum belt weight: 9.999kg/m
Accuracy		±5%
Unit		N, lbf
Measuring distance		3~20mm
Operation temperature		10~50°C
Power supply		4×1.5V AAA batteries
Dimension	main unit	178×72×34mm
	external sensor	124×21×12mm
Weight		180g

STANDARD DELIVERY

Main unit	1 pc
External sensor	1 pc

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28 TEMPERATURE AND HUMIDITY MEASUREMENT

INSIZE



Infrared Thermal Imaging Cameras
Page 661-662



Infrared Thermometers
Page 662-663



Data Loggers For Temperature And Humidity
Page 664



Thermohygrometers
Page 665-666/668



Large Screen Temperature And Humidity Meters
Page 667



Portable Medium Temperature Dry Block Calibrators
Page 668

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NON-CONTACT TEMPERATURE MEASUREMENT

DATA OUTPUT

IP54 WATERPROOF

INFRARED THERMAL IMAGING CAMERA (BASIC TYPE)
CODE 9132-T400



VIDEO

- IR/visible/laser indicator
- Trigger button for photo taking
- 2-meter drop test, IP54 protection

STANDARD DELIVERY

Main unit	1 pc
Power supply adapter	1 pc
TYPE-C cable	1 pc
16G TF card	1 pc

SPECIFICATION

IR image	IR resolution	120×90@17μm
	detector type	VOx/7.5~14μm
	frame rate	25Hz/9Hz
	thermal sensitivity/NETD	60mk
	focal length	2.28mm/F1.13
	field of view (FOV)	50°×38°
	spatial resolution (IFOV)	7.6mrad
	focus	focus-free
Visible camera	visible camera resolution	320×240, focus-free
	flashlight	yes
Image display	display	2.4 inch IPS technology TFT display
	display resolution	320×240
	image model	IR/visible/picture-in-picture
	color palettes	6: white hot, iron red, hot iron, arctic, rainbow 1, rainbow 2
Temperature measurement	temperature range	-20~150°C, 100~400°C (auto switching)
	accuracy	±2°C or ±3%, whichever is greater (target temp ≥0°C, ambient temp is 15~30°C)
	measurement spot	center spot
	measurement area	3 (incl. max & min temp)
	auto max & min spot tracking	yes
	alarm	full screen max & min spot alarm
Image storage	storage media	TF card (16G)
	IR image format	full radiometric (JPG) (120 x 90)
	visible image	yes, 320x240
Connections & communications	USB	TYPE-C, TF card slot
	tripod interface	yes
	mobile APP	yes
	PC IR analysis software	yes
Power system	battery type	rechargeable li ion battery
	battery operation time	>5 hours
	charging time	internal charge, ≤2.5 hours
Environmental parameters	operation temperature	-10~50°C
	storage temperature	-40~70°C
	protection	IP54, 2-meter drop test
	certification	CE/ROHS/FCC
	dimension (LxWxH)	194×61.5×76mm
	weight	350g

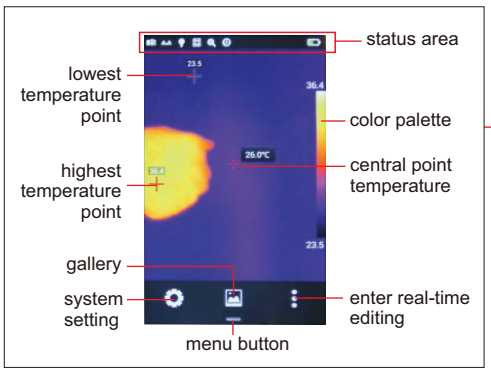
front view



INFRARED THERMAL IMAGING CAMERA
CODE 9130-H360

IP54 WATERPROOF | DATA OUTPUT | VIDEO

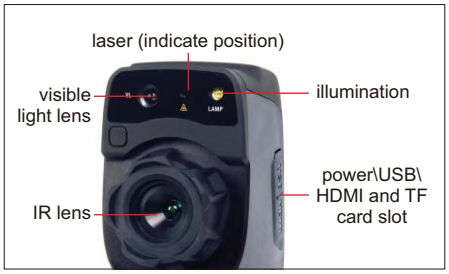
- 4 inch high-brightness touchscreen
- Four image presentations: IR, visible, PIP and MIF
- WIFI real-time sharing, one-click connection to mobile devices
- USB interface for data transmission and charging
- Built-in illumination
- Video can be recorded and stored





SPECIFICATION

IR resolution	192×144
NETD	≤50mk
Focus length	7mm/F1.1
Angle of view	37.8°×28.8°
Spatial resolution	3.45mrad
Focus adjustment	focus-free
Detector type	unrefrigerated vanadium oxide/8~14μm
Pixel size	25μm
Visible camera	resolution 500W, focus-free
Display	4" highlight LCD touch screen, 480×800
Image mode	IR image, visible image, MIF, PIP
Digital zoom	1.1~4
Color palette	8 modes
Temperature range	-20°C~350°C
Accuracy	±2°C or ±2% (of maximize range)
Emissivity	0.01-1.00 (adjustable)
Storage	in camera and TF card (up to 32GB)
Image format	JPG with temp info
Output	USB, HDMI
Power	rechargeable Li-ion battery (7.4V), working time≥4h
Operation temperature	-10°C~50°C
Vibration	10HZ~150HZ~10HZ 0.15mm (IEC 60068-2-6)
Impact	30g 11ms (IEC 60068-2-27)
Weight	735g
Dimension	274x97x78mm



STANDARD DELIVERY

Main unit	1 pc
Power supply adapter	1 pc
USB cable	1 pc
HDMI cable	1 pc
Capacitive screen gloves	1 pc
TF card (16GB)	1 pc

INFRARED THERMOMETER (BASIC TYPE)
CODE 0210-G260

SPECIFICATION

Measuring range	-30°C~260°C/-22 °F~500°F
Accuracy	±4°C/±7°F (≤0°C) ±2% or ±2°C/±4°F (>0°C)
Resolution	0.1°C/0.1°F
Distance to spot size (D:S)	8:1
Emissivity	0.95 (fixed)
Diode laser	output<1mW, wavelength 630~670nm class 2 (II) laser product
Spectral response	6~14μm
Response time	less than 1s
Power supply	9V battery
Dimension	82×42×160mm
Weight	180g



- MAX/MIN temperature display
- °C/°F conversion function
- Auto data hold and auto power off

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

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INFRARED THERMOMETER (STANDARD TYPE)
CODE 0213-A500

- Unit: °C, °F
- Dual laser sighting
- Negativity display
- Automatic power off
- Automatic data hold
- Over range indicator
- Max/Min display

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc



SPECIFICATION

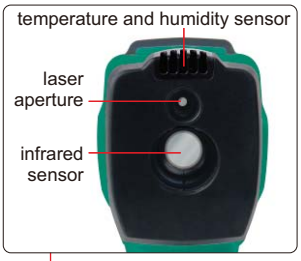
Temperature range	-50°C~380°C/-58°F~716°F
Temperature accuracy	±2.5°C (at -50°C~20°C), ±2% or ±2.0°C (at 20°C~380°C) ±4.5°F (at -58°F~68°F), ±2% or ±3.6°F (at 68°F~716°F)
Temperature resolution	0.1°C/0.1°F
Distance to spot size (D:S)	12:1
Emissivity	0.95 (fixed)
Repeatability	±1°C/1.8°F
Response time	150ms
Spectral response	8~14μm
Diode laser	output<1mW, wavelength 630~670nm class 2 laser product
Operation temperature	0°C~50°C/32°F~122°F
Operation humidity	10%RH~90%RH
Storage temperature	-10°C~60°C/14°F~140°F
Storage humidity	<80%RH
Power supply	1×9V battery
Dimension	137×73×38mm
Weight	135g

INFRARED THERMOMETER (ADVANCED TYPE)
CODE 0215-A900

- Ambient temperature, dew point temperature and humidity detection
- Unit: °C, °F
- Circular laser sighting
- Display backlight
- Automatic power off
- Automatic data hold
- Adjustable emissivity
- High and low alarm

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc





SPECIFICATION

Infrared sensor	**temperature range**	-50°C~800°C/-58°F~1472°F
	temperature resolution	0.1°C 0.1°F (-58°F~1000°F), other range 1°F
	temperature accuracy	±3.0°C (at -50°C~20°C) ±(1% of reading +1)°C (at 20°C~450°C) ±(2% of reading)°C (at 450°C~800°C)
	distance to spot size (D:S)	20:1
	emissivity	adjustable 0.10~1.00
	response time	<150ms
	spectral response	8~14μm
	diode laser	output<1mW, wavelength 630~670nm class 2 laser product
Temperature and humidity sensor	**air temperature range**	0°C~50°C/32°F~122°F
	dew point temperature range	0°C~50°C/32°F~122°F
	temperature resolution	0.1°C/0.1°F
	temperature accuracy	±1.0°C/±1.8°F
	humidity range	0%RH~100%RH
	humidity resolution	±5%RH (20%RH~80%RH), other range ±7%RH
Automatic power off		about in 10 seconds
Power supply		1×9V battery
Dimension		170×45×85mm
Weight		196g

VIDEO

DATA LOGGER FOR TEMPERATURE AND HUMIDITY (BUILT-IN SENSOR) CODE 0311-3070

IP54 WATERPROOF

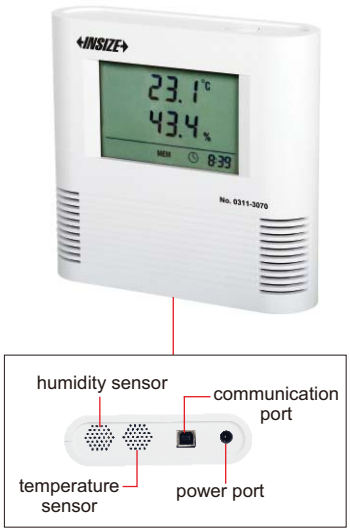
DATA OUTPUT

VIDEO

- Signal acquisition, display, storage, analysis function
- Low power consumption
- Built-in high-precision temperature and humidity sensor
- Software is included



stand (included)



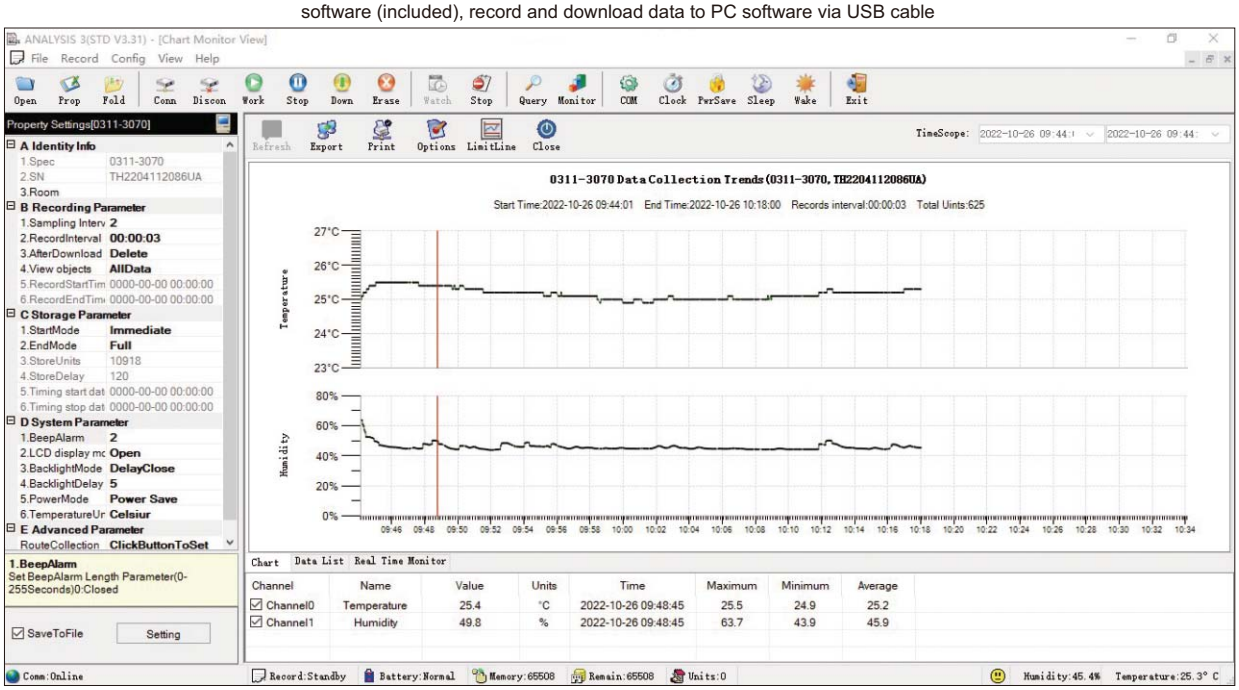
SPECIFICATION

Temperature range	-30°C~70°C/-22°F~158°F
Temperature accuracy	±0.3°C (at 23°C±2°C), other range ±0.5°C ±0.6°F (at 73.4°F±3.6°F), other range ±0.9°F
Temperature resolution	0.1°C/0.2°F
Humidity range	0%RH~100%RH
Humidity accuracy	±3%RH (at 10%RH~85%RH), other range ±5%RH
Humidity resolution	0.1%RH
Memory capacity	10918
Alarm	function: alarm when over high or low limit method: display+buzz+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s (adjustable)
Logging interval	2 seconds~24 hours (adjustable)
Start with delay	1~120 seconds (adjustable)
Start mode	start immediately/delay start/timing start
End mode	Full/FIFO/preset/timing end
Timing start/end	random start/end with format YYMMDD HHMMSS
Interface	USB
Time battery	CR2032
Power supply	3.6V lithium battery (ER14505) or 5~24V DC
Dimension	123×117×33mm
Weight	260g

STANDARD DELIVERY

Main unit	1 pc
Software and USB cable	1 pc
Power adapter	1 pc
Time battery	1 pc
Lithium battery	1 pc

software (included), record and download data to PC software via USB cable



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IP50
DUSTPROOF

DIGITAL THERMOHYGROMETER (PROFESSIONAL TYPE)
CODE 9362-TH27

- Measure humidity, ambient temperature and dew-point temperature
- Max/Min/Average mode
- Alarm function
- IP50 protection grade



SPECIFICATION

Sensor model	NTC thermistor/humidity capacitance/digital sensor
Temperature range	-20°C~70°C/-4°F~158°F
Temperature accuracy	± 0.5°C/± 0.9°F
Temperature resolution	0.1°C/0.2°F (minimum adjustable unit is 0.2°F in setting mode)
Humidity range	0~100%RH
Humidity accuracy	±5%RH
Humidity resolution	0.1%RH
Sampling interval	5s
Battery	1.5V AAA
Dimension	95×107×18mm
Weight	105g

STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	1 pc

THERMOHYGROMETER (EXTERNAL SENSOR)
CODE 0313-TH48

- External sensor, 3m cable
- Time/temperature/humidity display
- Temperature and humidity upper and lower limit alarm function
- Unit: °C/°F
- Low battery alarm



SPECIFICATION

Temperature range	-40°C~80°C/-40°F~176°F
Temperature accuracy	±0.5°C (at -20°C~60°C), ±1.0°C (at 60°C~80°C), ±2°C (at -40°C~-20°C), ±2°F(at -20°F~176°F), ±3°F (at -40°F~-20°F)
Temperature resolution	0.1°C (at -20°C~80°C), other range 1°C 0.1°F (at -20°F~100°F), other range 1°F
Humidity range	0%RH~99.9%RH
Humidity accuracy	±5%RH (at 10°C~60°C), other range ±7% ±5%RH (at 50°F~140°F), other range ±7%
Humidity resolution	0.1%RH
Sensitivity attenuation value	temperature: <0.1°C/year (<0.2°F/year) humidity: <1%RH/year
Sampling interval	5 seconds
Power supply	built-in rechargeable lithium battery (USB 5V charging) working time at least one month
Dimension	88×88×21mm
Weight	174g

STANDARD DELIVERY

Main unit	1 pc
USB charging cable	1 pc

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K-TYPE THERMOCOUPLE THERMOMETER (ECONOMIC TYPE)
CODE 0320-K230

- Contact K-type thermocouple
- Unit: °C/°F
- Data hold function
- Low battery display
- Display backlight



SPECIFICATION

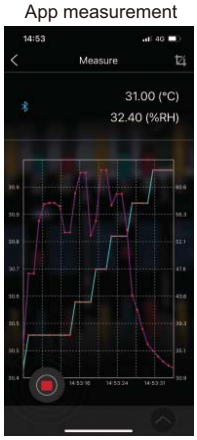
Temperature range	-50°C~200°C/-58°F~392°F
Temperature accuracy	±2.0°C/±3.6°F
Temperature resolution	0.1°C (at -50°C~199.9°C), 1°C (at -50°C~200°C) 0.1°F (at -58°F~199.9°F), 1°F (at -58°F~392°F)
Sampling rate	2.5 times/sec
Power supply	3×3V CR2450 batteries (for 300 hours working)
Operation voltage	6.8V~10V
Dimension	149×76×34mm
Weight	220g

STANDARD DELIVERY

Main unit	1 pc
Thermocouple (K-type)	1 pc
CR2450 battery	3 pcs

THERMOHYGROMETER
CODE 0310-H26

App measurement



App record



- Measure humidity, ambient temperature, dew point temperature and wet dulb temperature
- Min/Max, data hold function
- Bluetooth 4.0
- Auto power off
- Supplied with APP for Apple and Android



SPECIFICATION

Function	Measuring range	Resolution	Accuracy
Ambient temperature	0°C~50°C 32°F~122°F	0.1°C/0.1°F	±1.0°C/±1.8°F
Wet dulb temperature	0°C~50°C 32°F~122°F		
Dew point temperature	0°C~50°C 32°F~122°F		
Humidity	0%RH~80%RH	0.1%RH	±5.0%RH
Auto power off	30 minutes		
Data port	Bluetooth 4.0		
Power supply	9V battery		
Dimension	204×54×36mm		
Weight	172g		

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

LARGE SCREEN TEMPERATURES AND HUMIDITY METERS



0314-H533A



0314-H533B

- High definition LED large screen display: temperature, humidity, time
- Exceeding limit alarm: buzzer alarm, digit/light flash alarm
- Installation method: wall mounted or ring type

SPECIFICATION

Code	0314-H323A	0314-H323B	0314-H423A	0314-H423B	0314-H533A	0314-H533B	0314-H643A	0314-H643B
Dimension	300×200×36mm		400×265×36mm		500×300×36mm		600×400×36mm	
Sensor type	integrated	separated	integrated	separated	integrated	separated	integrated	separated
Power consumption	5W		5W		9W		10W	
Weight	1.3kg		2kg		3kg		4kg	
Sensor	integrated: plastic probe case (not dustproof, not waterproof) separated: metal probe case (dustproof, waterproof), cable length 1m (can be customized, within 20m)							
Temperature range	integrated: -20°C~60°C separated: -40°C~85°C							
Temperature resolution	integrated: 0.1°C (at 0°C~60°C), other range 1°C separated: 0.1°C (at 0°C~85°C), other range 1°C							
Temperature accuracy	integrated: ±0.5°C (at 0°C~60°C), other range ±2°C separated: ±0.5°C (at 0°C~85°C), other range ±2°C							
Humidity range	5%RH~95%RH							
Humidity resolution	0.1%RH							
Humidity accuracy	±3%RH (@25°C)							
Long-term stability	temperature≤0.1°C/year							
	humidity≤1%RH/year							
Repeatability	temperature≤0.1°C							
	humidity≤0.5%RH							
Sampling speed	1s							
Response time	3 minutes to reach 90% of the final value							
Time accuracy	±15s/month (@25°C±2°C)							
Power supply	AC100~240V (50/60Hz)							
Power cable length	1m (can be customized, 2m/5m)							
Operation condition	temperature: -20°C~60°C							
	humidity: 5%~95% (non-condensing)							

STANDARD DELIVERY

Main unit (including sensor)	1 pc

THERMOHYGROMETER (ECONOMIC TYPE)
CODE 0312-TH50

- Environment comfort display: COMFORT, WET, DRY
- Time/temperature/humidity display
- Highest/lowest temperature and humidity memory function
- Alarm clock function
- Unit: °C, °F



SPECIFICATION

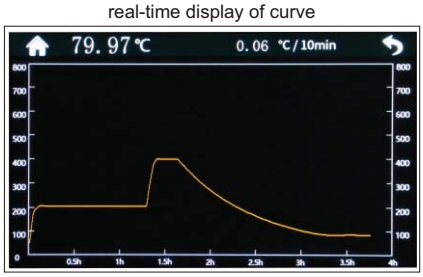
Temperature range	0°C~50°C/32°F~122°F
Temperature accuracy	±1.0°C (at 5°C~40°C), other range ±1.5°C ±1.8°F (at 41°F~104°F), other range ±2.7°F
Temperature resolution	0.1°C/0.1°F
Humidity range	10%RH~90%RH
Humidity accuracy	±5%RH (at 40%RH~80%RH), other range ±8%RH
Humidity resolution	1%RH
Power supply	1×AAA 1.5V battery
Dimension	108×60×15mm
Weight	74g

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc

PORTABLE MEDIUM TEMPERATURE DRY BLOCK CALIBRATOR
CODE DBC-M660

real-time display of curve



soaking block (included), can be customized



- Used for temperature calibration in industrial or laboratory
- Unit: °C, °F
- Language: English, Chinese
- Overheat protection
- Multi-point temperature correction function
- Automatic tuning of temperature control parameters
- Segmented PID control, one-button heating, full-automatic temperature control

SPECIFICATION

Temperature range	50°C~660°C	
Horizontal temperature field	≤0.2°C	
Vertical temperature field	within 40mm from the bottom of the well	≤0.5°C (at 50°C~300°C) ≤1.0°C (at 300°C~660°C)
Temperature fluctuation	±0.15°C	
Temperature resolution	0.01°C	
Control method	touch screen	
Soaking block	insertion aperture: Ø4.5mm, Ø6.5mm, Ø8mm, Ø10mm (can be customized)	
Well depth	170mm	
Power	600W	
Power supply	220V/50Hz	
Dimension	285×170×335mm	
Weight	9.4kg	

VIDEO

STANDARD DELIVERY

Main unit	1 pc
Soaking block	1 pc

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ROUNDNESS, PROFILE AND ROUGHNESS TESTERS

29



Roundness/Cylindricity Testers
Page 670-671



Roundness Measuring Machines
Page 672-673



Precision Air Floating Rotary Tables
Page 674



Surface Profile Measuring Machines
Page 675-680



Roughness Testers
Page 677-693



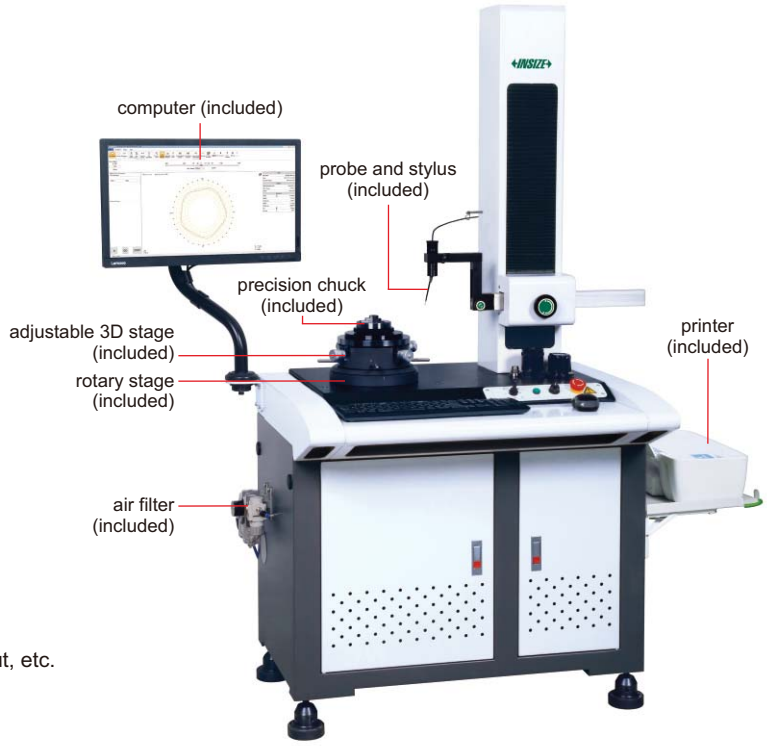
Surface Roughness Specimens
Page 693-694



Surface Roughness Reference Specimens
Page 695

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ROUNDNESS MEASURING MACHINE
CODE RCT-RA260



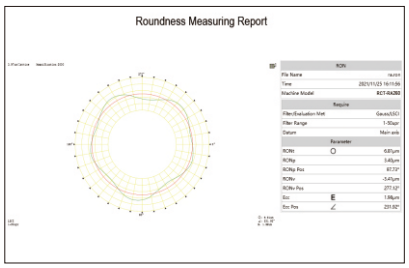
- Air-floating spindle
- Can measure roundness, coaxiality, concentricity, flatness, radial runout, axial runout, parallelism and perpendicularity.
- Spectrum analysis, automatic gap/burr removal, waveform analysis
- 4 roundness evaluation methods: smallest area method, least square method, smallest circumscribed circle method, largest inscribed circle method
- Measuring filer: 1-15upr, 1-50upr, 1-150upr, 1-250upr, 1-500upr, 15-100upr, 15-500upr, 2-15upr
- Filter form: gauss (ISO standard)
- Software is included, for measurement, analysis, data output, etc.

SPECIFICATION

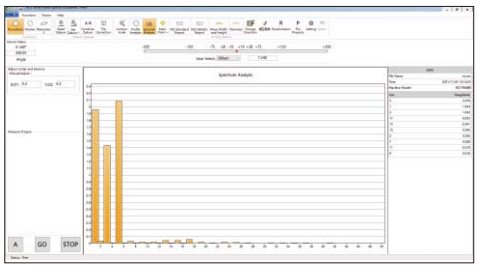
Probe	measuring range	±300μm
	resolution	0.001μm
	linear accuracy	0.25%
Ruby stylus	size	Ø2x10mm
	direction	two directions
	adjustable angle	±45°
X axis	travel	165mm
	excess range	25mm
	drive mode	by hand
Z axis	drive mode	motor
	travel	320mm
	movement speed	0.5~10mm/s
Rotary stage	rotation accuracy	(0.025+6H/10000)μm for H≤20mm, H is the measuring height in mm
	rotation speed	6rpm
	max. measuring diameter	260mm
	max. workpiece diameter (rotation diameter)	400mm
Rotary axis	radial rotation accuracy	±0.0125μm
	axial runout accuracy	±0.05μm
Adjustable 3D stage	diameter	180mm
	adjustment range of center	±3mm
	adjustment range of level	±2°
	weight capacity	20kg
Granite stage		700×500mm
Precision chuck	external grip diameter	Ø1~Ø81mm
	internal grip diameter	Ø31~Ø70mm
Air filter	pressure range	0~0.8MPa
	oil mist removalaccuracy	0.01μm
	export oil mist concentration	0.5mg/m³
Dimension (LxWxH)		1300×795×1715mm
Power supply		220±10%V, 50Hz
Power		500W
Weight		320kg

To be continued

Continued from previous page



measurement


spectrum analysis

STANDARD DELIVERY

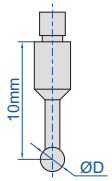
Main unit	1 pc
Probe (with ruby stylus)	1 pc each
Standard block	1 pc
Precision chuck	1 pc
Adjustable 3D stage	1 pc
Rotary stage	1 pc
Computer	1 pc
Software	1 set
Printer	1 pc
Air filter	1 set
Installation tools	1 set


standard block (included)

OPTIONAL ACCESSORY

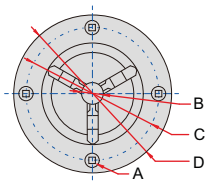
Probes	refer to details
Precision chucks	refer to details
Dryer	**ISC-DRY**

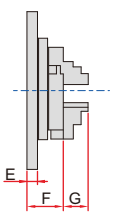
SPECIFICATION OF PROBES



Code	Diameter (ØD)	Remark
RCT-RA260-T1	2mm	included
RCT-RA260-T2	0.5mm	**optional**
RCT-RA260-T3	1mm	**optional**
RCT-RA260-T4	4mm	**optional**
RCT-RA260-T5	8mm	**optional**

SPECIFICATION OF PRECISION CHUCKS





(mm)

Code	A	B	C	D	E	F	G	Clamping range		Remark
								external grip dia.	internal grip dia.	
RCT-RA260-C1	M5x0.8	16	100	118	8	28	13	Ø0.8~63	Ø23~58	**optional**
RCT-RA260-C2	M6x1.0	20	116	143	10.5	37	15	Ø1~81	Ø31~70	included
RCT-RA260-C3	M6x1.0	26	140	168	10	39	19	Ø1~100	Ø36~90	**optional**

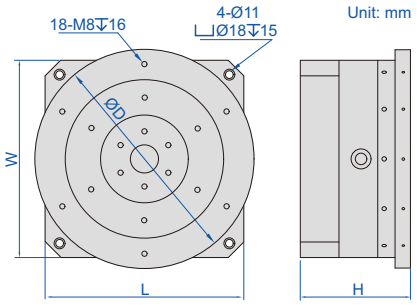
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PRECISION AIR FLOATING ROTARY TABLES

VIDEO



6875-320



air filter (included)



- Manual rotation
- Optional accessory:
  high precision digital indicators (code **2133** series),
  hydraulic universal magnetic stands (code **6274** series)

Code	Stage size ØD	Max. RPM	Air supply pressure	Max. load	Radial stiffness	Axial stiffness	Radial runout	Axial runout	L×W×H
6875-320	320mm	500rpm	5-6bar	100kg	250N/μm	500N/μm	<0.3μm	<0.3μm	272x272x161mm
6875-400	400mm	500rpm	5-6bar	100kg	250N/μm	500N/μm	<0.3μm	<0.3μm	272x272x161mm
6875-500	500mm	500rpm	5-6bar	100kg	250N/μm	500N/μm	<0.3μm	<0.3μm	272x272x191mm

Standard glass hemisphere (optional)

Code	Roundness
6875-BALL*	0.05μm

*To check the accuracy of rotary table



6875-BALL

application



Clamp for glass hemisphere (optional)

Code
6875-CLAMP



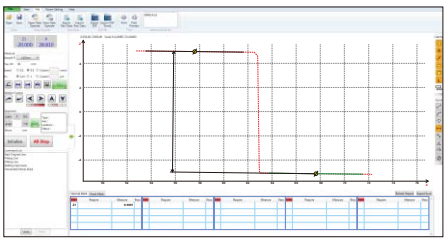
6875-CLAMP

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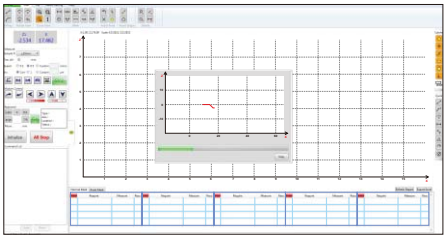
SURFACE PROFILE MEASURING MACHINE
CODE SPM-1000

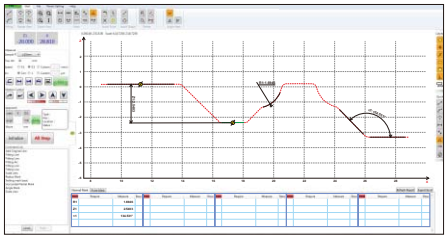
- Software is included, for surface profile measurement and data output
- Probe compensation
- Output as format txt, csv, etc.
- Large range design, the leverage ratio is 1:2.2, maintain the original accuracy of the sensor
- The overall structure of the Z-axis sensor does not have any elastic components, ensuring the measuring force is constant regardless the position of probe

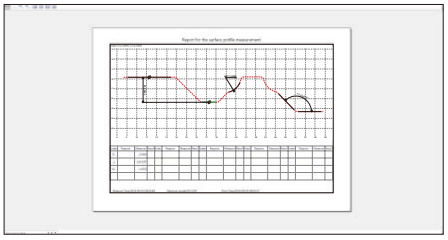



calibration

VIDEO

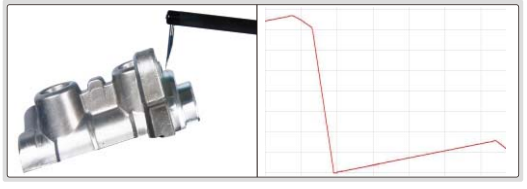

contour scanning


dimension measurement


data output

SPECIFICATION

X axis measuring range	140mm
X axis resolution	0.2μm
X axis straightness	0.8μm/100mm
X axis moving speed	0.1~10mm/s
Z axis measuring range	±20mm
Z axis resolution	0.05μm
Z axis moving speed	0.5~10mm/s
Linear accuracy	±(1.5+|0.2H|)μm, H is measuring height in mm
Angular measuring accuracy	±2′
Arc measuring accuracy	±(2+R/8)μm, R is 2~10mm standard ball
Radius of probe tip	25μm
Moving direction	backward
Measuring force	6.86~9.8mN
Measuring unit	mm/inch
Traceable angle	72° (upward), 87° (downward)
Drive mode	motor
Travel of Z axis	430mm
Dimension (L×W×H)	1200×700×1780mm
Power supply	220±5%V, 50Hz
Weight	320kg




standard balls (included)


standard blocks (included)


standard shaft (included)

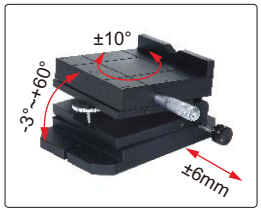
To be continued

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Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
Standard probe and arm	1 pc of each
Standard block	2 pcs
Standard ball	2 pcs
Standard shaft	1 pc
Stage	1 pc
Vise	1 pc
Measuring arm	1 pc
Computer	1 pc
Measurement software	1 pc
Printer	1 pc
Installation tools	1 set



stage (included)


vise (included)

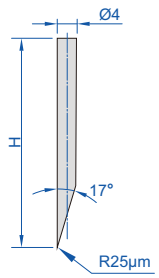
OPTIONAL ACCESSORY

Probe	refer to details

SPECIFICATION OF PROFILE PROBES

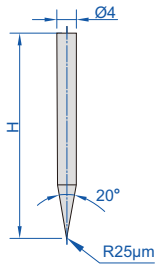
Unit: mm

chisel stylus



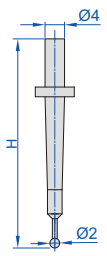
code **SPM-1000-T01** (H=32mm, included)
code **SPM-1000-T02** (H=48mm, **optional**)
code **SPM-1000-T03** (H=68mm, **optional**)

cone stylus



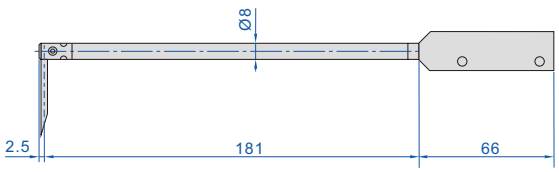
code **SPM-1000-Z01** (H=32mm, **optional**)
code **SPM-1000-Z02** (H=48mm, **optional**)
code **SPM-1000-Z03** (H=68mm, **optional**)

ball stylus

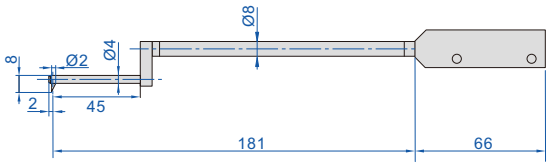


code **SPM-1000-R01** (H=32mm, **optional**)
code **SPM-1000-R02** (H=48mm, **optional**)
code **SPM-1000-R03** (H=68mm, **optional**)

standard arm, code SPM-1000-SP (included), **stylus is not included**

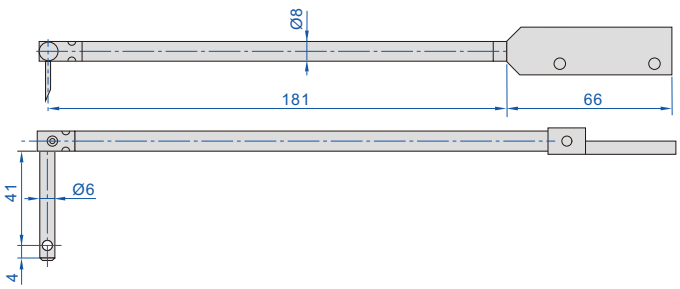


probe for small holes, code SPM-1000-SBP (optional), stylus is included



measure the contour of holes with diameter>Ø8mm

transverse probe, code SPM-1000-LP (optional), stylus is included

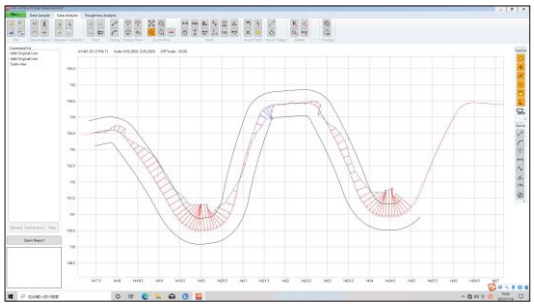


measure the contour of holes in radial direction

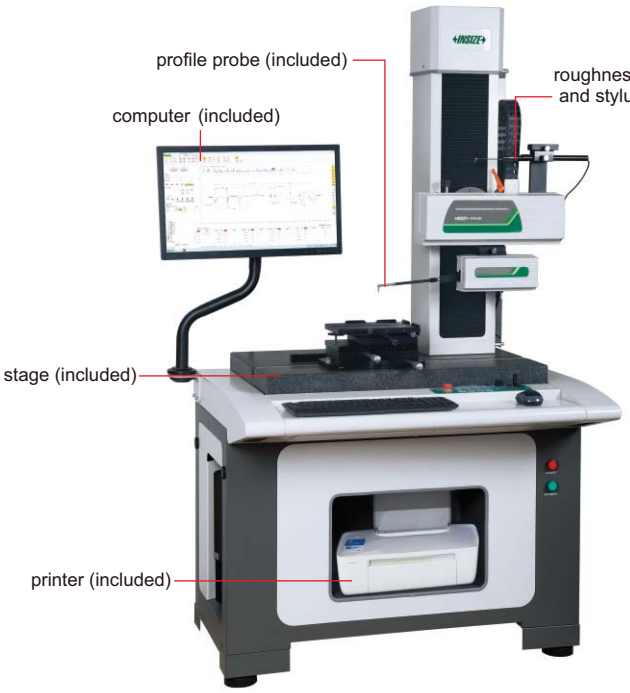
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ROUGHNESS AND PROFILE MEASURING MACHINE CODE SPM-2000

VIDEO



CAD profile comparison



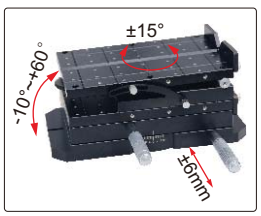
- Software is included, for measurement and data output
- Profile sensor with low noise
- Wide range roughness sensor without skid
- Meet ISO1997, ISO1984, BS1988, DIN1990, ASME1995, JIS1982, JIS1994 standards
- 65 roughness parameters

PROFILE MEASUREMENT SPECIFICATION

X axis measuring range	140mm
X axis resolution	0.2μm
X axis traverse speed	0.05~15mm/s
Z axis measuring range	50mm
Z axis resolution	0.05μm
Z axis traverse speed	0.2~15mm/s
Straightness	0.5μm/100mm
Linear accuracy	±(0.8+|0.15H|)μm, H is measuring height in mm
Angular measuring accuracy	±1′
Arc measuring accuracy	±(1.5+R/12)μm, R is 2~10mm standard ball
Measuring unit	μm/μin
Measuring speed	0.05~1mm/s
Traceable angle	72° (upward), 88° (downward)
Travel of Z axis	430mm
Power supply	220±5%V, 50Hz
Dimension (L×W×H)	1400×850×1780mm
Weight	350kg

ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	Ra, Rp, Rv, Rz, Rz (JIS), R3z, Rz (DIN), Rzj, Rmax, Rc, Rt, Rq, Rsk, Rku, Rsm, Rs , PΔq, Rk, Rpk, Rvk, Mr1, Mr2, Rmr
Waviness parameters	Wa, Wt, Wp, Wv, Wz, Wq, Wsm, Wsk, Wku, Wmr
Primary profile parameters	Pa, Pt, Pp, Pv, Pz, Pq, Psm, Psk, Pku, Pmr
Measuring range	±420μm
Resolution	0.001μm
Linear accuracy	≤±(5nm+2.8%)
Probe radius/angle	5μm/90°
Cut off	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm
Measuring speed	0.05~0.25mm/s



stage (included)



vise (included)



standard shaft (included)



standard blocks (included)



standard balls (included)

To be continued

Continued from previous page

STANDARD DELIVERY

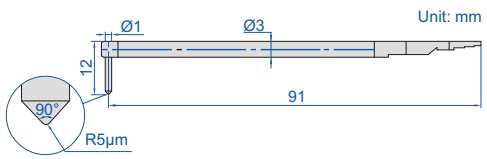
Main unit	1 pc
Calibration block	1 set
Roughness probe arm	1 pc
Roughness stylus	1 pc
Profile probe arm	1 pc
Profile chisel stylus	1 pc
Stage	1 set
Vise	1 set
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

OPTIONAL ACCESSORY

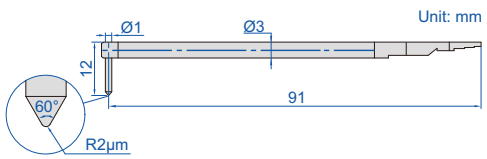
Probe	refer to details

SPECIFICATION OF ROUGHNESS PROBE

standard probe, code SPM-2000-P (included), **stylus is included**



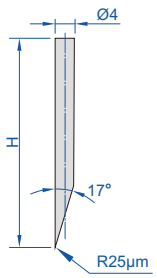
small roughness probe, code SPM-2000-P1 (optional), stylus is included



SPECIFICATION OF PROFILE PROBES

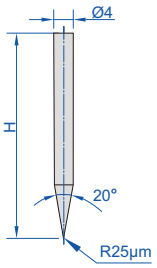
Unit: mm

chisel stylus



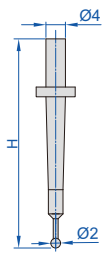
code **SPM-1000-T01** (H=32mm, included)
code **SPM-1000-T02** (H=48mm, **optional**)
code **SPM-1000-T03** (H=68mm, **optional**)

cone stylus



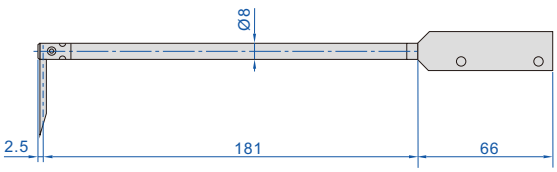
code **SPM-1000-Z01** (H=32mm, **optional**)
code **SPM-1000-Z02** (H=48mm, **optional**)
code **SPM-1000-Z03** (H=68mm, **optional**)

ball stylus

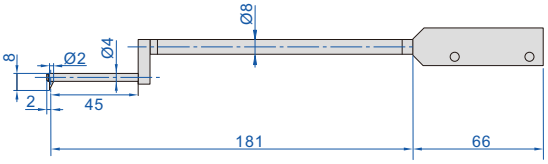


code **SPM-1000-R01** (H=32mm, **optional**)
code **SPM-1000-R02** (H=48mm, **optional**)
code **SPM-1000-R03** (H=68mm, **optional**)

standard arm, code SPM-1000-SP (included), **stylus is not included**

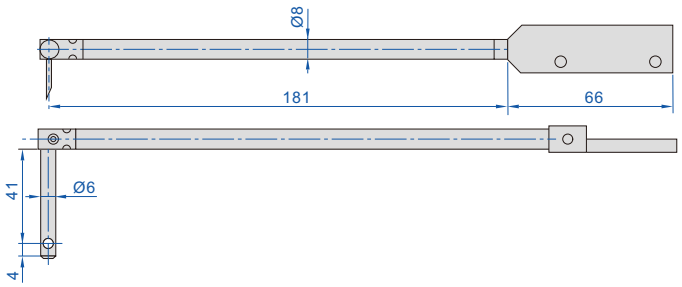


probe for small holes, code SPM-1000-SBP (optional), stylus is included



measure the contour of holes with diameter>Ø8mm

transverse probe, code SPM-1000-LP (optional), stylus is included



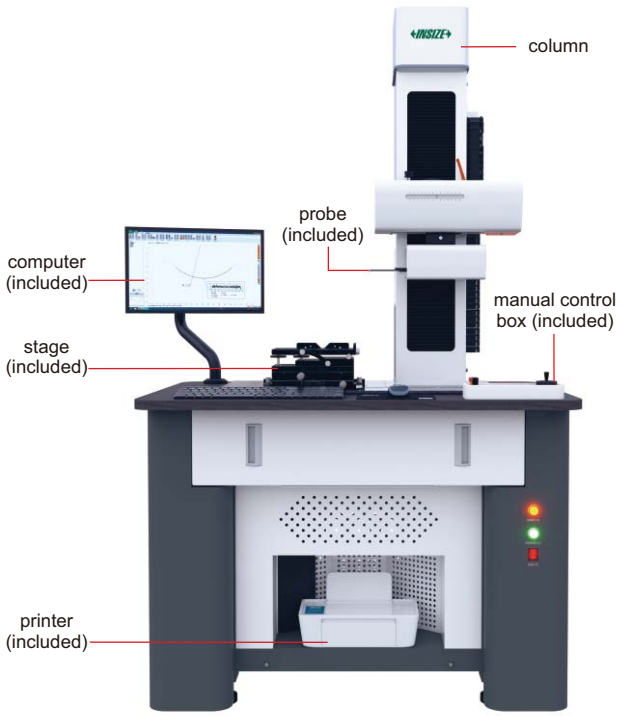
measure the contour of holes in radial direction

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ROUGHNESS AND PROFILE MEASURING MACHINE (ONE PROBE TYPE) CODE SPM-5000

VIDEO

- Roughness, waviness, and profile analysis can be achieved with just one measurement
- Can measure all roughness and waviness parameters
- Can be used for automatic measurement system
- Air flotation and shockproof system to reduce measurement deviation
- Free to edit measurement reports

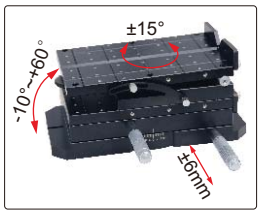


PROFILE MEASUREMENT SPECIFICATION

X axis measuring range	100mm
X axis resolution	0.2μm
X axis traverse speed	0.05~50mm/s
X axis linear accuracy	±(0.8+|0.015L|)μm, H is measuring length in mm
Z axis measuring range	±10mm
Z axis resolution	0.01μm
Z axis traverse speed	0.2~50mm/s
Z axis linear accuracy	±(0.5+|0.08H|)μm, H is measuring height in mm
Angular measuring accuracy	±1′
Arc measuring accuracy	±(1+R/12)μm, R is 2~10mm standard ball
Straightness	0.3μm/100mm,
Measuring unit	mm/inch
Travel of Z axis	320mm
Power supply	220±5%V, 50Hz
Dimension (L×W×H)	1700×820×1900mm
Weight	500kg


standard balls (included)


standard shaft (included)



stage (included)


vise (included)


standard blocks (included)

ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	Ra, Ramax, Ramin, Rasd, Rp, Rpmax, Rpmin, Rpsd, Rv, Rvmax, Rvmin, Rvsd, Rz, Rzmax, Rzmin, Rzsd, R3z, Rc, Rcmax, Rcmin, Rcsd, Rt, Rq, Rqmax, Rqmin, Rdsd, Rsk, Rskmax, Rskmin, Rsksd, Rku, Rkumax, Rkumin, Rkusd, Rsm, Rsmmax, Rsmmin, Rsmsd, Rs, RΔa, RΔamax, RΔamin, RΔasd, RΔq, RΔqmax, RΔqmin, RΔqsd, Rk, Rpk, Rvk, Mr1, Mr2, Rλa, Rλamax, Rλamin, Rλasd, Rλq, Rλqmax, Rλqmin, Rλqsd, Rδc, Rpc, Rmr
Waviness parameters	Wa, Wamax, Wamin, Wasd, Wsa, Wca, Wa08, Wc, Wcmax, Wcmin, Wcsd, Wt, Wz, Wzmax, Wzmin, Wzsd, Wp, Wpmax, Wv, Wvmax, Wvmin, Wvsd, Wq, Wqmax, Wqmin, Wqsd, Wsm, Wsmmax, Wsmmin, Wsmsd, Wsk, Wskmax, Wskmin, Wsksd, Wku, Wkumax, Wkumin, Wkusd, WΔq, WΔqmax, WΔqmin, WΔqsd, Wδc, Wmr, Wpsd, Wpmin
Original profile parameters	Pa, Pt, Pp, Pc, Pv, Pz, Pq, Psm, Psk, Pku, RzJ, Rpq, Rvq, Rmq, Pmr, PΔq, Avh, Hmax, Hmin, Area, Pδc, Tilta
Motif parameters	Ncrx, R, Rx, AR, Nr, Cpm, Sr, Sar, W, Wx, Aw, Wte, Nw, Sw, Saw
Measuring range	±10mm
Resolution	0.01μm
Linear accuracy	≤±(4nm+2.5%)
Probe radius/angle	5μm/90°
Cut off	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm
Measuring speed	0.1~2mm/s

To be continued

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STANDARD DELIVERY

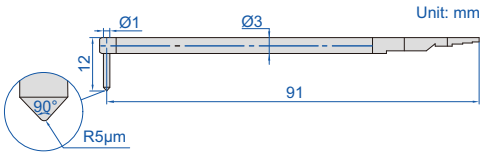
Main unit (including workbench, controller, driver, sensor)	1 pc
Calibration block	1 set
Probe arm	1 pc
Stylus	1 pc
Air flotation and shockproof system	1 set
Stage	1 set
Vise	1 set
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

OPTIONAL ACCESSORY

Probe	refer to details

SPECIFICATION OF STANDARD PROBE

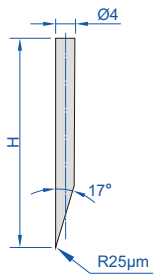
standard probe, code SPM-2000-P (included), **stylus is included**



SPECIFICATION OF PROFILE PROBES

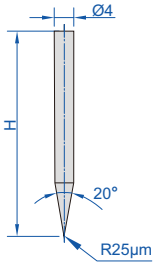
Unit: mm

chisel stylus



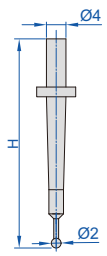
code **SPM-1000-T01** (H=32mm, **optional**)
code **SPM-1000-T02** (H=48mm, **optional**)
code **SPM-1000-T03** (H=68mm, **optional**)

cone stylus



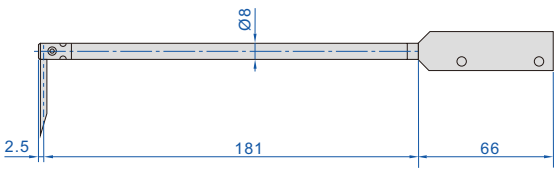
code **SPM-1000-Z01** (H=32mm, **optional**)
code **SPM-1000-Z02** (H=48mm, **optional**)
code **SPM-1000-Z03** (H=68mm, **optional**)

ball stylus

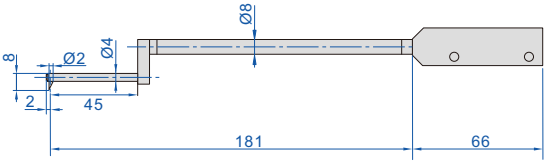


code **SPM-1000-R01** (H=32mm, **optional**)
code **SPM-1000-R02** (H=48mm, **optional**)
code **SPM-1000-R03** (H=68mm, **optional**)

standard arm, code SPM-1000-SP (optional), stylus is not included

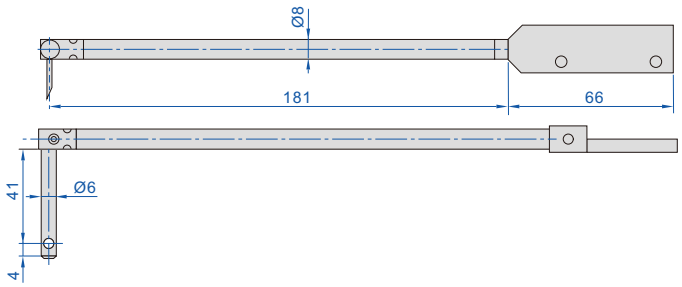


probe for small holes, code SPM-1000-SBP (optional), stylus is included



measure the contour of holes with diameter>Ø8mm

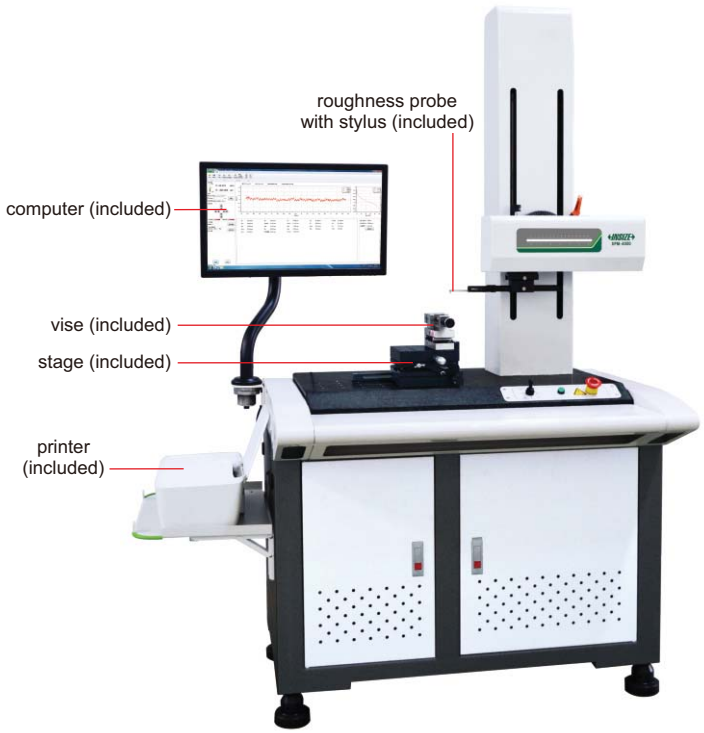
transverse probe, code SPM-1000-LP (optional), stylus is included



measure the contour of holes in radial direction

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ROUGHNESS MEASURING MACHINE
CODE SPM-4000



- Skidless probe
- Hundreds of parameters can be evaluated, such as roughness profile, waviness profile, primary profile, etc.
- Software is included, for measurement and data output

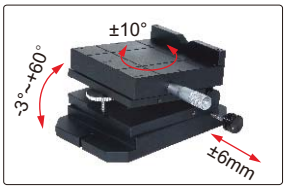
SPECIFICATION

Roughness parameters	Ra, Rp, Rv, Rz, Rz (JIS), R3z, Rz (DIN), Rzj, Rmax, Rc, Rt, Rq, Rsk, Rku, Rsm, Rs, RΔq, Rk, Rpk, Rvk, Mr1, Mr2, Rmr
Waviness parameters	Wa, Wt, Wp, Wv, Wz, Wq, Wsm, Wsk, Wku, Wmr
Primary profile parameters	Pa, Pt, Pp, Pv, Pz, Pq, Psm, Psk, Pku, Pmr
X axis measuring range	100mm
X axis resolution	0.2μm
X axis straightness	0.5μm/100mm
X axis moving speed	0.1~10mm/s
Z axis measuring range	±420μm
Z axis resolution	0.001μm
Z axis linear accuracy	≤±(7nm+3.5%)
Z axis moving speed	0.5~10mm/s
Z axis repeatability	1δ≤2nm
Radius/angle of stylus	5μm/90°
Cut off length	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm
Drive mode	motor
Travel of Z axis	320mm
Dimension (LxWxH)	1200×700×1780mm
Power supply	220±5%V, 50Hz
Weight	320kg

To be continued

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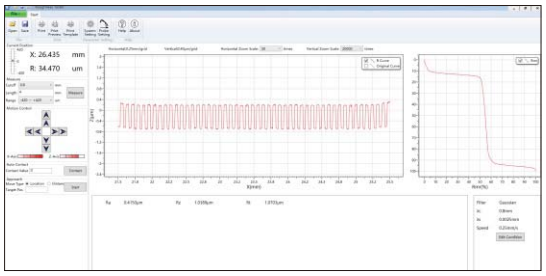
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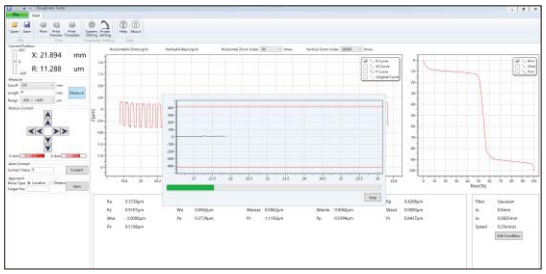


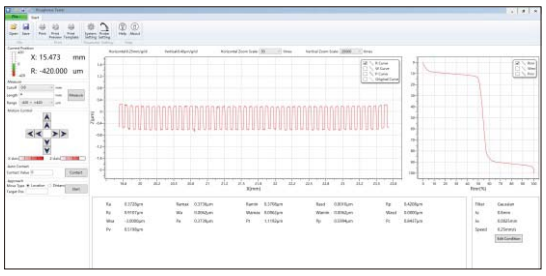
stage (included)

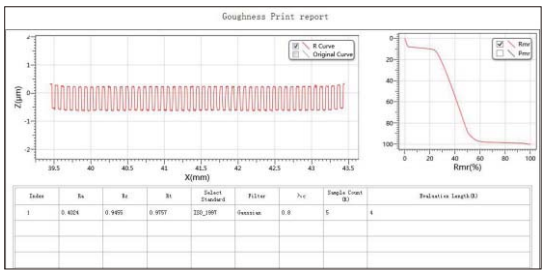

vise (included)


calibration block (included)


calibration


measurement


parameter measurement



data output

STANDARD DELIVERY

Main unit	1 pc
Roughness probe (with stylus)	1 pc
Calibration block	1 pc
Stage	1 pc
Vise	1 pc
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

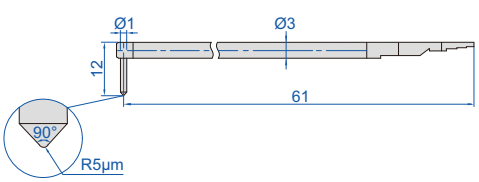
OPTIONAL ACCESSORY

Small roughness probe	refer to details

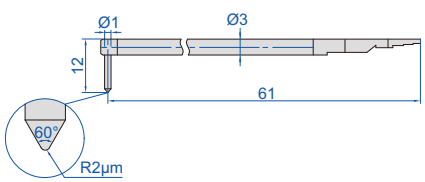
SPECIFICATION OF ROUGHNESS PROBE

Unit: mm

standard probe, code SPM-4000-P (included)



small roughness probe, code SPM-4000-P1 (optional)



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BLUETOOTH | DATA OUTPUT | PROBE CAN BE CHANGED

ROUGHNESS TESTER (COMPACT TYPE)
CODE ISR-C200

INSIZE PLUS
MADE IN EUROPE

VIDEO



- The product is light, reliable and durable
- 13 roughness parameters
- Can be operated by mobile phones (only Android system) or computers
- Measurement results can be exported in Excel and PDF format
- Memory of 18000 measurements with only parameters or 30 measurements with graph
- Automatic power off



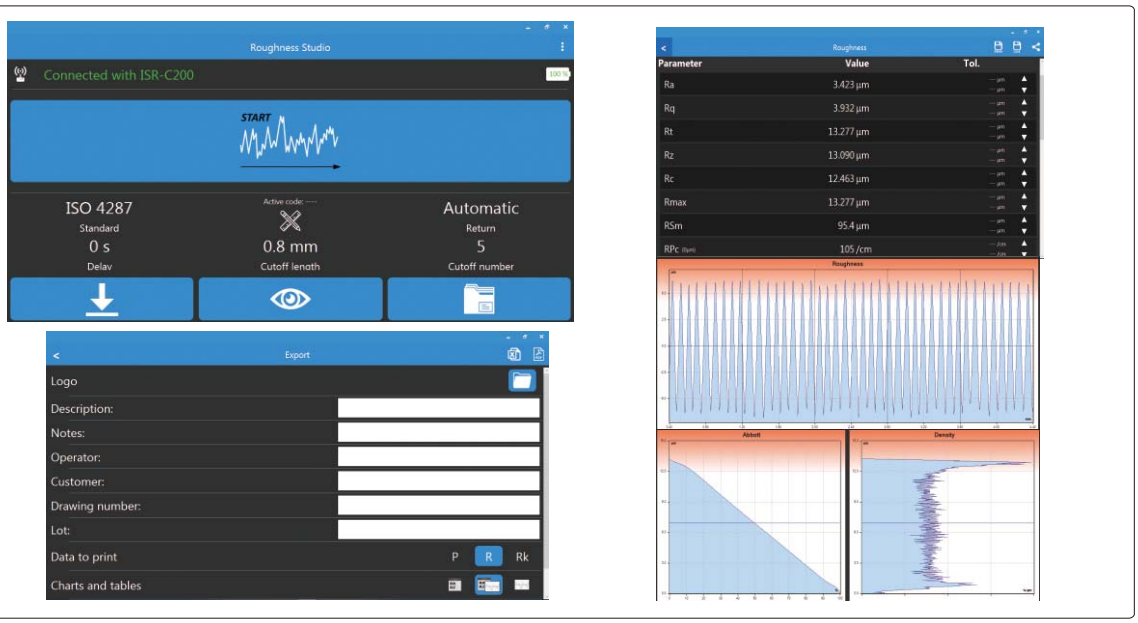
probe can be set at 90°,
for transverse measurement



probe cover (included)



adjustable stand (included)



measuring software (included), connect to mobile phones via bluetooth (only Android system) to control roughness tester, or connect to computers via USB cable or bluetooth to control roughness tester, display roughness values and curve, results can be exported in Excel and PDF format

To be continued

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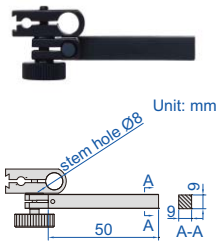
magnetic stand adapter (included)





can be installed on magnetic stands

dial test indicator holder (**optional**)





can be installed on height gages

SPECIFICATION

Parameters		Ra, Rq, Rt, Rz, Rc, Rmax, RSm, Rpc, Pt, R, AR, Rx, Ppc
Range	**X axis**	17.5mm
	Z axis	250μm
Accuracy		±(5%+0.025)μm
Resolution (Ra)		0.001μm
Probe	**type**	inductive
	stylus radius/angle	2μm/90°
	stylus material	diamond
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-off		1~5
Moving speed		0.5mm/s, 1mm/s
Memory		18000 measurements with only parameters, 30 measurements with graph
Power		built-in rechargeable battery
Dimension (L×W×H)		160×34×33.5mm
Weight		200g

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block	1 pc
Adjustable stand	1 pc
Probe cover	1 pc
Magnetic stand adapter	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

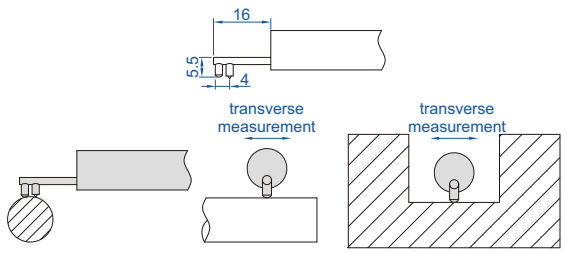
OPTIONAL ACCESSORY

Dial test indicator holder	**6293-6**
Groove probe	**ISR-C200-SB21**
Small hole probe	**ISR-C200-SB31**
Deep groove probe	**ISR-C200-SB121**
Extension rod	**ISR-C200-ER50**
Extension rod	**ISR-C200-ER100**

SPECIFICATION OF PROBES

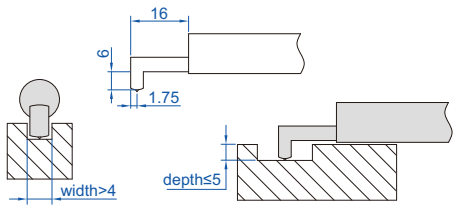
Unit: mm

standard probe (included)



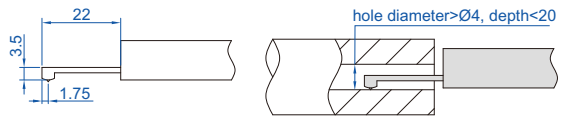
measurement for plane surfaces, also transverse measurement for plane surfaces, cylinders and grooves

groove probe (optional), code ISR-C200-SB21



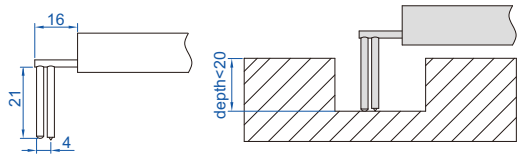
measure plane surfaces and grooves

small hole probe (optional), code ISR-C200-SB31



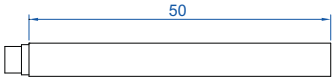
measure holes with diameter>Ø4mm and depth<20mm

deep groove probe (optional), code ISR-C200-SB121



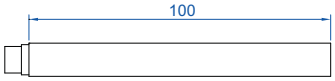
measure grooves with depth<20mm

extension rod (optional), code ISR-C200-ER50



for long holes

extension rod (optional), code ISR-C200-ER100



for long holes

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BLUETOOTH | DATA OUTPUT | CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS

ROUGHNESS TESTER
CODE ISR-C002

VIDEO

- Roughness tester can be operated by mobile phones (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Support bluetooth printer
- 21 roughness parameters
- Display roughness value, profile and curve
- Memory of maximum 100 results
- Automatic power off



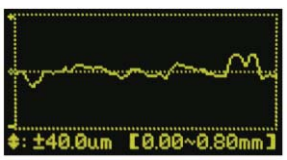


software flash disk (included)

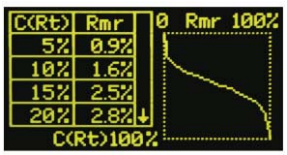
screen display



measurement result



roughness profile



Rmr analysis

probe cover (included)



put the small workpieces directly under the probe for measurement



adjustable stand (included)



operate roughness tester by mobile phones



connect to mobile phones via bluetooth (only Android system), display roughness values, profile and curve

operate roughness tester by computers



connect to computers via USB cable (software is included), display roughness values, profile and curve

data can be sent to Excel by connecting to computer via bluetooth or SPC cable

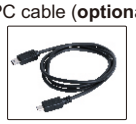
via bluetooth

receiver (**optional**)



via SPC cable

SPC cable (**optional**)



receiver (**optional**)





bluetooth printer (**optional**)



To be continued

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light duty test stand (**optional**)



the maximum workpiece height is 220mm

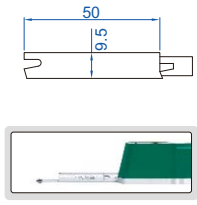
heavy duty test stand (**optional**)



the maximum workpiece height is 310mm

Unit: mm

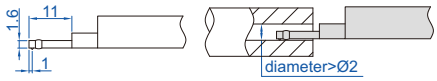
extension rod (optional), code ISR-C002-ER



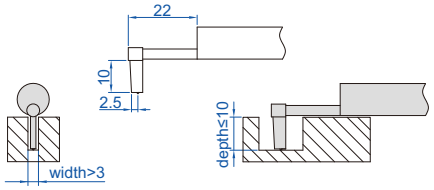
transverse rod (optional), code ISR-C002-TR



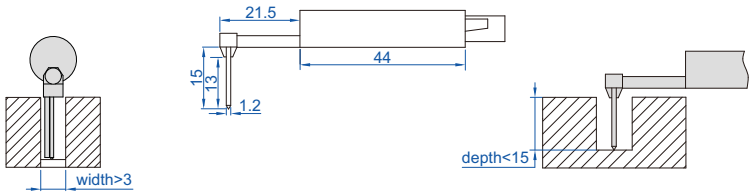
tiny hole probe (optional), code ISR-C002-SBP



deep groove probe (optional), code ISR-C002-DGP



deep groove probe (optional), code ISR-C002-DGP1



SPECIFICATION

Parameters		Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax
Range		320μm (-160μm~160μm)
Accuracy		±10%
Resolution (Ra)		0.001μm
Probe	**type**	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-off		1 to 5
Moving speed		0.5mm/s, 1mm/s
Memory		100 measurement results
Output		bluetooth and USB
Power		built-in rechargeable battery
Dimension (L×W×H)		141×55×40mm
Weight		400g

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Extension rod	**ISR-C002-ER**
Transverse rod	**ISR-C002-TR**
Tiny hole probe	**ISR-C002-SBP**
Deep groove probe	**ISR-C002-DGP**
Deep groove probe	**ISR-C002-DGP1***
Light duty test stand	**ISR-C002-STAND1**
Heavy duty test stand	**ISR-C002-STAND**
Bluetooth printer	**ISR-C002-PRINTER**
Receiver	**ISR-C300-RECEIVER**
SPC cable	**ISR-C300-SPC**

*Need to be delivered with roughness tester **ISR-C002**

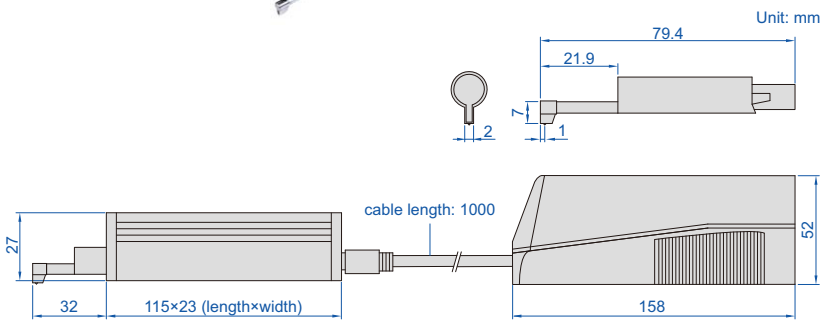
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BLUETOOTH | TOUCH SCREEN | CAN BE OPERATED BY COMPUTERS OR MOBILE PHONES | DATA OUTPUT | POPULAR MODEL

ROUGHNESS TESTER (SEPARABLE TYPE)
CODE ISR-C300

- Roughness tester can be operated by mobile phones (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Support bluetooth printer
- 22 roughness parameters
- Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve
- Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Touch screen
- Automatic power off

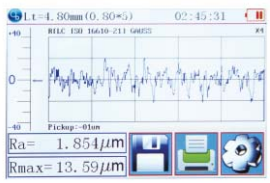




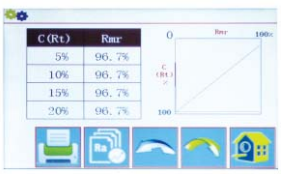
roughness tester screen display



measurement result



roughness profile



Rmr analysis

VIDEO



software flash disk (included)

probe and main unit can be combined together

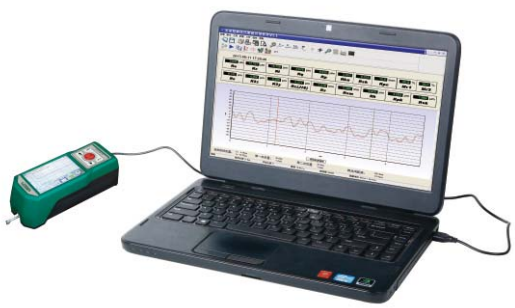


operate roughness tester by mobile phones



connect to mobile phones via bluetooth (only Android system), display roughness values, profile and curve

operate roughness tester by computers



connect to computers via USB cable (software is included), display roughness values, profile and curve

To be continued

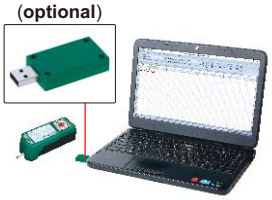
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data can be sent to Excel by connecting to computer via bluetooth or SPC cable

via bluetooth

receiver (**optional**)



via SPC cable

SPC cable (**optional**)



receiver (**optional**)



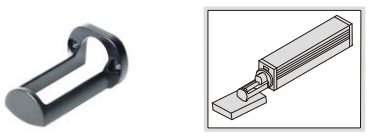


bluetooth printer (**optional**)

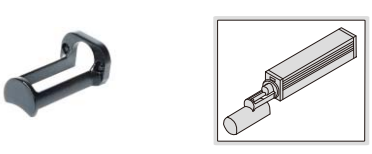


probe support (**optional**)

support for flat surface



support for cylindrical surface



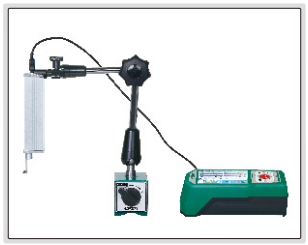
adjustable stand (included)

height is adjustable (40mm)



magnetic stand adapter (included)





can be installed on magnetic stands

height gage adapter (**optional**)





can be installed on height gages

NOTE: Please check whether the adapter can fit your height gages. When using **INSIZE** height gages, please use the dial test indicator holder of height gages

light duty test stand (**optional**)



the maximum workpiece height is 220mm

heavy duty test stand (**optional**)



the maximum workpiece height is 310mm

To be continued

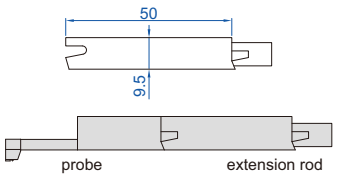
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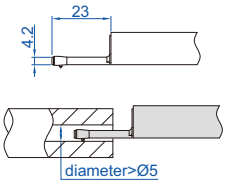
optional probes

Unit: mm

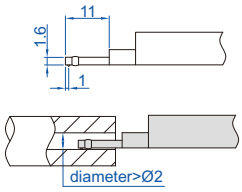
extension rod (optional), code ISR-C002-ER



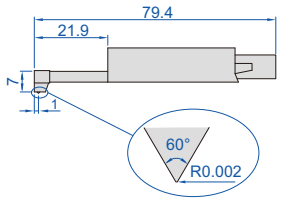
small hole probe (optional), code ISR-C002-PROBE



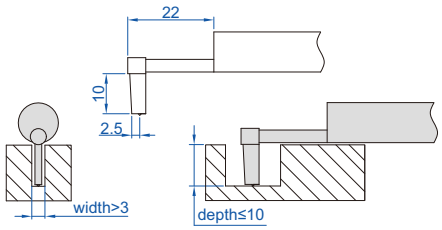
tiny hole probe (optional), code ISR-C002-SBP



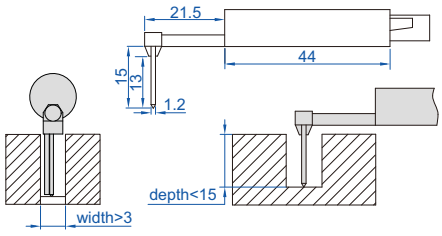
2μm/60° probe (optional), code ISR-C300-P2UM (When Ra<0.5μm, the accuracy with this probe is better)



deep groove probe (optional), code ISR-C002-DGP



deep groove probe (optional), code ISR-C002-DGP1



SPECIFICATION

Parameters		Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax
Range	**X axis**	17.5mm
	Z axis	320μm (-160μm~160μm)
Accuracy		±10%
Resolution (Ra)		0.001μm
Probe	**type**	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1~5
Moving speed		0.135mm/s, 0.5mm/s, 1mm/s
Memory		100 measurement results
Output		USB and bluetooth
Power		built-in rechargeable battery
Dimension (L×W×H)		158×64×52mm
Weight		400g

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Connecting cable (long and short)	1 pc of each
Magnetic stand adapter	1 pc
Adjustable stand	1 pc
Touch pen	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Extension rod	**ISR-C002-ER**
Small hole probe	**ISR-C002-PROBE**
Tiny hole probe	**ISR-C002-SBP**
Deep groove probe	**ISR-C002-DGP**
Deep groove probe	**ISR-C002-DGP1***
2μm/60° probe	**ISR-C300-P2UM**
Bluetooth printer	**ISR-C002-PRINTER**
Height gage adapter	**ISR-C300-LB1**
Receiver	**ISR-C300-RECEIVER**
SPC cable	**ISR-C300-SPC**
Support for flat surface	**ISR-C300-COVER1**
Support for cylindrical surface	**ISR-C300-COVER2**
Light duty test stand	**ISR-C002-STAND1**
Heavy duty test stand	**ISR-C002-STAND**

*Need to be delivered with roughness tester **ISR-C300**

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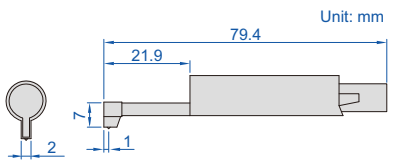
ROUGHNESS TESTER
CODE ISR-T120

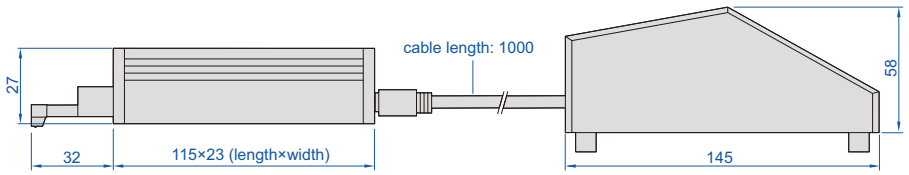
DATA OUTPUT | BLUETOOTH | TOUCH SCREEN | CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS



VIDEO

- Roughness tester can be operated by mobile phones (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Built-in printer can print measurement results and graphics
- 22 roughness parameters
- Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve
- Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Automatic power off

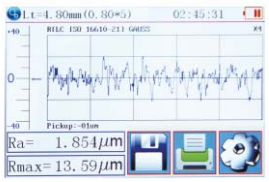




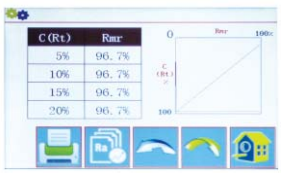
roughness tester screen display



measurement result



roughness profile



Rmr analysis

operate roughness tester by mobile phones



connect to mobile phones via bluetooth (only Android system), display roughness values, profile and curve

operate roughness tester by computers



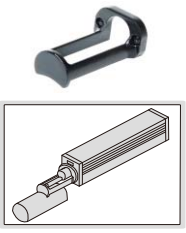
connect to computers via USB cable (software is included), display roughness values, profile and curve

To be continued

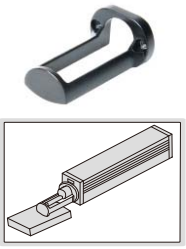
Continued from pevious page

probe support (**optional**)

support for cylindrical surface



support for flat surface



data can be sent to Excel by connecting to computer via bluetooth or SPC cable

via bluetooth

receiver (**optional**)



via SPC cable

SPC cable (**optional**)



receiver (**optional**)





height gage adapter (**optional**)





can be installed on height gages

NOTE: Please check whether the adapter can fit your height gages. When using **INSIZE** height gages, please use the dial test indicator holder of height gages

magnetic stand adapter (included)



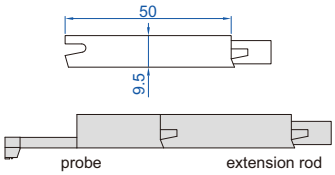


can be installed on magnetic stands

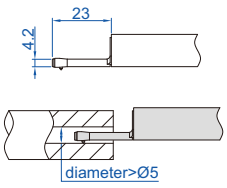
optional probes

Unit: mm

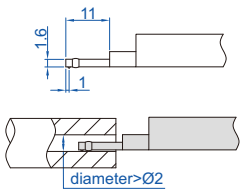
extension rod (optional), code ISR-C002-ER



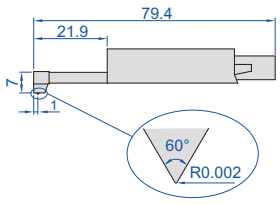
small hole probe (optional), code ISR-C002-PROBE



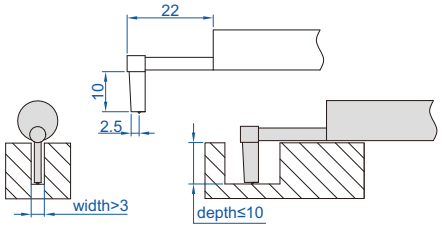
tiny hole probe (optional), code ISR-C002-SBP



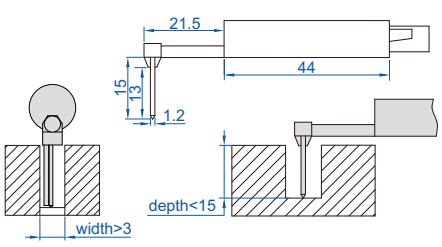
2μm/60° probe (optional), code ISR-C300-P2UM (When Ra<0.5μm, the accuracy with this probe is better)



deep groove probe (optional), code ISR-C002-DGP



deep groove probe (optional), code ISR-C002-DGP1



To be continued

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Continued from pevious page

light duty test stand (**optional**)



the maximum workpiece height is 220mm

heavy duty test stand (**optional**)



the maximum workpiece height is 310mm

SPECIFICATION

Parameters		Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax
Range	**X axis**	17.5mm
	Z axis	640μm (-320μm~320μm)
Accuracy		±10%
Resolution (Ra)		0.001μm
Probe	**type**	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1~5
Traverse speed		0.135mm/s, 0.5mm/s, 1mm/s
Memory		100 measurement results
Output		bluetooth and USB
Power		built-in rechargeable battery
Dimension (L×W×H)		158×64×52mm
Weight		400g

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Magnetic stand adapter	1 pc
Adjustable stand	1 pc
Touch pen	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Extension rod	**ISR-C002-ER**
Small hole probe	**ISR-C002-PROBE**
Tiny hole probe	**ISR-C002-SBP**
2μm/60° probe	**ISR-C300-P2UM**
Deep groove probe	**ISR-C002-DGP**
Deep groove probe	**ISR-C002-DGP1***
Height gage adapter	**ISR-C300-LB1**
Receiver	**ISR-C300-RECEIVER**
SPC cable	**ISR-C300-SPC**
Support for flat surface	**ISR-C300-COVER1**
Support for cylindrical surface	**ISR-C300-COVER2**
Light duty test stand	**ISR-C002-STAND1**
Heavy duty test stand	**ISR-C002-STAND**

*Need to be delivered with roughness tester **ISR-T120**

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ATTENTION: THIS ROUGHNESS TESTER IS NOT SUITABLE FOR ROUGH TURNING, MILLING AND PLANING WORKPIECES

ROUGHNESS TESTER (BASIC TYPE) CODE ISR-C003

VIDEO



- Unit: µm, µin
- Automatic power off

SPECIFICATION

Parameters		Ra, Rz, Rq, Rt
Range		Ra, Rq: 0.05~15µm Rz, Rt: 0.1~50µm
Accuracy		±10%
Resolution (Ra)		0.01µm
Probe	**type**	piezoelectric
	stylus radius/angle	10µm/90°
	stylus material	diamond
Measuring force		5mN
Measuring unit		µm/µin
Cut off		0.25/0.8/2.5mm
Evaluation length		1.25mm for cut off 0.25mm 4mm for cut off 0.8mm 5mm for cut off 2.5mm
Moving speed		0.75mm/s
Power		built-in rechargeable battery
Dimension (L×W×H)		106×70×24mm
Weight		200g

fixture for small shafts (**optional**)





application



calibration block (included)

STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Fixture for small shafts	**ISR-C003-FIXTURE**

SURFACE ROUGHNESS SPECIMEN SET CODE ISR-CS130-W

INSIZE PLUS
MADE IN EUROPE



- For checking, identifying and specifying the roughness by symbol
- Rust-proof, made of pure Nickel

Machining method	Roughness (Ra) *	Roughness (Rz) *	Quantity
Flat lapping	0.05, 0.1, 0.2µm 2, 4, 8µin	0.55, 1, 1.6µm	3 pcs
Reaming	0.4, 0.8, 1.6µm 16, 32, 63µin	3, 6, 10µm	3 pcs
Plain grinding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm 2, 4, 8, 16, 32, 63µin	0.55, 1, 1.6, 3, 6, 10µm	6 pcs
Horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm 16, 32, 63, 125, 250, 500µin	2.5, 4, 8, 16, 32, 50µm	6 pcs
Vertical milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm 16, 32, 63, 125, 250, 500µin	2.5, 4, 8, 16, 32, 50µm	6 pcs
Turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm 16, 32, 63, 125, 250, 500µin	2.5, 4, 8, 16, 32, 50µm	6 pcs

* The actual value is the value to be calibrated

SURFACE ROUGHNESS SPECIMENS

INSIZE PLUS
MADE IN EUROPE

- For checking, identifying and specifying the roughness by symbol
- Rust-proof, made of pure Nickel



ISR-CS315

Code	Machining method		Roughness (Ra)*	Roughness (Rz)*	Quantity
ISR-CS315	surface grinding		0.025, 0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2µm	0.29, 0.55, 0.91, 1.74, 2.6, 4.65, 7.87, 15.6µm	8 pcs
ISR-CS316	cylindrical grinding		0.025, 0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2µm	0.3, 0.53, 0.88, 1.56, 2.64, 4.4, 7.71, 15.3µm	8 pcs
ISR-CS317	flat lapping	criss-cross	0.025, 0.05, 0.1, 0.2µm	0.4, 0.6, 0.74, 1.26µm	4 pcs
		parallel	0.025, 0.05, 0.1, 0.2µm	0.34, 0.56, 1.12, 1.5µm	4 pcs
ISR-CS318	cylindrical lapping		0.025, 0.05, 0.1, 0.2µm	0.46, 0.54, 0.63, 1.23µm	4 pcs
	superfinishing		0.025, 0.05, 0.1, 0.2µm	0.36, 0.7, 1, 1.4µm	4 pcs
ISR-CS319	face turning		0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.92, 3.2, 6.15, 12.5, 23.7, 48.7, 102, 185µm	8 pcs
ISR-CS320	cylindrical turning		0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.7, 3.2, 6.1, 12.2, 23.7, 47.5, 95, 190µm	8 pcs
ISR-CS321	end milling		0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.92, 3.82, 6.45, 12.2, 25.2, 49.8, 92.6, 191µm	8 pcs
ISR-CS322	reaming		0.4, 0.8, 1.6, 3.2µm	1.7, 3.2, 6.4, 12.8µm	4 pcs
	drilling		1.6, 3.2, 6.3, 12.5µm	7.5, 15.5, 31, 60µm	4 pcs
ISR-CS323	horizontal milling		0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.8, 3.68, 6.63, 12.8, 25.6, 53, 97.5, 197µm	8 pcs
ISR-CS325	shaping (planing)		0.8, 1.6, 3.2, 6.3, 12.5, 25, 50, 100µm	3.84, 6.7, 12.2, 25.2, 48.7, 99.9, 190, 361µm	8 pcs
ISR-CS326	linishing (belt sanding)		0.1, 0.2, 0.4, 0.8, 1.6, 3.2µm	0.9, 1.55, 3.37, 7.42, 18.5, 31µm	6 pcs
ISR-CS328	vertical grinding		0.2, 0.4, 0.8, 1.6, 3.2, 6.3µm	1.1, 3.5, 6.15, 8.78, 22.19, 40.8µm	6 pcs
ISR-CS329	grit blasting		3.2, 10.5, 18, 25µm	19.2, 63, 108, 150µm	4 pcs
	shot blasting		3.2, 8, 13, 18µm	19.2, 48, 78, 108µm	4 pcs
ISR-CS331	spark erosion (EDM)		0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	2.5, 4.5, 7.2, 14.2, 24.7, 51.2, 105, 196µm	8 pcs
ISR-CS333	hand filing		0.4, 0.8, 1.6, 3.2, 6.3µm	3, 5.6, 12.4, 22.5, 61µm	5 pcs
ISR-CS334	castings		0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	3.2, 8, 16, 32, 56, 112, 225µm	7 pcs
ISR-CS335	honing		0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm	0.31, 0.56, 1, 2, 4.2, 9µm	6 pcs
ISR-CS336	polishing		0.0125, 0.025, 0.05, 0.1, 0.2µm	0.29, 0.35, 0.67, 0.72, 1.52µm	5 pcs

* The actual value is the value to be calibrated

SHOT AND GRIT BLASTING SURFACE ROUGHNESS SPECIMENS

INSIZE PLUS
MADE IN EUROPE

- To check the roughness of steel surfaces which have been blast cleaned before painting
- Meets ISO 8503/1
- Rust-proof, made of pure Nickel
- Each piece contains 4 parts



ISR-CS017

Code	Machining method	Roughness (Ra)*	Roughness (Rz)*
ISR-CS017	shot blasting	3.2, 8, 13, 18µm	19.2, 48, 78, 108µm
ISR-CS018	grit blasting	3.2, 10.5, 18, 25µm	19.2, 63, 108, 150µm

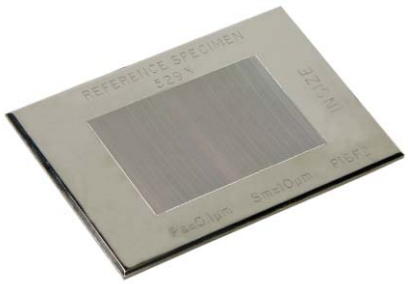
* The actual value is the value to be calibrated

MEASURING ACCURACY OF ROUGHNESS TESTERS CAN BE IMPROVED, IF THE CALIBRATION IS MADE ON A REFERENCE SPECIMEN WITH THE ROUGHNESS VALUE CLOSE TO THE WORKPIECE TO BE MEASURED

SURFACE ROUGHNESS REFERENCE SPECIMENS

INSIZE PLUS
MADE IN EUROPE

- To calibrate roughness testers
- Meets ISO 5436-1: 2000
- Rust proof, made of pure Nickel



ISR-RS529X

Code	Roughness (Ra)
ISR-RS525X	6.25µm*
ISR-RS526X	3.15µm*
ISR-RS527X	3.0µm *
ISR-RS528X	0.5µm *
ISR-RS529X	0.1µm *
ISR-RS530X	1.0µm *
ISR-RS531X	0.3µm *

*The actual value may be slightly different

MEASURING ACCURACY OF ROUGHNESS TESTERS CAN BE IMPROVED, IF THE CALIBRATION IS MADE ON A REFERENCE SPECIMEN WITH THE ROUGHNESS VALUE CLOSE TO THE WORKPIECE TO BE MEASURED

SURFACE ROUGHNESS REFERENCE SPECIMENS

- To calibrate roughness testers
- Made of glass



ISR-LS603

Code	Roughness (Ra)	Deviation*	Uniformity
ISR-LS601	0.1µm	-20%~+10%	3%
ISR-LS602	0.2µm	±10%	3%
ISR-LS603	0.4µm	±10%	3%
ISR-LS604	0.8µm	±10%	3%
ISR-LS605	1.6µm	±10%	3%
ISR-LS606	3.2µm	±10%	2%
ISR-LS607	6.4µm	±10%	2%

*Deviation between the actual value when supply and the nominal value

30 HARDNESS TESTERS

INSIZE



Rockwell Hardness Testers
Page 698-712



Micro-Vickers Hardness Testers
Page 713-719



Vickers Hardness Testers
Page 720



Vickers Hardness Measuring Systems
Page 714/721



Brinell Hardness Testers
Page 722-724



Brinell Indentation Measuring Systems
Page 725



Brinell/Rockwell/Vickers Hardness Testers
Page 726-727



Leeb Hardness Testers
Page 728-737



Magnetic Rockwell Hardness Testers
Page 738-739



Magnetic Brinell/Rockwell Hardness Testers
Page 739



Portable Rockwell Hardness Testers
Page 740



Pin Brinell Hardness Testers
Page 740-741

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INSIZE

HARDNESS TESTERS

30



Hydraulic Brinell Hardness Testers
Page 741



Chain Type Hydraulic Brinell Hardness Testers
Page 742



Aluminum Hardness Testers
Page 742



Barcol Hardness Testers
Page 743



Shore Durometers
Page 743-746



Fruit Hardness Testers
Page 746



Hardness Test Blocks
Page 747-748



Concrete Strength Testers
Page 749

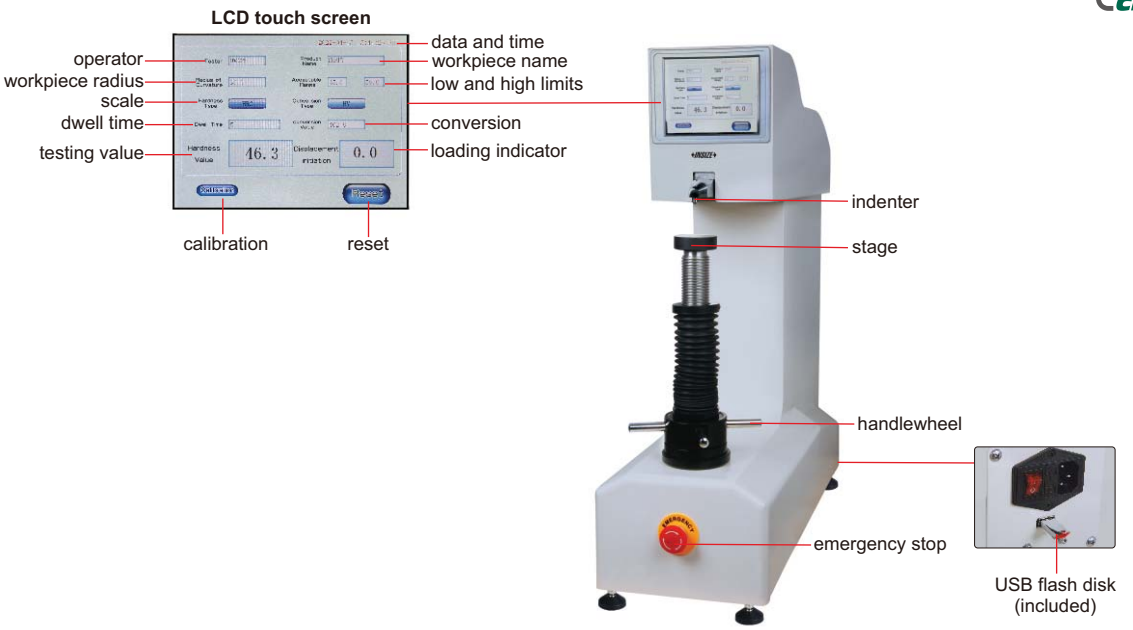
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MOTORIZED DIGITAL ROCKWELL HARDNESS TESTERS (DOLPHIN-NOSE TYPE)

DATA OUTPUT

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

INSPECTION CERTIFICATE



VIDEO

ISHR-T100



Ø63mm flat anvil (included)



Ø150mm flat anvil (included)



level (included)



touch pen (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



desk (**optional**)



small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm

- Dolphin-nose indenter to reach interior of pipe and groove
- Automatic testing after preliminary test force is loaded by hand
- LCD touch screen, easy operation
- Convert to other Rockwell scales, HV or HB automatically
- Tolerance testing
- Insert USB disk, save the testing results as Excel
- Self-compensation of the hardness value for curved workpiece
- Force loading by electric motor (without weights)
- The test force is selected automatically according to hardness scale
- According to ISO 6508



measure interior of pipes and grooves, the minimum internal diameter is 35mm

To be continued

Continued from previous page

SPECIFICATION

Code		ISHR-T100	ISHR-T200	ISHR-T300
Type		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Hardness scale	with standard indenter	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force		98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell
Test force		588N (60kg), 980N (100kg), 1471N (150kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)
Stage elevation		manual		
Load control		automatic (load/dwell/unload)		
Load dwell time		0~99 second		
Resolution		0.1HR		
Output		USB		
Max. workpiece height		300mm		
Max. testing width		250mm (from the center of indenter to the wall of main body)		
Power supply		220V, 50/60Hz		
Dimension		720×260×840mm		
Weight		80kg		

STANDARD DELIVERY

Code	ISHR-T100	ISHR-T200	ISHR-T300
Main unit	1 pc	1 pc	1 pc
Ø63mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Hardness test block HRB88~95	1 pc	—	1 pc
Hardness test block HRC60~65	1 pc	—	1 pc
Hardness test block HRC20~30	1 pc	—	1 pc
Hardness test block 78~88HR15N	—	1 pc	1 pc
Hardness test block 55~73HR30N	—	1 pc	1 pc
Hardness test block 57~69HR30T	—	1 pc	1 pc
USB disk	1 pc	1 pc	1 pc
Level	1 pc	1 pc	1 pc
Touch pen	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block 78~88HR15N	HDT-B-HR15N2
Hardness test block 55~73HR30N	HDT-B-HR30N2
Hardness test block 73~82HR30T	HDT-B-HR30T
Small V-type anvil	ISH-SMALLANVIL
Desk	HDT-DESK

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AUTOMATIC DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS (FOR MASS PRODUCTION)

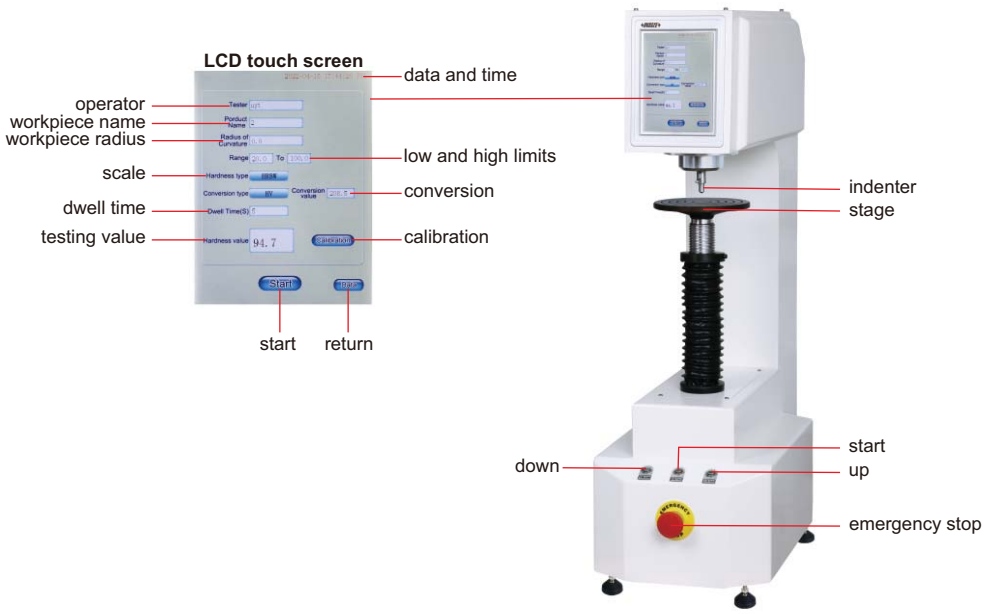
AUTOMATIC LIFTING OF STAGE
AUTOMATIC LOADING AND UNLOADING

DATA OUTPUT

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

INSPECTION CERTIFICATE

VIDEO



HDT-A410


Ø63mm flat anvil (included)


Ø150mm flat anvil (included)


level (included)


touch pen (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

- According to BSEN 6508, ISO 6508, ASTM E18
- Automatic lifting of stage without manual rotation
- Automatic testing, the preliminary and main test force are loaded automatically
- LCD touch screen, easy operation
- Convert to other Rockwell scales, HV or HB automatically
- Tolerance testing
- Insert USB flash disk, save the testing results as Excel
- Self-correcting the hardness value for curved workpieces
- The accuracy can be corrected with three standard blocks of low, medium and high values
- The loading force can be corrected with standard force gages
- Force loading by electric motor (without weights)
- The test force is selected automatically according to hardness scales

To be continued

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Continued from previous page

SPECIFICATION

Code		HDT-A410	HDT-A510	HDT-A610
Type		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Hardness scale	with standard indenters	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force		98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell
Test force		588N (60kg), 980N (100kg), 1471N (150kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)
Stage lifting		automatic		
Load control		automatic (load/dwell/unload)		
Load dwell time		0~99 second		
Resolution		0.1HR		
Output		USB		
Max. workpiece height		300mm		
Max. testing width		200mm (from the center of indenter to the wall of main body)		
Power supply		220V, 50/60Hz		
Dimension		560×280×850mm		
Weight		80kg		

STANDARD DELIVERY

Code	HDT-A410	HDT-A510	HDT-A610
Main unit	1 pc	1 pc	1 pc
Ø63mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Hardness test block HRB88~95	1 pc	—	1 pc
Hardness test block HRC60~65	1 pc	—	1 pc
Hardness test block HRC20~30	1 pc	—	1 pc
Hardness test block 78~88HR15N	—	1 pc	1 pc
Hardness test block 55~73HR30N	—	1 pc	1 pc
Hardness test block 57~69HR30T	—	1 pc	1 pc
USB flash disk (8G)	1 pc	1 pc	1 pc
Level	1 pc	1 pc	1 pc
Touch pen	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block 78~88HR15N	HDT-B-HR15N2
Hardness test block 55~73HR30N	HDT-B-HR30N2
Hardness test block 73~82HR30T	HDT-B-HR30T
Small V-type anvil	ISH-SMALLANVIL
Desk	HDT-DESK

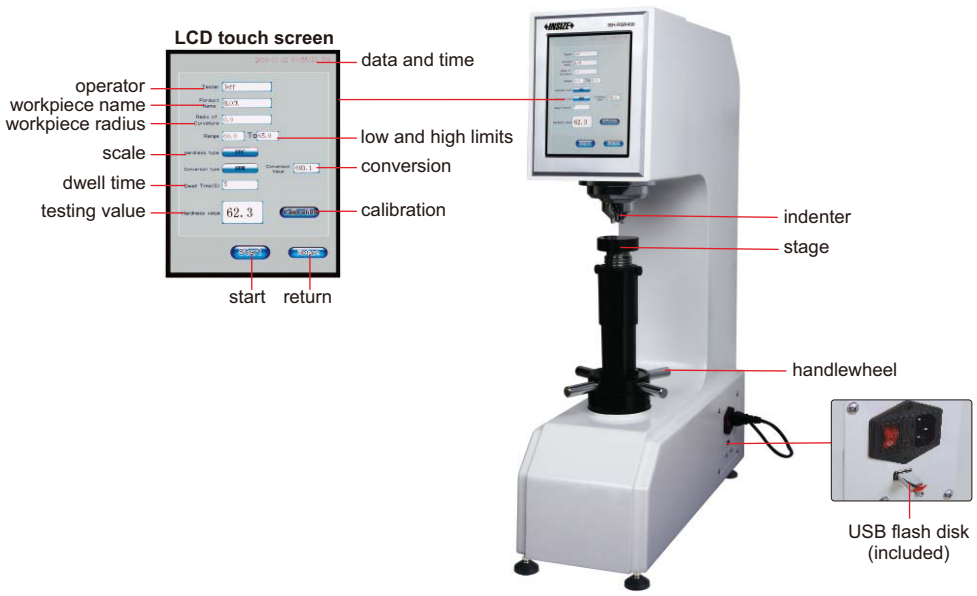
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MOTORIZED DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS

DATA OUTPUT

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

INSPECTION CERTIFICATE



VIDEO

ISH-RSR400


Ø63mm flat anvil (included)


Ø150mm flat anvil (included)


level (included)


touch pen (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

- Automatic testing, the preliminary and main test force are loaded automatically
- LCD touch screen, easy operation
- Convert to other Rockwell scales, HV or HB automatically
- Tolerance testing
- Insert USB flash disk, save the testing results as Excel
- Self-correcting the hardness value for curved workpieces
- Force loading by electric motor (without weights)
- The test force is selected automatically according to hardness scale
- According to ISO 6508

automatic testing



elevate the stage by hand to let the workpiece touch the indenter protection cover, press “start” to start testing automatically, the preliminary and main test force are loaded automatically

To be continued

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Continued from previous page

SPECIFICATION

Code		ISH-RSR400	ISH-RSR500	ISH-RSR600
Type		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Hardness scale	with standard indenters	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force		98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell
Test force		588N (60kg), 980N (100kg), 1471N (150kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)
Stage elevation		manual		
Load control		automatic (load/dwell/unload)		
Load dwell time		0~60 second		
Resolution		0.1HR		
Output		USB		
Max. workpiece height		220mm		
Max. testing width		200mm (from the center of indenter to the wall of main body)		
Power supply		220V, 50/60Hz		
Dimension		510×260×780mm		
Weight		70kg		

STANDARD DELIVERY

Code	ISH-RSR400	ISH-RSR500	ISH-RSR600
Main unit	1 pc	1 pc	1 pc
Ø63mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Hardness test block HRB88~95	1 pc	—	1 pc
Hardness test block HRC60~65	1 pc	—	1 pc
Hardness test block HRC20~30	1 pc	—	1 pc
Hardness test block 78~88HR15N	—	1 pc	1 pc
Hardness test block 55~73HR30N	—	1 pc	1 pc
Hardness test block 57~69HR30T	—	1 pc	1 pc
USB flash disk (8G)	1 pc	1 pc	1 pc
Level	1 pc	1 pc	1 pc
Touch pen	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block 78~88HR15N	HDT-B-HR15N2
Hardness test block 55~73HR30N	HDT-B-HR30N2
Hardness test block 73~82HR30T	HDT-B-HR30T
Small V-type anvil	ISH-SMALLANVIL
Desk	HDT-DESK

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MOTORIZED DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS

INSPECTION CERTIFICATE | FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS) | TOUCH SCREEN | BUILT-IN BLUETOOTH



Ø58mm flat anvil (included)



Ø150mm flat anvil (included)

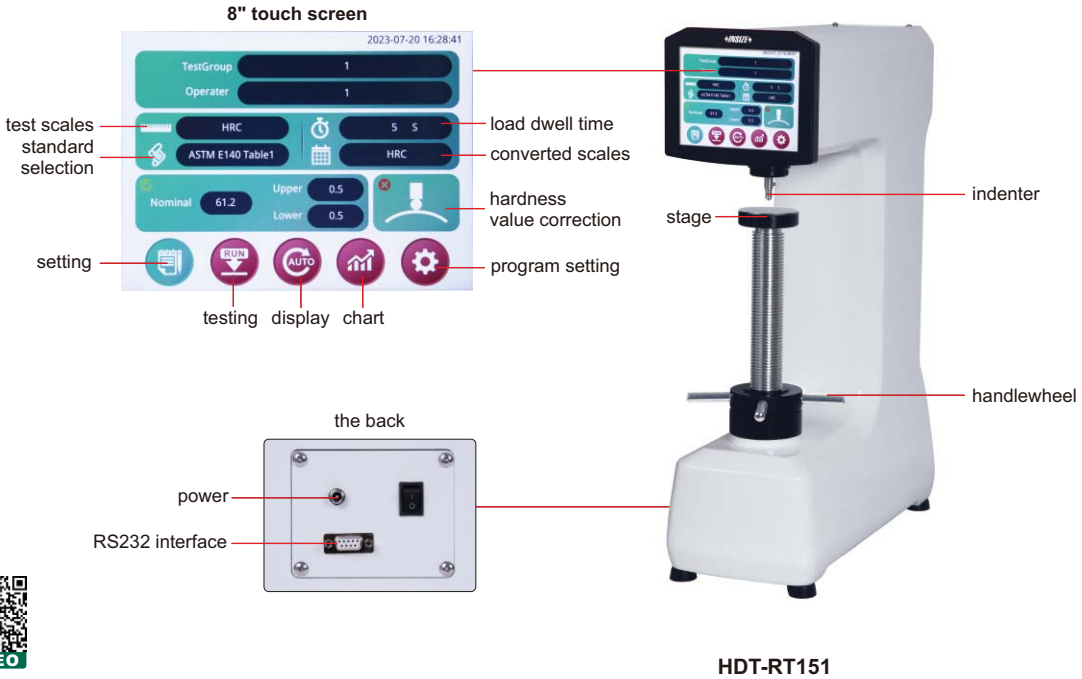


V-type anvil (included)



bluetooth printer (included)

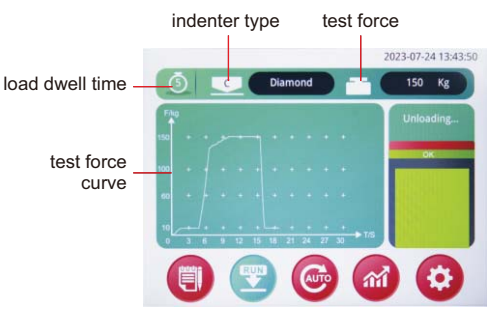
VIDEO



HDT-RT151

- Electronic loading test force, high accuracy of force value, and stable measurement value
- Touch screen operation and display, simple operation interface
- 15 types of Rockwell hardness scales can be tested
- Convertible to various hardness standards such as HB and HV
- 500 sets of storage
- With correction function, the hardness value can be corrected based on the size of the cylinders
- According to ISO 6508

test interface



test result display interface

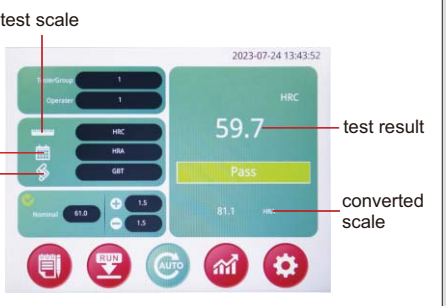
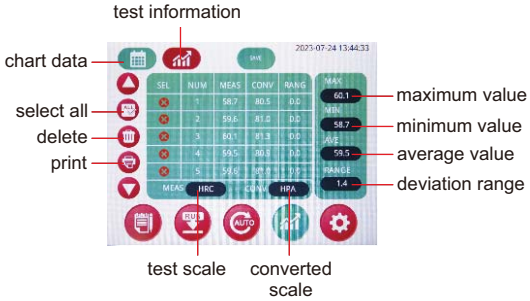


chart interface



To be continued

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SPECIFICATION

Code		HDT-RT151	HDT-RT152	HDT-RT153
Type		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Measurement range		20~88HRA, 20~100HRB, 20~70HRC	70~91HR15N, 42~80HR30N, 42~70HR45N, 73~93HR15T, 43~82HR30T, 12~72HR45T	Rockwell: 20~88HRA, 20~100HRB, 20~70HRC; Superficial RockWell: 70~91HR15N, 42~80HR30N, 42~70HR45N, 73~93HR15T, 43~82HR30T, 12~72HR45T
Hardness scale	with indenter included	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force		98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell
Test force		588N (60kg), 980N (100kg), 1471N (150kg)	147N (15kg), 294N (30kg), 441N (45kg)	147N (15kg), 294N (30kg), 441N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)
Stage elevation		manual		
Load control		automatic (load/dwell/unload)		
Load dwell time		2~60 second		
Resolution		0.1HR		
Max. workpiece height		230mm		
Max. testing width		170mm		
Power supply		100~240V, 50/60Hz		
Dimension		475×200×700mm		
Weight		70kg		

STANDARD DELIVERY

Code	HDT-RT151	HDT-RT152	HDT-RT153
Main unit	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Ø58mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Hardness test block HRC20~30	1 pc	—	1 pc
Hardness test block HRC40~50	1 pc	—	—
Hardness test block HRC60~70	1 pc	—	1 pc
Hardness test block HRBW80~100	1 pc	—	1 pc
Hardness test block HRA80~90	1 pc	—	—
Hardness test block HR15N80~90	—	1 pc	—
Hardness test block HR30N60~85	—	1 pc	1 pc
Hardness test block HR30TW70~85	—	1 pc	1 pc
Bluetooth printer	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

OPTIONAL ACCESSORY

Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRB80~100	HDT-B-HRB
Hardness test block HR15N78~88	HDT-B-HR15N2
Hardness test block HR30N55~73	HDT-B-HR30N2
Hardness test block HR30T73~82	HDT-B-HR30T

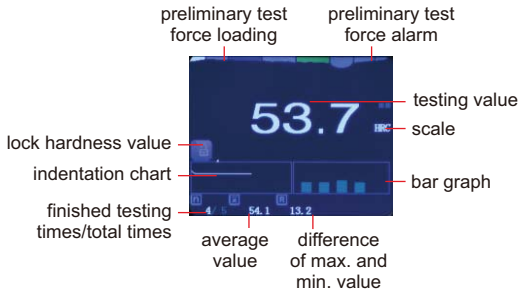
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MOTORIZED DIGITAL ROCKWELL HARDNESS TESTER
CODE ISH-MRD200

INSPECTION CERTIFICATE

DATA OUTPUT

VIDEO







software flash disk (included)

- Tolerance testing
- Set testing times (2~10) to have average value and the difference of max. and min. value
- Convert to other Rockwell scales, HV or HB
- Memory of 500 testing values for browsing and output
- Testing value can be sent to wireless printer automatically
- Calibration function compensates the testing value for high accuracy
- The hardness value of soft materials like plastic is not stable, the lock function can obtain the value automatically
- Display unit is automatic power off
- According to ISO 6508
- Keyboard signal, can be transmitted to Excel



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm



wireless printer (**optional**)



desk (**optional**)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD HRF, HRG (with standard indenters)
	HRE, HRH, HRK (with optional indenter)
Preliminary test force	98N
Test force	588N, 980N, 1471N
Stage elevation	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1~99 second
Resolution	0.1HR
Output	wireless and USB
Memory	500
Max. workpiece height	170mm
Max. testing width	165mm (from the center of indenter to the wall of main body)
Power supply of the display unit	built-in rechargeable battery
Power supply	220V, 50/60Hz
Dimension	520×160×700mm
Weight	60kg

STANDARD DELIVERY

Main unit	1 pc
Ø60mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Anti-dust cover	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

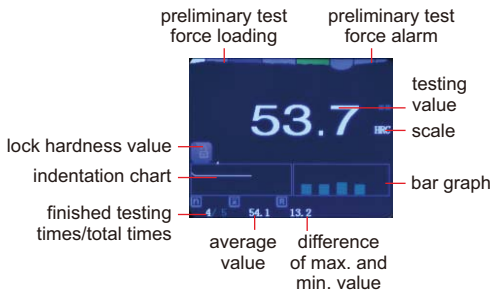
Wireless printer	**ISH-DS-PRINTER**
Ø3.175mm carbide ball indenter	**ISH-EHK-INDENTER**
Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Small V-type anvil	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

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DATA OUTPUT

INSPECTION CERTIFICATE

MANUAL DIGITAL ROCKWELL HARDNESS TESTER
CODE ISH-RD200





VIDEO

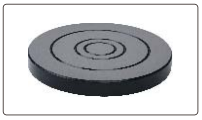
- Tolerance testing
- Set testing times (2~10) to have average value and the difference of max. and min. value
- Convert to other Rockwell scales, HV or HB
- Memory of 500 testing values for browsing and output
- Testing value can be sent to wireless printer automatically
- Calibration function compensates the testing value for high accuracy
- The hardness value of soft materials like plastic is not stable, the lock function can obtain the value automatically
- Automatic power off
- According to ISO 6508
- Keyboard signal, can be transmitted to Excel



software flash disk (included)



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm



wireless printer (**optional**)



desk (**optional**)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD HRF, HRG (with standard indenters)
	HRE, HRH, HRK (with optional indenter)
Preliminary test force	98N
Test force	588N, 980N, 1471N
Stage elevation	manual
Load control	manual
Resolution	0.1HR
Output	wireless and USB
Memory	500
Max. workpiece height	170mm
Max. testing width	165mm (from the center of indenter to the wall of main body)
Power supply	built-in rechargeable battery
Dimension	520×160×700mm
Weight	60kg

STANDARD DELIVERY

Main unit	1 pc
Ø60mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Anti-dust cover	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

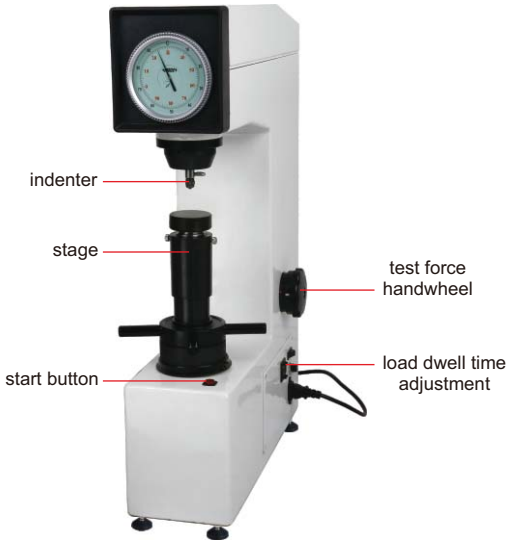
Wireless printer	**ISH-DS-PRINTER**
Ø3.175mm carbide ball indenter	**ISH-EHK-INDENTER**
Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Small V-type anvil	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

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MOTORIZED ROCKWELL HARDNESS TESTER
CODE ISH-MR150

INSPECTION CERTIFICATE

VIDEO



- According to ISO 6508


Ø60mm flat anvil (included)


Ø150mm flat anvil (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N
Test force	588N, 980N, 1471N
Display	analogue
Stage elevation	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1~99 second
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	165mm (from the center of indenter to the wall of main body)
Power supply	220V, 50/60Hz
Dimension	520×160×700mm
Weight	60kg

STANDARD DELIVERY

Main unit	1 pc
Ø60mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Small V-type anvil	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

INSPECTION CERTIFICATE

MOTORIZED ROCKWELL HARDNESS TESTER (BASIC TYPE)
CODE HDT-RA151



VIDEO

- According to ISO 6508


Ø58mm flat anvil (included)


Ø150mm flat anvil (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


level (included)


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N
Test force	588N, 980N, 1471N
Display	analogue
Stage elevation	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1~60 second
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	128mm (from the center of indenter to the wall of main body)
Power supply	220V, 50/60Hz
Dimension	520×225×640mm
Weight	65kg

STANDARD DELIVERY

Main unit	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm steel ball indenter	1 pc
Level	1 pc
Hardness test block HRA80~88	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

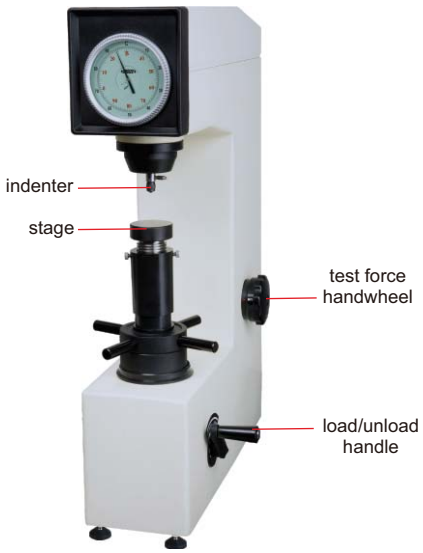
OPTIONAL ACCESSORY

Hardness test block HRA80~84	**HDT-B-HRA**
Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC20~30	**HDT-B-HRC1**
Hardness test block HRC35~55	**HDT-B-HRC2**
Hardness test block HRC60~70	**HDT-B-HRC3**
Small V-type anvil	**HDT-RW160-SV**
Desk	**HDT-DESK**

MANUAL ROCKWELL HARDNESS TESTER
CODE ISH-R150

INSPECTION CERTIFICATE

VIDEO



- According to ISO 6508


Ø60mm flat anvil (included)


Ø150mm flat anvil (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N
Test force	588N, 980N, 1471N
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	165mm (from the center of indenter to the wall of main body)
Dimension	520×160×700mm
Weight	60kg

STANDARD DELIVERY

Main unit	1 pc
Ø60mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

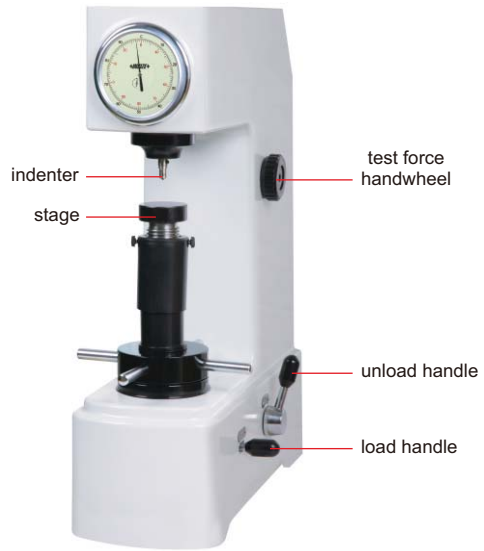
Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Small V-type anvil	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

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INSPECTION CERTIFICATE

MANUAL ROCKWELL HARDNESS TESTER (BASIC TYPE)
CODE HDT-RW160

POPULAR MODEL



VIDEO

- According to ISO 6508


Ø58mm flat anvil (included)


Ø150mm flat anvil (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


level (included)


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N (10kg)
Test force	588N (60kg), 980N (100kg), 1471N (150kg)
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	135mm (from the center of indenter to the wall of main body)
Dimension	466×238×630mm
Weight	70kg

STANDARD DELIVERY

Main unit	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm steel ball indenter	1 pc
Ø1.5875mm steel ball	5 pcs
Level	1 pc
Hardness test block HRA80~88	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

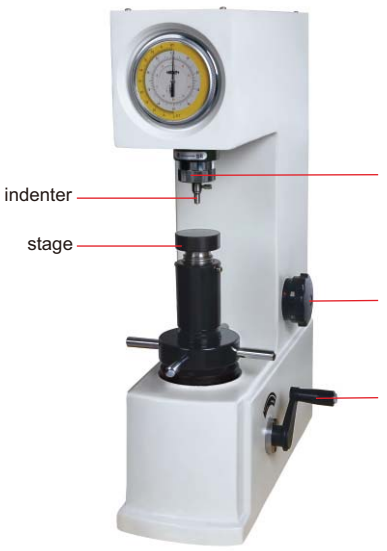
Hardness test block HRA80~84	**HDT-B-HRA**
Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC20~30	**HDT-B-HRC1**
Hardness test block HRC35~55	**HDT-B-HRC2**
Hardness test block HRC60~70	**HDT-B-HRC3**
Small V-type anvil	**HDT-RW160-SV**
Desk	**HDT-DESK**

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MANUAL ROCKWELL AND SUPERFICIAL ROCKWELL HARDNESS TESTER
CODE HDT-RSR100

INSPECTION CERTIFICATE

VIDEO




Ø60mm flat anvil (included)


Ø150mm flat anvil (included)


V-type anvil (included) for cylinders with diameter Ø4~60mm


small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm


desk (**optional**)

- According to ISO 6508

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Preliminary test force	29.4N/3kgf for Superficial Rockwell 98N/10kgf for Rockwell
Test force	147N/15kgf, 294N/30kgf, 441N/45kgf, 588N/60kgf, 980N/100kgf, 1471N/150kgf
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	160mm
Max. testing width	140mm (from the center of indenter to the wall of main body)
Dimension	460×240×660mm
Weight	75kg

STANDARD DELIVERY

Main unit	1 pc
Ø60mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block 78~88HR15N	1 pc
Hardness test block 55~73HR30N	1 pc
Hardness test block 57~69HR30T	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Hardness test block 78~88HR15N	**HDT-B-HR15N2**
Hardness test block 55~73HR30N	**HDT-B-HR30N2**
Hardness test block 57~69HR30T	**HDT-B-HR30T**
Small V-type anvil	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

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INSPECTION CERTIFICATE

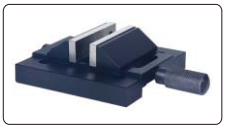
DIGITAL MICRO-VICKERS HARDNESS TESTER (ADVANCED TYPE)
CODE ISH-TDV1000A

VIDEO



- Measure hardness of thin or small workpieces
- Based on Vickers (HV), can be converted to Rockwell (HRA, HRB and HRC)
- According to ISO 6507


cylinder holder (included)


vice (included)


slice holder (included)

SPECIFICATION

Test force	0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1kgf
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Stage elevation	manual
Load control	automatic (load/dwell/unload)
Load dwell time	5~60 second (5 second increment)
Objective	10X, 40X
Eyepiece	15X
Total magnification	150X (for observation) 600X (for measurement)
Max. workpiece height	85mm
Max. testing width	85mm (from the center of indenter to the wall of main body)
X-Y stage	dimensions: 100×100mm
	travel range: 25×25mm
	graduation: 0.01mm
Data output	RS232C
Power supply	110/220V, 50Hz
Dimension	540x500x640mm
Weight	50kg

STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro Vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~800HV1	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc
Level	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

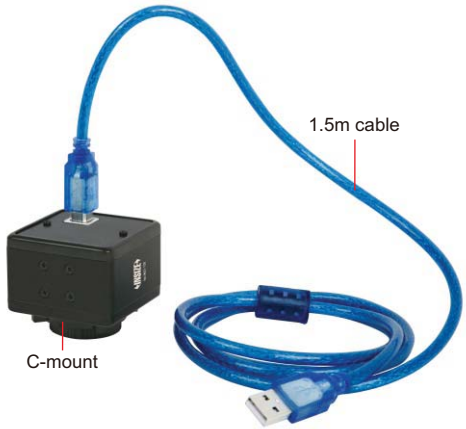
20X objective	**ISH-TDV-20X**
Hardness test block 400~500HV0.2	**HDT-B-HV02C**
Hardness test block 700~750HV1	**HDT-B-HV1F**
Measuring system	**9631-130**
Camera adapter	**ISH-TDV-ADAPTER**

VICKERS HARDNESS MEASURING SYSTEM
CODE 9631-130

VIDEO



software flash disk
(included)

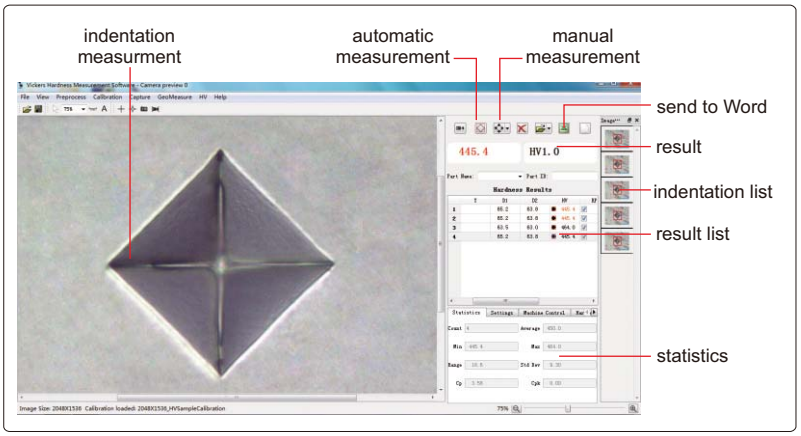


application example



- Suitable for **ISH-TDV1000A**
- Connected to computer USB port
- Measure the indentation sizes automatically or manually
- Multiple measurements to have average value, max. value and min. value
- Tolerance testing
- Convert to HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15T/30T/45T, HR15N/30N/45N, HK, HV, HB, HS, HSD
- Calibration with standard test block
- Measurement result can be sent to Word or Excel

software (included)



SPECIFICATION

Sensor	1/2" CMOS
Pixel	1.3M (resolution 1280×1024)
Hardness measurement resolution	0.1HV
Length measurement resolution	0.1μm
Hardness measurement accuracy	±3%
Test force	0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5, 10, 20, 30, 50, 100kgf
Dimension	57×51×49mm
Weight	200g

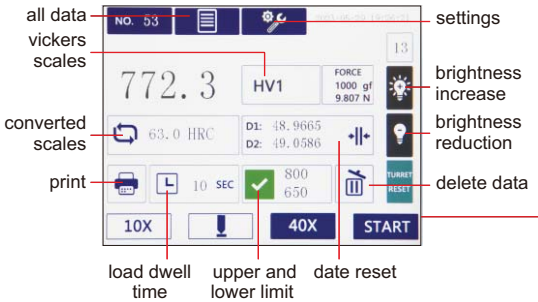
STANDARD DELIVERY

Main unit	1 pc
USB dongle	1 pc
Software and USB cable	1 pc

TOUCH SCREEN | MOTOR DRIVEN TURRET

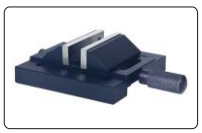
DIGITAL MICRO-VICKERS HARDNESS TESTER (BASIC TYPE)
CODE HDT-MVH1100

INSPECTION CERTIFICATE






cylinder holder (included)


vice (included)


slice holder (included)

VIDEO

- Touch screen color LCD display
- Data storage and average value calculation
- Automatic switch between the indender and objective lens
- According to ISO 6507


camera (**optional**)

camera and measuring system



SPECIFICATION

Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Converted scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Range	5~3000HV
Length measurement resolution	0.025μm
Objective/indenter switch	motor driven turret
Stage lifting	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1~60 second
Objective	10X, 40X
Eyepiece	10X
Total magnification	10X (for measurement or observation), 400X (for measurement)
Max. workpiece height	90mm
Max. testing width	95mm (from the center of indenter to the wall of main body)
X-Y stage	dimensions: 100×100mm, travel range: 25×25mm
Data output	built-in printer
Power supply	220V, 50/60Hz
Dimension	510×290×570mm
Weight	40kg

STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc
Anti-dust cover	1 pc

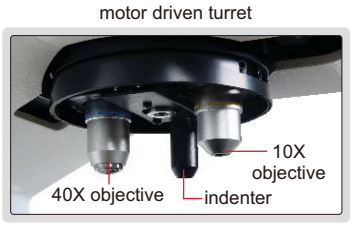
OPTIONAL ACCESSORY

Hardness test block 400~500HV0.2	**HDT-B-HV02C**
Hardness test block 700~750HV1	**HDT-B-HV1F**
Camera	**HDT-MVH-CM**
Measuring system	**HDT-MVH-SW**

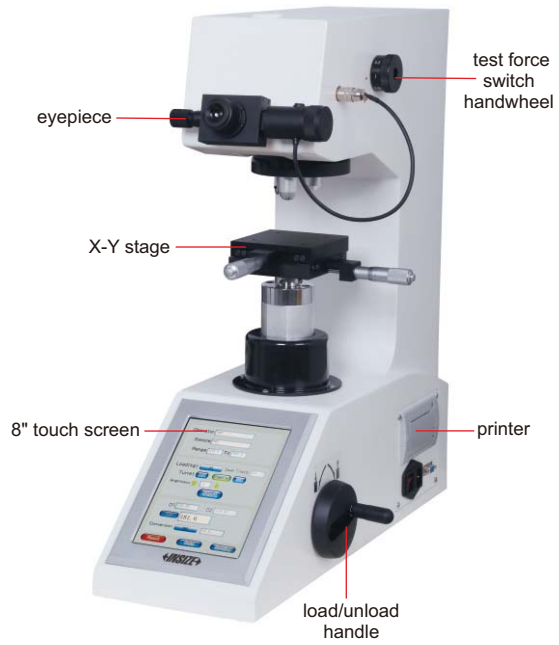
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DIGITAL MICRO-VICKERS HARDNESS TESTERS

INSPECTION CERTIFICATE



VIDEO



HDT-MV290

- Measure hardness of thin or small workpieces
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Motor driven turret to switch between indenter and objective lens automatically
- Calibrated according to standard hardness blocks or length scales
- Test result can be sent to Word or Excel
- According to ISO 6507

SPECIFICATION

Code	HDT-MV290	HDT-MV290S
	manual switch of test force	motorized switch of test force
Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)	
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Range	8HV~2900HV	
Length measurement resolution	0.01μm	
Objective/indenter switch	motor driven turret	
Stage lifting	manual	
Load control	automatic (load/dwell/unload)	
Load dwell time	1~99 second	
Objective	10X, 40X	
Eyepiece	10X	
Total magnification	100X (for measurement or observation), 400X (for measurement)	
Max. workpiece height	100mm	
Max. testing width	130mm (from the center of indenter to the wall of main body)	
X-Y stage	dimensions: 100×100mm, travel range: 25×25mm	
Data output	built-in printer, RS232	
Power supply	220V, 50/60Hz	
Dimension	540×260×650mm	
Weight	50kg	


vice (included)


slice holder (included)


cylinder holder (included)

STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Level	1 pc
Touch pen	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc
Anti-dust cover	1 pc

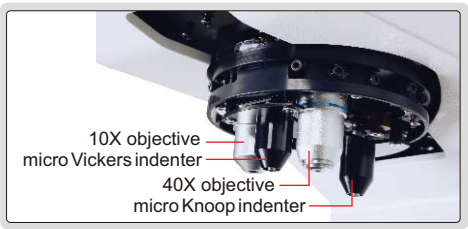
OPTIONAL ACCESSORY

Hardness test block 400~500HV0.2	HDT-B-HV02C
Hardness test block 700~750HV1	HDT-B-HV1F
Measuring system	HDT-VS530

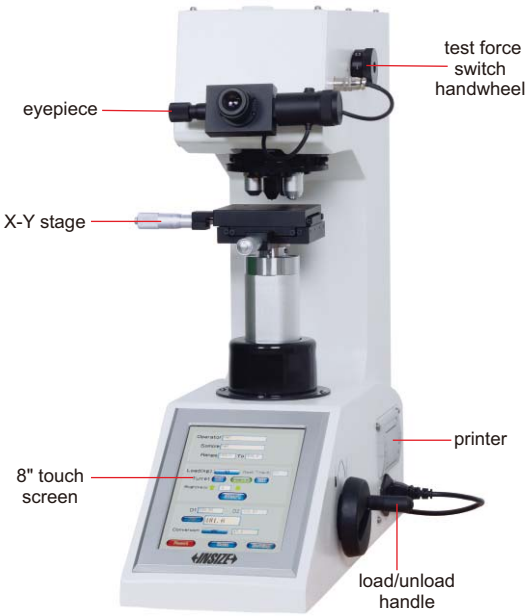
INSPECTION CERTIFICATE

DIGITAL DUAL-INDENTER MICRO-VICKERS HARDNESS TESTERS

motor driven turret



VIDEO



HDT-MV280

- With Vickers indenter and Knoop indenter
- Micro Vickers indenter is for thin and small workpieces, carburizing layers, hardening layers and coating
- Knoop indenter is for hard and brittle materials, such as enamel, glass, synthetic diamond, cermet and minerals
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Motor driven turret to switch indenters and objective lens automatically
- Calibrated according to standard hardness blocks or length scales
- Test result can be sent to Word or Excel
- According to ISO 6507

SPECIFICATION

Code	HDT-MV280	HDT-MV280S
	manual switch of test force	motorized switch of test force
Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)	
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Knoop scales	HK0.01, HK0.025, HK0.05, HK0.1, HK0.2, HK0.3, HK0.5, HK1	
Range	8~2900HV/HK	
Length measurement resolution	0.01μm	
Objective/indenter switch	motor driven turret	
Stage lifting	manual	
Load control	automatic (load/dwell/unload)	
Load dwell time	1~99 second	
Objective	10X, 40X (**optional** 20X, 50X, 60X)	
Eyepiece	10X	
Total magnification	100X (for measurement or observation), 400X (for measurement)	
Max. workpiece height	100mm	
Max. testing width	130mm (from the center of indenter to the wall of main body)	
X-Y stage	dimension: 100×100mm, travel range: 25×25mm	
Data output	built-in printer, RS232	
Power supply	220V, 50/60Hz	
Dimension	540×260×650mm	
Weight	50kg	


vice (included)


cylinder holder (included)


slice holder (included)

STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Knoop indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Hardness test block 700~800HK1	1 pc
Level	1 pc
Touch pen	1 pc
Vice	1 pc
Slice holder	1 pc
Cylinder holder	1 pc
Anti-dust cover	1 pc

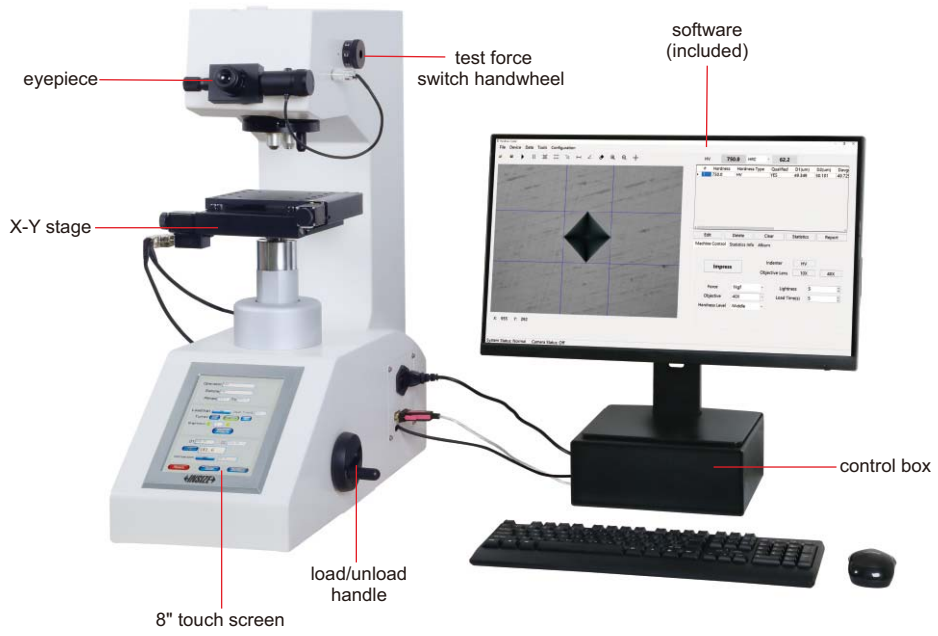
OPTIONAL ACCESSORY

Hardness test block 400~500HV0.2	HDT-B-HV02C
Hardness test block 700~750HV1	HDT-B-HV1F
Hardness test block 700~800HK1	HDT-B-HK1C
Measuring system	HDT-VS530

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AUTOMATIC MICRO-VICKERS HARDNESS TESTER
CODE HDT-VS1D

INSPECTION CERTIFICATE



VIDEO


vice (included)


slice holder (included)


cylinder holder (included)

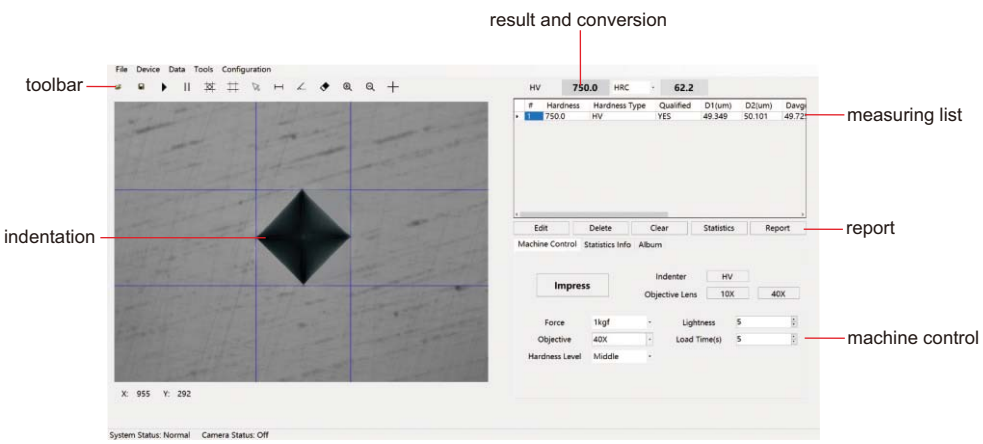
- Detect depth of hardened layer of heat treatment and coating thickness. Can also be used for metallography observation
- Calibrate according to standard hardness blocks or length scales
- Convert to HRA, HRB, HRC, HRD, HRF, HV, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Built-in printer
- According to ISO 6507

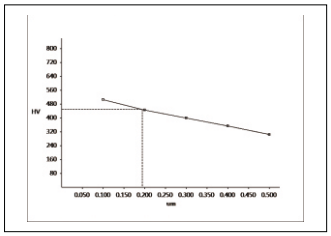
X-Y stage



motor driven turret






depth of hardened layer

To be continued

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Continued from previous page

SPECIFICATION

Test force		0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)
Vickers scales		HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Range		8HV~2900HV
Length measurement resolution		0.01μm
Objective/indenter switch		motor driven turret
Stage lifting		manual
Load control		automatic (load/dwell/unload)
Load dwell time		1~99 second
Objective		10X, 40X
Eyepiece		10X
Total magnification		100X (for measurement or observation), 400X (for measurement)
Data output		built-in printer
Max. workpiece height		160mm
Max. testing width		160mm (from the center of indenter to the wall of main body)
X-Y stage		dimensions: 150×150mm, travel range: 50×50mm, graduation: 1μm, displacement repeatability: 3μm
Pixel		5M
Measurement and control software	**stage movement control**	select points for indenter to press then read 1. select any point 2. rotate and select a point 3. select points along X-axis 4. select points along Y-axis 5. select points along Z 6. select points at any internal 7. program selection of points
	measurement	automatic mode: automatic turret, automatic loading, automatic measurement control can also select manual mode
Power supply		220V, 50/60Hz
Dimension		620×250×710mm
Weight		50kg

STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Level	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc
Control box	1 pc
Software and USB dongle	1 pc of each
Computer	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc

OPTIONAL ACCESSORY

Hardness test block 400~500HV0.2	**HDT-B-HV02C**
Hardness test block 700~750HV1	**HDT-B-HV1F**
OFFICE software	**7313-OFFICE**
Knoop indenter	**HDT-VS1D-KNOOP**

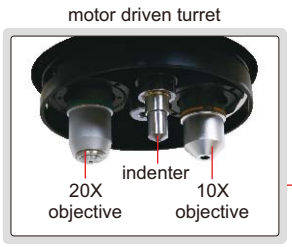
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DIGITAL VICKERS HARDNESS TESTERS

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

INSPECTION CERTIFICATE

VIDEO





HDT-VD50A


Ø58mm flat anvil (included)


Ø150mm flat anvil (included)


V-type anvil (included)


level (included)

- LCD touch screen, easy operation
- Insert USB flash disk, save the test results as Excel
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Force loading by electric motor, without weights
- According to ISO 6507

SPECIFICATION

Code	HDT-VD10A	HDT-VD30A	HDT-VD50A	HDT-VD100A	HDT-VD120A
Test force	0.3, 0.5, 1, 2, 2.5, 3, 5, 10kgf	0.3, 0.5, 1, 2, 2.5, 3, 5, 10, 15, 20, 30kgf	0.5, 1, 2, 2.5, 3, 5, 10, 15, 20, 30, 40, 50kgf	2, 3, 5, 10, 20, 30, 50, 60, 80, 100kgf	5, 10, 20, 30, 50 100, 120kgf
Range	8~2900HV				
Load control	automatic (load/dwell/unload)				
Load dwell time	1~99 second				
Eyepiece	10X				
Objective	10X, 20X (**optional** 2.5X, 5X, 40X)				
Total magnification	100X, 200X (**optional** 25X, 50X, 400X)				
Length measurement resolution	0.01μm				
Data output	USB flash disk				
Max. workpiece height	180mm				
Max. testing width	160mm (from the center of indenter to the wall of main body)				
Power supply	220V, 50/60Hz				
Dimension	580x190x700mm				
Weight	55kg				

STANDARD DELIVERY

Main unit	1 pc
10X, 20X objective	1 pc of each
Vickers indenter	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Hardness test block	2 pcs
USB flash disk	1 pc
Level	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block	page 747~748
2.5X objective	HDT-VD-OB2X
5X objective	HDT-VD-OB5X
40X objective	HDT-VD-OB40X
Vickers hardness measuring system	HDT-VS530

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VICKERS HARDNESS MEASURING SYSTEM
CODE HDT-VS530

measure the indentation sizes automatically or manually, and hardness tester can be controlled by software





C-mount

VIDEO



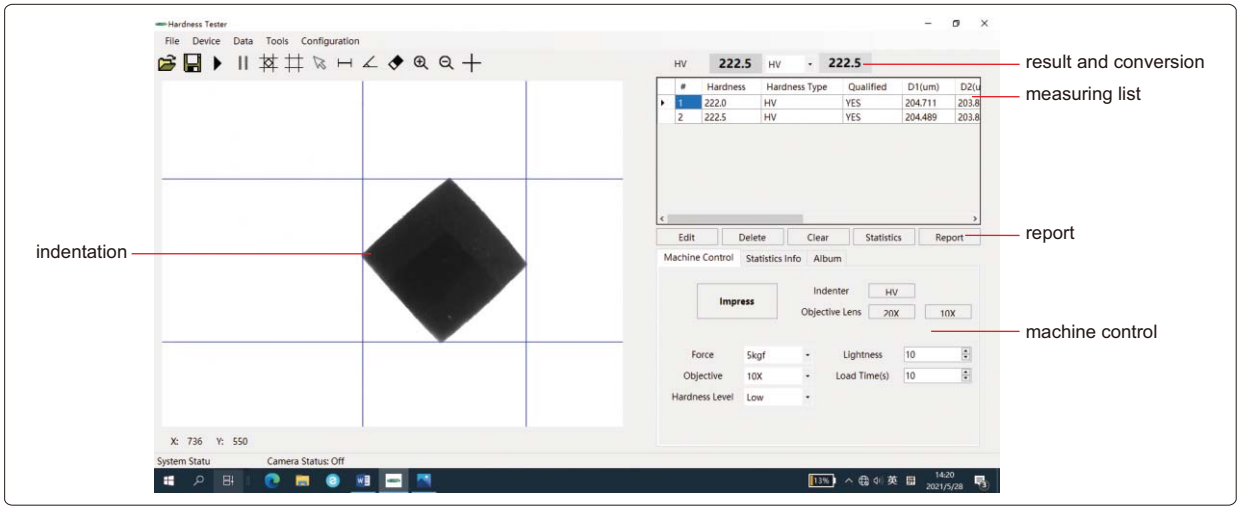
software flash disk (included)



camera adapter (included)

- Suitable for digital Vickers hardness tester **HDT-VD** series and **HDT-MV** series
- Connected to computer USB port
- Measure the indentation sizes automatically or manually
- Multiple measurements to have average value, max. value, min. value and variance
- Convert to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Hardness tester can be controlled by software
- Measurement result can be sent to Word, Excel or CSV

measuring software (included)



SPECIFICATION

Sensor	1/2.5" CMOS
Pixel	5M (resolution 2592×1944)
Hardness measurement resolution	0.1HV
Length measurement resolution	0.001μm
Test force	0.3, 0.5, 1, 2, 2.5, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100, 120kgf
Dimension	30×30×40mm
Weight	50g

STANDARD DELIVERY

Main unit	1 pc
Software and USB cable	1 pc
RS232 cable	1 pc
Camera adapter	1 set

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AUTOMATIC DIGITAL BRINELL HARDNESS TESTER
CODE HDT-XB500

TEST FORCE LODING BY ELECTRIC MOTOR (WITHOUT WEIGHT)

INSPECTION CERTIFICATE

automatic test



Press the “test” button on the screen to start testing. The stage ascends automatically until the workpiece touches the indenter. Automatically load, dwell and unload. The turret rotates and the objective focuses automatically. Measure the indention by measuring microscope or automatic measuring system.

VIDEO



Ø200mm flat anvil (included)



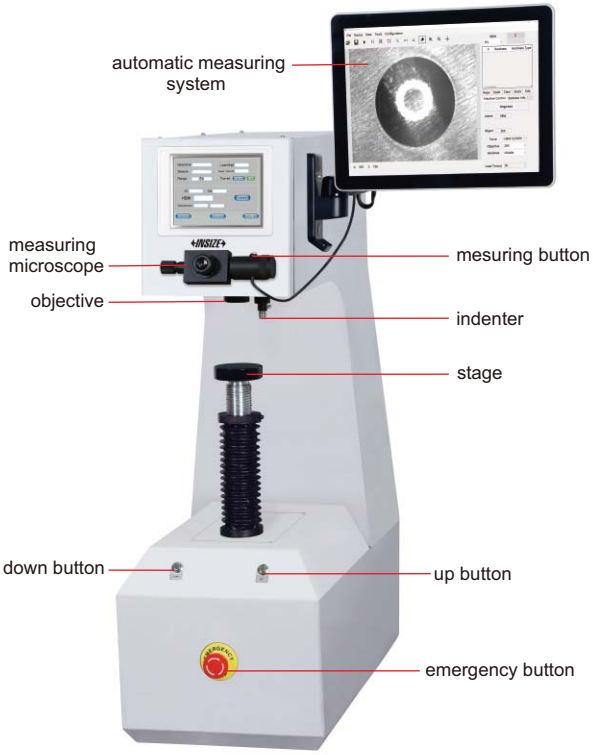
Ø80mm flat anvil (included)



V-type anvil (included)



touch pen (included)



HDT-XB500

- Automatic testing
- LCD touch screen, easy operation
- Measure indentation by measuring microscope or automatic measuring system
- Tolerance testing
- Insert USB flash disk, save the test results as Excel
- Force loading by electric motor, without weights
- According to ISO 6506

SPECIFICATION

Turret rotation		automatic
Stage elevation		automatic
Range		8~650HBW
Test force		62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Measuring Accuracy	HBW≤125	±3%
	125<HBW≤225	±2.5%
	HBW>225	±2%
Hardness measuring resolution		0.1HBW
Measuring microscope	eyepiece	20X
	resolution	0.1μm
Load control		automatic (load/dwell/unload)
Load dwell time		0~99 second
Max. workpiece height		400mm
Max. testing width		250mm (from the center of indenter to the wall of main body)
Power supply		220V, 50/60Hz
Dimension		700×340×970mm
Weight		160kg

STANDARD DELIVERY

Main unit	1 pc
Measuring microscope	1 pc
Automatic measuring system	1 pc
Ø80mm flat anvil	1 pc
Ø200mm flat anvil	1 pc
V-type anvil	1 pc
Ø2.5mm carbide ball indenter	1 pc
Ø5mm carbide ball indenter	1 pc
Ø10mm carbide ball indenter	1 pc
Hardness test block 150~250HBW2.5/187.5	1 pc
Hardness test block 75~125HBW10/1000	1 pc
Hardness test block 175~250HBW10/3000	1 pc
USB flash disk (8G)	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

10X eyepiece	HDT-XB500-EP10X
15X eyepiece	HDT-XB500-EP15X
Hardness test block	page 747~748
Desk	HDT-DESK

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MOTORIZED DIGITAL BRINELL HARDNESS TESTERS

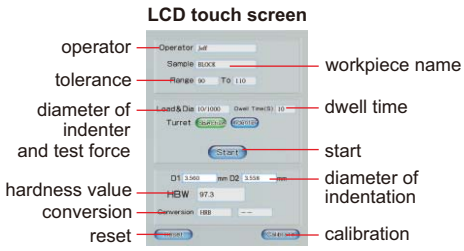
AUTOMATIC TESTING, AUTOMATIC TEST FORCE LOADING

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHT)

INSPECTION CERTIFICATE

VIDEO

LCD touch screen





ISHB-D200

- Automatic testing, automatic test force loading
- LCD touch screen, easy operation
- Measure indentation by measuring microscope then read the hardness value from LCD
- Tolerance testing
- Insert USB flash disk, save the test results as Excel
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HB, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Force loading by electric motor, without weights
- According to ISO 6506

step: 1



elevate the stage by hand to let the indenter approach the workpiece, press “start” to start testing automatically, the test force is loaded automatically

step: 2



measure indentation with measuring microscope

step: 3



read the hardness value from LCD



Ø80mm flat anvil (included)



Ø200mm flat anvil (included)



V-type anvil (included)



touch pen (included)



desk (**optional**)

SPECIFICATION

Code		ISHB-D200	ISHB-D300
Turret rotation		manual	automatic
Range		8~650HBW	
Reading mode		directly read from LCD	
Test force		62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf	
Max. workpiece height		200mm	
Max. testing width		155mm (from the center of indenter to the wall of main body)	
Stage elevation		manual	
Load control		automatic (load/dwell/unload)	
Load dwell time		5~60 second	
Measuring microscope	magnification	20X	
	resolution	0.625μm	
Power supply		220V, 50/60Hz	
Dimension		550x210x750mm	
Weight		110kg	

STANDARD DELIVERY

Main unit	1 pc
Ø80mm flat anvil	1 pc
Ø200mm flat anvil	1 pc
V-type anvil	1 pc
Ø2.5mm carbide ball indenter	1 pc
Ø5mm carbide ball indenter	1 pc
Ø10mm carbide ball indenter	1 pc
Hardness test block 150~250HBW2.5/187.5	1 pc
Hardness test block 75~125HBW10/1000	1 pc
Hardness test block 175~250HBW10/3000	1 pc
USB flash disk (8G)	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block 200~300HBW2.5/187.5	HDT-B-HB25A2
Hardness test block 90~200HBW10/1000	HDT-B-HB10C1
Hardness test block 200~300HBW10/3000	HDT-B-HB10A2
Brinell indentation measuring system	ISHB-MSA
Desk	HDT-DESK

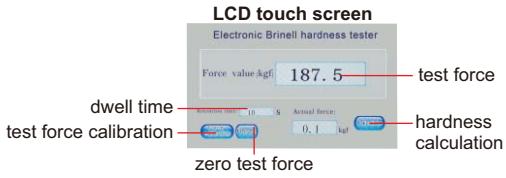
MOTORIZED BRINELL HARDNESS TESTER
CODE ISHB-M100

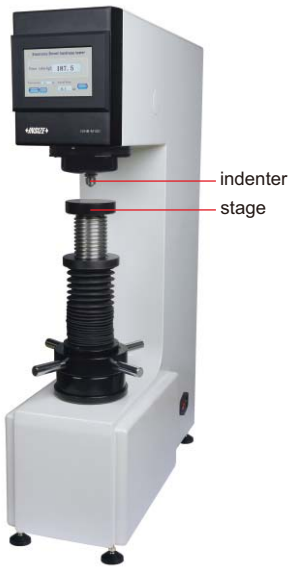
FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

AUTOMATIC TESTING AFTER PRELIMINARY TEST FORCE IS LOADED BY HAND

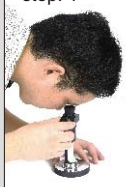
INSPECTION CERTIFICATE

VIDEO



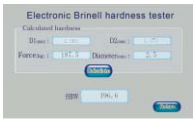


step: 1



measure indentation diameter by measuring microscope

step: 2



input the diameters, the hardness value is shown on screen automatically

- LCD touch screen, easy operation
- Automatic testing after preliminary test force is loaded by hand
- Measure indentation diameter by measuring microscope, input the diameters, the hardness value is shown on screen automatically
- Force loading by electric motor, without weights
- According to ISO 6506



Ø80mm flat anvil (included)



Ø200mm flat anvil (included)



V-type anvil (included)



measuring microscope (included)



desk (**optional**)

SPECIFICATION

Range		8~650HBW
Reading mode		directly read from LCD
Test force		62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Max. workpiece height		230mm
Max. testing width		160mm (from the center of indenter to the wall of main body)
Stage elevation		manual
Load control		automatic (load/dwell/unload)
Load dwell time		5~60 second
Measuring microscope	**magnification**	20X
	graduation	0.01mm
Power supply		220V, 50/60Hz
Dimension		550×210×750mm
Weight		90kg

STANDARD DELIVERY

Main unit	1 pc
Ø80mm flat anvil	1 pc
Ø200mm flat anvil	1 pc
V-type anvil	1 pc
Ø2.5mm carbide ball indenter	1 pc
Ø5mm carbide ball indenter	1 pc
Ø10mm carbide ball indenter	1 pc
Hardness test block 150~250HBW2.5/187.5	1 pc
Hardness test block 75~125HBW10/1000	1 pc
Hardness test block 175~250HBW10/3000	1 pc
Measuring microscope	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block 200~300HBW2.5/187.5	**HDT-B-HB25A2**
Hardness test block 90~200HBW10/1000	**HDT-B-HB10C1**
Hardness test block 200~300HBW10/3000	**HDT-B-HB10A2**
Brinell indentation measuring system	**ISHB-MSA**
Desk	**HDT-DESK**

BRINELL INDENTATION MEASURING SYSTEM
CODE ISHB-MSA

application





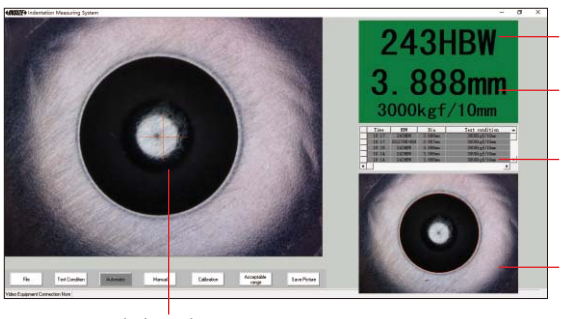
VIDEO



software flash disk
(included)

- Connected to computer USB port
- Automatically measure the indentation
- Result saved to Excel automatically
- Tolerance testing
- Calibration with standard hardness blocks or standard indentation blocks

software (included)



SPECIFICATION

Applicable Brinell indenter		Ø10mm, Ø7.26mm, Ø5mm, Ø4mm, Ø2.5mm
Hardness range		16~650HB
Range of indentation diameter		Ø0.6~6mm
Test force		62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Hardness resolution		1HB
Diameter measuring resolution		0.001mm
Diameter measuring accuracy	Ø10mm ball indneter	±0.4% (indentation diameter)
	Ø5mm ball indneter	±0.8% (indentation diameter)
	Ø2.5mm ball indneter	±1.2% (indentation diameter)
Camera	sensor	1/3.2" CMOS
	pixel	2M (resolution 1600×1200)
	view filed	8×6mm
Dimension		170×54×54mm
Weight		385g



standard blocks for Ø5mm and Ø10mm indenters (included)

STANDARD DELIVERY

Main unit	1 pc
Software	1 pc
Ø5mm standard indentation block	1 pc
Ø10mm standard indentation block	1 pc

OPTIONAL ACCESSORY

Ø2.5mm standard indentation block	ISHB-MSA-BLOCK25

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DIGITAL BRINELL/ROCKWELL/VICKERS HARDNESS TESTER
CODE HDT-BRV130

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

INSPECTION CERTIFICATE

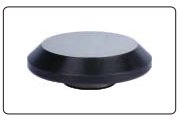
- According to ISO 6506, ISO 6507, ISO 6508
- Force loading by electric motor (without weights)

SPECIFICATION

Brinell test load	49N (5kgf), 98N (10kgf), 153N (15.625kgf), 294N (30kgf), 306N (31.25kgf), 613N (62.5kgf), 980N (100kgf), 1226N (125kgf), 1839N (187.5kgf)
Brinell scales	HBW1/5, HBW2.5/62.5, HBW1/10, HBW2.5/15.625, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW10/100, HBW5/125, HBW2.5/187.5
Brinell resolution	0.1HBW
Rockwell test load	98N (10kgf) preload 588 (60kgf), 980 (100kgf), 1471N (150kgf) total load
Rockwell scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Rockwell resolution	0.1HR
Vickers test load	49N (5kgf), 98N (10kgf), 196N (20kgf), 294N (30kgf), 392N (40kgf), 490N (50kgf), 588N (60kgf), 784N (80kgf), 980N (100kgf), 1176N (120kgf)
Vickers scales	HV5, HV10, HV20, HV30, HV40, HV50, HV60, HV80, HV100, HV120
Vickers resolution	0.1HV
Objective	2.5X/5X
Magnification of microscope	Brinell: 37.5X, Vickers: 75X
Hardness test range	Brinell: 8~650HBW, Rockwell: 20~100HR, Vickers: 8~2900HV
Max. workpiece height	Rockwell: 220mm, Brinell and Vickers: 150mm
Max. testing width	200mm (from the center of indenter to the wall of main body)
Data output	USB flash disk
Power supply	220V, 50/60Hz
Dimension	560×350×800mm
Weight	70kg




Ø60mm flat anvil for Rockwell (included)


Ø60mm flat anvil for Vickers and Brinell (included)


V-type anvil for Rockwell (included), for cylinders with diameter Ø4~60mm


small V-type anvil for Rockwell (**optional**), for cylinders with diameter Ø2~4mm

VIDEO


Ø150mm flat anvil for Rockwell (included)


desk (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Vickers diamond indenter	1 pc
Rockwell diamond indenter	1 pc
Ø1.5875mm Rockwell indenter	1 pc
Ø2.5mm Brinell indenter	1 pc
Ø5mm Brinell indenter	1 pc
Ø60mm flat anvil for Rockwell	1 pc
Ø150mm flat anvil for Rockwell	1 pc
V-type anvil for Rockwell	1 pc
Ø60mm flat anvil for Vickers and Brinell	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block 400~500HV30	1 pc
Hardness test block 180~300HBW2.5/187.5	1 pc
Level	1 pc
USB flash disk	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

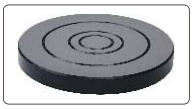
Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Hardness test block 400-500HV30	**HDT-B-HV30D**
Hardness test block 200-300HBW2.5/187.5	**HDT-B-HB25A2**
Small V-type anvil for Rockwell	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

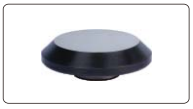
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INSPECTION CERTIFICATE

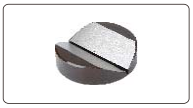
BRINELL/ROCKWELL/VICKERS HARDNESS TESTER
CODE ISH-BRV


Ø60mm flat anvil for Rockwell (included)


Ø150mm flat anvil for Rockwell (included)


Ø60mm flat anvil for Vickers and Brinell (included)


V-type anvil for Rockwell (included), for cylinders with diameter Ø4~60mm


V-type anvil for Vickers and Brinell (included)


small V-type anvil for Rockwell (**optional**), for cylinders with diameter Ø2~4mm


desk (**optional**)

VIDEO



- According to ISO 6506, ISO 6507, ISO 6508

SPECIFICATION

Rockwell test load	98N preload, 588, 980, 1471N total load
Min. Rockwell reading	0.5HR
Brinell test load	306, 613, 1839N
Vickers test load	294N
Stage elevation	manual
Load control	manual
Magnification of microscope	37.5X/75X
Max. workpiece height	180mm
Max. testing width	200mm (from the center of indenter to the wall of main body)
Power supply	220V, 50/60Hz
Dimension	546×300×767mm
Weight	90kg

STANDARD DELIVERY

Main unit	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Diamond Rockwell indenter	1 pc
Ø5mm Brinell indenter	1 pc
Ø2.5mm Brinell indenter	1 pc
Vickers indenter	1 pc
Ø60mm flat anvil for Rockwell	1 pc
Ø150mm flat anvil for Rockwell	1 pc
V-type anvil for Rockwell	1 pc
Ø60mm flat anvil for Vickers and Brinell	1 pc
V-type anvil for Vickers and Brinell	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block 400~500HV30	1 pc
Hardness test block 180~300HBW2.5/187.5	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~100	**HDT-B-HRB**
Hardness test block HRC60~70	**HDT-B-HRC3**
Hardness test block HRC20~30	**HDT-B-HRC1**
Hardness test block 400-500HV30	**HDT-B-HV30D**
Hardness test block 200-3000HBW2.5/187.5	**HDT-B-HB25A2**
Small V-type anvil for Rockwell	**ISH-SMALLANVIL**
Desk	**HDT-DESK**

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PORTABLE LEEB HARDNESS TESTER
APPLICABLE MATERIAL AND HARDNESS RANGE OF IMPACT DEVICE D

Material	HLD	HV	HB	HRC	HRB	HS	Tensile strength (MPa)
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100	375-2639
Tool steel	300-840	80-898		20-67			
Stainless steel	300-800	85-802	85-655		46-101		
Cast iron	360-650		93-334				
Cast aluminum alloy	170-570		19-164		23-84		
Brass	200-550		40-173		13-95		
Bronze	300-700		60-290				
Copper	200-690		45-315				

PORTABLE LEEB HARDNESS TESTERS

BLUETOOTH | DATA OUTPUT | INSPECTION CERTIFICATE

VIDEO



HDT-CB320
(wired probe is included)



HDT-WL320
(wireless probe is included)

- Can use wired probes or wireless probes
- Dual-coil probe for high accuracy
- Universal testing angle, no need to set impact direction
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRA and HRB), Shore (HS) and tensile strength (σb)
- Dual value display, shows both Leeb and converted hardness
- Large 2.4" LCD display with backlight
- With a magnet on the back, the main unit can be attached on steel surfaces
- According to ASTM A956 and DIN 50156


hardness test block D (included)


small support ring (included)

connect to PC, upload the data to PC, print and send to Excel (software is included)



connect to bluetooth printer (**optional**)



To be continued

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Continued from previous page

SPECIFICATION

Code	HDT-CB320	HDT-WL320
Probe included	wired probe D	wireless probe D
Optional probes	wired (DC/C/D/D+15/DL/E/G), wireless (DC/C/D/DL/G)	
Resolution	1HLD/1HV/1HB/0.1HRC/0.1HRB/0.1HRA/0.1HS/1MPa	
Accuracy	±6HLD (when HLD=800)	
Output	USB	
Measuring range	HL 170-960/HRC 1.3-74.7/HRB 1.2-139.7/HB 28-1027/HV 45-1221 HS 4.0-112.1/HRA 1.3-88.5/MPa 118-3315N/mm²	
Applicable materials	1. steel/cast steel 2. alloy steel 3. stainless steel 4. gray pig iron 5. nodular cast iron 6. cast aluminum 7. brass 8. bronze 9. copper 10. forging steel 11. rolling steel	
Statistics	average/max./min./s.value	
Memory	999 data	
Working environment	-10°C~45°C	
Power supply	2xAA battery	
Dimension	145×68×28mm	
Weight	158g	

STANDARD DELIVERY

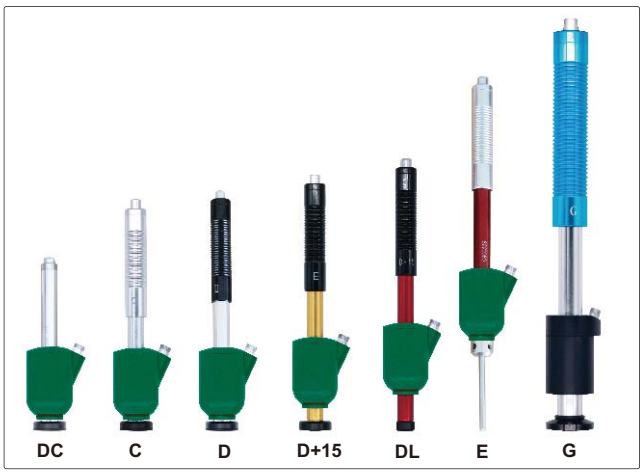
Code	HDT-CB320	HDT-WL320
Main unit	1 pc	1 pc
Wired probe D	1 pc	—
Wireless probe D	—	1 pc
Hardness test block D	1 pc	1 pc
Small support ring	1 pc	1 pc
Cleaning brush	1 pc	1 pc

OPTIONAL ACCESSORY

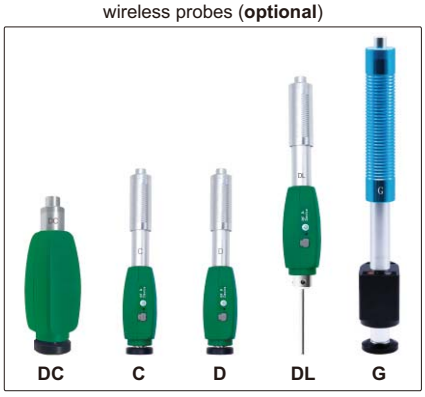
Wired probe	DC	HDT-CB320-DC
	C	HDT-CB320-C
	D	HDT-CB320-D
	D+15	HDT-CB320-D15
	DL	HDT-CB320-DL
	E	HDT-CB320-E
	G	HDT-CB320-G
Wireless probe	DC	HDT-WL320-DCW
	C	HDT-WL320-CW
	D	HDT-WL320-DW
	DL	HDT-WL320-DLW
	G	HDT-WL320-GW
Hardness test block D **		HDT-B-HLD3
Hardness test block G *		HDT-B-HLG2
Printer		ISH-LP200-PRINTER
Support rings		page 738

* Hardness test block G (**HDT-B-HLG2**) is for probe G (**HDT-LP320-G** or **HDT-LP320-GW**)
** Hardness test block D (**HDT-B-HLD3**) is for all other probes

wired probes (**optional**)



wireless probes (**optional**)



APPLICABLE WORKPIECE

Probes		DC	C	D	D+15	DL	E	G
Application		inner wall of small space	small or thin workpiece, coating layer	general use	deep groove	narrow slot or small hole	very hard material	casting or forging workpiece
Maximum roughness of workpiece (Ra)		2μm	0.4μm	2μm	2μm	2μm	2μm	7μm
Minimum weight of workpiece	direct measurement	5kg	1.5kg	5kg	5kg	5kg	5kg	15kg
	on solid support	2.5kg	0.5kg	2kg	2kg	2kg	2.5kg	5kg
	coupled on plate	0.05-2kg	0.02kg	0.05-2kg	0.1kg	0.1kg	0.1-2kg	0.5kg
Minimum thickness of workpiece		3mm	1mm	3mm	3mm	3mm	3mm	10mm

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PORTABLE LEEB HARDNESS TESTER
CODE ISH-PHB

INSPECTION CERTIFICATE



VIDEO

- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Memory of 99 measurement values for browsing
- Set measurement times (1~9) to have average value
- Connected with printer via bluetooth
- Automatic power off, according to ASTM A 956


hardness test block D (included)


small support ring (included)


wireless printer (**optional**)

SPECIFICATION

Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HLD (when HLD=800)	
Display	Leeb (HLD), converted hardness, material, impact direction, test times, average value, date	
Output	bluetooth	
Applicable workpiece	minimum weight	5kg
		2kg (on solid support)
		0.1kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 1.6μm	
Power supply	3×AAA batteries	
Dimension	150×84×28mm	
Weight	200g	

STANDARD DELIVERY

Main unit	1 pc
Impact device D	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc

OPTIONAL ACCESSORY

Wireless printer	**ISH-DS-PRINTER**
Couplant	**ISH-COUPLANT**
Support rings	page 738
Hardness test block D	**HDT-B-HLD3**

BUILT-IN BLUETOOTH | DATA OUTPUT

PORTABLE LEEB HARDNESS TESTER (BUILT-IN BLUETOOTH) CODE ISH-PHB-B

INSPECTION CERTIFICATE

- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Memory of 99 measurement values for browsing
- Set measurement times (1~9) to have average value
- Connected with printer via wireless module
- Automatic power off
- According to ASTM A 956
- Wired data transmission (keyboard signal): USB cable connect to computer, press transmission button to send data
- Wireless data transmission (keyboard signal): built-in Bluetooth module connect to computer or mobile phone, press transmission button to send data


hardness test block D (included)


small support ring (included)


wireless printer (**optional**)

VIDEO



transmission button

SPECIFICATION

Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HLD (when HLD=800)	
Display	Leeb (HLD), converted hardness, material, impact direction, test times, average value, date	
Output	bluetooth, USB	
Applicable workpiece	minimum weight	5kg
		2kg (on solid support)
		0.1kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 1.6μm	
Power supply	3×AAA batteries	
Dimension	150×84×28mm	
Weight	200g	

STANDARD DELIVERY

Main unit	1 pc
Impact device D	1 pc
Hardness test block D	1 pc
USB cable	1 pc
Small support ring	1 pc
Cleaning brush	1 pc

OPTIONAL ACCESSORY

Wireless printer	**ISH-DS-PRINTER**
Couplant	**ISH-COUPLANT**
Support rings	page 738
Hardness test block D	**HDT-B-HLD3**

connected to computer by USB cable, upload the data in real time



connected to computer by bluetooth module, upload the data in real time



PORTABLE LEEB HARDNESS TESTER
CODE ISH-SPHA

INSPECTION CERTIFICATE | DATA OUTPUT | VIDEO

- Based on Leeb (HL), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Connected with printer via bluetooth
- Connected with computer via USB port
- Up to 800 test results can be saved
- Tolerance testing
- Touch screen operation, large display with backlight
- Language: English, Chinese, Italian, German, French and Portuguese
- Automatic power off
- According to ASTM A 956




software flash disk (included)


hardness test block D (included)


small support ring (included)

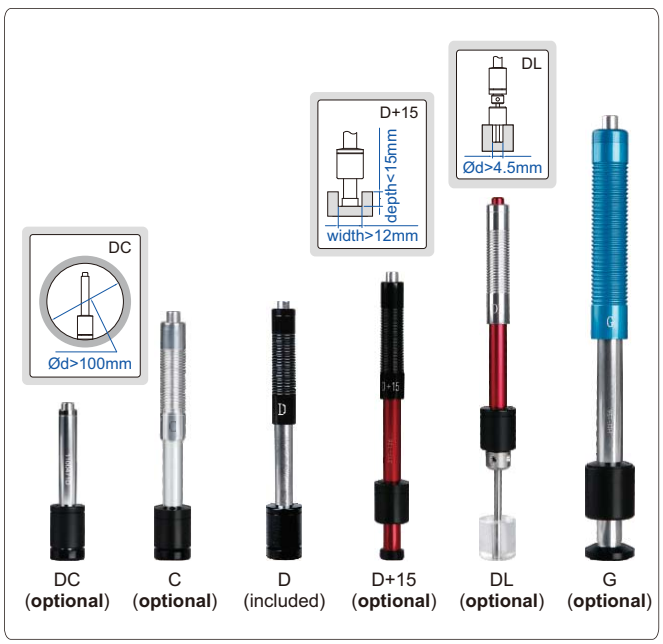

printer (included)

SPECIFICATION

Min. reading	1HL, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HL (when HL=800)
Display	Leeb (HL), converted hardness, material, impact direction, test times, average value, deviation, time
Output	bluetooth and USB
Power supply	built-in rechargeable battery
Dimension	135×83×24mm
Weight	350g

STANDARD DELIVERY

Main unit	1 pc
Impact device D	1 pc
Printer	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc
AC/DC adapter	1 pc
Software flash disk and USB cable	1 pc
Pen for touch screen	1 pc



OPTIONAL ACCESSORY

Impact device DC	**ISH-SPHA-DC**
Impact device C	**ISH-SPHA-C**
Impact device D+15	**ISH-SPHA-D15**
Impact device DL	**ISH-SPHA-DL**
Impact device G	**ISH-SPHA-G**
Hardness test block D*	**HDT-B-HLD3**
Hardness test block G*	**HDT-B-HLG2**
Couplant	**ISH-COUPLANT**
Support rings	page 738

* Hardness test block G (**HDT-B-HLG2**) is for impact device G (**ISH-SPHA-G**).
Hardness test block D (**HDT-B-HLD3**) is for all other impact devices.

APPLICABLE WORKPIECE

Impact device		**DC**	**C**	**D**	**D+15**	**DL**	**G**
Application		inner wall of small space	small or thin workpiece, coating layer	general use	deep groove	narrow slot or small hole	casting or forging workpiece
Maximum roughness of workpiece (Ra)		1.6μm	0.4μm	1.6μm	1.6μm	1.6μm	7μm
Minimum weight of workpiece	**direct measurement**	5kg	1.5kg	5kg	5kg	5kg	15kg
	on solid support	2kg	0.5kg	2kg	2kg	2kg	5kg
	coupled on plate	0.1kg	0.02kg	0.1kg	0.1kg	0.1kg	0.5kg
Minimum thickness of workpiece		5mm	1mm	5mm	5mm	5mm	10mm

PORTABLE LEEB HARDNESS TESTERS (BASIC TYPE)

INSPECTION CERTIFICATE

POPULAR MODEL

- Can change probes
- Dual-coil probe for high accuracy
- Universal testing angle, no need to set impact direction
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRB), Shore (HSD) and tensile strength (σb)
- Dual value display, shows both Leeb and converted hardness
- Large LCD display with backlight
- Can choose large font display and statistics display
- Automatically calculate maximum, minimum and average value
- Save 300 data
- Operation temperature: -10°C~45°C
- According to ASTM A956, GB/T 17394



HDT-LP200



hardness test block D (included)



small support ring (included)

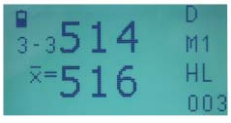


bluetooth printer (included in **HDT-LP200B**)

VIDEO



large font display



statistics display

SPECIFICATION

Code	HDT-LP200	HDT-LP200B
Printer	not included	included
Resolution	1HLD/1HV/1HB/0.1HRC/0.1HRB/ 0.1HSD/1σb	
Accuracy	±6HLD (when HLD=800)	
Measuring range	HL 170-960/HRC 17-70/HRB 13-109/ HB 20-655/HV 80-940/HSD 32-99.5/ σb(rm) 255-2639N/mm²	
Power supply	2xAA battery	
Dimension	135×77×32mm	
Weight	240g	

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc
Impact device D	1 pc
Bluetooth printer (included in HDT-LP200B)	1 pc

OPTIONAL ACCESSORY

Impact device DC	HDT-LP200-DC
Impact device C	HDT-LP200-C
Impact device D+15	HDT-LP200-D15
Impact device DL	HDT-LP200-DL
Impact device G	HDT-LP200-G
Hardness test block D**	HDT-B-HLD3
Hardness test block G*	HDT-B-HLG2
Support rings	page 738

* Hardness test block G (**HDT-B-HLG2**) is for impact device G (**HDT-LP200-G**)

** Hardness test block D (**HDT-B-HLD3**) is for all other impact devices



DC (**optional**) C (**optional**) D (included) D+15 (**optional**) DL (**optional**) G (**optional**)

APPLICABLE WORKPIECE

Impact device		DC	C	D	D+15	DL	G
Application		inner wall of small space	small or thin workpiece, coating layer	general use	deep groove	narrow slot or small hole	casting or forging workpiece
Maximum roughness of workpiece (Ra)		2μm	0.4μm	2μm	2μm	2μm	7μm
Minimum weight of workpiece	direct measurement	5kg	1.5kg	5kg	5kg	5kg	15kg
	on solid support	2kg	0.5kg	2kg	2kg	2kg	5kg
	coupled on plate	0.05kg	0.02kg	0.05kg	0.1kg	0.05kg	0.5kg
Minimum thickness of workpiece		3mm	1mm	3mm	3mm	3mm	10mm

PORTABLE LEEB HARDNESS TESTER (WITH WIRELESS PROBE)
CODE HDT-WP201

INSPECTION CERTIFICATE

- Bluetooth digital probe
- Universal testing angle, no need to set impact direction
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRB), Shore (HSD) and tensile strength (σb)
- Dual value display, shows both Leeb and converted hardness
- Large LCD display with backlight
- Can choose large font display and statistics display
- Automatically calculate maximum, minimum and average value
- Save 300 data
- Operation temperature: -10°C~45°C
- According to ASTM A956, DIN 50156 GB/T 17394




hardness test block D (included)


small support ring (included)

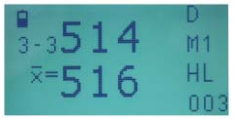

bluetooth printer (**optional**)

SPECIFICATION

Resolution	1HLD/1HV/1HB/0.1HRC/0.1HRB/ 0.1HSD/1σb
Accuracy	±6HLD (when HLD=800)
Measuring range	HL 170-960/HRC 17-69/HRB 13-101.7/ HB 20-655/HV 80-940/HSD 32-99.5/ σb (rm) 255-2180N/mm²
Power supply	2xAA battery
Dimension	135×77×32mm
Weight	240g

VIDEO


large font display


statistics display

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc
Impact device D	1 pc

OPTIONAL ACCESSORY

Impact device DC	**HDT-WL320-DCW**
Impact device C	**HDT-WL320-CW**
Impact device DL	**HDT-WL320-DLW**
Impact device G	**HDT-WL320-GW**
Hardness test block D	**HDT-B-HLD3**
Bluetooth printer	**ISH-LP200-PRINTER**
Support rings	page 738


DC **(optional)** C **(optional)** D (included) DL **(optional)** G **(optional)**

APPLICABLE WORKPIECE

Impact device		**DC**	**C**	**D**	**DL**	**G**
Application		inner wall of small space	small or thin workpiece, coating layer	general use	narrow slot or small hole	casting or forging workpiece
Maximum roughness of workpiece (Ra)		2μm	0.4μm	2μm	2μm	7μm
Minimum weight of workpiece	**direct measurement**	5kg	1.5kg	5kg	5kg	15kg
	on solid support	2kg	0.5kg	2kg	2kg	5kg
	coupled on plate	0.05kg	0.02kg	0.05kg	0.05kg	0.5kg
Minimum thickness of workpiece		3mm	1mm	3mm	3mm	10mm

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DATA OUTPUT | HIGH ACCURACY | DL PROBE IS OPTIONAL

PEN-TYPE LEEB HARDNESS TESTER (ADVANCED TYPE) CODE HDT-L410

INSPECTION CERTIFICATE

VIDEO


software flash disk (included)


hardness test block D (included)


wireless printer (**optional**)

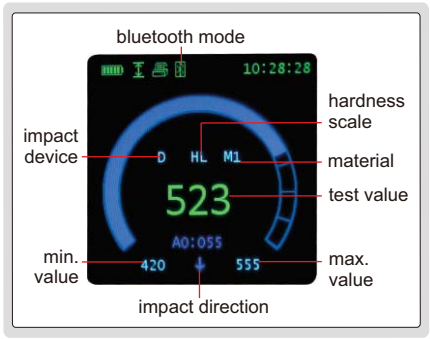

small support ring (included)

- Metal housing
- HD TFT 320×320 display
- Impact device D
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRA and HRB), Shore (HS) and tensile strength (SGM)
- Four display modes
- Automatic direction correction
- Tolerance testing
- Automatic power off, automatic calculation of statistics
- Dual value display, shows both Leeb and other conversion values
- 31 files can be saved, each containing 100 measurement data
- Connected to PC software via USB or Bluetooth 2.0
- Connected with printer via Bluetooth
- Operation temperature: -20°C~70°C
- According to ASTM A956, DIN 50156, GB/T 17394

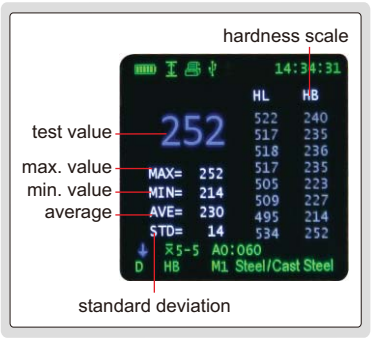
DL probe can be installed (**optional**)



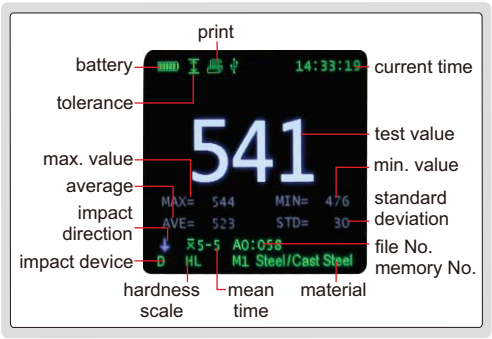
dynamic ring display



statistic display

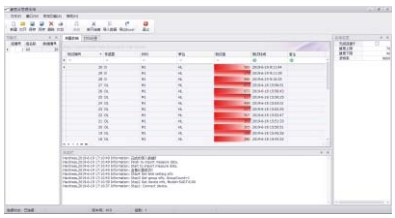


can choose large font display

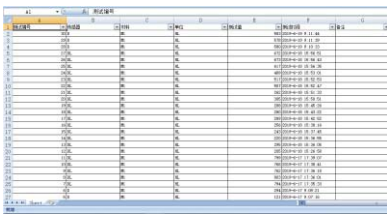


software (included), upload the memory to PC, print and send to EXCEL

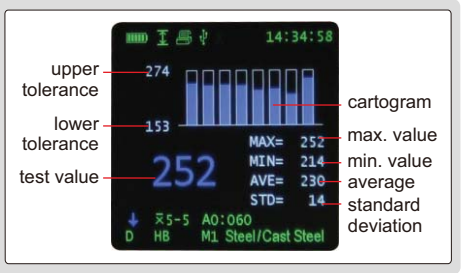
upload the memory to PC software via USB cable or Bluetooth



send the stored data to EXCEL



histogram display



SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 0.1HRA, 0.1HS, 1SGM	
Accuracy	±4HLD (when HLD=800)	
Output	USB and bluetooth	
Applicable workpiece	minimum weight	5kg (direct measurement)
		2kg (on solid support)
		0.05kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 2μm	
Power supply	built-in 3.7V rechargeable battery	
Dimension	148×44×22mm	
Weight	115g	

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc
AC/DC adapter	1 pc
Software flash disk and USB cable	1 pc

OPTIONAL ACCESSORY

Printer	**HDT-L410-PRINTER**
Support rings	page 738
Hardness test block D	**HDT-B-HLD3**
DL probe	**HDT-L410-DL**

PEN-TYPE LEEB HARDNESS TESTER (STANDARD TYPE)
CODE HDT-B430

INSPECTION CERTIFICATE

DATA OUTPUT

DL PROBE IS OPTIONAL


software flash disk (included)


hardness test block D (included)


small support ring (included)


wireless printer (**optional**)

VIDEO

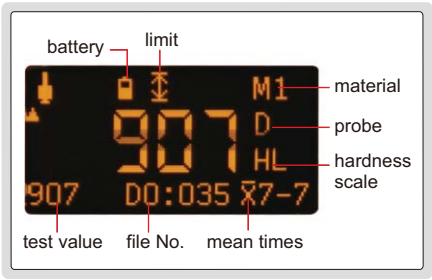


DL probe can be installed (**optional**)

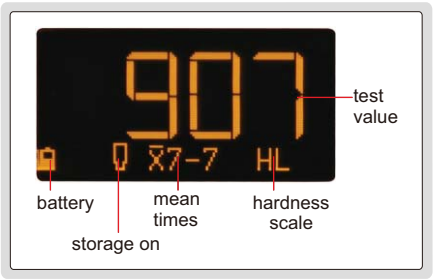


- Impact device D is included
- High contrast OLED display
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRA and HRB), Shore (HS) and tensile strength (σb)
- Dual value display, shows both Leeb and other conversion values
- No need to set the testing direction
- 31 files can be saved, each containing 100 measurement data
- Automatically calculate maximum, minimum, average value
- Connected to PC software via USB or Bluetooth
- Connected with printer via Bluetooth
- Operation temperature: -20°C~45°C
- According to ASTM A956, DIN 50156 GB/T, 17394

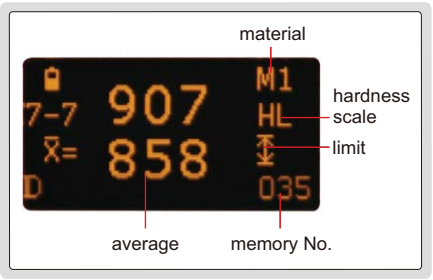
standard display



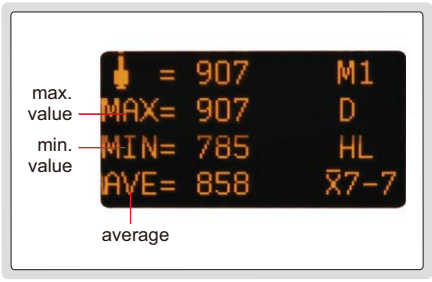
big character display



average display

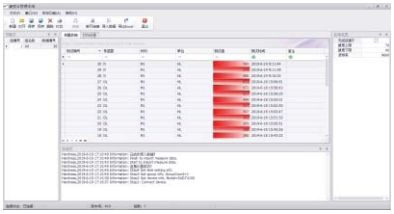


statistical parameter display



software (included), upload the memory to PC, print and send to EXCEL

upload the memory to PC software via USB cable or Bluetooth



send the stored data to EXCEL



SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 0.1HRA, 0.1HSD, 16b	
Accuracy	±6HLD (when HLD=800)	
Measuring range	HLD170-960, HRC17-70, HRB13-109, HB20-655, HV80-940 HSD32-99.5, HRA30-88, σb (rm) 255-2180N/mm²	
Applicable workpiece	minimum weight	5kg (direct measurement)
		2kg (on solid support)
		0.05kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 2μm	
Output	USB and bluetooth	
Power supply	built-in 3.7V rechargeable battery	
Dimension	148×44×28mm	
Weight	110g	

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc
AC/DC adapter	1 pc
Software flash disk and USB cable	1 pc

OPTIONAL ACCESSORY

Printer	**ISH-LP200-PRINTER**
Support rings	page 738
Hardness test block D	**HDT-B-HLD3**
DL probe	**HDT-L410-DL**

DATA OUTPUT

INSPECTION CERTIFICATE

PEN-TYPE LEEB HARDNESS TESTER (BASIC TYPE)
CODE HDT-L411



software flash disk (included)

VIDEO



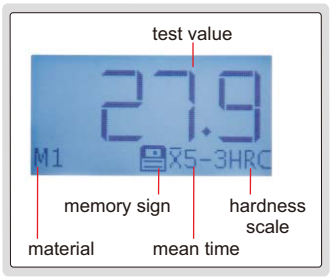
hardness test block D (included)



small support ring (included)

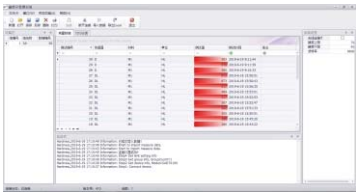


can choose large font display

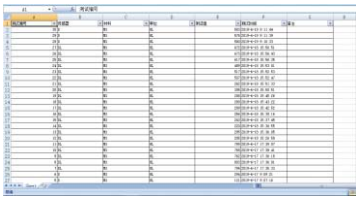


software (included), upload the memory to PC, print and send to EXCEL

upload the memory to PC software via USB cable



send the stored data to EXCEL



- Impact device D
- Universal testing angle, no need to set impact direction
- Dual-coil probe, high accuracy
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRA and HRB), Shore (HS) and tensile strength (SGM)
- Dual value display, shows both Leeb and converted hardness
- High contrast digital LCD display
- Can choose large font display
- Automatically calculate maximum, minimum, average value
- Connected to PC via USB
- Save 999 data
- Operation temperature: -20°C~45°C
- According to ASTM A956, DIN 50156, GB/T 17394

SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 0.1HRA, 0.1HS, 1SGM	
Accuracy	±6HLD (when HLD=800)	
Output	USB	
Measuring range	HL100-960, HRC1-74.7, HRB1.2-140, HB28-1027, HV45-1230, HS4-112, HRA7-88.5, SGM (rm) 118-3315N/mm²	
Applicable workpiece	minimum weight	5kg (direct measurement)
		2kg (on solid support)
		0.05kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 2μm	
Power supply	1xAAA battery	
Dimension	148×45×21mm	
Weight	105g	

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Cleaning brush	1 pc
AAA battery	1 pc
Small support ring	1 pc
Software flash disk and USB cable	1 pc

OPTIONAL ACCESSORY

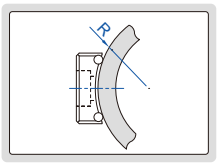
Support rings	page 738
Hardness test block D	**HDT-B-HLD3**

SUPPORT RING SET FOR PORTABLE LEEB HARDNESS TESTER
CODE ISH-PH-SP9

VIDEO

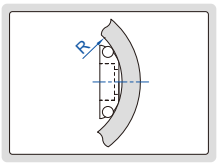
type A





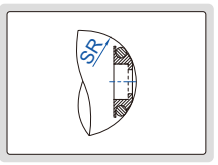
type B





type C





SPECIFICATION

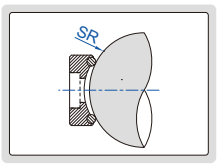
Type	Applicable workpieces	Range (mm)	Quantity
A	cylindrical outside surface	R10-15	3 pcs
		R14.5-30	
		R25-50	
B	cylindrical inside surface	R11-13	3 pcs
		R12.5-17	
		R16.5-30	
C	spherical inside surface	SR11-13	3 pcs
		SR12.5-17	
		SR16.5-30	
D	spherical outside surface	SR10-15	2 pcs
		SR14.5-30	
E	cylindrical outside surface	R>10	1 pc

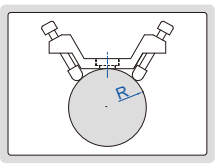
type D



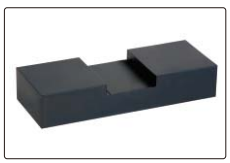
type E







DIGITAL MAGNETIC ROCKWELL HARDNESS TESTER
CODE ISHR-D121



flat anvil for test block (included)

VIDEO



- Apply to large and heavy steel or iron workpieces
- With statistic function, display average, maximum and minimum values
- Convert to HV, HB and tensile strength
- According to ISO 6508, ASTM E18

SPECIFICATION

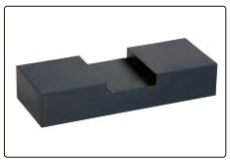
Hardness scale	HRA, HRB, HRC
Preliminary test force	10kg
Test force	60kg, 100kg, 150kg
Load control	manual
Min. reading	0.1HR
Flat workpiece requirement	length>190mm, width>60mm, thickness>5mm
Cylinder or tube workpiece requirement	length>200mm, diameter>Ø50mm, wall thickness>8mm
Power supply	3×AA batteries
Dimension	245×105×230mm
Weight	5.3kg

STANDARD DELIVERY

Main unit	1 pc
Flat anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRC20~30	1 pc

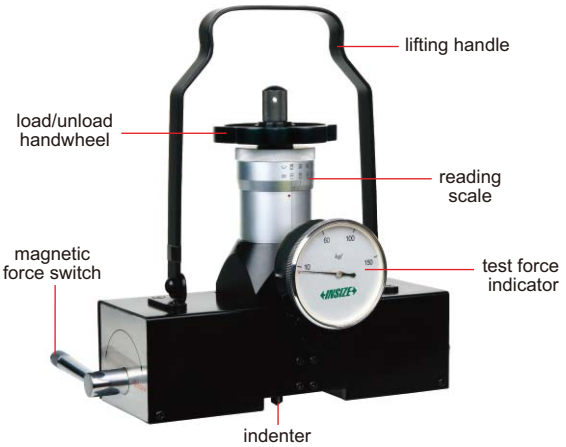
MAGNETIC ROCKWELL HARDNESS TESTER
CODE ISHR-M111

- Apply to large and heavy steel or iron workpieces
- According to ISO 6508, ASTM E18


flat anvil for test block (included)


supports for cylinder or tube workpieces (included)


magnifier with LED (included)



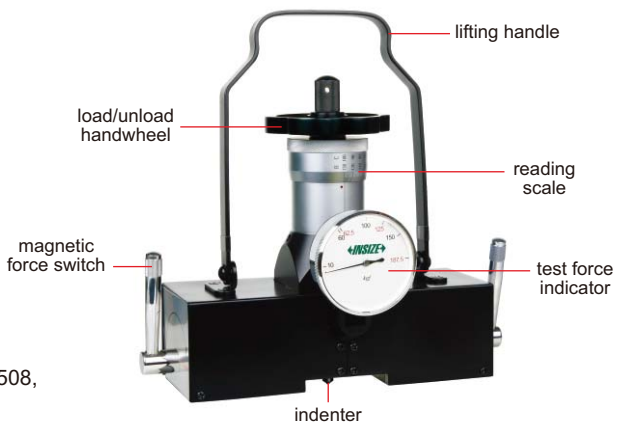
SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	10kg
Test force	60kg, 100kg, 150kg
Load control	manual
Min. reading	1HR
Flat workpiece requirement	length>180mm, width>60mm, thickness>5mm
Cylinder or tube workpiece requirement	length>180mm, diameter>Ø50mm, wall thickness>8mm
Dimension	220×70×220mm
Weight	4.7kg

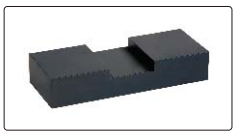
STANDARD DELIVERY

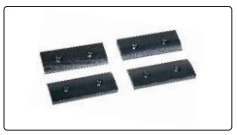
Main unit	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	2 pcs
Hardness test block HRB85~95	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRC20~30	1 pc
Flat anvil	1 pc
Support	4 pcs
Magnifier with LED	1 pc

MAGNETIC BRINELL/ROCKWELL HARDNESS TESTER
CODE ISHR-B141



- Apply to large steel or iron workpieces
- According to ISO 6508, ASTM E18


flat anvil for test block (included)


supports for cylinder or tube workpieces (included)


magnifier with LED (included)


measuring microscope (included)

SPECIFICATION

Rockwell scale	HRA, HRB, HRC, HRD, HRF, HRG
Brinell measuring range	20~650HBW
Rockwell test force	10kg preload, 60kg, 100kg, 150kg total load
Brinell test force	62.5kg, 125kg, 187.5kg
Load control	manual
Min. Rockwell reading	1HR
Measuring microscope	40X, graduation 0.01mm
Flat workpiece requirement	length>180mm, width>60mm, thickness>5mm
Cylinder and tube workpiece requirement	length>180mm, diameter>Ø50mm, thickness>8mm
Dimension	220×70×220mm
Weight	4.7kg

STANDARD DELIVERY

Main unit	1 pc
Flat anvil	1 pc
Support	4 pcs
Diamond Rockwell indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Ø2.5mm Brinell indenter	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRC20~30	1 pc
Brinell test block	1 pc
Measuring microscope	1 pc
Magnifier with LED	1 pc

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PORTABLE ROCKWELL HARDNESS TESTER
CODE ISHR-P151



anvil extension for thin workpieces (included)

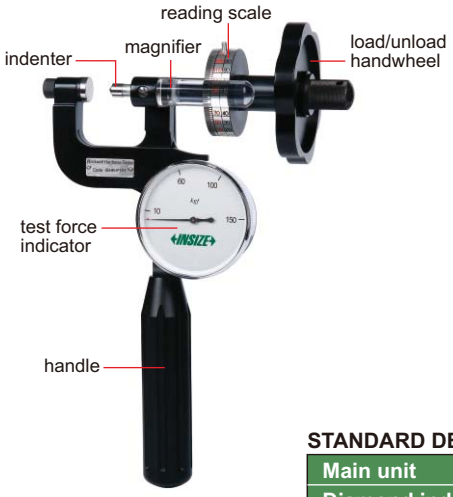
VIDEO



flat anvil (included)



V-type anvil (included)





- According to ISO 6508, ASTM E18

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	10kg
Test force	60kg, 100kg, 150kg
Load control	manual
Min. reading	1HR
Max. workpiece thickness	25mm
Max. testing width	25mm (from the center of indenter to the main body)
Dimension	240×70×160mm
Weight (with base)	2.5kg

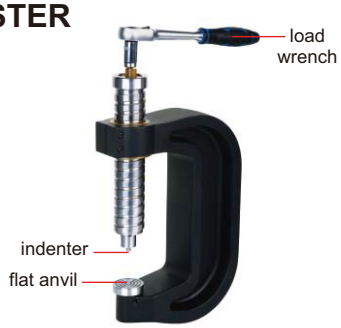
STANDARD DELIVERY

Main unit	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	2 pcs
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Flat anvil	1 pc
V-type anvil	1 pc
Base	1 pc
Anvil extension	1 pc
Magnifier	2 pcs

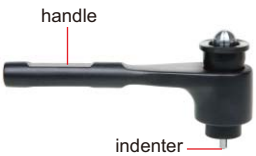
PIN BRINELL HARDNESS TESTER
CODE ISHB-P101

VIDEO

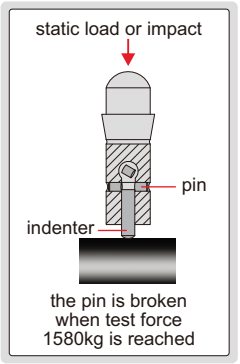
- Measure Brinell hardness of large and heavy workpieces
- 1580kg test force and Ø7.26mm ball indenter, equal to 3000kg test force and Ø10mm ball indenter
- Static and impact test modes
- According to ISO and ASTM standard



static test clamp



impact test handle



static test



impact test





measuring microscope (included)



pins (included)



V-type anvil (included)

SPECIFICATION

Measuring range	100~350HBW (with Ø7.26mm indenter, included) 350~650HBW (with Ø4mm indenter, **optional**)
Test force	1580kg
Accuracy	static test: ±3% impact test: ±5%
Measuring microscope	20X, graduation 0.01mm
Max. workpiece height of static test	150mm
Max. testing width of static test	80mm (from the center of indenter to the clamp)
Dimension	195×60×350mm
Weight	4.2kg

STANDARD DELIVERY

Static test clamp	1 pc
Impact test handle	1 pc
Flat anvil	1 pc
V-type anvil	1 pc
Ø7.26mm indenter	1 pc
Hardness test block	1 pc
Pin	250 pcs
Measuring microscope	1 pc

OPTIONAL ACCESSORY

Ø4mm indenter	**ISHB-P101-INDENTER**
Pin (250 pcs)	**ISHB-P101-PIN**

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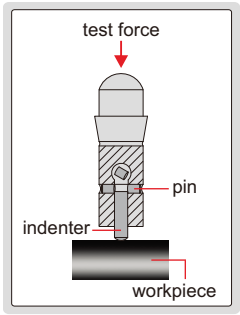
HAMMER IMPACT BRINELL HARDNESS TESTER
CODE HDT-PB350


hammer impact
to apply test force




pins (included)


measuring microscope
(included)



the pin is broken when
test force 1580kg is reached

- Measure Brinell hardness of large and heavy workpieces
- 1580kg test force and Ø7.26mm ball indenter,
  equal to 3000kg test force and Ø10mm ball indenter

VIDEO

SPECIFICATION

Measuring range	100~350HBW (with Ø7.26mm indenter, included) 350~650HBW (with Ø4mm indenter, **optional**)
Test force	1580kg
Accuracy	±5%HBW
Repeatability	±5%HBW
Measuring microscope	20X, graduation 0.01mm
Dimension	200×50×100mm
Weight	0.8kg

STANDARD DELIVERY

Main unit	1 pc
Ø7.26mm indenter	1 pc
Hardness test block	1 pc
Pin	250 pcs
Pin removal tool	1 pc
Measuring microscope	1 pc

OPTIONAL ACCESSORY

Ø4mm indenter	**ISHB-P101-INDENTER**
Pin (250 pcs)	**ISHB-P101-PIN**

HYDRAULIC BRINELL HARDNESS TESTER
CODE ISHB-H131

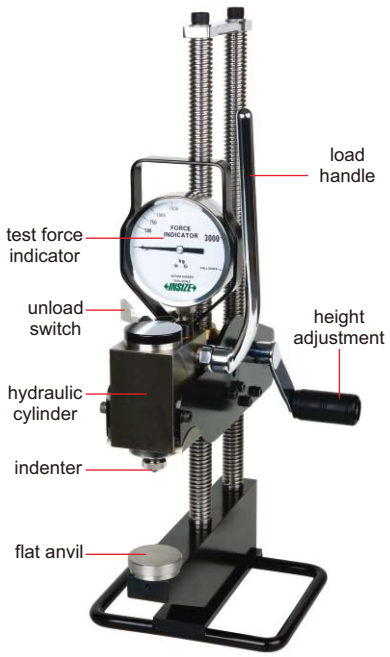

V-type anvil
(included)


spherical anvil
(included)


measuring microscope
(included)

VIDEO

- According to ISO 6506, ASTM E10



SPECIFICATION

Measuring range	16~650HBW
Test force	3000kg
Indenter	Ø10mm carbide ball
Measuring microscope	20X, graduation 0.01mm
Max. workpiece height	350mm
Max. testing width	90mm (from the center of indenter to the column)
Dimension	270×225×570mm
Weight	13.8kg

STANDARD DELIVERY

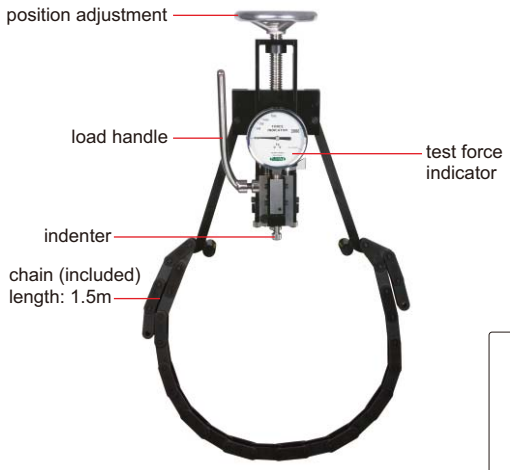
Main unit	1 pc
Flat anvil	1 pc
V-type anvil	1 pc
Spherical anvil	1 pc
Ø10mm carbide ball	2 pcs
Brinell test block	2 pcs
Measuring microscope	1 pc

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CHAIN TYPE HYDRAULIC BRINELL HARDNESS TESTER
CODE ISHB-C161

- To measure the hardness of cylinders or tubes
- According to ISO 6506, ASTM E10

VIDEO




measuring microscope (included)

SPECIFICATION

Measuring range	32~650HBW
Workpiece diameter range	Ø150~Ø500mm
Test force	3000kg
Indenter	Ø10mm carbide ball
Measuring microscope	20X, graduation 0.01mm
Dimension	270×225×570mm
Weight	14.5kg

STANDARD DELIVERY

Main unit	1 pc
1.5m chain	1 pc
Ø10mm carbide ball	2 pcs
Brinell test block	2 pcs
Measuring microscope	1 pc

ALUMINUM HARDNESS TESTERS

- To measure the hardness of soft metal such as aluminum alloy, copper, brass, soft steel, etc.
- According to ASTM B647-84 (2000)



ISHW-L20B

STANDARD DELIVERY

Main unit	1 pc
Spare indenter	1 pc
Hardness test block	1 pc
Wrench	1 pc

VIDEO

SPECIFICATION

Code	ISHW-L20	ISHW-L20A	ISHW-L20B	ISHW-B70	ISHW-B75	ISHW-B92
Application	for aluminum alloy general use	for aluminum alloy thick workpiece	for aluminum alloy small tube	for hard aluminum alloy and hard brass	for soft brass and copper	for soft steel and cold-rolled steel
Thickness requirement of flat workpiece	0.6~6mm	0.6~13mm	0.6~8mm	0.6~6mm	0.6~6mm	0.6~6mm
Internal diameter requirement of tube workpiece	>Ø10mm	>Ø10mm	>Ø6mm	>Ø10mm	>Ø10mm	>Ø10mm
Wall thickness requirement of tube workpiece	0.6~6mm	6~13mm (internal diameter Ø10~23.3mm) 0.6~6mm (internal diameter >Ø23.3mm)	0.6~8mm	0.6~6mm	0.6~6mm	0.6~6mm
Hardness range	0~20HW					
Min. reading	1HW					
Accuracy	±0.5HW (at 5~17HW)					
Dimension	205×30×85mm					
Weight	500g					

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BARCOL HARDNESS TESTER
CODE ISHB-B300

- To measure the hardness of workpieces made of pure aluminum, aluminum alloy, fiber reinforced plastic, hard plastic, etc.
- According to ASTM B648-00, ASTM D2853-07



VIDEO

SPECIFICATION

Hardness range	0~100HBa (equal to 25~150HBW)
Min. reading	1HBa
Accuracy	±2HBa (at 42~52HBa) ±1HBa (at 84~88HBa)
Min. workpiece thickness	0.8mm
Dimension	142×65×90mm
Weight	500g

STANDARD DELIVERY

Main unit	1 pc
Spare indenter	2 pcs
Hardness test block	2 pcs
Wrench	1 pc

DIGITAL SHORE DUROMETERS

VIDEO



blunt taper indenter

ISH-DSA



sharp point indenter

ISH-DSD



ball indenter

ISH-DSOO

- According to ISO868, ISO7619, ASTM D 2240
- Average and peak (max.) mode
- Dwell time is adjustable
- Tolerance testing
- 500 memories
- Wireless connection to printer
- Handhold use or work with test stand (code **ISH-DS-STANDA**)
- Automatic power off



software flash disk (included)



calibration block (included)



printer (**optional**)

SPECIFICATION

Code	**ISH-DSA**	**ISH-DSD**	**ISH-DSOO**
Unit	Shore A	Shore D	Shore OO
Test material	soft plastic, soft rubber, etc.	hard plastic, hard rubber, etc.	very soft plastic, rubber, sponge, textile, etc.
Measuring range	0~100HA*	0~100HD*	0~100HOO
Resolution	0.1HA	0.1HD	0.1HOO
Accuracy	±1HA	±1HD	±1HOO
Indenter protrusion	2.5mm		
Output	wireless and USB		
Power supply	built-in rechargeable battery		
Dimension	153×50×29mm		
Weight	170g		

* Use **ISH-DSD** when measuring result is higher than 90HA
Use **ISH-DSA** when measuring result is lower than 20HD

STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Printer	**ISH-DS-PRINTER**
Test stand	**ISH-DS-STANDA**

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TEST STAND FOR DIGITAL SHORE DUROMETERS
CODE ISH-DS-STANDA

- For digital shore durometers (code **ISH-DSA**, **ISH-DSD** and **ISH-DSOO**)
- Perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations
- Special structure for stable loading
- Weight block A (included) is for **ISH-DSA**, weight block D (**optional**) is for **ISH-DSD**, remove weight block for **ISH-DSOO**



weight block D
(**optional**)
for **ISH-DSD**



SPECIFICATION

Stage diameter	Ø115mm
Max. workpiece height	45mm
Max. testing width	63mm (from test point to the column)
Dimension	Ø195×370mm
Weight	5.61kg

STANDARD DELIVERY

Test stand	1 pc
Weight block A (for ISH-DSA)	1 pc

OPTIONAL ACCESSORY

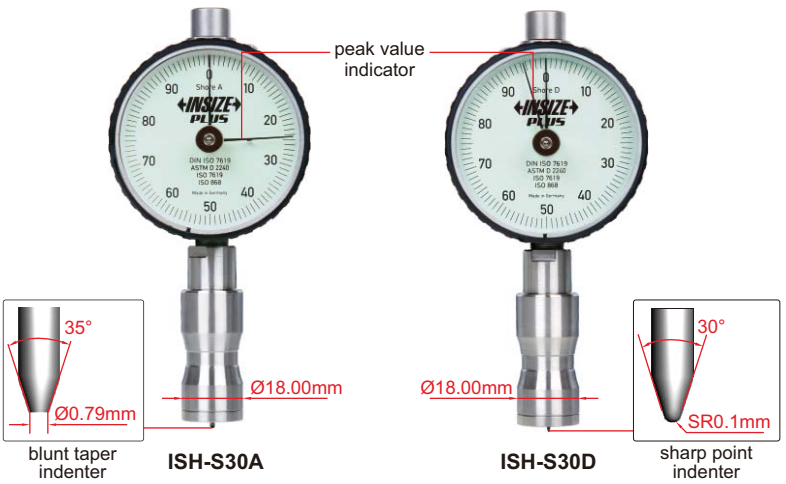
Weight block D (for ISH-DSD)	**ISH-DS-W4**

SHORE DUROMETERS

MADE IN EUROPE

VIDEO

- According to ISO868, ISO7619, ASTM D 2240
- With peak value indicator
- Handhold use or work with test stand (code **ISH-OS2**)



SPECIFICATION

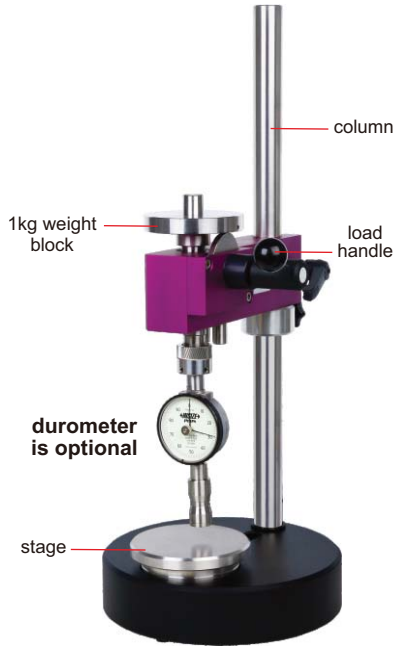
Code	**ISH-S30A**	**ISH-S30D**
Scale	Shore A	Shore D
Test material	soft plastic, soft rubber, etc.	hard plastic, hard rubber, etc.
Measuring range*	0~100HA	0~100HD
Graduation	1HA	1HD
Accuracy	±0.5HA	±0.5HD
Indenter protrusion	2.5mm	
Weight	184g	

* Use **ISH-S30D** when measuring result is higher than 90HA
Use **ISH-S30A** when measuring result is lower than 20HD

TEST STAND FOR SHORE DUROMETERS CODE ISH-OS2

INSIZE PLUS
MADE IN EUROPE

- For shore durometers (code **ISH-S30A** and **ISH-S30D**)
- Perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations
- Special structure for stable loading
- 1kg weight block (included) is for **ISH-S30A**, 4kg weight block **(optional)** is for **ISH-S30D**




calibration block (included)


4kg weight block (**optional**) for **ISH-S30D**

SPECIFICATION

Stage diameter	Ø98mm
Max. workpiece height	180mm
Max. testing width	115mm (from test point to the column)
Dimension	Ø200×500mm
Weight	18kg

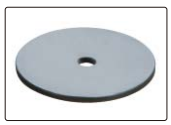
STANDARD DELIVERY

Test stand	1 pc
1kg weight block (for ISH-S30A)	1 pc
Calibration block	1 pc

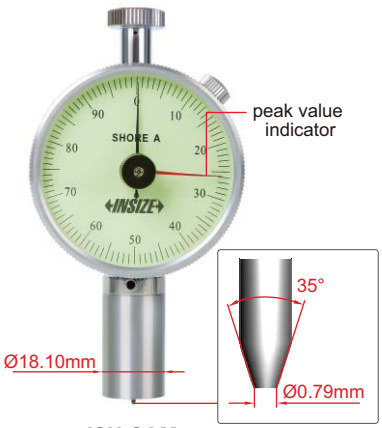
OPTIONAL ACCESSORY

4kg weight block (for ISH-S30D)	**ISH-OS2-W4**

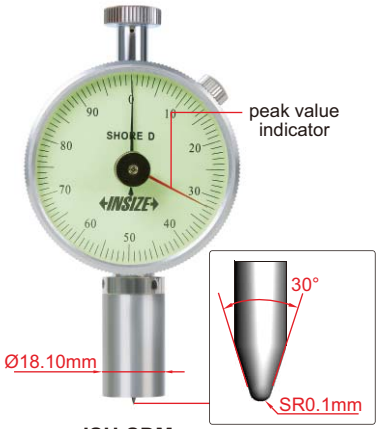
SHORE DUROMETERS


calibration block (**optional**)

- According to ISO868, ISO7619, ASTM D 2240
- With peak value indicator
- Optional accessory: test stand **ISH-STAC** and **ISH-STD**



ISH-SAM
blunt taper indenter



ISH-SDM
sharp point indenter

SPECIFICATION

	ISH-SAM	**ISH-SDM**
Code		
Scale	Shore A	Shore D
Application	nature rubber, soft elastomer, etc.	hard rubber, plastic, hard elastomer, etc.
Measuring range*	10~90HA	20~90HD
Graduation	1HA	1HD
Indenter protrusion	2.5mm	
Dimension	115×60×25mm	
Weight	160g	

* Use **ISH-SDM** when measuring result is higher than 90HA
Use **ISH-SAM** when measuring result is lower than 20HD

OPTIONAL ACCESSORY

Calibration block	**ISH-DS-BLOCK**

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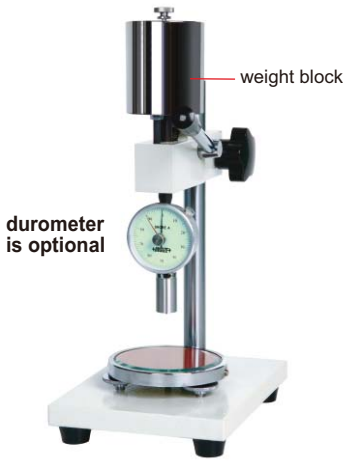
TEST STANDS FOR SHORE DUROMETERS

VIDEO

- For shore durometers (code **ISH-SAM** and **ISH-SDM**)
- Perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations



ISH-STAC



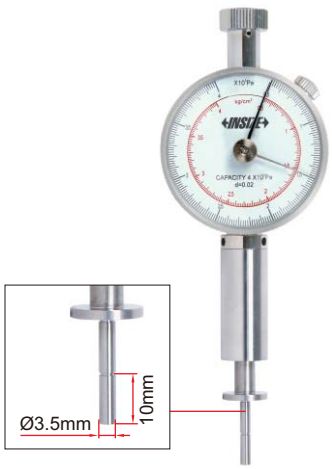
ISH-STD

SPECIFICATION

Code	ISH-STAC	ISH-STD
Applicable durometer	ISH-SAM	ISH-SDM
Stage diameter	Ø100mm	Ø100mm
Max. workpiece height	75mm	75mm
Max. testing width	65mm (from test point to the column)	65mm (from test point to the column)
Weight block	1kg	5kg

FRUIT HARDNESS TESTER

- Measure the hardness of apples, pears, strawberries and grapes, etc.
- The degree of ripeness can be judged by measuring the hardness of the fruit



9643-4

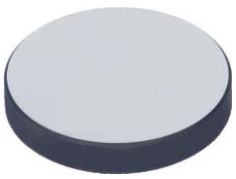
SPECIFICATION

Code	Range	Graduation	Accuracy	Probe diameter	Probe depth	Dimension	Weight
9643-4	0.5-4kg/cm² (0.5-4×10⁵Pa)	0.02kg/cm² (0.02×10⁵Pa)	±2%	Ø3.5mm	10mm	151×55×30mm	0.2kg

INSPECTION CERTIFICATE

HARDNESS TEST BLOCKS


Rockwell


Vickers

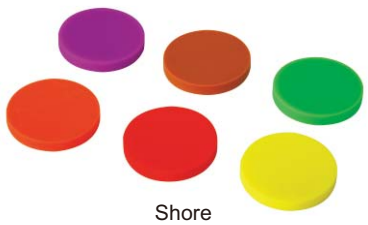

Brinell


Leeb


Micro-Vickers


Knoop


Ultrasonic


Shore

- Supplied with manufacturer inspection certificate

Rockwell hardness test blocks

Code	Type	Hardness
HDT-B-HRA	HRA	80-84
HDT-B-HRB	HRB	88-100
HDT-B-HRC1	HRC	20-30
HDT-B-HRC2	HRC	35-55
HDT-B-HRC3	HRC	60-70
HDT-B-HRD1	HRD	40-47
HDT-B-HRD2	HRD	55-63
HDT-B-HRD3	HRD	70-75
HDT-B-HRE	HRE	107-114
HDT-B-HRF	HRF	105-114
HDT-B-HRG1	HRG	57-82
HDT-B-HRG2	HRG	80-94

Rockwell superficial hardness test blocks

Code	Type	Hardness
HDT-B-HR15N1	HR15N	70-77
HDT-B-HR15N2	HR15N	78-88
HDT-B-HR15N3	HR15N	89-91
HDT-B-HR30N1	HR30N	42-54
HDT-B-HR30N2	HR30N	55-73
HDT-B-HR30N3	HR30N	74-80
HDT-B-HR45N1	HR45N	20-31
HDT-B-HR45N2	HR45N	32-61
HDT-B-HR45N3	HR45N	63-70
HDT-B-HR15T	HR15T	88-93
HDT-B-HR30T	HR30T	73-82
HDT-B-HR45T	HR45T	58-72

Leeb hardness test blocks

Code	Type	Hardness
HDT-B-HLD1	HLD	490-570
HDT-B-HLD2	HLD	590-670
HDT-B-HLD3	HLD	750-830
HDT-B-HLG1	HLG	460-540
HDT-B-HLG2	HLG	550-630

Vickers hardness test blocks

Code	Type	Hardness
HDT-B-HV5A	HV5	175-200
HDT-B-HV5B	HV5	200-300
HDT-B-HV5C	HV5	300-400
HDT-B-HV5D	HV5	400-500
HDT-B-HV5E	HV5	500-600
HDT-B-HV5F	HV5	600-700
HDT-B-HV5G	HV5	700-750
HDT-B-HV10A	HV10	175-200
HDT-B-HV10B	HV10	200-300
HDT-B-HV10C	HV10	300-400
HDT-B-HV10D	HV10	400-500
HDT-B-HV10E	HV10	500-600
HDT-B-HV10F	HV10	600-700
HDT-B-HV10G	HV10	700-750
HDT-B-HV30A	HV30	175-200
HDT-B-HV30B	HV30	200-300
HDT-B-HV30C	HV30	300-400
HDT-B-HV30D	HV30	400-500
HDT-B-HV30E	HV30	500-600
HDT-B-HV30F	HV30	600-700
HDT-B-HV30G	HV30	700-750
HDT-B-HV50A	HV50	175-200
HDT-B-HV50B	HV50	200-300
HDT-B-HV50C	HV50	300-400
HDT-B-HV50D	HV50	400-500
HDT-B-HV50E	HV50	500-600
HDT-B-HV50F	HV50	600-700
HDT-B-HV50G	HV50	700-750
HDT-B-HV100A	HV100	175-200
HDT-B-HV100B	HV100	200-300
HDT-B-HV100C	HV100	300-400
HDT-B-HV100D	HV100	400-500
HDT-B-HV100E	HV100	500-600
HDT-B-HV100F	HV100	600-700
HDT-B-HV100G	HV100	700-750

To be continued

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Continued from pevious page

Micro-Vickers hardness test blocks

Code	Type	Hardness
HDT-B-HV005A	HV0.05	200-300
HDT-B-HV005B	HV0.05	300-400
HDT-B-HV005C	HV0.05	400-500
HDT-B-HV005D	HV0.05	500-600
HDT-B-HV005E	HV0.05	600-700
HDT-B-HV005F	HV0.05	700-750
HDT-B-HV01A	HV0.1	200-300
HDT-B-HV01B	HV0.1	300-400
HDT-B-HV01C	HV0.1	400-500
HDT-B-HV01D	HV0.1	500-600
HDT-B-HV01E	HV0.1	600-700
HDT-B-HV01F	HV0.1	700-750
HDT-B-HV02A	HV0.2	200-300
HDT-B-HV02B	HV0.2	300-400
HDT-B-HV02C	HV0.2	400-500
HDT-B-HV02D	HV0.2	500-600
HDT-B-HV02E	HV0.2	600-700
HDT-B-HV02F	HV0.2	700-750
HDT-B-HV03A	HV0.3	200-300
HDT-B-HV03B	HV0.3	300-400
HDT-B-HV03C	HV0.3	400-500
HDT-B-HV03D	HV0.3	500-600
HDT-B-HV03E	HV0.3	600-700
HDT-B-HV03F	HV0.3	700-750
HDT-B-HV05A	HV0.5	200-300
HDT-B-HV05B	HV0.5	300-400
HDT-B-HV05C	HV0.5	400-500
HDT-B-HV05D	HV0.5	500-600
HDT-B-HV05E	HV0.5	600-700
HDT-B-HV05F	HV0.5	700-750
HDT-B-HV1A	HV1	200-300
HDT-B-HV1B	HV1	300-400
HDT-B-HV1C	HV1	400-500
HDT-B-HV1D	HV1	500-600
HDT-B-HV1E	HV1	600-700
HDT-B-HV1F	HV1	700-750

Knoop hardness test blocks

Code	Type	Hardness
HDT-B-HK005A	HK0.05	200-300
HDT-B-HK005B	HK0.05	400-500
HDT-B-HK005C	HK0.05	700-800
HDT-B-HK01A	HK0.1	200-300
HDT-B-HK01B	HK0.1	400-500
HDT-B-HK01C	HK0.1	700-800
HDT-B-HK02A	HK0.2	200-300
HDT-B-HK02B	HK0.2	400-500
HDT-B-HK02C	HK0.2	700-800
HDT-B-HK03A	HK0.3	200-300
HDT-B-HK03B	HK0.3	400-500
HDT-B-HK03C	HK0.3	700-800
HDT-B-HK05A	HK0.5	200-300
HDT-B-HK05B	HK0.5	400-500
HDT-B-HK05C	HK0.5	700-800
HDT-B-HK1A	HK1	200-300
HDT-B-HK1B	HK1	400-500
HDT-B-HK1C	HK1	700-800

Brinell hardness test blocks

Code	Type	Hardness
HDT-B-HB10A1	HBW10/3000	100-200
HDT-B-HB10A2	HBW10/3000	200-300
HDT-B-HB10A3	HBW10/3000	300-400
HDT-B-HB10A4	HBW10/3000	400-500
HDT-B-HB10A5	HBW10/3000	500-600
HDT-B-HB10A6	HBW10/3000	600-650
HDT-B-HB10B1	HBW10/1500	100-200
HDT-B-HB10B2	HBW10/1500	200-300
HDT-B-HB10B3	HBW10/1500	300-400
HDT-B-HB10B4	HBW10/1500	400-500
HDT-B-HB10B5	HBW10/1500	500-600
HDT-B-HB10B6	HBW10/1500	600-650
HDT-B-HB10C1	HBW10/1000	90-200
HDT-B-HB10C2	HBW10/1000	200-300
HDT-B-HB10C3	HBW10/1000	300-400
HDT-B-HB10C4	HBW10/1000	400-450
HDT-B-HB10D1	HBW10/500	90-200
HDT-B-HB10D2	HBW10/500	200-300
HDT-B-HB10D3	HBW10/500	300-400
HDT-B-HB10D4	HBW10/500	400-450
HDT-B-HB25A1	HBW2.5/187.5	100-200
HDT-B-HB25A2	HBW2.5/187.5	200-300
HDT-B-HB25A3	HBW2.5/187.5	300-400
HDT-B-HB25A4	HBW2.5/187.5	400-500
HDT-B-HB25A5	HBW2.5/187.5	500-600
HDT-B-HB25A6	HBW2.5/187.5	600-650
HDT-B-HB25B1	HBW2.5/62.5	90-200
HDT-B-HB25B2	HBW2.5/62.5	200-300
HDT-B-HB25B3	HBW2.5/62.5	300-400
HDT-B-HB25B4	HBW2.5/62.5	400-450
HDT-B-HB5A1	HBW5/750	100-200
HDT-B-HB5A2	HBW5/750	200-300
HDT-B-HB5A3	HBW5/750	300-400
HDT-B-HB5A4	HBW5/750	400-500
HDT-B-HB5A5	HBW5/750	500-600
HDT-B-HB5A6	HBW5/750	600-650
HDT-B-HB5B1	HBW5/250	90-200
HDT-B-HB5B2	HBW5/250	200-300
HDT-B-HB5B3	HBW5/250	300-400
HDT-B-HB5B4	HBW5/250	400-450

Shore hardness test blocks

Code	Type	Hardness*
HDT-B-SA	SA	6 pcs/set (30, 40, 50, 60, 70, 80)
HDT-B-SD	SD	3 pcs/set (15, 30, 90)

*The actual value may be slightly different when delivered

Ultrasonic hardness test blocks

Code	Type	Hardness
HDT-B-HRCU1	HRC	20-30
HDT-B-HRCU2	HRC	35-55
HDT-B-HRCU3	HRC	60-70
HDT-B-HV5U1	HV5	200-300
HDT-B-HV5U2	HV5	400-500
HDT-B-HV5U3	HV5	700-750
HDT-B-HB10U1	HBW10/1000	90-200
HDT-B-HB10U2	HBW10/3000	200-300
HDT-B-HB10U3	HBW10/3000	400-500

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DATA OUTPUT

CONCRETE STRENGTH TESTERS

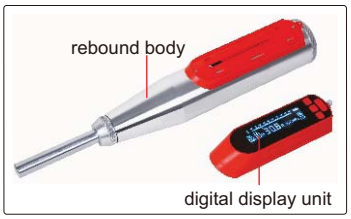


CST-D101



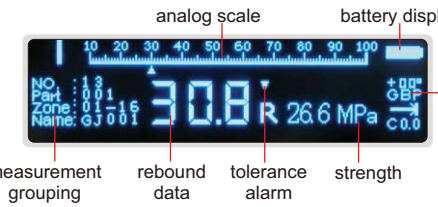
CST-D102

VIDEO



CST-D102 seperable

- Measure the strength of general building components, bridges and various concrete components (slabs, beams, columns, bridges, etc.)
- Angle, test surface, pumping, carbonization depth and other parameters can be customized according to the requirements
- The rebound body can be used for 2000 times
- USB data transmission
- The software can automatically generate the test report, and the strength curve can be customized and stored in the tester
- Storage and reading of 1000 test data
- According to JGJ/T23-2011, the curve of rebound meter can be customized to calculate the compressive strength of concrete



SPECIFICATION

Code	CST-D101	CST-D102
Display	OLED display	
Range	10-70N/mm²	
Accuracy	±1R	
Parameter	MPa, N/mm², Kgf/mm²	
Impact energy	2.207J, for testing common buildings or bridge structures	
Output	USB	
Structure	one body, non-seperable	separable, the digital display unit can be reused
Memory	1000 data	
Operation temperature	-40°C~60°C	
Power supply	built-in rechargeable battery	
Dimension	280×75×60mm	
Weight	1.1kg	



software flash disk (included)



sander (included)



calibration block (**optional**)

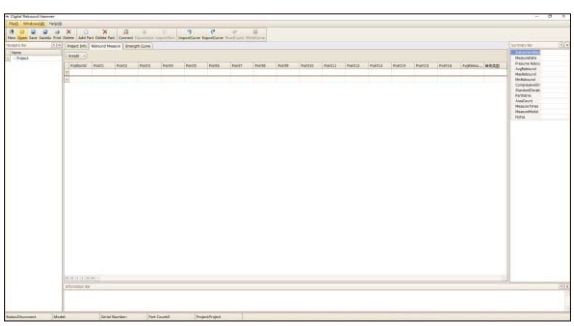
STANDARD DELIVERY

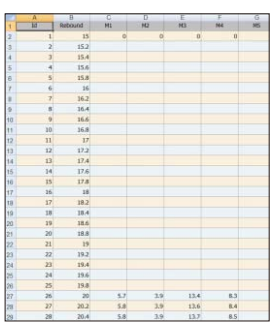
Main unit	1 pc
Sander	1 pc
Power adapter	1 pc
Software and USB cable	1 pc

OPTIONAL ACCESSORY

Rebound body (for CST-D102)	CST-D102-REBOUND
Digital display unit (for CST-D102)	CST-D102-DISPLAY
Calibration block	CST-D-BLOCK

software (included) for uploading and storing data, printing and importing/exporting strength curves







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31 METALLOGRAPHY PREPARATION

INSIZE



Cutting Machines
Page 751-753



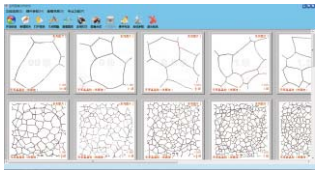
Grinders And Polishers
Page 754-757



Mounting Presses
Page 758-760



Metallurgical Microscopes
Page 760



Metallurgical Analysis Softwares
Page 760



Cutting Machine Accessories
Page 761-762



Mounting Press Accessories
Page 762-764



Grinder And Polisher Accessories
Page 764

AUTOMATIC CUTTING MACHINE (ADVANCED TYPE)
CODE MLP-HCM102

VIDEO



- Suitable for cylinder workpieces (diameter≤100mm) and rectangular samples (height≤70mm, width≤100mm)
- Cooling system avoids overheating and destroying sample structure
- Three cutting modes (manual, pulse, continuous cutting), the cutting feed speed and cutting stroke can be programed

SPECIFICATION

Maximum cutting diameter	Ø100mm
Cutting blade	Ø350×2.5×Ø32mm
Rotation speed	2200r/min
Spindle travel	145mm
Table travel	300mm
Illumination	LED ceiling light
Noise	≤85dB
Cooling tank	60L
Removable baffle	contain
Table dimension	330×280mm
Power	3kW
Power supply	AC 380V, 50Hz
Dimension	900×860×620mm
Weight	285kg

STANDARD DELIVERY

Main unit	1 pc
Cutting blade	5 pcs
Cutting blade chuck	2 pcs
Coolant	1 barrel (4L)
Water tank	1 pc

OPTIONAL ACCESSORY

Coolant (4L, 1:20 diluted with water)	**MLP-OL3**
Cutting blade (Ø350×2.5×Ø32mm, 40 pcs/box)	**MLP-50Z4**
	MLP-60Y4*
Cutting blade chuck (for Ø32mm cutting blade)	**MLP-HCM102-CHUCK**

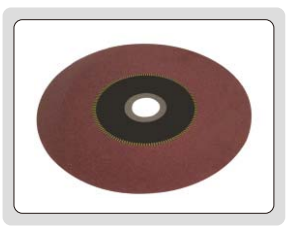
* Special cutting blade for high hardness



coolant (included)



cutting blade **MLP-50Z4** (included)

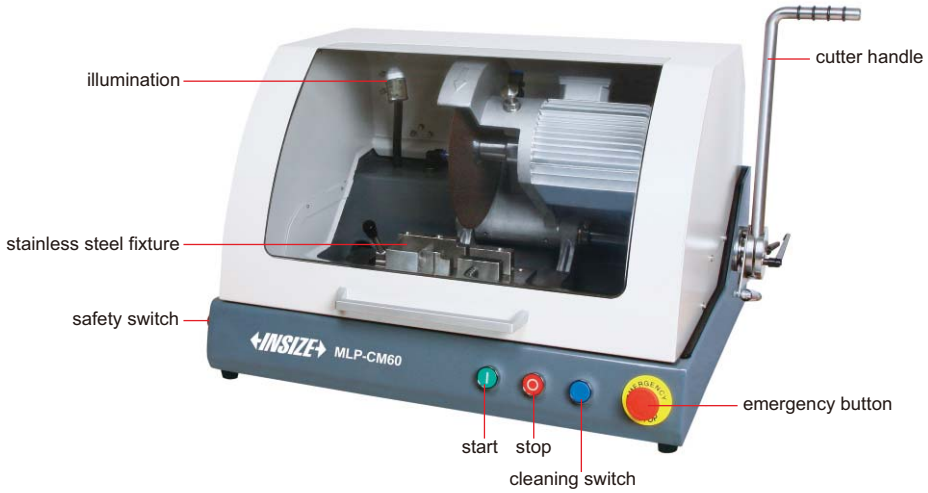


cutting blade **MLP-60Y4** (**optional**)

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CUTTING MACHINE (STANDARD TYPE)
CODE MLP-CM60

VIDEO



water tank



- For metal and non-metal materials
- Cooling device avoids overheating and destroying sample structure
- With safety switch, the machine will automatically stop when the cover is opened

SPECIFICATION

Maximum cutting diameter	Ø60mm
Cutting blade	Ø250×1.5×Ø25.4mm
Rotation speed	2800r/min
Motor power	2.2kW
Power supply	AC 380V, 50Hz
Dimension	830×620×450mm
Weight	82kg



cutting blade **MLP-CM60-CUT2** (included)

STANDARD DELIVERY

Main unit	1 pc
Cutting blade	2 pcs
Coolant	1 barrel (4L)
Water tank	1 pc

OPTIONAL ACCESSORY

Coolant (4L, 1:20 diluted with water)	**MLP-OL3**
Cutting blade (Ø250×1.5×Ø25.4mm, 60 pcs/box)	**MLP-CM60-CUT2**
Cutting blade (Ø250×2×Ø32mm, 50 pcs/box)	**MLP-50Z2** *
Cutting blade chuck (for Ø32mm cutting blade)	**MLP-CM60-CHUCK**



coolant (**optional**)

* When use **MLP-50Z2**, please purchase **MLP-CM60-CHUCK**

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VIDEO

CUTTING MACHINE (BASIC TYPE)
CODE MLP-CM86



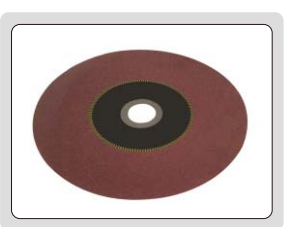
- For metal and non-metal materials
- Cooling device avoids overheating and destroying sample structure



coolant (included)



cutting blade **MLP-50Z2** (included)



cutting blade **MLP-60Y2** (**optional**)

SPECIFICATION

Maximum cutting diameter	Ø80mm
Cutting blade	Ø250×2×Ø32mm
Rotation speed	2800r/min
Power	3kW
Power supply	AC 380V, 50Hz
Dimension	690×790×670mm

STANDARD DELIVERY

Main unit	1 pc
Cutting blade	2 pcs
Coolant	1 barrel (4L)
Water tank	1 pc

OPTIONAL ACCESSORY

Coolant (4L, 1:20 diluted with water)	**MLP-OL3**
Cutting blade (Ø250×2×Ø32mm, 50 pcs/box)	**MLP-60Y2***
	MLP-50Z2
Cutting blade chuck (for Ø32mm cutting blade)	**MLP-CM86-CHUCK**

*Special cutting blade for high hardness

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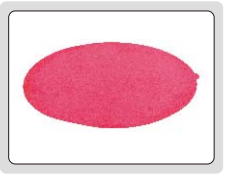
GRINDER AND POLISHER (ADVANCED TYPE)
CODE MLP-GP305

VIDEO



- Replaceable double wheels, rotation direction can be selected
- Multi sample holder, pneumatic single point loading, automatic abrasive distribution
- Adjustable speed
- Water cooling device and abrasive cleaning nozzle prevent samples from overheating and destroying structure
- ABS case and stainless steel parts, anti-corrosion, easy to clean
- Metallographic samples can be roughly ground, finely ground, roughly polished and finely polished


silicon carbide paper (included)


polishing cloth (included)


anti-stick disc (included)


magnetic pad (included)

SPECIFICATION

Wheel diameter	Ø250mm (customizable Ø300mm)
Wheel rotation speed	50~1000r/min (stepless adjustable), 150r/min, 300r/min (two fixed speeds)
Wheel rotation direction	clockwise or counterclockwise
Grinding head speed	50~150r/min (stepless adjustable)
Pressure range	5~60N
Operation number	6
Operation time	0~995s
Sample diameter	Ø30mm (customizable Ø22mm, Ø25mm, Ø30mm, Ø40mm, Ø45mm, Ø50mm)
Air pressure	0.6~0.9MPa
Power supply	AC220V, 50Hz
Input power	1.1kW
Dimension	758×785×680mm
Weight	125kg

STANDARD DELIVERY

Main unit	1 pc
Silicon carbide paper	20 pcs each (240, 250, 400, 800, 1200), 100 pcs in total
Polishing cloth	3 pcs each (velvet silk, woolen fabric), 6 pcs in total
Polishing agent	1 pc (W2.5, 500ml)
Spray polish agent	1 pc (W2.5, 350ml)
Magnetic pad	2 pcs (Ø250mm)
Anti-stick disc	3 pcs (Ø250mm)

OPTIONAL ACCESSORY

Silicon carbide paper	**MLP-SZG□□** *	50 pcs/box, select granularity: 120, 180, 240, 400, 600, 800, 1000, 1200, 1500, 2000
Polishing cloth	**MLP-CT7**	15 pcs/box, long velvet silk material
	MLP-CT27	15 pcs/box, woolen fabric
Diamond polishing liquid	**MLP-DLA□□** *	500ml, select granularity (μm): W40, W28, W20, W14, W9, W7, W5, W3.5, W2.5, W1.5, W1.0, W0.5, W0.25
Spray polish agent	**MLP-DSA□□** *	350ml, select granularity (μm): W40, W28, W20, W14, W10, W7, W5, W3.5, W2.5, W1.5, W1.0, W0.5, W0.25
Magnetic pad	**MLP-AD2**	Ø250mm
Anti-stick disc	**MLP-DC2**	Ø250mm

*□□ is granularity specification, for example, code **MLP-DLA40** stands for 40μm

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GRINDER AND POLISHER (ADVANCED TYPE)
CODE MLP-GP260



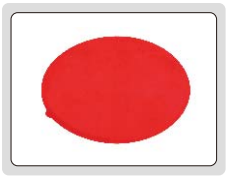
- ABS case and stainless steel parts, anti-corrosion, easy to clean
- Can hold up to 4 samples (6 holes are optional and can hold up to 6 samples)
- Smooth rotation, low noise
- Adjustable speed
- Water cooling device and abrasive cleaning nozzle prevent samples from overheating and destroying structure
- Wheel rotation direction can be selected
- Replaceable wheel

SPECIFICATION

Wheel diameter	Ø250mm
Wheel rotation speed	50~999r/min (stepless adjustable), 150 or 300r/min (two fixed speeds)
Wheel rotation direction	clockwise or counterclockwise
Grinding head speed	50~150r/min (stepless adjustable)
Pressure range	5~60N
Operation time	5~995s
Sample diameter	Ø30mm (can be customized)
Air pressure	0.6~0.9MPa
Power supply	AC 220V, 50Hz
Input power	1.1kW
Dimension	594×795×687mm
Weight	98kg



silicon carbide paper (**optional**)



polishing cloth (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Silicon carbide paper	6 pcs (200, 600, 1000)
Polishing cloth	4 pcs

OPTIONAL ACCESSORY

Silicon carbide paper	**MLP-SZG□□***	50 pcs/box, select granularity: 120, 180, 240, 400, 600, 800, 1000, 1200, 1500, 2000
Polishing cloth	**MLP-CT7**	15 pcs/box, long velvet silk material
Diamond polishing liquid	**MLP-DLA□□***	500ml, select granularity (μm): W40, W28, W20, W14, W9, W7, W5, W3.5, W2.5, W1.5, W1.0, W0.5, W0.25

* □□ is granularity specification, for example, code **MLP-DLA40** stands for 40μm

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GRINDERS AND POLISHERS (STANDARD TYPE)

VIDEO

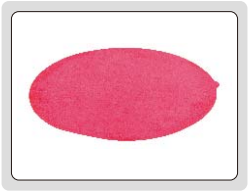
- ABS case and stainless steel parts, anti-corrosion, easy to clean
- Replaceable double wheel, wheel can be controlled independently, rotation direction can be selected
- Smooth rotation, low noise
- Four fixed speeds/stepless adjustable speed
- Water cooling device, prevent samples from overheating and destroying structure
- Metallographic samples can be roughly ground, finely ground, roughly polished and finely polished



MLP-GP280



silicon carbide paper (**optional**)



polishing cloth (**optional**)



magnetic pad (**optional**)



anti-stick disc (**optional**)

SPECIFICATION

Code	MLP-GP270	MLP-GP280
Wheel diameter	Ø203mm	Ø250mm
Wheel rotation speed	0-1400r/min (stepless adjustable)	0-1000r/min (stepless adjustable)
Wheel rotation direction	clockwise or counterclockwise	
Fixed speed	150r/min, 300r/min, 600r/min, 1000r/min	
Power supply	AC 220V, 50Hz	
Input power	1.5kW	
Dimension	758×785×310mm	
Weight	50kg	

STANDARD DELIVERY

Main unit	1 pc
Silicon carbide paper	5 pcs each (240, 400, 800, 1200), 20 pcs in total
Polishing cloth	3 pcs
Polishing agent	1 pc

OPTIONAL ACCESSORY

Silicon carbide paper	**MLP-SZD□□*** (for **MLP-GP270**)	50 pcs/box, select granularity, Ø200mm with adhesive: 120, 180, 240, 400, 600, 800, 1000, 1200, 1500, 2000
	MLP-SZG□□* (for **MLP-GP280**)	50 pcs/box, select granularity, Ø250mm with adhesive: 120, 180, 240, 400, 600, 800, 1000, 1200, 1500, 2000
Polishing cloth	**MLP-CT6** (for **MLP-GP270**)	15 pcs/box, Ø200mm with adhesive, long velvet silk material
	MLP-CT7 (for **MLP-GP280**)	15 pcs/box, Ø250mm with adhesive, long velvet silk material
Diamond polishing liquid	**MLP-DLA□□***	500ml, select granularity (μm): W40, W28, W20, W14, W9, W7, W5, W3.5, W2.5, W1.5, W1.0, W0.5, W0.25
Magnetic pad	**MLP-AD1** (for **MLP-GP270**)	Ø200mm
	MLP-AD2 (for **MLP-GP280**)	Ø250mm
Anti-stick disc	**MLP-DC1** (for **MLP-GP280**)	Ø200mm
	MLP-DC2 (for **MLP-GP280**)	Ø250mm

* □□ is granularity specification, for example, code **MLP-DLA40** stands for 40μm

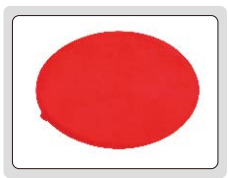
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GRINDER AND POLISHER (BASIC TYPE)
CODE MLP-GP314



- Double wheels, rotation direction can be selected
- Smooth rotation, low noise
- Water cooling device, prevent samples from overheatingand destroying structure
- Replaceable silicon carbide paper and polishing cloth for grinding and polishing process


silicon carbide paper (included)


polishing cloth (included)


anti-stick disc (**optional**)


magnetic pad (**optional**)

SPECIFICATION

Wheel diameter	Ø203mm
Wheel rotation speed	0~1400r/min (stepless adjustable)
Wheel rotation direction	clockwise or counterclockwise
Power supply	AC 220V, 50Hz
Input power	0.75kW
Dimension	755×700×310mm
Weight	50kg

STANDARD DELIVERY

Main unit	1 pc
Silicon carbide paper	5 pcs each (240, 400, 800, 1200), 20 pcs in total
Polishing cloth	4 pcs
Polishing agent	1 pc (W2.5, 500ml)

OPTIONAL ACCESSORY

Silicon carbide paper	**MLP-SZD□□** *	50 pcs/box, select granularity: 120, 180, 240, 400, 600, 800, 1000, 1200, 1500, 2000
Polishing cloth	**MLP-CT6**	15 pcs/box, long velvet silk material
Diamond polishing liquid	**MLP-DLA□□** *	500ml, select granularity (μm): W40, W28, W20, W14, W9, W7, W5, W3.5, W2.5, W1.5, W1.0, W0.5, W0.25
Magnetic pad	**MLP-AD1**	Ø203mm
Anti-stick disc	**MLP-DC1**	Ø203mm

* □□ is granularity specification, for example, code **MLP-DLA40** stands for 40μm

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MOUNTING PRESSES (ADVANCED TYPE)

VIDEO



MLP-MP43



MLP-MP53

- Built-in heating and cooling structure reduces the mounting time to 6 minutes
- The programmed control system reserves 10 customized preparation schemes to meet different mounting requirements
- The thickness of the middle mold is up to 15mm, and 2 samples can be mounted at the same time at one station
- Can accurately control the pressure size, adjustment range: 1~20MPa



hot mounting resin (included)

SPECIFICATION

Code	MLP-MP43	MLP-MP53
Station number	1	2
Power	1100W+heating power *	1200W+heating power×2
Mounting diameter	Ø30mm (customizable Ø25, Ø40, Ø50mm)	
System pressure	1~20MPa, optional increase or decrease 1MPa	
Pressure mode	automatic electro-hydraulic	
Cooling mode	automatic water cooling **	
Heating range	90~200°C	
Holding time	0~10min	
Cooling temperature/time	40~90°C/0~10min	
Power supply	AC 220V, 50Hz	
Dimension	530×485×463mm	671×485×463mm
Weight	44kg	77kg

*Heating power of mounting sleeve: 1800W (mounting diameter≤31.8mm), 2400W (mounting diameter≥38.1mm)
**Cooling water pressure should not be higher than 1MPa, must be filtered through 40μm filter

STANDARD DELIVERY

Main unit	1 pc
Hot mounting resin	1 bottle (250g)
Funnel	1 pc
Filter	1 pc
Vacuum cleaner tip	1 pc

OPTIONAL ACCESSORY

Hot mounting resin (black, 4kg)	MLP-DR3

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MOUNTING PRESS (STANDARD TYPE) CODE MLP-MP30

- Automatic heating, pressuring, cooling and pressure relief
- Water cooling system



hot mounting resin (**optional**)



SPECIFICATION

Diameter of workpiece	Ø30mm
Heating temperature range	100~200°C
Delay range	0~999s
Hold time	0~999s
Cooling temperature	20~90°C
Heating power	600W
Power supply	AC 220V, 50Hz
Dimension	350×450×470mm
Weight	45kg

STANDARD DELIVERY

Main unit	1 pc
Hot mounting resin	1 bottle (250g)
Funnel	1 pc

OPTIONAL ACCESSORY

Hot mounting resin (black, 4kg)	MLP-DR3

MOUNTING PRESS (BASIC TYPE) CODE MLP-MP62

- Suitable for tiny, difficult to handle or irregular metallographic and petrographic samples
- The sample preparation program has three modes: bakelite powder, electric jade powder and user-defined
- The sample preparation program controls the sample preparation time and realizes unattended sample preparation



hot mounting resin (included)



SPECIFICATION

Mounting diameter	Ø30mm (customizable Ø22mm, Ø45mm)
Heating range	room temperature~200°C
Timing range	0~30min
Power	≤800W
Power supply	AC220V, 50Hz
Dimension	440×253×310mm
Weight	32kg

STANDARD DELIVERY

Main unit	1 pc
Hot mounting resin	1 bottle (60g)
Funnel	1 pc

OPTIONAL ACCESSORY

Hot mounting resin (black, 4kg)	MLP-DR3

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VACUUM MOUNTING PRESS
CODE MLP-MP25

- Suitable for epoxy resins and cold mosaic compound of polyester castable
- High efficiency, simple and reliable



cold mounting compound
(**optional**)

VIDEO



SPECIFICATION

Maximum vacuum	-58kPa
Vacuum chamber size	Ø260×125mm
Transposition speed	5r/min
Input power	6W
Power supply	220/110V
Dimension	460×400×403mm
Weight	30kg

STANDARD DELIVERY

Main unit	1 pc
Vacuum pump	1 pc
Ø25mm mold	1 pc
Ø30mm mold	1 pc
Ø40mm mold	1 pc
Ø50mm mold	1 pc
Epoxy resin (400g)	1 pc
Curing agent (200g)	1 pc
Waxed paper tray	10 pcs

OPTIONAL ACCESSORY

Cold mounting compound	MLP-CM1, MLP-CM6
Epoxy resin	MLP-CM3, MLP-CM4

METALLURGICAL MICROSCOPES

REFER TO PAGE
565~567 FOR DETAILS



5102-M600



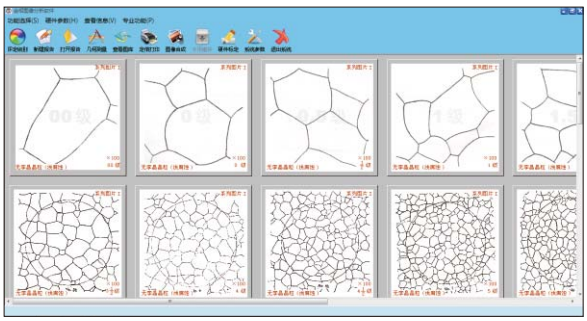
5108-M3000



5103-M1000

METALLURGICAL ANALYSIS SOFTWARE AND CAMERA

REFER TO PAGE
584~585 FOR DETAILS





ISM-MAS100C

DIAMOND BLADES



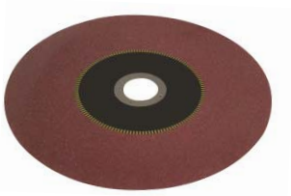
- Specially for precision cutting of carbide, ceramic materials, optical glass and other brittle metal materials

Code	Description	Specification (mm)
MLP-DQ1	1. saw blade is made of edge electroplating 2. used for small workpieces made of crystal, ceramic, glass and alloy materials	Ø100×0.4×12.7
MLP-DQ2		Ø150×0.5×12.7
MLP-DQ3	1. saw blade is made of edge sintering technology 2. used for hard alloy, ceramic, optical glass and other brittle metal materials	Ø100×0.5×20
MLP-DQ4		Ø200×1×32

CUTTING BLADES



MLP-50Z1



MLP-60Y1

- Cutting surfaces are bright and smooth without burning

Code	Application	Cutting blade size	Package (pcs/box)
MLP-10R1	1. light non-ferrous metal 2. high toughness metal (Ti) 3. HV hardness value: 0~250	Ø250×1.5×32mm	60
MLP-10R2		Ø250×2×32mm	50
MLP-10R3		Ø300×2×32mm	50
MLP-10R4		Ø350×2.5×32mm	40
MLP-20R1	1. soft ferrous metal 2. HV hardness value: 50~300	Ø250×1.5×32mm	60
MLP-20R2		Ø250×2×32mm	50
MLP-20R3		Ø300×2×32mm	50
MLP-20R4		Ø350×2.5×32mm	40
MLP-30R1	1. medium soft ferrous metal 2. HV hardness value: 120~500	Ø250×1.5×32mm	60
MLP-30R2		Ø250×2×32mm	50
MLP-30R3		Ø300×2×32mm	50
MLP-30R4		Ø350×2.5×32mm	40
MLP-40Z1	1. medium hardness ferrous metal 2. HV hardness value: 180~600	Ø250×1.5×32mm	60
MLP-40Z2		Ø250×2×32mm	50
MLP-40Z3		Ø300×2×32mm	50
MLP-40Z4		Ø350×2.5×32mm	40
MLP-50Z1	1. hard ferrous metal 2. HV harndess value: 180~700	Ø250×1.5×32mm	60
MLP-50Z2		Ø250×2×32mm	50
MLP-50Z3		Ø300×2×32mm	50
MLP-50Z4		Ø350×2.5×32mm	40
MLP-50Z5		Ø400×3×32mm	25
MLP-50Z6		Ø450×3.2×32mm	25
MLP-50Z7		Ø509×4×38.1mm	10
MLP-50Z8		Ø610×4×38.1mm	10
MLP-60Y1	1. high hardness ferrous metal 2. HV harndess value: 250~900	Ø250×1.5×32mm	60
MLP-60Y2		Ø250×2×32mm	50
MLP-60Y3		Ø300×2×32mm	50
MLP-60Y4		Ø350×2.5×32mm	40

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CUTTING COOLANT

- Free of mineral oil and sodium nitrite, suitable for all kinds of metallographic cutting machines
- Harmless to human health and environment



Code	Description	Specification
MLP-OL1	1. fully synthetic concentrate, used for various types of cutting machines, specially for built-in cooling circulatory system models 2. concentrate, dilute 1:20 with water 3. replace regularly, recommended once a month	1L
MLP-OL2		2L
MLP-OL3		4L
MLP-OL4		6L
MLP-OL5		10L
MLP-OL6	1. oily mixture, use directly 2. cut water sensitive materials at low speed (high speed cutting machine is prohibited) 3. replace regularly, recommended once a month	1L
MLP-OL7		4L

HOT MOUNTING RESIN

- Suitable for small sample preparation



Code	Color	Description	Package (barrel)
MLP-DR1	black	for common sample preparation, fast grinding speed	0.5kg
MLP-DR2			1kg
MLP-DR3			4kg
MLP-DR4	black	edge protection type, low shrinkage, sample binding, high hardness, good wear resistance, slow grinding speed	0.5kg
MLP-DR5			1kg
MLP-DR6			4kg
MLP-DR7	black	carbon phenolic polymer, used in highly conductive fields, medium grinding speed	0.5kg
MLP-DR8			1kg
MLP-DR9	red	for common sample preparation, fast grinding speed	0.5kg
MLP-DR10			1kg
MLP-DR11	white	for common sample preparation, fast grinding speed	0.5kg
MLP-DR12			1kg
MLP-DR13			4kg
MLP-DR14	green	for common sample preparation, fast grinding speed	0.5kg
MLP-DR15			1kg
MLP-DR16			4kg
MLP-DR17	transparent	transparent, soluble, for sample with size, position, depth and other requirements	0.5kg
MLP-DR18			1kg
MLP-DR19			4kg

COLD MOUNTING CONSUMABLES



cold mounting resin



curing agent

Code	Description	Package
MLP-CM1	1. cold mounting compound, fast speed/good transparency/low viscosity/high strength 2. for metal processing without heating, pressure and mounting press 3. curing time: 25°C, 25min 4. usage: cold mounting resin 3:curing agent 2	1. cold mounting resin 1000g 2. curing agent 800ml 3. Ø30mm cold mounting mold 1 pc 4. plastic cup 20 pcs 5. stirring rod 40 pcs, spoon 1 pc
MLP-CM2	1. epoxy resin, low viscosity, good permeability, completely transparent 2. for samples which can not be heated or mounting pressed, like PCB, SMT and other micro-slice samples 3. curing time: 25°C, 5~6h 4. usage: resin liquid 2:curing agent 1	1. resin liquid1000ml 2. curing agent 500ml 3. Ø30mm cold mounting mold 1 pc 4. plastic cup 20 pcs 5. stirring rod 40 pcs
MLP-CM3	1. fast epoxy, fast curing products, completely transparent 2. for samples which can not be heated or mounting pressed, like PCB, SMT and other micro-slice samples 3. curing time: 25°C, 1h 4. usage: resin liquid 2:curing agent 1	1. resin liquid1000ml 2. curing agent 500ml 3. Ø30mm cold mounting mold 1 pc 4. plastic cup 20 pcs 5. stirring rod 40 pcs
MLP-CM4	1. low viscosity epoxy, good permeability, completely transparent 2. for samples which can not be heated or mounting pressed, like PCB, SMT and other micro-slice samples 3. curing time: 25°C, 3~4h 4. usage: resin liquid 2:curing agent 1	1. resin liquid1000ml 2. curing agent 500ml 3. Ø30mm cold mounting mold 1 pc 4. plastic cup 20 pcs 5. stirring rod 40 pcs
MLP-CM5	1. low heat release epoxy, small, shrink, completely transparent 2. for samples which can not be heated or mounting pressed, like PCB, SMT and other micro-slice samples 3. curing time: 25°C, 20~24h 4. usage: resin liquid 3:curing agent 1	1. resin liquid 1000ml, 2. curing agent 300ml 3. Ø30mm cold mounting mold 1 pc 4. plastic cup 20 pcs, 5. stirring rod 40 pcs
MLP-CM6	1. cold mounting compound, fast speed/ceramics white/low viscosity/high strength 2. for metal processing without heating, pressure and mounting press 3. curing time: 25°C, 25min 4. usage: cold mounting resin 3:curing agent 2	1. cold mounting resin 1000g 2. curing agent 800ml 3. Ø30mm cold mounting mold 1 pc 4. plastic cup 20 pcs 5. stirring rod 40 pcs, spoon 1 pc

COLD MOUNTING MOLDS

Code	Description	Specification (mm)
MLP-QM1	round soft mold, for cold embedding of epoxy resin, cold mounting resin on metallographic slice specimens	Ø20×18
MLP-QM2		Ø25×18
MLP-QM3		Ø30×18
MLP-QM4		Ø40×23
MLP-QM5		Ø50×23
MLP-QM6	square soft mold, for cold embedding of epoxy resin, cold mounting resin on metallographic slice specimens	55×20×22
MLP-QM7		70×40×22
MLP-QM8	round hard mold, for cold embedding of epoxy resin, cold mounting resin on metallographic slice specimens	Ø25×23
MLP-QM9		Ø30×27
MLP-QM10		Ø32×27
MLP-QM11		Ø40×29



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MOUNTING DISCHARGING AGENT



Code	Description	Specifications
MLP-RA	for hot mounting press and cold mounting mold discharging	200ml/bottle

SLICE CLIPS



MLP-QP1



MLP-QP2

Code	Description	Specifications
MLP-QP1	stainless steel roll slice clip, for hot and cold mounting fixing	100 pieces/pack
MLP-QP2	PET roll slice clip, for hot and cold mounting fixing	100 pieces/pack

DIAMOND POLISHING LIQUID

- For surface grinding and polishing of metallographic, lithographic, ferrous and non-ferrous metals, ceramics, composite materials, gems, instruments, optical glass of high finish
- Compared with ordinary polishing agent, under the same grinding and polishing quality, consumption is saved 30%, time is saved 60%



Code	Description	Granularity (μm)	Package/Bottle
MLP-DLA□□*	1. single crystal, water-based, ethylene glycol-based polishing lubricant formulation 2. for general metallographic preparation	40, 30, 28, 20, 14, 10, 9, 7, 6, 5, 3.5, 3, 2.5, 1.5, 1.0, 0.5, 0.25	500ml
MLP-DLB□□*	1. single crystal, water-based, propylene glycol-based polishing lubricant formulation 2. for grinding and polishing of soft and ductile materials	30, 20, 15, 14, 9, 7, 6, 5, 3, 2.5, 1.5, 1.0, 0.5, 0.25	500ml
MLP-DLC□□*	1. single crystal, water-based, propylene glycol-based polishing lubricant formulation 2. for ultra-precision polishing	0.05	500ml
MLP-DLD□□*	1. single crystal, oil-based, solvent-based polishing lubricant formulation 2. for grinding and polishing of soft materials and materials which cannot touch water	20, 14, 9, 7, 5, 3.5, 2.5, 1.5, 1.0, 0.5, 0.25	500ml
MLP-DLE□□*	1. polycrystalline, water-based, propylene glycol based polishing lubricant formula 2. for grinding and polishing of different materials and hardness components	9, 6, 3, 1.0, 0.5, 0.25	500ml
MLP-DLF□□*	1. polycrystalline, water-based, denatured ethanol based polishing lubricant formula 2. for grinding and polishing of materials which cannot touch water	9, 6, 3, 1.0, 0.5, 0.25	500ml

*□□ is granularity specification, for example, code **MLP-DLA40** stands for diamond polishing liquid 40μm granularity

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INSIZE

TESTING MACHINES, FORCE GAGES

32



Universal Testing Machines
Page 766-769



Impact Testing Machines
Page 770



Digital Spring Testers
Page 771



Force Gages
Page 772-774



Test Stands For Force Gages
Page 773-777

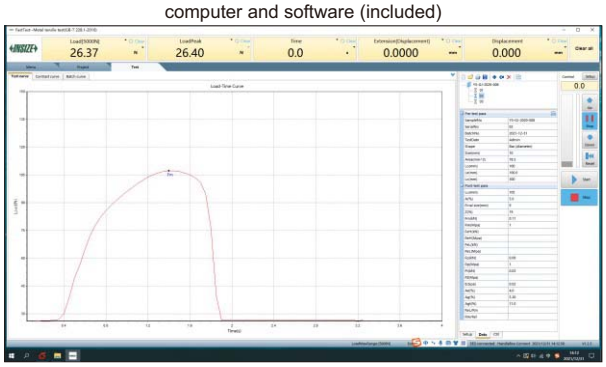


Dial Tension Gages
Page 777

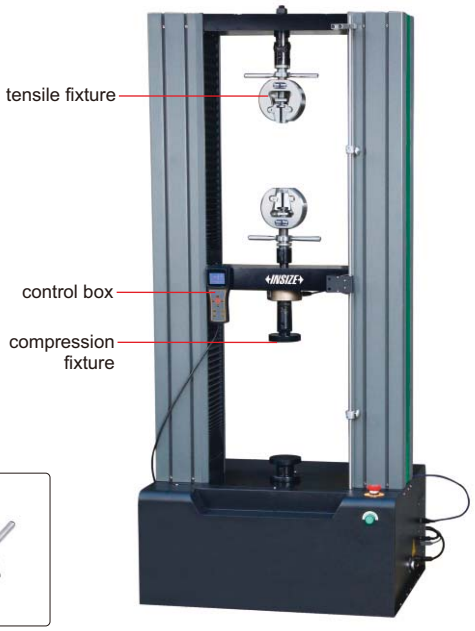
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ELECTRONIC UNIVERSAL TESTING MACHINES

computer and software (included)



VIDEO



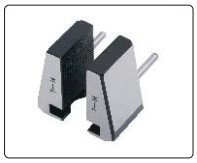
UTM-E50

STANDARD DELIVERY

Main unit	1 pc
Control box	1 pc
Computer	1 pc
Measuring software	1 pc
Printer	1 pc
Wedge tension fixture (including flat jaws and V-shaped jaws) **	1 set
Compression fixture	1 set
Extensometer (only for UTM-E100, UTM-E300)	1 pc



V-shaped jaws (included)



flat jaws (included)

- For tensile, compression, bend, shear, peel, tear tests of metal and non-metal materials

OPTIONAL ACCESSORY

Extensometer

**UTM-E10 does not have V-shaped jaws

SPECIFICATION

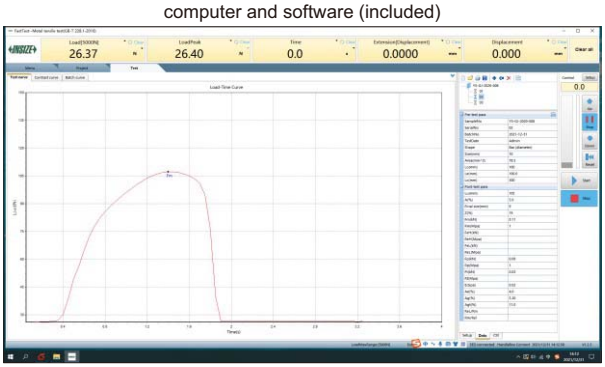
Code	UTM-E10	UTM-E50	UTM-E100	UTM-E300
Max. test force	10kN	50kN	100kN	300kN
Accuracy class	0.5 class			
Test force measurement range	0.2%~100%FS			
Test force measurement accuracy	±0.5% of indicating value			
Resolution of test force measurement	1/300000 of Max. test force (same resolution all the way)			
Deformation measurement range	0.2%~100%FS			
Deformation measurement accuracy	±0.5% of indicating value			
Deformation measurement resolution	1/200000 of Max. deformation, up to 1/300000			
Large deformation measurement range	10~800mm			
Large deformation measurement accuracy	±1% of indicating value			
Large deformation measurement resolution	8μm			
Displacement accuracy	±0.5% of indicating value			
Displacement resolution	0.01mm			
Force control speed adjustment range	0.005~5%FS/s			
Force control speed control accuracy	±2% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)			
Deformation speed adjustment range	0.005~5%FS/s			
Deformation speed control accuracy	±2% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)			
Beam displacement speed adjustment range	0.001~500mm/min			
Beam displacement speed control accuracy	±1% of the set value (speed<0.5mm/min) ±0.2% of the set value (speed≥0.5mm/min)			
Crosshead travel*	1030mm	970mm	1250mm	1000mm
Effective compression travel*	800mm	700mm	700mm	600mm
Horizontal test space*	400mm	440mm	600mm	550mm
Power supply	220V, 50Hz, 0.4kW~1kW		380V, 50Hz, 2kW~5kW	
Demension	715×500×1680mm	820×620×1880mm	1070×855×2180mm	1070×920×2550mm
Weight	230kg	350kg	1000kg	1500kg

*Can be customized according to test requirements

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ELECTRONIC UNIVERSAL TESTING MACHINES

computer and software (included)



VIDEO



UTM-S5KA

- For tensile, peel, tear tests of metal and non-metal materials

STANDARD DELIVERY

Main unit	1 pc
Control box	1 pc
Computer	1 pc
Measuring software	1 pc
Printer	1 pc
Tensile fixture	1 set

OPTIONAL ACCESSORY

Extensometer

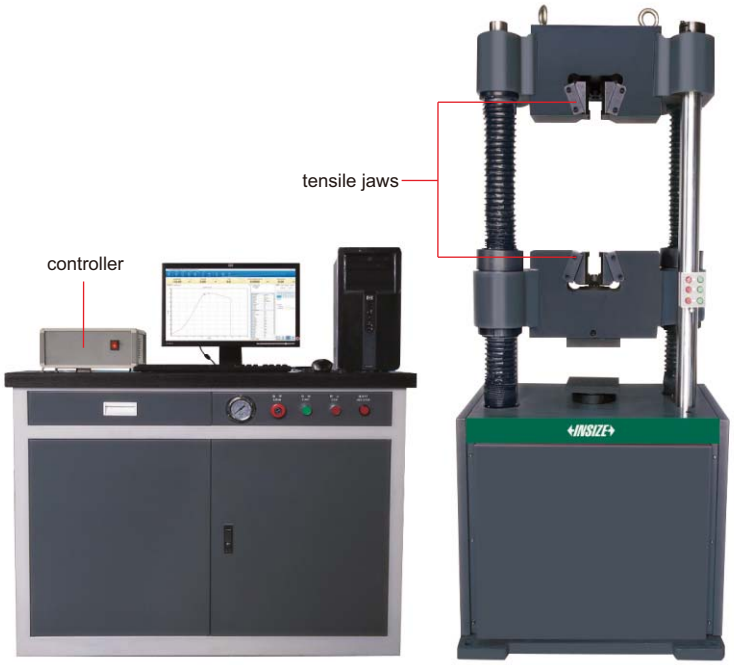
SPECIFICATION

Code	UTM-S200A	UTM-S500A	UTM-S1KA	UTM-S2KA	UTM-S5KA
Max. test force	200N	500N	1kN	2kN	5kN
Accuracy class	0.5 class				
Test force measurement range	0.4%~100%FS				
Test force measurement accuracy	±0.5% of indicating value				
Resolution of test force measurement	1/300000 of Max. test force (same resolution all the way)				
Deformation measurement range	0.2%~100%FS				
Deformation measurement accuracy	±0.5% of indicating value				
Deformation measurement resolution	1/200000 of Max. deformation, up to 1/300000				
Large deformation measurement range	10~800mm				
Large deformation measurement accuracy	±1% of indicating value				
Large deformation measurement resolution	8μm				
Displacement accuracy	±0.5% of indicating value				
Displacement resolution	0.01mm				
Force control speed adjustment range	0.005~5%FS/s				
Force control speed control accuracy	±2% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)				
Deformation speed adjustment range	0.005~5%FS/s				
Deformation speed control accuracy	±2% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)				
Beam displacement speed adjustment range	0.001~500mm/min				
Beam displacement speed control accuracy	±1% of the set value (speed<0.5mm/min) ±0.2% of the set value (speed≥0.5mm/min)				
Crosshead travel*	900mm				
Effective compression travel*	630mm				
Power supply	220V, 50Hz, 0.4kW~1kW				
Demension	510×510×1580mm				
Weight	150kg				

*Can be customized according to test requirements

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HYDRAULIC UNIVERSAL TESTING MACHINES



UTM-H300B

- For tensile, compression, bend, shear tests of metal and non-metal materials

VIDEO

SPECIFICATION

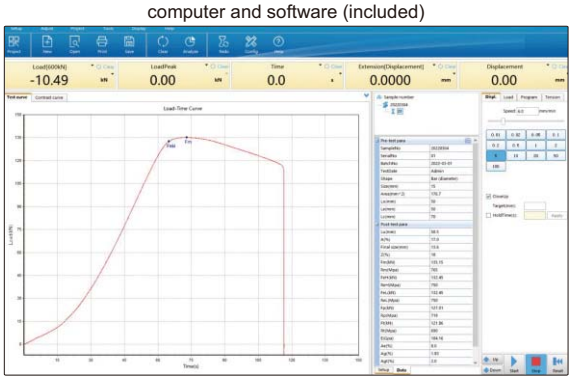
Code		UTM-H300B	UTM-H600B	UTM-H1000B	UTM-H2000B	UTM-H3000B
Max. test force		300kN	600kN	1000kN	2000kN	3000kN
Accuracy		±1%				
Test force measurement range		2%~100%FS				
Resolution of test force measurement		1/300000 of Max. test force (same resolution all the way)				
Deformation measurement device		extensoment				
Deformation measurement range		1%~100%FS				
Deformation measurement accuracy		±1%				
Deformation measurement resolution		1/300000				
Displacement accuracy		±1%				
Displacement resolution		0.01mm				
Displacement travel		200mm				
Max tensile space (including piston stroke)		600mm	600mm	680mm	600mm	900mm
Max compression space (including piston stroke)		500mm	500mm	560mm	500mm	800mm
Transmission mode		chain drive				
Safety protection device		software protection and mechanical limit protection				
Control function		special software, closed-loop of stress, strain and velocity				
Clamping range of round sample		Ø10~32mm	Ø13~40mm	Ø13~60mm	Ø20~70mm	Ø25~80mm
Clamping range of flat sample		0~15mm	0~15mm*	0~20mm**	0~40mm	0~80mm
Upper and lower pressure plate size		Ø188mm	Ø188mm	Ø208mm	Ø208mm	Ø208mm
Bending branch roll width		140mm				
Total power		2.5kW	3.0kW	3.0kW	3.75kW	5.5kW
Power supply		380V, 50Hz				
Demension (mm)	host	800×620×1900	820×650×2000	940×780×2250	1100×760×3000	1250×930×3550
	oil source	1140×600×855				
Weight		2T	2.2T	3T	7.5T	12.6T

*Customizable 0~30mm **Customizable 0~40mm

To be continued

Continued from previous page

computer and software (included)





acrylic safety shield (**optional**)



steel wire safety shield (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Electro hydraulic servo oil source	1 pc
Electro hydraulic servo valve	1 pc
High pressure oil pump	1 pc
Oil pressure sensor	1 pc
Control box	1 pc
Extensometer	1 pc
Computer	1 pc
Measuring software	1 set
Printer	1 pc
Tensile fixture	1 set
Compression fixture	1 set

OPTIONAL ACCESSORY

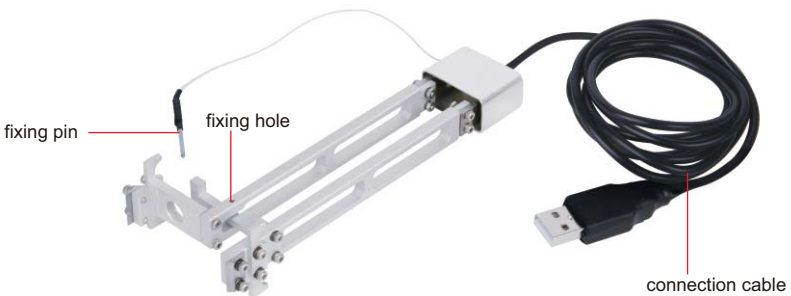
Acrylic safety shield	**UTM-H-COVER1**
Steel wire safety shield	**UTM-H-COVER2**

EXTENSOMETERS

- Used with universal testing machines

SPECIFICATION

Code	Gage length	Deformation
UTM-EX25-5	25mm	5mm
UTM-EX25-10	25mm	10mm
UTM-EX25-25	25mm	25mm
UTM-EX50-5	50mm	5mm
UTM-EX50-10	50mm	10mm
UTM-EX50-25	50mm	25mm
UTM-EX100-5	100mm	5mm
UTM-EX100-10	100mm	10mm
UTM-EX100-25	100mm	25mm
UTM-EX200-5	200mm	5mm
UTM-EX200-10	200mm	10mm
UTM-EX200-25	200mm	25mm
UTM-EX-B	large deformation, customized according to the workpieces	

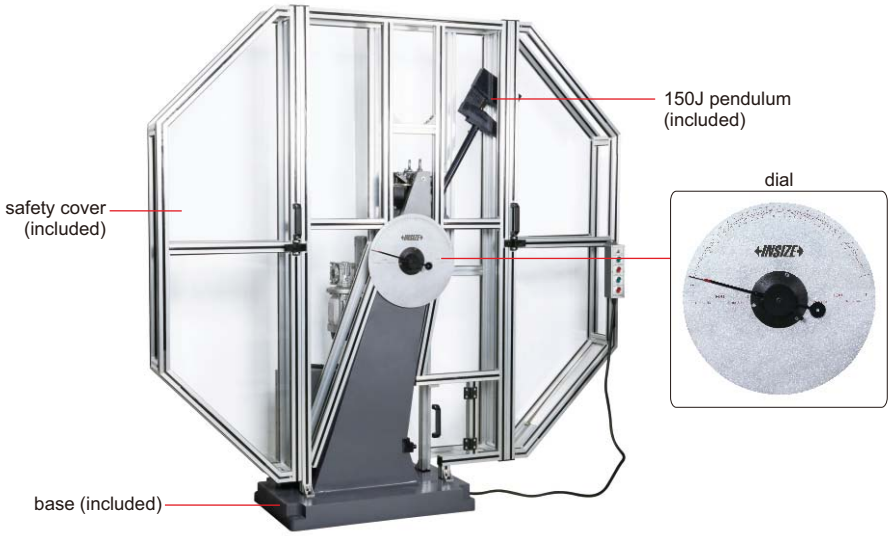


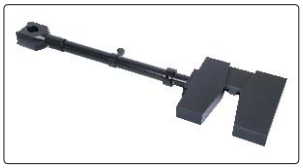
UTM-EX50-10

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SEMI-AUTOMATIC IMPACT TESTING MACHINE
CODE ITM-S300J

VIDEO





300J pendulum (included)

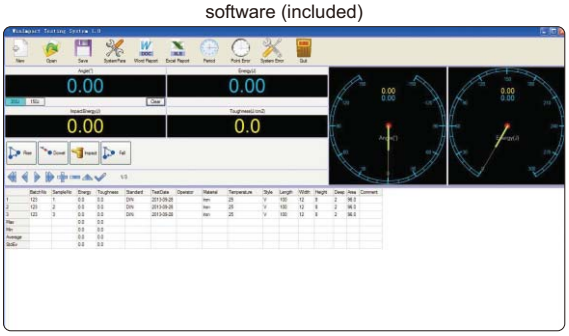


span aligner (included)



specimen center aligner (included)

software (included)



- According to ISO148
- For testing the anti-impact performance of metal materials under dynamic load
- High-precision bearings, small bearing friction, the impact absorption rate of empty pendulum is less than 0.3%
- Alloy steel impact blade, hardness HRC60
- PLC controller with built-in energy loss correction program
- Supplied with safety cover
- Supplied with software for data storage, automatic processing, etc.
- Data can be stored in Excel format, output and printed

SPECIFICATION

Impact energy	300J	150J
Dial range	0~300J	0~150J
Dial graduation	2J	1J
Pendulum moment	M=160.7695N.m	M=80.3848N.m
Pendulum preparing angle	150°	
Distance between pendulum shaft center and specimen center	750mm	
Impact speed	5.2m/s	
Span of specimen seat	40mm	
End face radius of specimen seat	R1.0~1.5mm	
Radius of impact blade	R2.0~2.5mm	
Inclination angle of support surface of specimen seat	11°	
Angle of impact blade	30°	
Thickness of impact blade	16mm	
Range of measuring angle	0~360°	
Angle resolution	≤0.06°	
Specimen size	10x10x55mm	
Base size	800x500mm	
Power supply	AC 380V, 50Hz	
Power	400W	
Dimension of main body	2150x640x1400mm	
Weight	420kg	

STANDARD DELIVERY

Main unit	1 pc
150J pendulum	1 pc
300J pendulum	1 pc
Span aligner	1 pc
Specimen center aligner	1 pc
Safety cover	1 set
Computer	1 set
Software	1 set
Printer	1 pc

OPTIONAL ACCESSORY

Workbench	**7911-15**

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VIDEO

DATA OUTPUT

DIGITAL SPRING TESTERS

- Peak hold and automatic release function
- Set upper and lower limits, red and green indicator and buzzer alarm
- Automatic conversion of three units: N, kgf, lbf
- Built in printer
- Automatic power off



ISF-S10



ISF-S500



ISF-S1000

SPECIFICATION

Code	ISF-S10	ISF-S20	ISF-S30	ISF-S50	ISF-S100	ISF-S200
Maximum load	10N	20N	30N	50N	100N	200N
Resolution	0.001N	0.002N	0.01N	0.01N	0.02N	0.05N
Range of digital scale	65mm	65mm	65mm	95mm	95mm	95mm
Resolution of digital scale	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Disk diameter	Ø30mm	Ø30mm	Ø30mm	Ø49mm	Ø49mm	Ø49mm
Maximum free length of spring	65mm	65mm	65mm	95mm	95mm	95mm
Measuring range of force	5%~100% (maximum load)					
Accuracy of force	±1% (maximum load)					
Data output	RS232					
Power supply	220V, 50/60Hz					
Dimension	300×235×600mm	300×235×600mm	300×235×600mm	300×235×620mm	300×235×620mm	300×235×620mm
Weight	13.2kg	13.2kg	13.2kg	17.3kg	19.1kg	19.1kg

Code	ISF-S300	ISF-S500	ISF-S1000	ISF-S2000	ISF-S5000
Maximum load	300N	500N	1000N	2000N	5000N
Resolution	0.1N	0.1N	0.2N	0.5N	1N
Range of digital scale	95mm	95mm	150mm	150mm	150mm
Resolution of digital scale	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Disk diameter	Ø49mm	Ø49mm	Ø108mm	Ø108mm	Ø108mm
Maximum free length of spring	95mm	95mm	200mm	200mm	200mm
Measuring range of force	5%~100% (maximum load)				
Accuracy of force	±1% (maximum load)				
Data output	RS232				
Power supply	220V, 50/60Hz				
Dimension	300×235×620mm	300×235×620mm	490×300×920mm	490×300×920mm	490×300×920mm
Weight	19.1kg	20.8kg	47.5kg	47.5kg	47.5kg

STANDARD DELIVERY

Main unit	1 pc

DIGITAL FORCE GAGES (HIGH ACCURACY)

DATA OUTPUT

INSPECTION CERTIFICATE



software flash disk (included)

printer (**optional**)





ISF-DF100A
type A



ISF-DF5KA
type B



ISF-DF10KC
type C

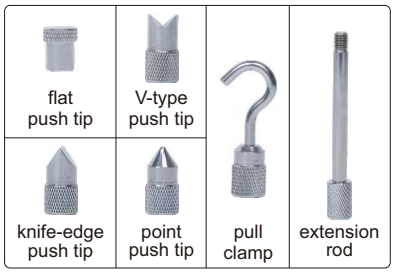
- Type A and B can be used for tension and pressure tests, type C is only used for pressure tests
- Peak (max.) and tracking mode
- Units for type A: mN, N, gf, kgf, ozf, lbf,
  type B: N, kgf, lbf, kN, MPa,
  type C: N, kgf, lbf, kN, tf, MPa
- Tolerance testing
- 1000 memories
- Automatic power off
- Metal case, touch buttons
- LCD display with backlight
- The display flips over when the bottom faces up
- Overload alarm
- Keyboard signal, can be transmitted to Excel

VIDEO

accessory for type B (included)



accessory for type A (included)



SPECIFICATION

Code	ISF-DF5A	ISF-DF10A	ISF-DF20A	ISF-DF50A	ISF-DF100A	ISF-DF200A	ISF-DF500A	ISF-DF1KA
Type	A (internal sensor)							
Load capacity (N)	5	10	20	50	100	200	500	1000
Resolution (N)	0.0005	0.001	0.005	0.005	0.01	0.05	0.05	0.1
Accuracy	±0.2% (of load capacity)							
Power supply	built-in rechargeable battery							

Code	ISF-DF1KB	ISF-DF2KA	ISF-DF5KA	ISF-DF10KA	ISF-DF20KA
Type	B (external sensor)				
Load capacity (N)	1000	2000	5000	10000	20000
Resolution (N)	0.1	0.5	0.5	1	5
Accuracy	±0.2% (of load capacity)				
Power supply	built-in rechargeable battery				

Code	ISF-DF10KC	ISF-DF20KC	ISF-DF50KC	ISF-DF100KC	ISF-DF200KC
Type	C (external sensor)				
Load capacity (kN)	10	20	50	100	200
Resolution (kN)	0.001	0.005	0.005	0.01	0.05
Accuracy	±0.2% (of load capacity)				
Power supply	built-in rechargeable battery				

STANDARD DELIVERY

Main unit		1 pc
AC/DC adapter		1 pc
Software and USB cable		1 pc
Push/pull accessory	type A	6 pcs (flat push tip, V-type push tip, knife-edge push tip, point push tip, pull clamp, extension rod)
	type B	4 pcs (flat push tip, adapter, pull clamps)

OPTIONAL ACCESSORY

Printer	ISF-DF-PRINTER
Test stand	ISF-MT1K

DATA OUTPUT

INSPECTION CERTIFICATE

DIGITAL FORCE GAGES



software flash disk (included)



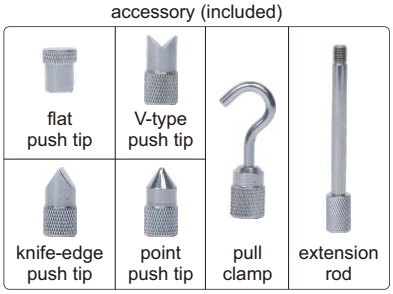
ISF-1DF100

printer (**optional**)



VIDEO

accessory (included)



- Push and pull test
- Units: N, gf, kgf, ozf, lbf
- 500 memories
- Automatic power off
- Metal case
- LCD display with backlight
- The display flips over when the bottom faces up
- Overload alarm

SPECIFICATION

Code	ISF-1DF10	ISF-1DF50	ISF-1DF100	ISF-1DF500	ISF-1DF1000
Load capacity (N)	10	50	100	500	1000
Resolution (N)	0.01	0.01	0.1	0.1	1
Accuracy	±0.3% (of load capacity)				
Measuring mode	tracking, peak (max.), tolerance testing				
Power supply	built-in rechargeable battery				
Dimension	150×73×33mm				
Weight	450g				

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
Software and USB cable	1 pc
Push/pull accessory	6 pcs (flat push tip, V-type push tip, knife-edge push tip, point push tip, pull clamp, extension rod)

OPTIONAL ACCESSORY

Printer	ISF-DF-PRINTER
Test stand	ISF-MT1K

TEST STAND FOR DIGITAL FORCE GAGE CODE ISF-MT1K

- For digital force gages (code **ISF-1DF**□□□ and **ISF-DF**□□□)
- To be used in vertical and horizontal orientation



force gage is optional

VIDEO



digital scale (**optional**)



horizontal orientation test

SPECIFICATION

Load capacity	1000N
Travel	200mm (3mm vertical movement per revolution of handwheel)
Dimension	196x250x446mm
Weight	13kg

OPTIONAL ACCESSORY

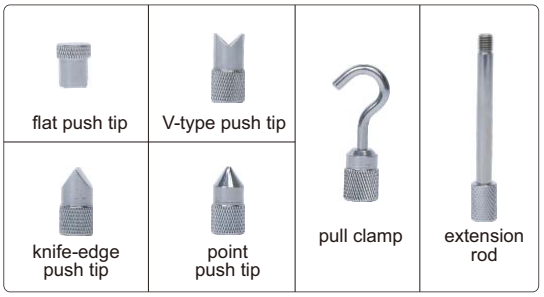
Digital scale (range: 200mm, resolution: 0.01mm/0.0005")	ISF-MT1K-SCALE

FORCE GAGES



ISF-F500

accessory (included)



- Push and pull test
- Peak (max.) or tracking mode

SPECIFICATION

Code		ISF-F10	ISF-F20	ISF-F30	ISF-F50	ISF-F100	ISF-F200	ISF-F300	ISF-F500
Capacity	N	10	20	30	50	100	200	300	500
	kgf	1	2	3	5	10	20	30	50
Graduation	N	0.05	0.1	0.2	0.25	0.5	1	2	2.5
Accuracy		±1% (of load capacity)							

STANDARD DELIVERY

Main unit	1 pc
Push tip	4 pcs (flat, V-type, knife-edge, point)
Pull clamp	1 pc
Extension rod	1 pc

OPTIONAL ACCESSORY

Test stand	ISF-MT500

TEST STAND FOR FORCE GAGE CODE ISF-MT500

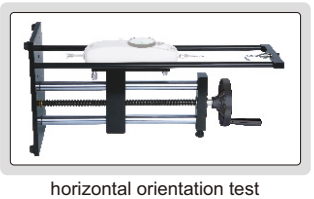
- For force gages (code **ISF-F□□□**)
- To be used in vertical and horizontal orientation

force gage is optional



SPECIFICATION

Load capacity	500N
Travel	150mm (3mm vertical movement per revolution of handwheel)
Dimension	160×240×460mm
Weight	12kg



horizontal orientation test

MOTORIZED VERTICAL TEST STAND
CODE ISF-RV61

- For digital force gages (code **ISF-1DF□□□** and **ISF-DF□□□**)
- Push and pull test
- Automatic and manual test
- Programmable automatic operation (automatic cycle)
- Four operation modes: displacement cycle (D cycle), force cycle (F cycle), demo (teaching & playback) mode and positioning mode
- Alarm indications: stroke overrange alarm, force overrange alarm, motor block alarm

digital force gage is optional



SPECIFICATION

Load capacity	650N (250lbf, 65kg)
Max. travel	220mm
Resolution of displacement	0.01mm
Accuracy of displacement	±0.3mm
Range of adjustable speed	30~720mm/min
Resolution of speed	1mm/min
Accuracy of speed	±2%
Data output	USB, RS232
Work temperature and relative humidity	10~40°C, 10%~80%RH
Power supply	100~230V
Dimension	340×180×630mm
Weight	15.5kg

STANDARD DELIVERY

Test stand	1 pc
AC/DC adapter	1 pc
MD8 cable (for force gages)	1 pc
Software and USB cable	1 pc

MOTORIZED HORIZONTAL TEST STAND
CODE ISF-RH62

- For digital force gages (code **ISF-1DF□□□** and **ISF-DF□□□**)
- Push and pull test
- Automatic and manual test
- Programmable automatic operation (automatic cycle)
- Four operation modes: displacement cycle (D cycle), force cycle (F cycle), demo (teaching & playback) mode and positioning mode
- Alarm indications: stroke overrange alarm, force overrange alarm, motor block alarm

digital force gage is optional



SPECIFICATION

Load capacity	650N (250lbf, 65kg)
Max. travel	220mm
Resolution of displacement	0.01mm
Accuracy of displacement	±0.3mm
Range of adjustable speed	30~720mm/min
Resolution of speed	1mm/min
Accuracy of speed	±2%
Data output	USB, RS232
Work temperature and relative humidity	10~40°C, 10%~80%RH
Power supply	100~230V
Dimension	671×120×278mm
Weight	13kg

STANDARD DELIVERY

Test stand	1 pc
AC/DC adapter	1 pc
MD8 cable (for force gages)	1 pc
Software and USB cable	1 pc

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MANUAL VERTICAL TEST STANDS FOR FORCE GAGES

ATTENTION:
ONLY FOR PRESS TEST

VIDEO

force gage
is optional



ISF-V10A

- For press test with force gages

SPECIFICATION

Code	ISF-V10A	ISF-V10D
Apply to	dial force gages (code **ISF-F□□□**)	digital force gages (code **ISF-1DF□□□** and **ISF-DF□□□**)
Load capacity	500N	
Maximum workpiece height	280mm	
Travel	70mm	
Dimension	152×235×425mm	
Weight	10.7kg	

MANUAL HORIZONTAL TEST STANDS FOR FORCE GAGES

ATTENTION:
ONLY FOR PULL TEST

VIDEO

force gage
is optional



ISF-H20A

- For pull test with force gages

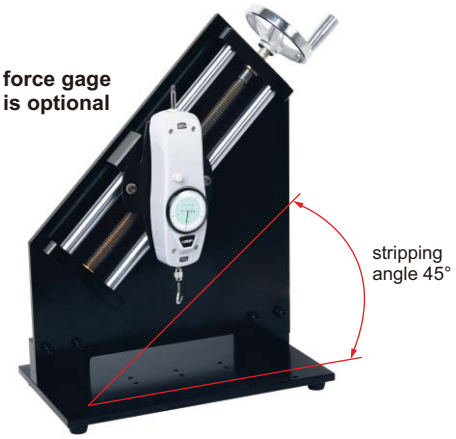
SPECIFICATION

Code	ISF-H20A	ISF-H20D
Apply to	dial force gages (code **ISF-F□□□**)	digital force gages (code **ISF-1DF□□□** and **ISF-DF□□□**)
Load capacity	500N	
Travel	60mm	
Dimension	450×185×170mm	
Weight	9kg	

MANUAL STRIPPING FORCE TEST STANDS

VIDEO

- For stripping force test with force gages



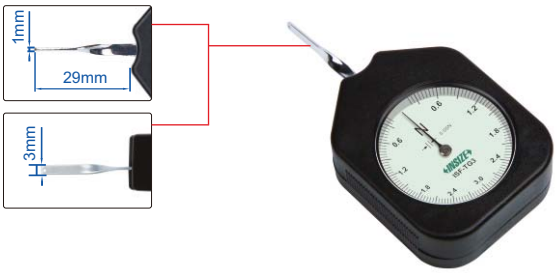
ISF-P30A

SPECIFICATION

Code	ISF-P30A	ISF-P30D
Apply to	dial force gages (code **ISF-F□□□**)	digital force gages (code **ISF-1DF□□□** and **ISF-DF□□□**)
Load capacity	500N	
Horizontal travel	170mm	
Dimension	420×215×480mm	
Weight	22kg	

DIAL TENSION GAGES

- Clockwise and counter-clockwise use
- For electronic and precision mechanical industry, such as test the contact pressure of relay, adjust the tension or compression of spring



VIDEO

ISF-TG3

SPECIFICATION (Unit: N)

Code	ISF-TGD1	ISF-TGD3	ISF-TGD5	ISF-TG1	ISF-TG1D5	ISF-TG3	ISF-TG5
Range (N)	0.01~0.1	0.03~0.3	0.05~0.5	0.1~1	0.15~1.5	0.3~3	0.5~5
Graduation (N)	0.002	0.005	0.01	0.02	0.025	0.05	0.1
Accuracy	±2% (full scale)						
Dimension (L×W×H)	90×47×19mm						
Weight	60g						

SPECIFICATION (Unit: gf)

Code	ISF-TG10	ISF-TG30	ISF-TG50	ISF-TG100	ISF-TG150	ISF-TG300	ISF-TG500
Range (gf)	1~10	3~30	5~50	10~100	15~150	30~300	50~500
Graduation (gf)	0.2	0.5	1	2	2.5	5	10
Accuracy	±2% (full scale)						
Dimension (L×W×H)	90×47×19mm						
Weight	60g						

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33 TORQUE TESTERS, TORQUE WRENCHES

INSIZE



Digital Torque Testers
Page 779



Bottle Cap Torque Testers
Page 779



Digital Torque Testers
Page 780-781



Torque Wrench Test Stands
Page 782



Torque Screwdrivers
Page 782-784



Torque Wrenches
Page 785-797



Torque Adapters
Page 798

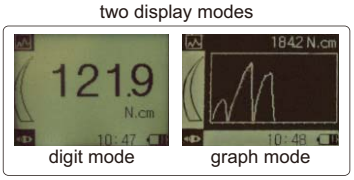


Torque Multipliers
Page 799-801

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DIGITAL TORQUE TESTERS

two display modes





software flash disk (included)

- External sensor
- Metal case, touch buttons
- Clockwise and counter-clockwise operation
- Test mode: track, peak, first peak, preset tolerance
- Unit: N.m, N.cm, kgf.cm, lbf.in, lbf.ft
- Set tolerance with judgement
- 1000 memories
- LCD display with backlight, can automatically turn 180°
- Overload alarm
- Automatic power off

DATA OUTPUT

VIDEO



IST-DTT5

SPECIFICATION

Code	IST-DTT1	IST-DTT5	IST-DTT10
Load capacity	0.05~1N.m	0.25~5N.m	0.5~10N.m
Resolution	0.0001N.m	0.0005N.m	0.001N.m
Max. clamping diameter	Ø10mm	Ø10mm	Ø13mm
Sampling frequency	2000 times per second		
Accuracy	±0.3% (of load capacity)		
Output	USB, RS232, alarm signal		
Power supply	built-in rechargeable battery		
Dimension	145x73x34mm		
Weight	1.4kg		

STANDARD DELIVERY

Main unit	1 pc
External sensor	1 pc
AC/DC adapter	1 pc
Software and USB cable	1 pc

OPTIONAL ACCESSORY

Printer	ISF-DF-PRINTER
RS232 cable	IST-DTT-CABLE



printer (**optional**)

DIGITAL BOTTLE CAP TORQUE TESTERS

VIDEO

DATA OUTPUT

- Measure the opening and tightening torque of bottle caps
- Unit: N.m, N.cm, kgf.cm, lbf.in, lbf.ft
- 1500 memories
- Wireless connection to printer
- Automatic power off
- LCD display with backlight
- Overload alarm
- With calibration function



IST-DCT20

two display modes





software flash disk (included)



printer (**optional**)

SPECIFICATION

Code	IST-DCT2	IST-DCT5	IST-DCT10	IST-DCT20
Load capacity	2N.m	5N.m	10N.m	20N.m
Resolution	0.0002N.m	0.0005N.m	0.001N.m	0.002N.m
Clamping range	Ø19.5~190mm			
Accuracy	±0.5% (of load capacity)			
Measuring mode	tracking, peak (max.), first peak, double peak, tolerance testing			
Output	wireless and USB			
Power supply	built-in rechargeable battery			
Dimension	200×197×142mm			
Weight	2.5kg			

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
Software and USB cable	1 pc

OPTIONAL ACCESSORY

Printer	ISH-DS-PRINTER

DIGITAL TORQUE TESTERS

ATTENTION: NOT SUITABLE FOR ELECTRIC WRENCHES, IMPACT WRENCHES OR PNEUMATIC WRENCHES



IST-04TT350
type A



IST-04TT815
type B

- Test torque wrenches, torque screwdrivers and other torque tools
- Clockwise operation
- Peak, track and first peak working modes
- Tolerance testing
- LED indicator for target torque alarm:
  – Green LED light on when the value is within tolerance;
  – Red LED light on when the value is above the high tolerance
- Power off automatically in 2 minutes without any operations

VIDEO



adaptor
(type A included)

SPECIFICATION

Code	IST-04TT5	IST-04TT28	IST-04TT68	IST-04TT350	IST-04TT815	IST-04TT1000	IST-04TT2000
Type	A				B		
Range	0.5~5N.m	2.8~28N.m	6.8~68N.m	35~350N.m	81.5~815N.m	100~1000N.m	200~2000N.m
Accuracy	±1% (clockwise)						
Resolution	0.001N.m	0.01N.m	0.01N.m	0.1N.m	0.1N.m	1N.m	1N.m
Unit	N.m, in.lb, ft.lb, kg.cm					N.m, ft.lb	
Square socket/hex driver	1/4"	3/8"	3/8"	1/2"	27mm	27mm	27mm
Adaptor	no	3/8" to 1/4"	3/8" to 1/4"	1/2" to 3/8" 3/8" to 1/4"	no		
Power supply	DC						
Weight	0.75kg	0.75kg	1.1kg	1.1kg	5.1kg	5.1kg	5.1kg

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
Adaptor	refer to details

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DIGITAL TORQUE TESTERS

ATTENTION: NOT SUITABLE FOR ELECTRIC WRENCHES, IMPACT WRENCHES OR PNEUMATIC WRENCHES

VIDEO



IST-TT550

- With external sensor, to test torque wrenches, torque screwdrivers and other torque tools
- Clockwise and counter-clockwise operation
- Peak, track and first peak working modes
- Unit: N.m, in.lb, ft.lb, kg.cm
- Tolerance testing
- LED indicator for target torque alarm:
  – Yellow LED light on when the value is below the low tolerance; green LED light on when the value is within tolerance; red LED light on when the value is above the high tolerance
  – The buzzer alarms when the maximum torque value is captured in the first peak mode
- Automatic power off


extension cable (included)


adaptor (included)


with 3 mounting holes on the bottom

SPECIFICATION

Code	IST-TT05	IST-TT5	IST-TT30	IST-TT50	IST-TT220	IST-TT550	IST-TT1000	IST-TT2200
Range	0.1~0.5N.m	0.5~5N.m	3~30N.m	5~50N.m	22~220N.m	55~550N.m	100~1000N.m	220~2200N.m
Accuracy	±1% (clockwise and counter-clockwise)							
Resolution	0.0001N.m	0.0001N.m	0.001N.m	0.001N.m	0.01N.m	0.01N.m	0.1N.m	0.1N.m
Square socket (L)	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1"
Power supply	DC							
Adaptor	no	no	3/8" to 1/4"	3/8" to 1/4"	1/2" to 3/8" 3/8" to 1/4"	3/4" to 1/2" 1/2" to 3/8"	1" to 3/4" 3/4" to 1/2" 1/2" to 3/8"	1" to 3/4" 3/4" to 1/2"
Transducer dimension	63×63 ×65mm	63×63 ×65mm	89×89 ×75mm	89×89 ×75mm	109×109 ×83mm	140×140 ×107mm	160×160 ×126mm	160×160 ×126mm
Weight	0.75kg	0.75kg	1.1kg	1.1kg	1.4kg	2.9kg	5.0kg	5.1kg

STANDARD DELIVERY

Main unit	1 pc
Transducer with 1.5m cable	1 pc
Extension cable (1.2m)	1 pc
AC/DC adapter	1 pc
Adaptor	refer to details

TORQUE WRENCH TEST STANDS

application example





IST-06TS350

- Rotate the wheel to apply force. Rotary speed is adjustable
- Easy operation due to the gear box
- Used with digital torque testers (**IST-TT** series)

SPECIFICATION

Code	IST-06TS350	IST-06TS1100	IST-06TS2000
Max. torque value	350N.m	1100N.m	2000N.m
Arm length	197~686mm	380~1350mm	420~1690mm
Dimension	860×290×590mm	1760×350×590mm	2090×350×590mm
Weight	32.5kg	76kg	80kg

Can be customized according to test requirements



digital torque tester (**optional**)

OPTIONAL ACCESSORY

Digital torque tester	**IST-TT series**
Adaptor	**IST-06TS-BLOCK1** (necessary for **IST-TT05**, **IST-TT5**, **IST-TT30**, **IST-TT50** and **IST-TT220**)
	IST-06TS-BLOCK2 (necessary for **IST-TT550**, **IST-TT1000** and **IST-TT2200**)

DIGITAL TORQUE SCREWDRIVERS

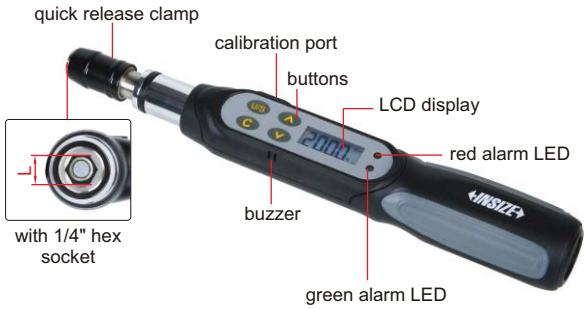
INSPECTION CERTIFICATE



phillips screwdriver bits (included)



hex screwdriver bits (included)



IST-SD200

- Clockwise and counter-clockwise operation
- Unit: cN.m, in.lb, kg.cm
- Peak and track working modes
- Target torque value can be set, with audible and visible alarm:
  – Green LED light on and buzzer sounds when target torque value is 90%~100% of target torque
  – Red LED light on and buzzer sounds when target torque value is reached
- Power off automatically in 5 minutes without any operations

SPECIFICATION

Code		IST-SD50	IST-SD200	IST-SD400
Range		10~50cN.m	40~200cN.m	80~400cN.m
Accuracy	clockwise	±3%	±2.5%	±2.5%
	counter-clockwise	±4%	±3.5%	±3.5%
Resolution		0.1cN.m	0.1cN.m	0.1cN.m
Size of hex socket (L)		1/4"	1/4"	1/4"
Power supply		1×AAA battery		
Length		193mm	203mm	203mm
Weight		190g	200g	200g

STANDARD DELIVERY

Torque screwdriver	1 pc
Phillips screwdriver bits	1 pc
Hex screwdriver bits	1 pc

OPTIONAL ACCESSORY

Calibration cable	**IST-SD-CABLE**

BUILT-IN BLUETOOTH

INSPECTION CERTIFICATE

BLUETOOTH DIGITAL TORQUE SCREWDRIVERS (KEYBOARD SIGNAL)

VIDEO



IST-3SD50



IST-3SD200
IST-3SD400

Torque screwdrivers:

- Clockwise and counter-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working modes
- Target torque value can be set, with audible and visible alarm:
  – LED lights up in sequence and the buzzer sounds when target torque value is 80%~99.5% of target torque
  – Both green and red LED light on and buzzer sounds when target torque value is reached
- Power off in 2 minutes automatically

Data transmission:

- Built-in Bluetooth module, which can be connected with computers (with Bluetooth function), mobile phones, tablets and other devices
- Keyboard signal, can be transmitted to Excel
- Transmission distance is 10 meters (no obstacles, no electromagnetic interference)
- Bluetooth connection and disconnection are respectively shown by indicator lights

SPECIFICATION

Code		IST-3SD50	IST-3SD200	IST-3SD400
Range		0.1~0.5N.m	0.4~2N.m	0.8~4N.m
Accuracy	clockwise	±3%	±2.5%	±2.5%
	counter-clockwise	±4%	±3.5%	±3.5%
Resolution		0.001N.m	0.001N.m	0.001N.m
Size of hex socket (L)		1/4"	1/4"	1/4"
Power supply		2×AAA batteries		
Length		193mm	193mm	193mm
Weight		304g	304g	383g



phillips screwdriver bits (included)



hex screwdriver bits (included)

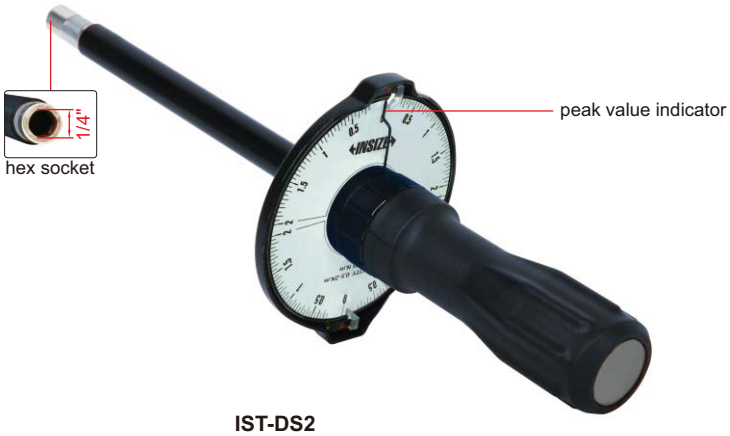
STANDARD DELIVERY

Torque screwdriver	1 pc
Phillips screwdriver bits	1 pc
Hex screwdriver bits	1 pc
Wrench (only for IST-3SD200, IST-3SD400)	1 pc

OPTIONAL ACCESSORY

Calibration cable	IST-SD-CABLE

DIAL TORQUE SCREWDRIVERS



IST-DS2

- Clockwise and counter-clockwise operation
- With peak value indicator

SPECIFICATION

Code	IST-DS02	IST-DS05	IST-DS1	IST-DS2	IST-DS5
Range	0.05~0.2N.m	0.1~0.5N.m	0.2~1N.m	0.5~2N.m	1~5N.m
Graduation	0.005N.m	0.01N.m	0.02N.m	0.05N.m	0.1N.m
Head	1/4" hex socket				
Accuracy	±6%				
Length	152mm	273mm	273mm	273mm	273mm
Weight	170g	400g	400g	400g	400g

TORQUE SCREWDRIVERS

ATTENTION: CLOCKWISE OPERATION ONLY



T-bar wrench
(for **IST-MG250**, **IST-MG360**, **IST-MG600**)



IST-MG100

SPECIFICATION

Code	IST-MG100	IST-MG250	IST-MG360	IST-MG600
Range (clockwise)	20~100cN.m	50~250cN.m	60~360cN.m	1.0~6.0N.m
Graduation	2cN.m	5cN.m	5cN.m	0.1N.m
Head	1/4" hex socket			
Accuracy	±6%			
Length	172mm			
Weight	0.26kg			

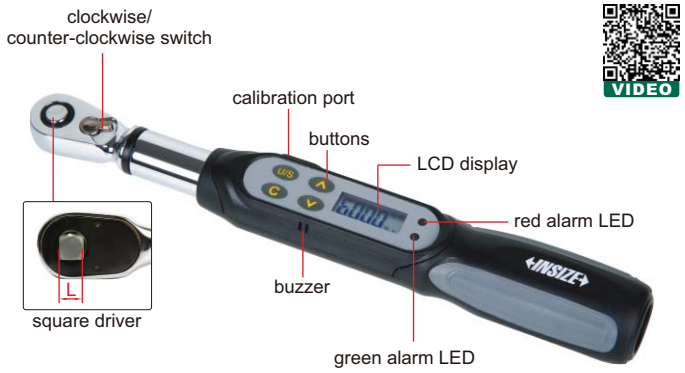
STANDARD DELIVERY

Torque screwdriver	1 pc
T-bar wrench (for IST-MG250, IST-MG360, IST-MG600)	1 pc

INSPECTION CERTIFICATE

SMALL RANGE DIGITAL TORQUE WRENCH

- Clockwise and counter-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working modes
- Target torque value can be set, with audible and visible alarm:
  – Green LED light on and buzzer sounds when target torque value is 90%~100% of target torque
  – Red LED light on and buzzer sounds when target torque value is reached
- Power off automatically in 5 minutes without any operations
- Non-slip grip handle
- With overload record
  (once the torque reaches 110% of the maximum range)



VIDEO

IST-WP6

SPECIFICATION

Code		IST-WP6
Range		1.2~6N.m
Accuracy	clockwise	±3%
	counter-clockwise	±4%
Resolution		0.001N.m
Square driver (L)		1/4"
Power supply		1×AAA battery
Length		260mm
Weight		430g

OPTIONAL ACCESSORY

Calibration cable	IST-SD-CABLE

VIDEO

INSPECTION CERTIFICATE

SHORT HANDLE DIGITAL TORQUE WRENCHES

- Clockwise and counter-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working modes
- Target torque value can be set, with audible and visible alarm:
  – Green LED light on and buzzer sounds when torque value is 90%~100% of target torque
  – Both green and red LED light on and buzzer sounds when target torque value is reached
- Power off in 5 minutes automatically
- Non-slip grip handle
- With damp record
- With overload record (once the torque reaches 110% of the maximum range)



IST-WS60

SPECIFICATION

Code		IST-WS12	IST-WS20	IST-WS30	IST-WS30A	IST-WS60	IST-WS85
Range		2.4~12N.m	4~20N.m	6~30N.m	6~30N.m	12~60N.m	17~85N.m
Accuracy	clockwise	±3%					
	counter-clockwise	±4%					
Resolution		0.01N.m	0.01N.m	0.01N.m	0.01N.m	0.01N.m	0.1N.m
Square driver (L)		1/4"	1/4"	1/4"	3/8"	3/8"	3/8"
Power supply		2×AAA batteries					
Length		215mm	215mm	215mm	215mm	225mm	271mm
Weight		750g	750g	750g	830g	917g	1000g

OPTIONAL ACCESSORY

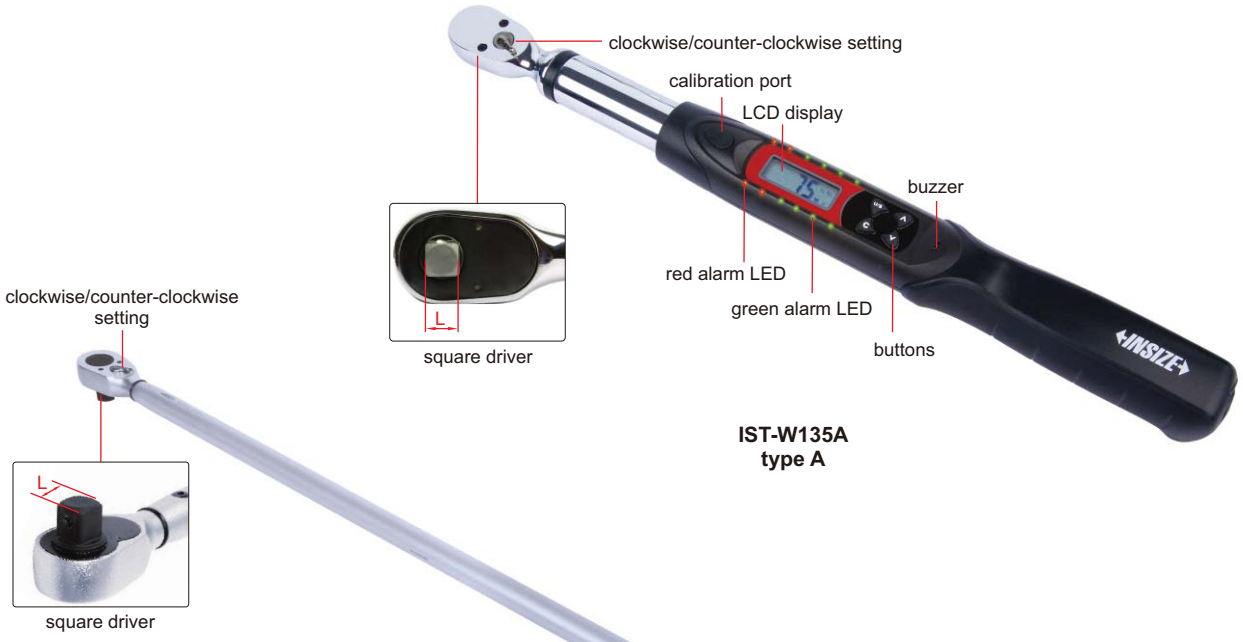
Calibration cable	IST-SD-CABLE

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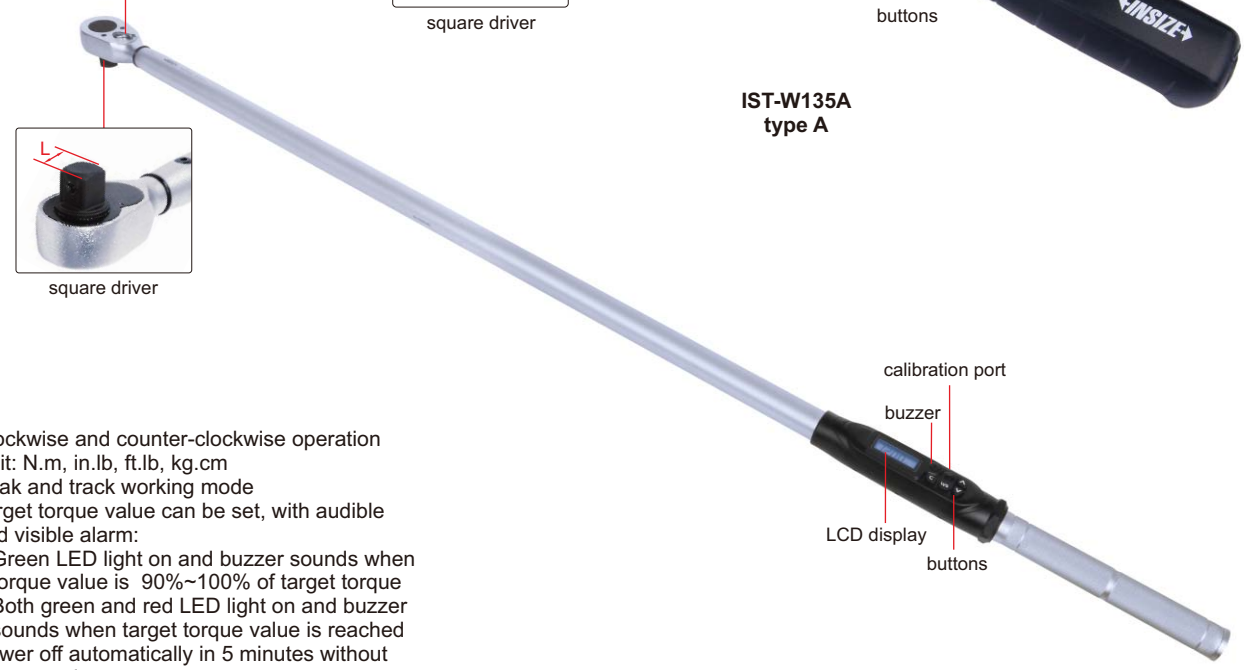
DIGITAL TORQUE WRENCHES

INSPECTION CERTIFICATE

OPTIONAL ACCURACY:
CLOCKWISE: ±1%
COUNTER-CLOCKWISE: ±2%
ONLY FOR RANGE 6~850N.m



IST-W135A
type A



IST-W1200A
type B

- Clockwise and counter-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working mode
- Target torque value can be set, with audible and visible alarm:
  – Green LED light on and buzzer sounds when torque value is 90%~100% of target torque
  – Both green and red LED light on and buzzer sounds when target torque value is reached
- Power off automatically in 5 minutes without any operations
- Non-slip grip handle
- With damp record
- With overload record (once the torque reaches 110% of the maximum range)

SPECIFICATION

Code	Type	Range	Accuracy	Resolution	Square driver (L)	Power supply	Length	Weight
IST-W30A	A	6~30N.m	clockwise: ±2% counter-clock wise: ±3%	0.01N.m	1/4"	2×AA batteries, for 110 hours working	390mm	830g
IST-W135A		27~135N.m		0.1N.m	3/8"		415mm	950g
IST-W200A		40~200N.m		0.1N.m	1/2"		530mm	1.4kg
IST-W340A		68~340N.m		0.1N.m	1/2"		650mm	1.6kg
IST-W500A*	B	100~500N.m	clockwise: ±2.5% counter-clock wise: ±3.5%	0.1N.m	3/4"		1285mm	7kg
IST-W850A		170~850N.m		0.1N.m	3/4"		1295mm	6kg
IST-W1200A		240~1200N.m		1N.m	1"		1920mm	13kg
IST-W1500A		300~1500N.m		1N.m	1"		1920mm	13kg
IST-W2000A		400~2000N.m		1N.m	1"		1920mm	14kg

OPTIONAL ACCESSORY

Calibration cable	IST-W-CABLE

* The accuracy of this code is not optional

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OPTIONAL ACCURACY:
CLOCKWISE: ±1%
COUNTER-CLOCKWISE: ±2%

INSPECTION CERTIFICATE

INTERCHANGEABLE HEAD DIGITAL TORQUE WRENCHES



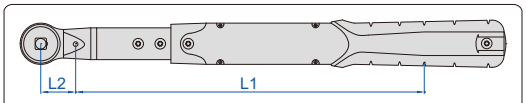
IST-2W135A

ratchet head (included)



- Clockwise and counter-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm, degree
- Peak and track working modes
- Target torque value can be set, with audible and visible alarm:
  - Green LED light on and buzzer sounds when torque value is 90%~100% of target torque
  - Both green and red LED light on and buzzer sounds when target torque value is reached
- Power off in 5 minutes automatically without any operations
- Non-slip grip handle
- With damp record
- With overload record
  (once the torque reaches 110% of the maximum range)

torque correction



torque value needs to be corrected if L2 is different when head is changed

SPECIFICATION

Code		IST-2W30A	IST-2W135A	IST-2W200A	IST-2W340A	IST-2W410A
Range		6~30N.m	27~135N.m	40~200N.m	68~340N.m	82~410N.m
Accuracy	clockwise	±2%				
	counter-clockwise	±3%				
Resolution		0.01N.m	0.1N.m	0.1N.m	0.1N.m	0.1N.m
Socket size (A×B)		12×9mm	12×9mm	18×14mm	18×14mm	18×14mm
Arm length (L1)		272.7mm	287.7mm	381.2mm	501.2mm	501.2mm
Power supply		2xAA batteries, for 110 hours working				
Weight		1400g	1570g	2170g	2320g	2320g

STANDARD DELIVERY

Torque wrench	1 pc
Ratchet head	1 pc

OPTIONAL ACCESSORY

Calibration cable	IST-W-CABLE
Interchangeable head	refer to details

To be continued

Continued from previous page

RATCHET HEAD (INCLUDED) SPECIFICATION

Code of torque wrench	IST-2W30A	IST-2W135A	IST-2W200A	IST-2W340A	IST-2W410A
Square driver (D)	1/4"	3/8"	1/2"	1/2"	3/4"
Length (L2)	29mm	29mm	40mm	40mm	40mm





RATCHET HEAD (optional)

Code	Square driver (D)	Applicable wrenches
IST-2W-R1	1/4"	IST-2W30A
IST-2W-R2	3/8"	IST-2W135A
IST-2W-R3	1/2"	IST-2W135A
IST-2W-R4	1/2"	IST-2W200A IST-2W340A IST-2W410A

ADJUSTABLE SPANNER HEAD (optional)

Code	Open size	Applicable wrenches
IST-2W-A1	5~27mm	IST-2W30A IST-2W135A
IST-2W-A2	5-30mm	IST-2W200A IST-2W410A
IST-2W-A3	10-41mm	IST-2W340A IST-2W410A





OPEN END HEAD (optional)

Code	Open size	Applicable wrenches
IST-2W-K7	7mm	IST-2W30A IST-2W135A
IST-2W-K8	8mm	
IST-2W-K9	9mm	
IST-2W-K10	10mm	
IST-2W-K11	11mm	
IST-2W-K12	12mm	
IST-2W-K13	13mm	
IST-2W-K14	14mm	
IST-2W-K15	15mm	
IST-2W-K16	16mm	
IST-2W-K17	17mm	
IST-2W-K18	18mm	
IST-2W-K19	19mm	
IST-2W-K13A	13mm	IST-2W200A IST-2W340A IST-2W410A
IST-2W-K14A	14mm	
IST-2W-K15A	15mm	
IST-2W-K16A	16mm	
IST-2W-K17A	17mm	
IST-2W-K18A	18mm	
IST-2W-K19A	19mm	
IST-2W-K21A	21mm	
IST-2W-K22A	22mm	
IST-2W-K24A	24mm	
IST-2W-K27A	27mm	

BOX END HEAD (optional)

Code	Open size	Applicable wrenches
IST-2W-M7	7mm	IST-2W30A IST-2W135A
IST-2W-M8	8mm	
IST-2W-M10	10mm	
IST-2W-M11	11mm	
IST-2W-M12	12mm	
IST-2W-M13	13mm	
IST-2W-M14	14mm	
IST-2W-M15	15mm	
IST-2W-M16	16mm	
IST-2W-M17	17mm	
IST-2W-M18	18mm	
IST-2W-M19	19mm	
IST-2W-M21	21mm	
IST-2W-M22	22mm	
IST-2W-M13A	13mm	IST-2W200A IST-2W340A
IST-2W-M14A	14mm	
IST-2W-M15A	15mm	
IST-2W-M16A	16mm	
IST-2W-M17A	17mm	
IST-2W-M18A	18mm	
IST-2W-M19A	19mm	
IST-2W-M21A	21mm	

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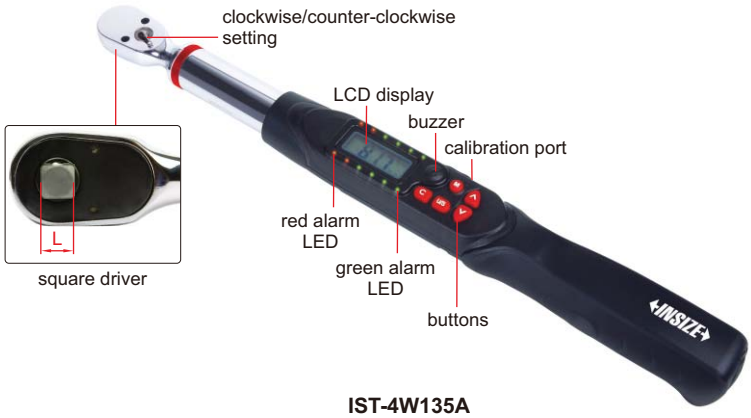
QUALITY INSPECTION TORQUE WRENCHES

OPTIONAL ACCURACY:
CLOCKWISE: ±1%
COUNTER-CLOCKWISE: ±2%
ONLY FOR RANGE 6~340N.m

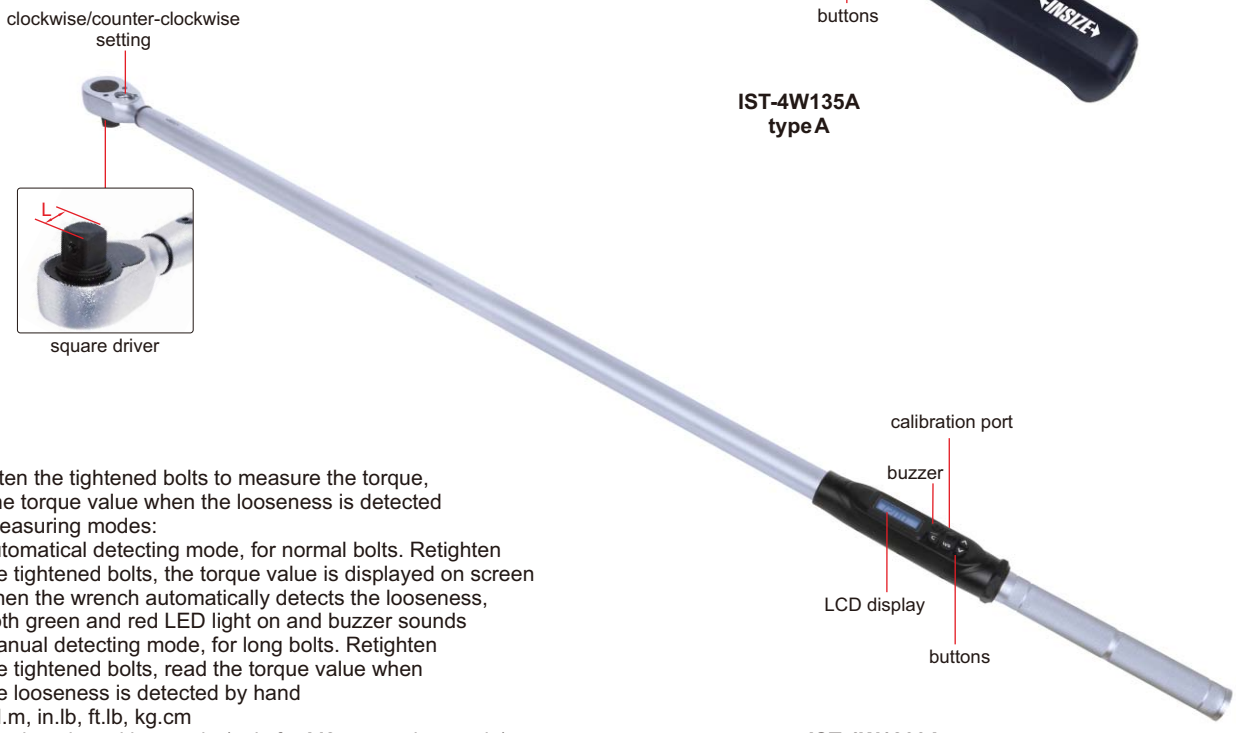
MEASURE THE TORQUE OF TIGHTENED BOLTS

INSPECTION CERTIFICATE

VIDEO



IST-4W135A
type A



IST-4W1200A
type B

- Retighten the tightened bolts to measure the torque, read the torque value when the looseness is detected
- Two measuring modes:
  M1: automatical detecting mode, for normal bolts. Retighten the tightened bolts, the torque value is displayed on screen when the wrench automatically detects the looseness, both green and red LED light on and buzzer sounds
  M2: manual detecting mode, for long bolts. Retighten the tightened bolts, read the torque value when the looseness is detected by hand
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working mode (only for M2 measuring mode)
- Clockwise and count-clockwise operation
- Memory of 50 results
- Power off in 15 minutes automatically
- Non-slip grip handle
- With overload record (once the torque reaches 110% of the maximum range)

SPECIFICATION

Code	Type	Range	Accuracy	Resolution	Square driver (L)	Power supply	Length	Weight
IST-4W30A	A	6~30N.m	clockwise: ±2% counter-clock wise: ±3%	0.01N.m	1/4"	2×AA batteries, for 110 hours working	390mm	760g
IST-4W135A		27~135N.m		0.1N.m	3/8"		415mm	940g
IST-4W200A		40~200N.m		0.1N.m	1/2"		530mm	1340g
IST-4W340A		68~340N.m		0.1N.m	1/2"		650mm	1540g
IST-4W850A	B	170~850N.m	clockwise: ±2.5% counter-clock wise: ±3.5%	0.1N.m	3/4"		1220mm	6000g
IST-4W1200A		240~1200N.m		1N.m	1"		1800mm	9100g
IST-4W1500A		300~1500N.m		1N.m	1"		1800mm	9100g
IST-4W2000A		400~2000N.m		1N.m	1"		1800mm	10500g

OPTIONAL ACCESSORY

Calibration cable	**IST-W-CABLE**

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TWO-WAY WIRELESS DIGITAL TORQUE WRENCHES

OPTIONAL ACCURACY:
CLOCKWISE: ±1%
COUNTER-CLOCKWISE: ±2%

TRANSMISSION DISTANCE IS 300 METERS

INSPECTION CERTIFICATE



VIDEO

IST-13W135A



two-way receiver

Torque wrench:

- The test results can be transmitted wirelessly to the computer and PLC
- Unit: N.m, in.lb, ft.lb, kg.cm
- Clockwise and counter-clockwise operation
- Peak and track working mode
- Can set tolerance with judgement in peak working mode
- 9 target torque values can be set, with audible and visible alarm:
  – Green LED light on and buzzer sounds when torque value is 80%~99.5% of target torque
  – Both green and red LED light on and buzzer sounds when torque value is over 99.5% of target torque
- Power off in 2 minutes automatically
- Non-slip grip handle
- With damp record
- With overload record
  (once the torque reaches 110% of the maximum range)

Two-way receiver:

- A two-way receiver can be connected with up to 10 wrenches at the same time, and the maximum transmission distance is 300 meters

Software:

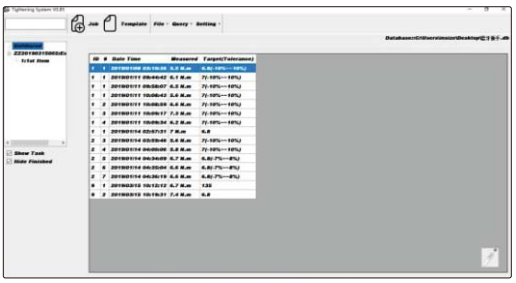
- In Windows10 system version 1709 or above
- Two operation mode:
  – Data transmission mode: wrench transmits actual torque value to software after operation
  – Program guidance mode: firstly set process on software (set sequence of tightening, select wrench and set torque values and tolerances). Then software shows which wrench the operator should use (indicator light of the selected wrench is on) and shows the target torque value, and serial number of the screw to be tightened (shows on the wrench); After the operation is finished, the actual torque value is sent to software.
- Can select whether the wrench only sends qualified data after operation (in accordance with the tolerance)
- Two data transmission modes: automatic or press button to send
- When the wrench is disconnected, data is stored in the wrench and automatically sent to computer after wireless connection
- The data in software can be printed or sent to Excel

TWO-WAY RECEIVER SPECIFICATION

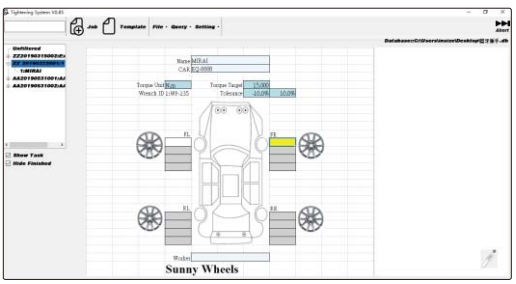
Code	IST-13WREC	IST-13WREC-PLC
Signal output to	computer	PLC
Working frequency	ISM433MHz (432.0~433.8MHz, adjustable)	
Power supply	power adapter, 24V, 0.5A	
Dimension	200×108×31mm	
Weight	500g	

OPTIONAL ACCESSORY

Calibration cable	IST-SD-CABLE



data transmission mode



program guidance mode

SPECIFICATION

Code	Range	Accuracy	Unit	Resolution	Square driver (L)	Working frequency	Power supply	Length	Weight
IST-13W30A	6~30N.m	clockwise: ±2% counter-clockwise: ±3%	N-m/ft-lb/ in-lb/kg-cm	0.01N.m	1/4"	ISM433MHz (432.0~433.8MHz, adjustable)	2×AA batteries	390mm	760g
IST-13W60A	12~60N.m			0.01N.m	3/8"			390mm	940g
IST-13W135A	27~135N.m			0.1N.m	3/8"			415mm	940g
IST-13W200A	40~200N.m			0.1N.m	1/2"			530mm	1340g
IST-13W340A	68~340N.m			0.1N.m	1/2"			650mm	1540g
IST-13W1200A	240~1200N.m	clockwise: ±2.5% counter-clockwise: ±3.5%	N-m/ft-lb	1N.m	1"			1800mm	9000g
IST-13W1500A	300~1500N.m			1N.m	1"			1800mm	9000g
IST-13W2000A	400~2000N.m			1N.m	1"			1800mm	10500g

TYPE B OPTIONAL ACCURACY:
CLOCKWISE: ±1%
COUNTER-CLOCKWISE: ±2%

BUILT-IN BLUETOOTH

BLUETOOTH DIGITAL TORQUE WRENCHES (KEYBOARD SIGNAL)

INSPECTION CERTIFICATE

VIDEO



IST-15W12A
type A



IST-15W135A
type B

Torque wrenches:

- Unit: in.lb, ft.lb, N.m, kg.cm
- Clockwise and counter-clockwise operation
- Peak and track working mode
- Can set tolerance with judgement in peak working mode
- 9 target torque values can be set, with audible and visible alarm: LED lights up in sequence, and the buzzer gets louder and louder when torque value is 80%~99.5% of target torque
- Power off in 2 minutes automatically
- Non-slip grip handle
- With overload record (once the torque reaches 110% of the maximum range)

Data transmission:

- Built-in Bluetooth 4.0 module, which can be connected with computers (with Bluetooth function), mobile phones, tablets and other devices
- Keyboard signal, can be transmitted to Excel, Word, TXT
- Transmission distance is 10 meters (no obstacles, no electromagnetic interference)
- Bluetooth connection and disconnection are respectively shown by indicator lights



transmission distance is 10 meters
(no obstacles, no electromagnetic interference)

SPECIFICATION

Code		IST-15W06A	IST-15W12A	IST-15W20A	IST-15W30A	IST-15W135A	IST-15W200A	IST-15W340A
Type		A (short handle)			B (long handle)			
Range		1.2~6N.m	2.4~12N.m	4~20N.m	6~30N.m	27~135N.m	40~200N.m	68~340N.m
Accuracy	clockwise	±2%						
	counter-clockwise	±3%						
Tolerance setting range		-20%~+20% (target torque value)						
Resolution		0.001N.m	0.01N.m	0.01N.m	0.01N.m	0.1N.m	0.1N.m	0.1N.m
Square driver (L)		1/4"	1/4"	1/4"	1/4"	3/8"	1/2"	1/2"
Power supply		2xAAA batteries			2xAA batteries			
Length		215mm	215mm	215mm	390mm	415mm	530mm	650mm
Weight		750g	750g	750g	760g	940g	1340g	1540g

OPTIONAL ACCESSORY

Calibration cable	IST-SD-CABLE

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INTERCHANGEABLE HEAD TORQUE WRENCHES

ATTENTION: CLOCKWISE OPERATION ONLY

INSPECTION CERTIFICATE



IST-11WM200

- According to DIN ISO 6789, ASME B107.300
- All-metal construction, sturdy and durable

SPECIFICATION

Code	Range (clockwise)	Accuracy	Graduation	Socket size (A×B)	Length	Weight
IST-11WM12	2.5~12N.m	±6% (<10N.m) ±4% (≥10N.m)	0.05N.m	12×9mm	284mm	580g
IST-11WM30	6.0~30N.m	±6% (<10N.m) ±4% (≥10N.m)	0.1N.m	12×9mm	303mm	720g
IST-11WM60	10~60N.m	±4%	0.5N.m	12×9mm	372mm	860g
IST-11WM125	25~125N.m	±4%	0.5N.m	12×9mm	427mm	940g
IST-11WM200	40~200N.m	±4%	1N.m	18×14mm	460mm	1060g
IST-11WM335	65~335N.m	±4%	1N.m	18×14mm	520mm	1200g
IST-11WM500	100~500N.m	±4%	2.5N.m	32×24mm	855mm	5000g
IST-11WM800	160~800N.m	±4%	4N.m	32×24mm	1055mm	5900g
IST-11WM1000	200~1000N.m	±4%	5N.m	32×24mm	1055mm	5900g
IST-11WM1500	300~1500N.m	±4%	5N.m	36×27mm	1249mm	9000g
IST-11WM2000	400~2000N.m	±4%	10N.m	36×27mm	1249mm	9000g
IST-11WM3000	600~3000N.m	±4%	15N.m	36×27mm	1249mm	10300g



RATCHET HEAD (optional)

Code	Square driver	Applicable wrenches
IST-11WM-R1	1/4"	**IST-11WM12** **IST-11WM30**
IST-11WM-R2	3/8"	**IST-11WM12** **IST-11WM30** **IST-11WM60** **IST-11WM125**
IST-11WM-R3	1/2"	**IST-11WM200** **IST-11WM335**
IST-11WM-R4*	3/4"	**IST-11WM200** **IST-11WM335**
IST-11WM-R5	3/4"	**IST-11WM500** **IST-11WM800** **IST-11WM1000**
IST-11WM-R6	1"	**IST-11WM1500** **IST-11WM2000** **IST-11WM3000**



HOOK HEAD (optional)

Hook head	customized according to customer requirements

To be continued

Continued from previous page





OPEN END HEAD (optional)

Code	Open size	Applicable wrenches
IST-11WM-K8	8mm	IST-11WM12 IST-11WM30 IST-11WM60 IST-11WM125
IST-11WM-K10	10mm	
IST-11WM-K13	13mm	
IST-11WM-K14	14mm	
IST-11WM-K15	15mm	
IST-11WM-K17	17mm	
IST-11WM-K19*	19mm	
IST-11WM-K13A	13mm	IST-11WM200 IST-11WM335
IST-11WM-K14A	14mm	
IST-11WM-K15A	15mm	
IST-11WM-K17A	17mm	
IST-11WM-K19A	19mm	
IST-11WM-K22A	22mm	
IST-11WM-K24A	24mm	
IST-11WM-K27A*	27mm	
IST-11WM-K30A*	30mm	
IST-11WM-K32A*	32mm	
IST-11WM-K22B	22mm	IST-11WM500 IST-11WM800 IST-11WM1000
IST-11WM-K24B	24mm	
IST-11WM-K27B	27mm	
IST-11WM-K28B	28mm	
IST-11WM-K30B	30mm	
IST-11WM-K32B	32mm	
IST-11WM-K33B*	33mm	
IST-11WM-K36B*	36mm	
IST-11WM-K38B*	38mm	
IST-11WM-K40B*	40mm	
IST-11WM-K30C	30mm	IST-11WM1500 IST-11WM2000 IST-11WM3000
IST-11WM-K32C	32mm	
IST-11WM-K34C	34mm	
IST-11WM-K36C	36mm	
IST-11WM-K38C	38mm	
IST-11WM-K41C	41mm	
IST-11WM-K45C	45mm	
IST-11WM-K50C*	50mm	
IST-11WM-K55C*	55mm	
IST-11WM-K60C*	60mm	

BOX END HEAD (optional)

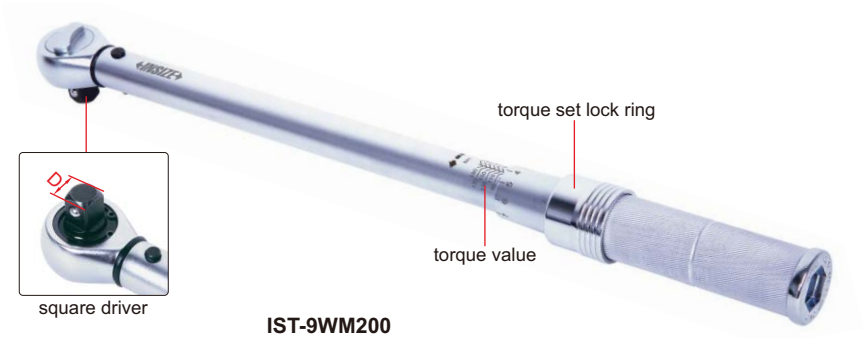
Code	Open size	Applicable wrenches
IST-11WM-M8	8mm	IST-11WM12 IST-11WM30 IST-11WM60 IST-11WM125
IST-11WM-M10	10mm	
IST-11WM-M13	13mm	
IST-11WM-M14	14mm	
IST-11WM-M15	15mm	
IST-11WM-M17	17mm	
IST-11WM-M19	19mm	
IST-11WM-M13A	13mm	IST-11WM200 IST-11WM335
IST-11WM-M14A	14mm	
IST-11WM-M15A	15mm	
IST-11WM-M17A	17mm	
IST-11WM-M19A	19mm	
IST-11WM-M22A	22mm	
IST-11WM-M24A	24mm	
IST-11WM-M27A	27mm	
IST-11WM-M30A	30mm	
IST-11WM-M32A	32mm	
IST-11WM-M22B	22mm	IST-11WM500 IST-11WM800 IST-11WM1000
IST-11WM-M24B	24mm	
IST-11WM-K27B	27mm	
IST-11WM-M28B	28mm	
IST-11WM-M30B	30mm	
IST-11WM-M32B	32mm	
IST-11WM-M33B	33mm	
IST-11WM-M36B*	36mm	
IST-11WM-M38B*	38mm	
IST-11WM-M40B	40mm	
IST-11WM-M30C	30mm	IST-11WM1500 IST-11WM2000 IST-11WM3000
IST-11WM-M32C	32mm	
IST-11WM-M34C	34mm	
IST-11WM-M36C	36mm	
IST-11WM-M38C	38mm	
IST-11WM-M41C	41mm	
IST-11WM-M45C	45mm	
IST-11WM-M50C	50mm	
IST-11WM-M55C*	55mm	
IST-11WM-M60C*	60mm	

*Torque value needs to be corrected for these heads

TORQUE WRENCHES

INSPECTION CERTIFICATE

ATTENTION: CLOCKWISE OPERATION ONLY



IST-9WM200

- According to DIN ISO 6789, ASME B107.300
- All-metal construction, sturdy and durable

SPECIFICATION

Code	IST-9WM12	IST-9WM20	IST-9WM30	IST-9WM60	IST-9WM100
Range (clockwise)	2.5~12N.m	4~20N.m	6~30N.m	10~60N.m	20~100N.m
Accuracy	±6% (<10N.m) ±4% (≥10N.m)	±6% (<10N.m) ±4% (≥10N.m)	±6% (<10N.m) ±4% (≥10N.m)	±4%	±4%
Graduation	0.1N.m	0.1N.m	0.2N.m	0.5N.m	0.5N.m
Square driver (D)	1/4"	1/4"	3/8"	3/8"	1/2"
Length	290mm	290mm	318mm	388mm	443mm
Weight	680g	680g	820g	960g	1040g

Code	IST-9WM125	IST-9WM200	IST-9WM335	IST-9WM500	IST-9WM800
Range (clockwise)	25~125N.m	40~200N.m	65~335N.m	100~500N.m	160~800N.m
Accuracy	±4%	±4%	±4%	±4%	±4%
Graduation	0.5N.m	1N.m	1N.m	2.5N.m	4N.m
Square driver (D)	1/2"	1/2"	1/2"	3/4"	3/4"
Length	443mm	468mm	528mm	855mm	1055mm
Weight	1040g	1160g	1300g	5000g	5900g

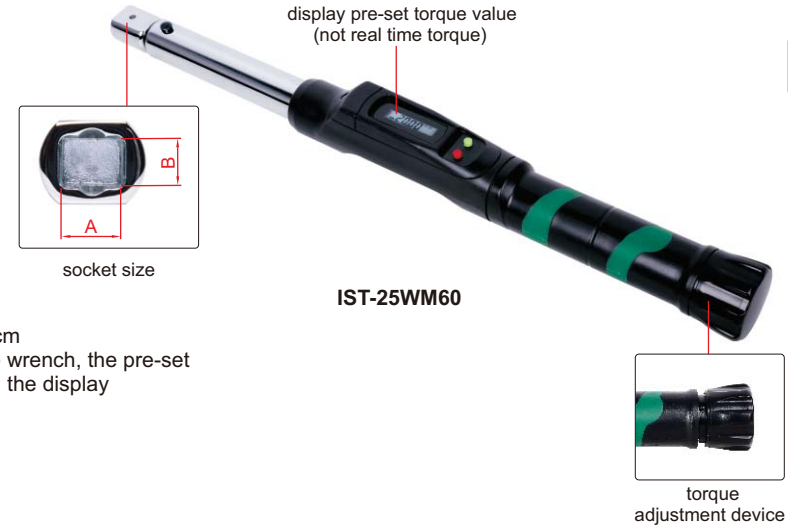
Code	IST-9WM1000	IST-9WM1500	IST-9WM2000	IST-9WM3000
Range (clockwise)	200~1000N.m	300~1500N.m	400~2000N.m	600~3000N.m
Accuracy	±4%	±4%	±4%	±4%
Graduation	5N.m	5N.m	10N.m	15N.m
Square driver (D)	3/4"	1"	1"	1"
Length	1055mm	1260mm	1260mm	1260mm
Weight	5900g	9200g	9200g	10500g

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INSPECTION CERTIFICATE

INTERCHANGEABLE HEAD MECHANICAL TORQUE WRENCHES (DIGITAL SETTING)

VIDEO



ATTENTION: DISPLAY PRE-SET TORQUE VALUE (NOT REAL TIME TORQUE)

ATTENTION: CLOCKWISE OPERATION ONLY

- Unit: N.m, in.lb, ft.lb, kg.cm
- Mechanical “click” torque wrench, the pre-set torque value is shown on the display

SPECIFICATION

Code	IST-25WM60	IST-25WM100	IST-25WM140	IST-25WM200	IST-25WM300
Range (clockwise)	12~60N.m	20~100N.m	28~140N.m	40~200N.m	60~300N.m
Accuracy	±3%	±3%	±3%	±3%	±3%
Resolution	0.1N.m	0.1N.m	0.1N.m	0.1N.m	0.1N.m
Socket size (A×B)	12×9mm	12×9mm	18×14mm	18×14mm	18×14mm
Length	408mm	431mm	492mm	510mm	568mm
Weight	1.3kg	1.4kg	1.45kg	1.5kg	1.7kg





RATCHET HEAD (optional)

Code	Square driver	Applicable wrenches
IST-11WM-R1	1/4"	IST-25WM60 IST-25WM100
IST-11WM-R2	3/8"	IST-25WM60 IST-25WM100
IST-11WM-R3	1/2"	IST-25WM140 IST-25WM200 IST-25WM300
IST-11WM-R4*	3/4"	IST-25WM140 IST-25WM200 IST-25WM300



HOOK HEAD (optional)

Hook head	customized according to customer requirements

BOX END HEAD (optional)

Code	Open size	Applicable wrenches
IST-11WM-M8	8mm	IST-25WM60 IST-25WM100
IST-11WM-M10	10mm	
IST-11WM-M13	13mm	
IST-11WM-M14	14mm	
IST-11WM-M15	15mm	
IST-11WM-M17	17mm	
IST-11WM-M19	19mm	
IST-11WM-M13A	13mm	IST-25WM140 IST-25WM200
IST-11WM-M14A	14mm	
IST-11WM-M15A	15mm	
IST-11WM-M17A	17mm	
IST-11WM-M19A	19mm	
IST-11WM-M22A	22mm	
IST-11WM-M24A	24mm	
IST-11WM-M27A	27mm	
IST-11WM-M30A	30mm	
IST-11WM-M32A	32mm	

To be continued

Continued from previous page



OPEN END HEAD (optional)

Code	Open size	Applicable wrenches
IST-11WM-K6	6mm	IST-25WM60 IST-25WM100
IST-11WM-K7	7mm	
IST-11WM-K8	8mm	
IST-11WM-K9	9mm	
IST-11WM-K10	10mm	
IST-11WM-K11	11mm	
IST-11WM-K12	12mm	
IST-11WM-K13	13mm	
IST-11WM-K14	14mm	
IST-11WM-K15	15mm	
IST-11WM-K16	16mm	
IST-11WM-K17	17mm	
IST-11WM-K18*	18mm	
IST-11WM-K19*	19mm	
IST-11WM-K13A	13mm	IST-25WM140 IST-25WM200 IST-25WM300
IST-11WM-K14A	14mm	
IST-11WM-K15A	15mm	
IST-11WM-K16A	16mm	
IST-11WM-K17A	17mm	
IST-11WM-K18A	18mm	
IST-11WM-K19A	19mm	
IST-11WM-K20A	20mm	
IST-11WM-K21A	21mm	
IST-11WM-K22A	22mm	
IST-11WM-K23A	23mm	
IST-11WM-K24A	24mm	
IST-11WM-K27A*	27mm	
IST-11WM-K30A*	30mm	
IST-11WM-K32A*	32mm	

*Torque value needs to be corrected for these heads

MECHANICAL TORQUE WRENCHES (DIGITAL SETTING)

ATTENTION: CLOCKWISE OPERATION ONLY

INSPECTION CERTIFICATE

ATTENTION: DISPLAY PRE-SET TORQUE VALUE (NOT REAL TIME TORQUE)

VIDEO



- Unit: N.m, in.lb, ft.lb, kg.cm
- Mechanical “click” torque wrench, the pre-set torque value is shown on the display

SPECIFICATION

Code	IST-19WM60	IST-19WM100	IST-19WM140	IST-19WM200	IST-19WM300
Range (clockwise)	12~60N.m	20~100N.m	28~140N.m	40~200N.m	60~300N.m
Accuracy	±3%	±3%	±3%	±3%	±3%
Resolution	0.1N.m	0.1N.m	0.1N.m	0.1N.m	0.1N.m
Square driver (D)	3/8"	3/8"	1/2"	1/2"	1/2"
Length	382mm	450mm	481mm	520mm	585mm
Weight	1.3kg	1.4kg	1.45kg	1.6kg	1.8kg

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ATTENTION: CLOCKWISE OPERATION ONLY

PRESET TORQUE WRENCHES

- Torque is preset, to prevent adjustment by mistake during use
- The torque is set at the factory before delivery. Customers can also set the torque with torque adjustment tool (**IST-PW-TOOL**, **optional**) and digital torque testers (**IST-TT□□□**, **optional**)
- Clockwise operation only



square driver

IST-PW60


torque adjustment tool (**optional**)

SPECIFICATION

Code	IST-PW12	IST-PW20	IST-PW30	IST-PW60	IST-PW125	IST-PW200
Adjustable range*	2.5~12N.m 22~105in.lb	4~20N.m 36~175in.lb	6~30N.m 55~265in.lb	10~60N.m 8~44ft.lb	25~125N.m 20~90ft.lb	40~200N.m 30~145ft.lb
Accuracy	±3%	±3%	±3%	±3%	±3%	±3%
Square driver (D)	1/4"	1/4"	3/8"	3/8"	3/8"	1/2"
Length	184mm	184mm	214mm	255mm	366mm	457mm
Weight	450g	450g	500g	560g	790g	1200g

Code	IST-PW340	IST-PW500	IST-PW650	IST-PW800	IST-PW1000A	IST-PW1000B
Adjustable range*	65~340N.m 50~250ft.lb	100~500N.m 75~365ft.lb	150~650N.m 110~475ft.lb	160~800N.m 120~585ft.lb	200~1000N.m 150~735ft.lb	200~1000N.m 150~735ft.lb
Accuracy	±3%	±3%	±4%	±4%	±4%	±4%
Square driver (D)	1/2"	3/4"	3/4"	3/4"	3/4"	1"
Length	691mm	910mm	910mm	1037mm	1265mm	1265mm
Weight	1960g	2800g	2800g	5000g	6000g	6000g

OPTIONAL ACCESSORY

Torque adjustment tool	IST-PW-TOOL

*Adjust to a fixed torque value according to customer requirements before delivery

DIAL TORQUE WRENCHES

INSPECTION CERTIFICATE



square driver

IST-DW70

- Clockwise and counter-clockwise operation
- According to DIN ISO 6789, ASME B107.300

SPECIFICATION

Code	IST-DW1D8	IST-DW3D5	IST-DW9	IST-DW18	IST-DW35	IST-DW70	IST-DW140	IST-DW240	IST-DW350	IST-DW480
Range	0.36~1.8N.m 3~16in.lb	0.7~3.5N.m 6~30in.lb	1.8~9N.m 15~75in.lb	3.6~18N.m 30~150in.lb	7~35N.m 60~300in.lb	14~70N.m 120~600in.lb	28~140N.m 20~100ft.lb	48~240N.m 35~175ft.lb	70~350N.m 50~250ft.lb	96~480N.m 70~350ft.lb
Accuracy	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Graduation	0.02N.m 0.2in.lb	0.05N.m 0.5in.lb	0.1N.m 1in.lb	0.2N.m 2in.lb	0.5N.m 5in.lb	1N.m 10in.lb	2N.m 1ft.lb	3N.m 2.5ft.lb	2.5N.m 2.5ft.lb	6N.m 5ft.lb
Square driver (D)	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"
Length	254mm	254mm	254mm	254mm	254mm	378mm	546mm	546mm	546mm	708mm
Weight	480g	480g	480g	480g	480g	820g	1300g	1300g	1300g	4030g

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DIGITAL TORQUE ADAPTERS (WITH ANGLE DETECTION)

INSPECTION CERTIFICATE

working with mechanical wrenches





- Clockwise and counter-clockwise operation
- After reaching the desired torque, turn the wrench at a angle to apply extra torque
- Unit: N.m, in.lb, ft.lb, kg.cm, degree
- Peak and track working modes
- Target torque or angle value can be set, with audible and visible alarm:
  - Green LED light on and buzzer sounds when torque or angle value is 80%~100% of target torque or angle
  - Both green and red LED light on and buzzer sounds when target torque or angle value is reached
- Power off in 2 minutes automatically
- Memory 50 measurement values for browsing
- With overload record (once the torque reaches 110% of the maximum range)

IST-5W135A

VIDEO

SPECIFICATION

Code		IST-5W30A	IST-5W135A	IST-5W200A	IST-5W340A
Range	torque	6~30N.m	27~135N.m	40~200N.m	68~340N.m
	angle	0~999°			
Accuracy	clockwise	±3%			
	counter-clockwise	±4%			
	angle	±2° (rotate at 90°)			
Resolution	torque	0.01N.m	0.1N.m	0.1N.m	0.1N.m
	angle	1°			
Square driver (L)		1/4"	3/8"	1/2"	1/2"
Power supply		2xAAA batteries			
Dimension		Ø85×60mm	Ø85×75mm	Ø85×80mm	Ø85×80mm
Weight		150g	220g	240g	240g

OPTIONAL ACCESSORY

Calibration cable	IST-SD-CABLE

DIGITAL ANGLE METER
CODE 2177-121

REFER TO PAGE 335 FOR DETAILS



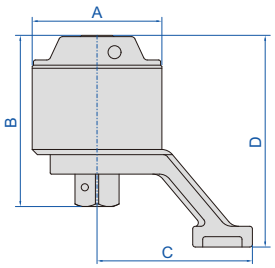
TORQUE MULTIPLIERS



IST-TM2000



IST-TM3500P



bevel type

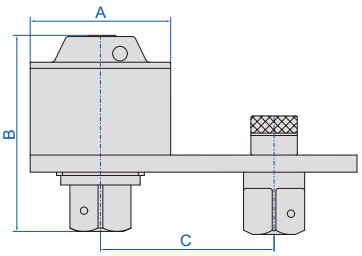


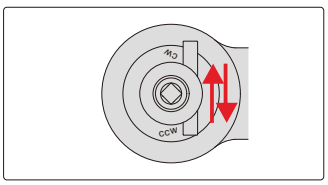
plate type

VIDEO

- Input to output accuracy: ±5%

application





after tightening, toggle the anti-bounce reversing dowel, turn the wrench in the anticlockwise direction, then remove the wrench from torque multiplier

Z TYPE (BEVEL TYPE) TORQUE MULTIPLIER

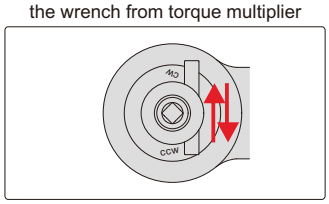
Code	Capacity	Torque ratio	Square socket	Square driver	Dimension (A×B×C×D)	For bolt	For nut	Weight
IST-TM1000	1000N.m	1:4	1/2"	1"	82x98.5x97x122.4mm	M20~30	S30~46	2.1kg
IST-TM2000	2000N.m	1:13	1/2"	1"	82x120x105x147mm	M22~35	S32~55	3.15kg
IST-TM3500	3500N.m	1:16	1/2"	1"	98x131x120x163mm	M30~45	S46~70	4.9kg
IST-TM5500	5500N.m	1:20.5	1/2"	1 1/2"	115x163.5x137x199mm	M38~52	S55~80	8.1kg
IST-TM7500	7500N.m	1:23	1/2"	1 1/2"	127x173x146x215mm	M42~60	S65~90	10.6kg
IST-TM10000	10000N.m	1:28	1/2"	1 1/2"	141x170x164x238mm	M52~72	S80~105	14kg

L TYPE (PLATE TYPE) TORQUE MULTIPLIER

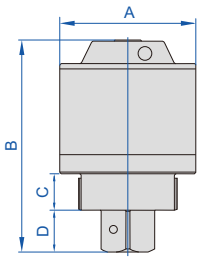
Code	Capacity	Torque ratio	Square socket	Square driver	Dimension (A×B×C)	For bolt	For nut	Weight
IST-TM1000P	1000N.m	1:4	1/2"	1"	82x91x(76.7~127.3)mm	M20~30	S30~46	2.4kg
IST-TM2000P	2000N.m	1:13	1/2"	1"	82x120x(92.7~129.3)mm	M22~35	S32~55	3.5kg
IST-TM3500P	3500N.m	1:16	1/2"	1"	98x128x(102.7~145.3)mm	M30~45	S46~70	5.0kg
IST-TM5500P	5500N.m	1:20.5	1/2"	1 1/2"	115x157x(134.05~165.95)mm	M38~52	S55~80	8.7kg
IST-TM7500P	7500N.m	1:23	1/2"	1 1/2"	127x168x(139.05~190.95)mm	M42~60	S65~90	11.7kg
IST-TM10000P	10000N.m	1:28	1/2"	1 1/2"	141x186x(144.05~215.95)mm	M52~72	S80~105	15.2kg
IST-TM15000P	15000N.m	1:50	3/4"	2 1/2"	156x246x(155.25~244.75)mm	M60~85	S80~120	24.1kg
IST-TM20000P	20000N.m	1:76	3/4"	2 1/2"	170x264x(163.75~276.25)mm	M72~100	S105~145	27.8kg

SPLINE-TYPE TORQUE MULTIPLIERS

after tightening, toggle the anti-bounce reversing dowel, turn the wrench in the anticlockwise direction, then remove the wrench from torque multiplier

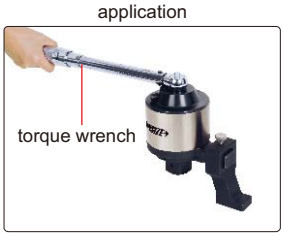






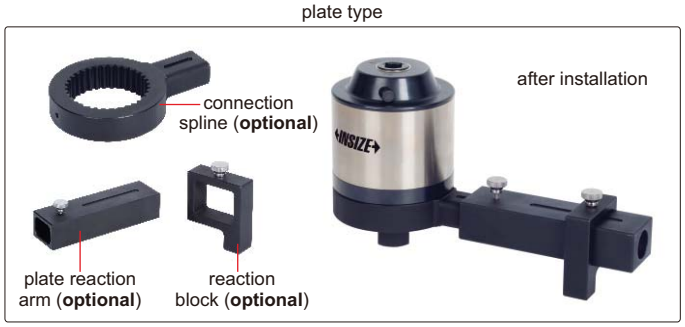
IST-ST2000

application

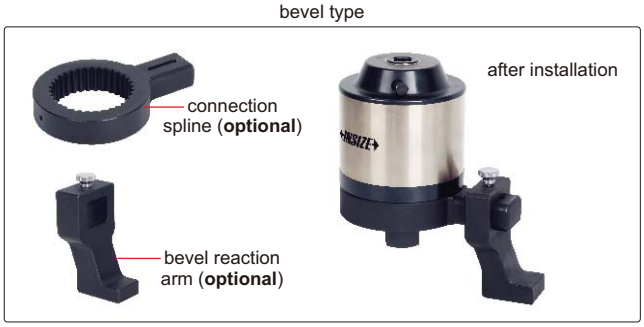


- High efficiency gear set with small input torque and large output torque
- Can be installed directly on the workpieces or through different options to form different installation types

plate type



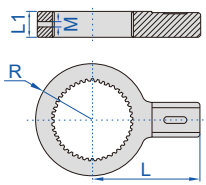
bevel type



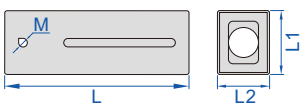
SPECIFICATION

Code	Type	Capacity	Accuracy	Torque ratio	Square socket	Square driver	Dimension (A×B×C×D)	For bolt	For nut	Weight
IST-ST2000	plate	2000N.m	±5%	1:13.3	1/2"	1"	82x135x18x26mm	M22~35	S32~55	3.2kg
	bevel			1:12						
IST-ST3500	plate	3500N.m		1:16	1/2"	1"	98x150x25x26mm	M30~45	S46~70	4.8kg
	bevel			1:15						
IST-ST5500	plate	5500N.m		1:21.5	1/2"	1 1/2"	115x180x29x39mm	M38~52	S55~80	7.8kg
	bevel			1:18.5						
IST-ST7500	plate	7500N.m		1:24	1/2"	1 1/2"	127x198x34x39mm	M42~60	S65~90	10.8kg
	bevel			1:20						









CONNECTION SPLINE (optional)

Code	Dimension (mm)			
	R	L	L1	M
IST-ST2000-C1	41	78	18	5
IST-ST3500-C2	49	95	23	5
IST-ST5500-C3	58	112	28.5	6
IST-ST7500-C4	63.5	123.5	29	6

PLATE REACTION ARM (optional)

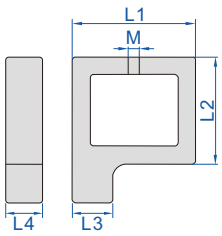
Code	Dimension (mm)			
	L	L1	L2	M
IST-ST2000-P1	120	38	25.5	4
IST-ST3500-P2	145	42	32	5
IST-ST5500-P3	150	53	45	6
IST-ST7500-P4	175	60	49	8

To be continued

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Continued from previous page

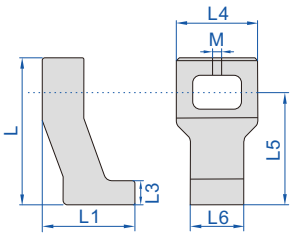




REACTION BLOCK (optional)

Code	Dimension (mm)					
	L	L1	L2	L3	L4	M
IST-ST2000-R1	53.5	52	39.5	15	18	4
IST-ST3500-R2	66	58	48	18	20	5
IST-ST5500-R3	94.5	73	65	22	25	6
IST-ST7500-R4	98	83	72	28	25	8





BEVEL REACTION ARM (optional)

Code	Dimension (mm)							
	L	L1	L2	L3	L4	L5	L6	M
IST-ST2000-B1	85	51	18	14	44	60	25	4
IST-ST3500-B2	87.5	52	20	15	50	67	30	5
IST-ST5500-B3	110	70	30	16	59	86	35	6
IST-ST7500-B4	123	78	35	20	68	94	45	6

TWO-USE TORQUE MULTIPLIERS



IST-DT2000

- High efficiency gear set with small input torque and large output torque
- The reaction arm can adjust the position of the applied force according to the operation conditions
- Plate reaction arm and bevel reaction arm are included

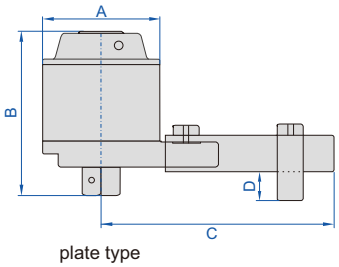
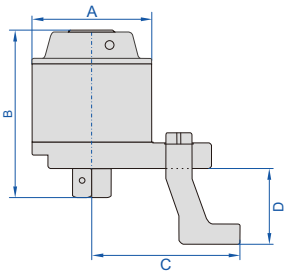
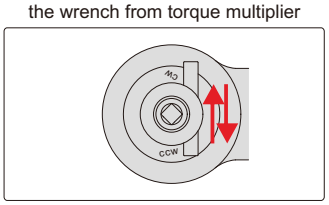


plate type



bevel type

after tightening, toggle the anti-bounce reversing dowel, turn the wrench in the anticlockwise direction, then remove the wrench from torque multiplier



application

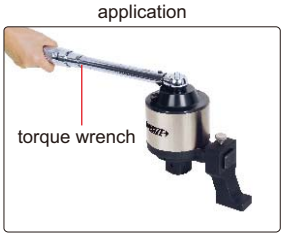
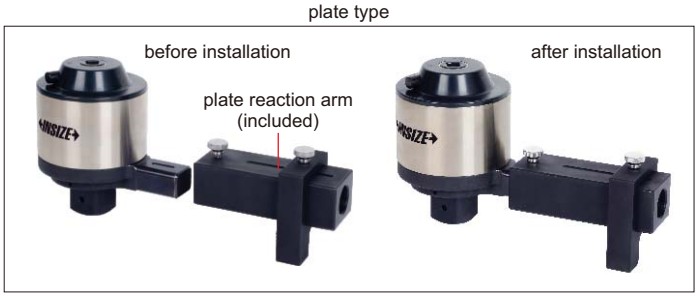


plate type



bevel type



SPECIFICATION

Code	Type	Capacity	Accuracy	Torque ratio	Square socket	Square driver	Dimension (A×B×C×D)	For bolt	For nut	Weight
IST-DT2000	plate	2000N.m	±5%	1:13.3	1/2"	1"	82x120x160x21mm	M22~35	S32~55	4.1kg
	bevel			1:12			82x120x93x52mm			
IST-DT3500	plate	3500N.m		1:16	1/2"	1"	98x133x152x26mm	M30~45	S46~70	6.4kg
	bevel			1:15			98x133x117x56mm			
IST-DT5500	plate	5500N.m		1:21.5	1/2"	1 1/2"	115x165x210x39.5mm	M38~52	S55~80	11.4kg
	bevel			1:18.5			115x165x134x72mm			
IST-DT7500	plate	7500N.m		1:24	1/2"	1 1/2"	127x174x243x38mm	M42~60	S65~90	16kg
	bevel			1:20			127x174x146x80mm			

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34 SCALES

INSIZE



Electronic Balances
Page 803-806



Explosion Proof Electronic Balances
Page 807



Weighing Scales
Page 808/810



Counting Scales
Page 809



Electronic Pocket Scales
Page 809-810



Platform Scales
Page 811



Floor Scales
Page 812



Electronic Crane Scales
Page 813-815



Moisture Analyzers
Page 816



Weights
Page 817-818

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DATA OUTPUT

VIDEO

ELECTRONIC BALANCES (0.1mg)



8310-320A

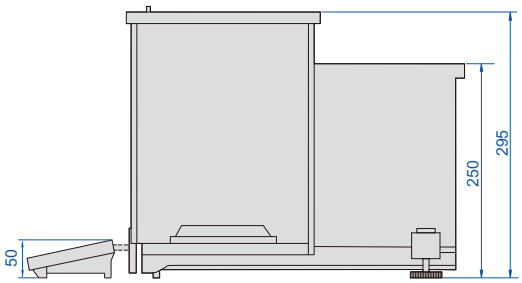


calibration weight
(included in **8310-120M**, **8310-210M** and **8310-320M**)

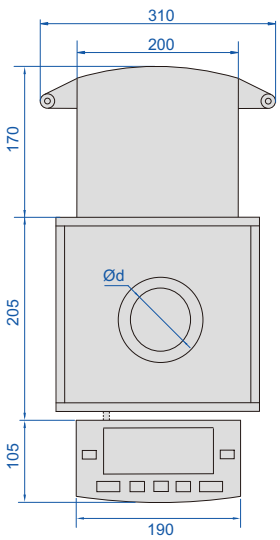


printer (**optional**)

- Rear electromagnetic sensor
- Separated display unit and weighing unit, reduce vibration error
- Digital processing technology improves reading stability and response speed for micro sample addition, sample weight and balance reading is consistent
- Unit: g, oz, ct, lb
- Weighing, counting, taring, percentage
- Data output



Unit: mm



SPECIFICATION

Code	8310-120M	8310-210M	8310-320M	8310-120A	8310-210A	8310-320A
Calibration	external calibration			internal calibration		
Maximum weighing	120g	210g	320g	120g	210g	320g
Minimum weighing	20mg	20mg	20mg	20mg	20mg	20mg
Resolution (d)	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Verification interval (e)	1mg	1mg	1mg	1mg	1mg	1mg
Accuracy (m is load)	m≤50g: ±0.5mg; 50g<m≤200g: ±1mg; m>200g: ±1.5mg			m≤50g: ±0.5mg; 50g<m≤200g: ±1mg; m>200g: ±1.5mg		
Repeatability	±0.1mg					
Linearity	±0.1mg					
Stabilization time	2.5s					
Weighing pan size (Ød)	Ø90mm					
Output	RS232					
Operation temperature	10~30°C					
Operation humidity	20~85% RH					
Power supply	power adapter (12V/2A)					
Dimension (L×W×H)	480×310×320mm					
Weight	6kg					

OPTIONAL ACCESSORY

RS232 cable	8304-CABLE *
Printer	8303-PRINTER

*Used to connect with computers

ELECTRONIC BALANCES (0.1mg)

DATA OUTPUT



8304-120

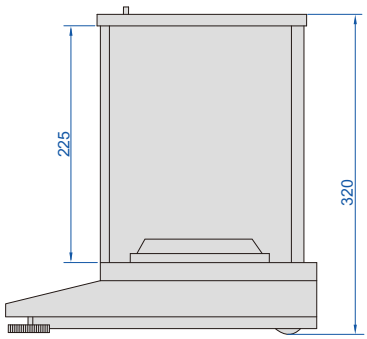


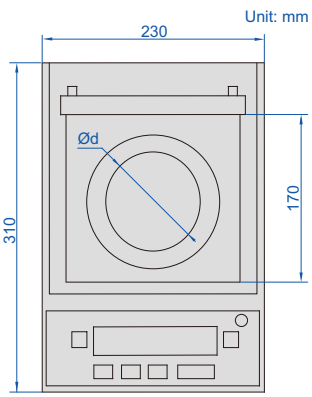
calibration weight (included)



printer (**optional**)

- Electromagnetic sensor
- Unit: g, ct, oz, lb
- Weighing, counting, taring
- Data output





SPECIFICATION

Code	8304-120	8304-220
Maximum weighing	120g	220g
Minimum weighing	10mg	10mg
Resolution (d)	0.1mg	0.1mg
Verification interval (e)	1mg	1mg
Accuracy (m is load)	m≤50g: ±0.5mg; 50g<m≤120g: ±1mg	m≤50g: ±0.5mg; 50g<m≤200g: ±1mg; m>200g: ±1.5mg
Weighing pan size (Ød)	Ø90mm	
Operation temperature	10~30°C	
Operation humidity	20~85% RH	
Power supply	power adapter (12V/2A)	
Dimension (L×W×H)	230×310×320mm	

OPTIONAL ACCESSORY

RS232 cable	8304-CABLE *
Printer	8303-PRINTER

*Used to connect with computers

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ELECTRONIC BALANCES (1mg)

DATA OUTPUT



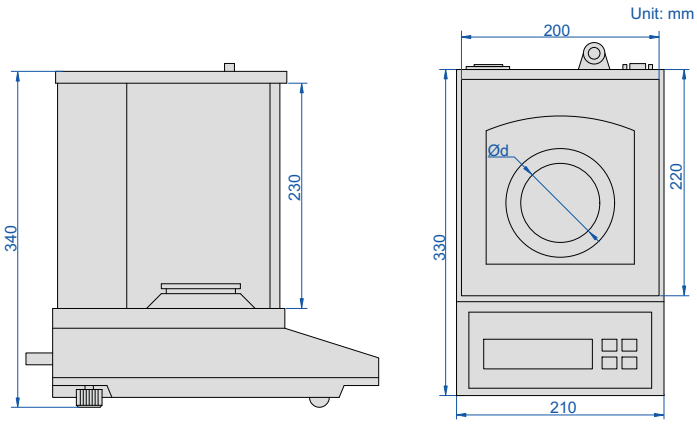
8303-520



calibration weight (included)

- Aluminum alloy shell, wind shield, three side glass sliding doors
- Electromagnetic balance sensor
- Unit: g, ct, ozt, oz, gn, dwt, mg
- Weighing, counting, taring
- Data output
- With a hook at the bottom

Unit: mm



SPECIFICATION

Code	8303-220	8303-320	8303-520	8303-620	8303-1020
Maximum weighing	220g	320g	520g	620g	1020g
Minimum weighing	20mg	20mg	100mg	100mg	100mg
Resolution (d)	1mg	1mg	1mg	1mg	1mg
Verification interval (e)	10mg	10mg	10mg	10mg	10mg
Accuracy	load capacity≤500g: ±5mg; load capacity>500g: ±10mg				
Weighing pan size (Ød)	Ø80mm				Ø120mm
Operation temperature	15~30°C		18~23°C		
Operation humidity	40%~80% RH		50%~70% RH		
Power supply	220V, 50/60Hz				
Dimension (L×W×H)	330×210×340mm				

OPTIONAL ACCESSORY

RS232 cable	8301-CABLE *
Printer	8303-PRINTER

*Used to connect with computers



printer (**optional**)

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ELECTRONIC BALANCES (0.01g)

DATA OUTPUT

VIDEO



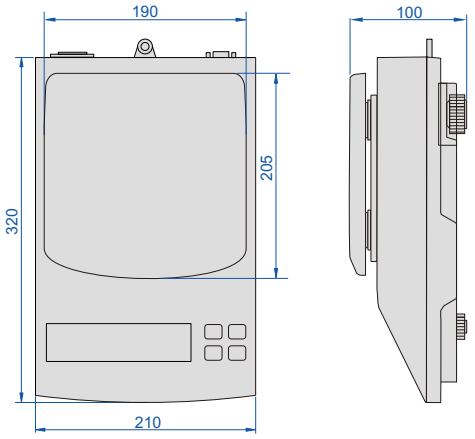
8305-5000

- LCD with back light
- Unit: g, ct, ozt, oz, GN, dwt, lb, kg
- Weighing, counting, taring



calibration weight
(included in **8305-2000** and **8305-3000**)

Unit: mm



SPECIFICATION

Code	8305-2000	8305-3000	8305-5000	8305-6000
Maximum weighing	2kg	3kg	5kg	6kg
Minimum weighing	0.2g	0.2g	0.2g	0.2g
Resolution (d)	0.01g	0.01g	0.01g	0.01g
Verification interval (e)	0.1g	0.1g	0.1g	0.1g
Accuracy (m is load)	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g m>2kg: ±0.15g	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g m>2kg: ±0.15g	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g m>2kg: ±0.15g
Weighing pan size	190×205mm			
Output	RS232			
Operation temperature	0~40°C			
Operation humidity	≤80% RH			
Power supply	220V, 50/60Hz			
Dimension (L×W×H)	320×210×100mm			

OPTIONAL ACCESSORY

RS232 cable	8301-CABLE*
Printer	8303-PRINTER

*Used to connect with computers



printer (**optional**)

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DATA OUTPUT | Ex

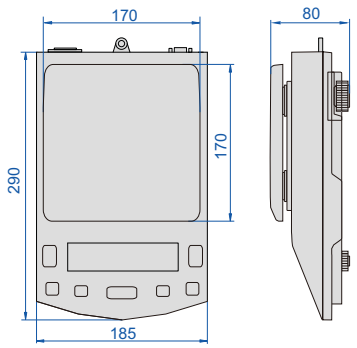
EXPLOSION PROOF ELECTRONIC BALANCES

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting
- Unit: g, ct, oz, lb, ozt



8105-30KG

Unit: mm



SPECIFICATION

Code	8105-5KG	8105-30KG
Maximum weighing	5kg	30kg
Minimum weighing	0.5g	5g
Resolution (d)	0.01g	0.1g
Verification interval (e)	0.1g	1g
Accuracy (m is load)	m≤0.05kg: ±0.05g; 0.05kg≤m≤0.2kg: ±0.1g; 0.2kg≤m≤5kg: ±0.15g	m≤0.5kg: ±0.5g; 0.5kg≤m≤2kg: ±1.0g; m>2kg: ±1.5g
Dimension of pan	170×170mm	
Output	RS232	
Operation temperature	15~30°C	
Operation humidity	40%~80% RH	
Power	explosion-proof battery, DC7.4V/4.0Ah	
Dimension (L×W×H)	290×185×80mm	

OPTIONAL ACCESSORY

RS232 cable	8105-CABLE*

*Used to connect with computers

DATA OUTPUT

ELECTRONIC BALANCES

- Automatic zero when power on
- Unit: g (gram), ct (carat), ozt (troy ounce)
- Weighing, counting, taring
- Overload alarm
- Data output



8301-3000

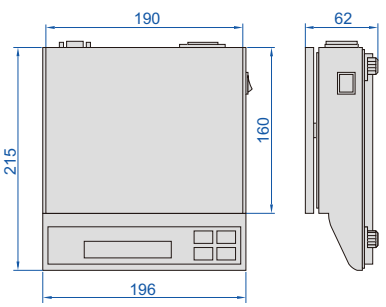


windshield
(included in **8301-300**, **8301-600** and **8301-1200**)



calibration weight
(included in **8301-300**, **8301-600** and **8301-1200**)

Unit: mm



SPECIFICATION

Code	8301-300	8301-600	8301-1200	8301-3000	8301-6000
Maximum weighing	300g	600g	1200g	3000g	6000g
Minimum weighing	0.2g	0.2g	0.2g	2g	2g
Resolution (d)	0.01g	0.01g	0.01g	0.1g	0.1g
Verification interval (e)	0.1g	0.1g	0.1g	1g	1g
Accuracy (m is load)	m≤50g: ±0.05g; 50g<m≤200g: ±0.1g; m>200g: ±0.15g			m≤500g: ±0.5g; 500g<m≤2000g: ±1g; m>2000g: ±1.5g	
Weighing pan size	Ø135mm			190×160mm	
Operation temperature	0~40°C				
Operation humidity	≤80% RH				
Power supply	220V, 50/60Hz				
Dimension (L×W×H)	215×196×62mm				

OPTIONAL ACCESSORY

RS232 cable	8301-CABLE
Data output cable (keyboard format)	7302-8001

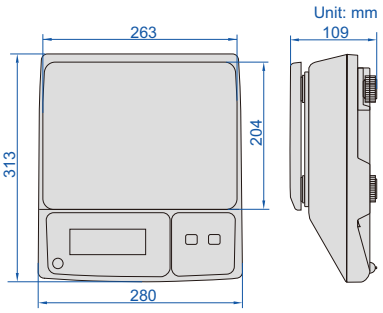
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WEIGHING SCALES (OIML CERTIFICATE)

- LCD display, with backlight
- Zero-setting, subtracting tare value
- Overload alarm
- Automatic power off
- OIML certificate (No. 0200-NAWI-04601)



8002-30M



SPECIFICATION

Code	8002-6M	8002-15M	8002-30M	8002-6MD	8002-15MD	8002-30MD
Maximum weighing	3/6kg	6/15kg	15/30kg	3/6kg	6/15kg	15/30kg
Minimum weighing	20g	40g	100g	20g	40g	100g
Resolution (d)	1/2g	2/5g	5/10g	1/2g	2/5g	5/10g
Verification interval (e)	2g	5g	10g	2g	5g	10g
Accuracy (m is load)	m≤3kg: ±1g 3kg<m≤6kg: ±2g	m≤6kg: ±2g 6kg<m≤15kg: ±5g	m≤15kg: ±5g 15kg<m≤30kg: ±10g	m≤3kg: ±1g 3kg<m≤6kg: ±2g	m≤6kg: ±2g 6kg<m≤15kg: ±5g	m≤15kg: ±5g 15kg<m≤30kg: ±10g
Output	no			RS232		
Operation temperature	-10~40°C					
Power	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)					
Dimensions of pan	263×204mm					

WEIGHING SCALES (HIGH PRECISION)

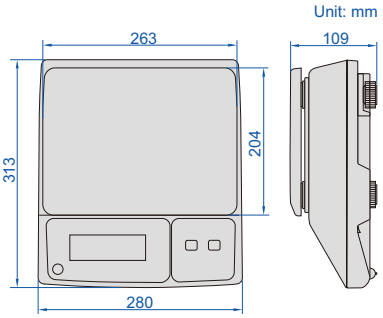


printer (**optional**)

- LCD display, with backlight
- Zero-setting, subtracting tare value
- Overload alarm
- Automatic power off



8001-30



SPECIFICATION

Code	8001-6	8001-15	8001-30	8001-6D	8001-15D	8001-30D
Maximum weighing	6kg	15kg	30kg	6kg	15kg	30kg
Minimum weighing	4g	10g	20g	4g	10g	20g
Resolution (d)	0.2g	0.5g	1g	0.2g	0.5g	1g
Accuracy (m is load)	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g
Units	kg, lb			kg		
Output	no			RS232		
Operation temperature	-10~40°C					
Power	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)					
Dimensions of pan	263×204mm					

OPTIONAL ACCESSORY (for scales with RS232)

Printer	8001-PRINTER
Data output cable (keyboard format)	7302-8001

COUNTING SCALES

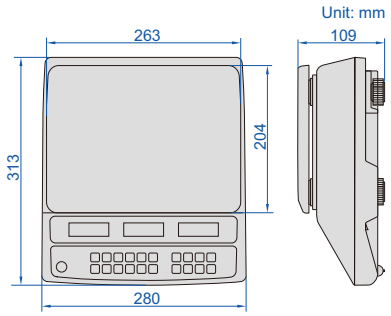


printer (**optional**)

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting, accumulation, checking alarm
- Overload alarm
- Units: kg, g, lb, tj, hj, lb-oz



8101-30



SPECIFICATION

Code	8101-6	8101-15	8101-30	8101-6D	8101-15D	8101-30D
Maximum weighing	6kg	15kg	30kg	6kg	15kg	30kg
Minimum weighing	4g	10g	20g	4g	10g	20g
Resolution (d)	0.2g	0.5g	1g	0.2g	0.5g	1g
Accuracy (m is load)	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g
Output	no			RS232		
Operation temperature	-10~40°C					
Power	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)					
Dimensions of pan	263×204mm					

OPTIONAL ACCESSORY (for scales with RS232)

Printer	8001-PRINTER

ATTENTION: LOW ACCURACY

ELECTRONIC POCKET SCALE (ECONOMIC TYPE)

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting
- Overload alarm
- Automatic power off



8601-100

SPECIFICATION

Code	8601-100
Maximum weighing	100g
Minimum weighing	0.1g
Resolution (d)	0.01g
Accuracy (m is load)	0.1g≤m≤1g: ±0.03g; 1g<m≤30g: ±0.05g 30g<m≤50g: ±0.07g; m>50g: ±0.14g
Units	g, oz, dwt, ozt
Dimension of pan	55×64mm
Dimension (L×W×H)	108×65×21mm
Operation temperature	-10~40°C
Power supply	2×AAA batteries

use of pan



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ELECTRONIC POCKET SCALE (ECONOMIC TYPE)

ATTENTION: LOW ACCURACY

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting
- Overload alarm
- Automatic power off



8602-200

SPECIFICATION

Code	8602-200
Maximum weighing	200g
Minimum weighing	0.2g
Resolution (d)	0.02g
Accuracy (m is load)	0.2g≤m≤2g: ±0.06g; 2g<m≤60g: ±0.1g 60g<m≤100g: ±0.14g; m>100g: ±0.28g
Units	g, oz, dwt, ozt
Dimension of pan	55×64mm
Dimension (L×W×H)	120×70×17mm
Operation temperature	-10~40°C
Power supply	2×CR2032 batteries

use of pan



WEIGHING SCALES (ECONOMIC TYPE)

- Unit: g, oz, lb, tl



8003-3

SPECIFICATION

Code	8003-3	8003-6	8003-10
Maximum weighing	3kg	6kg	10kg
Minimum weighing	2g	10g	20g
Resolution (d)	0.1g	0.5g	1g
Accuracy	±0.5g	±2.5g	±5g
Weighing pan size	157×157mm		
Operation temperature	5~35°C		
Power supply	2×AAA batteries, power adapter		
Dimension (L×W)	160×225mm		

DATA OUTPUT

PLATFORM SCALES

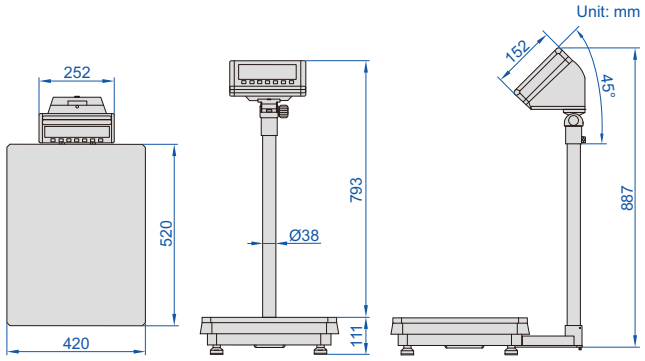


8501-AL150



printer (**optional**)

- LCD large screen display with LED backlight
- Weighing, overweight alarm, counting, keyboard lock, accumulating, auto zero and animal scale
- Unit: kg, g, lb, oz



SPECIFICATION

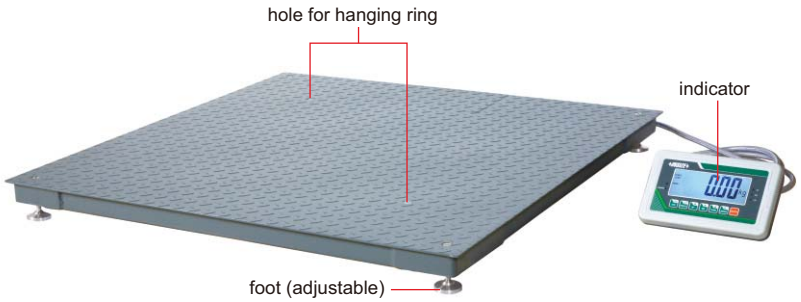
Code	8501-AL60	8501-AL150	8501-AL300
Maximum weighing	60kg	150kg	300kg
Minimum weighing	100g	200g	400g
Resolution (d)	5g	10g	20g
Accuracy	±10g	±20g	±30g
Operation temperature	-10~40°C		
Material	platform: stainless steel, base: die-cast aluminum		
Dimension of platform	420×520mm		
Power	rechargeable lead acid battery (6V/4Ah)		
Output	RS232		
Weight	18.3kg		

OPTIONAL ACCESSORY

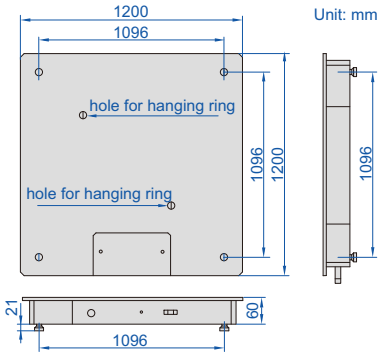
Printer	8001-PRINTER

FLOOR SCALES

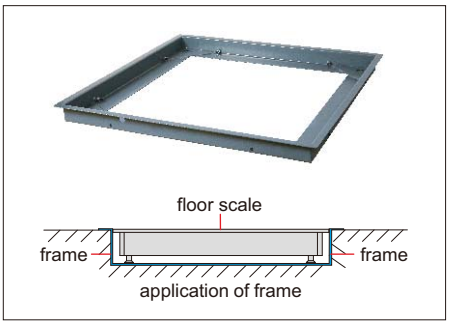
DATA OUTPUT



8401-1T1212



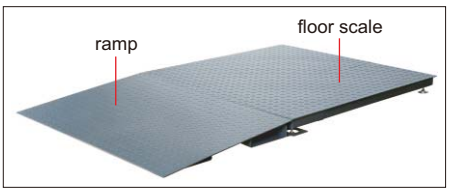
- LCD large screen display with automatic backlight
- Zero, overweight alarm, deduction, unit conversion, accumulating, animal scale, etc.
- Unit: kg, g, lb, oz
- OIML approved load cell



frame (**optional**)



stand (**optional**)



ramp (**optional**)



printer (**optional**)

SPECIFICATION

Code	8401-1T1212	8401-2T1212	8401-3T1212
Maximum weighing	1t	2t	3t
Minimum weighing	10kg	20kg	20kg
Resolution (d)	0.5kg	1kg	1kg
Verification interval (e)	0.5kg	1kg	1kg
Accuracy (m is load)	m≤250kg: ±0.25kg; 250kg<m≤1000kg: ±0.5kg	m≤500kg: ±0.5kg; 500kg<m≤2000kg: ±1kg; m>2000kg: ±1.5kg	
Load cell	4 pcs 350Ω		
Operation temperature	-10~40°C		
Material	mild steel		
Dimension of platform	1200×1200mm		
Power	rechargeable lead acid battery (6V/4Ah)		
Output	RS232		
Weight	140kg		

STANDARD DELIVERY

Main unit	1 pc
Indicator	1 pc
AC/DC adapter	1 pc
Stainless steel foot	4 pcs
Hanging ring	2 pcs

OPTIONAL ACCESSORY

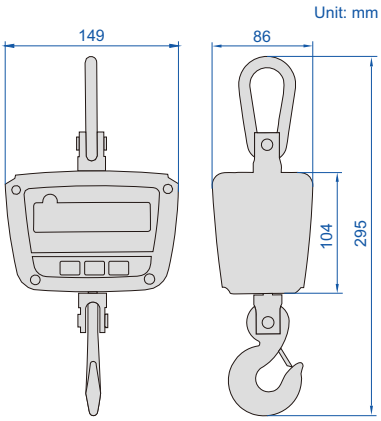
Ramp	8401-1212-1
Frame	8401-1212-2
Stand	8401-STAND
Printer	8001-PRINTER

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ELECTRONIC CRANE SCALES

IP65 WATERPROOF

- Dust/waterproof level: IP65
- LED display, remote control
- Low voltage indicator
- Unit: kg, lb
- Automatic power off
- Overload alarm
- 360° safe rotary hook and shackle
- Aluminum alloy die casting case with high strength







remote controller (included)

8201-150KG

SPECIFICATION

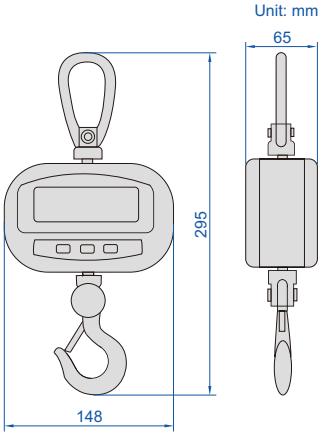
Code	8201-50KG	8201-150KG	8201-300KG
Maximum weighing	50kg	150kg	300kg
Minimum weighing	0.4kg	1.0kg	2.0kg
Resolution (d)	0.02kg/0.01kg	0.05kg/0.02kg	0.10kg/0.05kg
Verification interval (e)	0.02kg	0.05kg	0.10kg
Accuracy	±0.02kg	±0.05kg	±0.10kg
Operation temperature	-10~40°C		
Operation humidity	30%~90% RH		
Overload alarm	100%F.S.+9e		
Maximum safe load	125%F.S.		
Limited overload	400%F.S.		
Power supply	rechargeable battery 6V/3Ah (for 40 hours working)		
Stable reading time	≤8s		

STANDARD DELIVERY

Main unit	1 pc
Remote controller	1 pc
Battery charger	1 pc

ELECTRONIC CRANE SCALES (BASIC TYPE)

- LED display, remote control
- Low voltage indicator
- Unit: kg, lb
- Automatic power off
- Overload alarm
- 360° safe rotary hook and shackle
- Plastic case







remote controller (included)

8202-150KG

SPECIFICATION

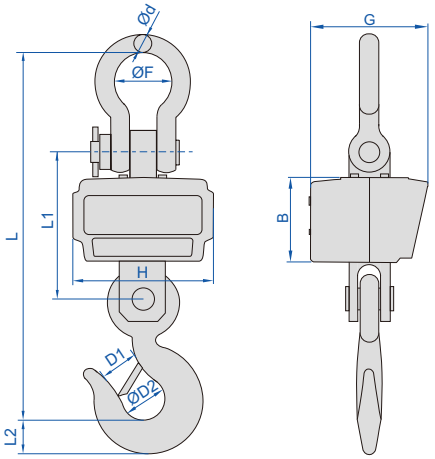
Code	8202-50KG	8202-150KG	8202-300KG
Maximum weighing	50kg	150kg	300kg
Minimum weighing	0.4kg	1.0kg	2.0kg
Resolution (d)	0.02kg/0.01kg	0.05kg/0.02kg	0.10kg/0.05kg
Verification interval (e)	0.02kg	0.05kg	0.10kg
Accuracy	±0.02kg	±0.05kg	±0.10kg
Operation temperature	-10~40°C		
Operation humidity	30%~90% RH		
Overload alarm	100%F.S.+9e		
Maximum safe load	125%F.S.		
Limited overload	400%F.S.		
Power supply	4×1.5V AA batteries (for 40 hours working)		
Stable reading time	≤8s		

STANDARD DELIVERY

Main unit	1 pc
Remote controller	1 pc

ELECTRONIC CRANE SCALES

- Zeroing, taring, weighing
- LED display, remote control
- Low voltage indicator
- Unit: kg, lb
- Overload alarm
- Automatic power off
- Aluminum alloy die casting case with high strength





8204-CS3T



remote controller (included)

(mm)

Code	B	G	H	L	L1	L2	D1	ØD2	Ød	ØF
8204-CS06T	120	163	198	420	190	33	40	47	21	76
8204-CS1T	120	163	198	420	190	33	40	47	21	76
8204-CS2T	120	163	198	420	190	33	50	47	21	76
8204-CS3T	120	163	198	462	196	40	50	50	23	76
8204-CS5T	120	163	198	511	204	47	52	60	26	80
8204-CS10T	135	181	206	589	239	66	52	70	36	90
8204-CS15T	135	181	206	727	257	77	60	85	47	135

SPECIFICATION

Code	8204-CS06T	8204-CS1T	8204-CS2T	8204-CS3T
Maximum weighing	600kg	1000kg	2000kg	3000kg
Minimum weighing	4kg	10kg	20kg	20kg
Resolution (d)	0.2kg/0.1kg	0.5kg/0.2kg	1kg/0.5kg	1kg/0.5kg
Verification interval (e)	0.2kg	0.5kg	1kg	1kg
Accuracy (m is load)	m≤100kg: ±0.1kg; 50kg<m≤200kg: ±0.2kg; m>200kg: ±0.3kg	m≤250kg: ±0.25kg; 250kg<m≤1000kg: ±0.5kg	m≤500kg: ±0.5kg; 500kg<m≤2000kg: ±1kg	m≤500kg: ±0.5kg; 500kg<m≤2000kg: ±1kg; m>2000kg: ±1.5kg
Overload alarm	100%F.S.+9e			
Maximum safe load	150%F.S.			
Limited overload	400%F.S.			
Stable reading time	≤8s			
Power supply	rechargeable battery 6V/4Ah (for 40 hours working)			
Operation temperature	-10~40°C			
Operation humidity	≤85% RH			

Code	8204-CS5T	8204-CS10T	8204-CS15T
Maximum weighing	5000kg	10000kg	15000kg
Minimum weighing	40kg	100kg	100kg
Resolution (d)	2kg/1kg	5kg/2kg	5kg/2kg
Verification interval (e)	2kg	5kg	5kg
Accuracy (m is load)	m≤1000kg: ±1kg; 1000kg<m≤4000kg: ±2kg; m>4000kg: ±3kg	m≤2500kg: ±2.5kg; 2500kg<m≤10000kg: ±5kg	m≤2500kg: ±2.5kg; 2500kg<m≤10000kg: ±5kg; m>10000kg: ±7.5kg
Overload alarm	100%F.S.+9e		
Maximum safe load	150%F.S.		
Limited overload	400%F.S.		
Stable reading time	≤8s		
Power supply	rechargeable battery 6V/4Ah (for 40 hours working)		
Operation temperature	-10~40°C		
Operation humidity	≤85% RH		

To be continued

Continued from previous page


handheld display (**optional**)


large display (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Remote controller	1 pc
Battery charger	1 pc

OPTIONAL ACCESSORY

Handheld display	**8204-INDICATOR** (must be supplied with scales together)
Large display	**8204-SCREEN** (must be supplied with scales together)

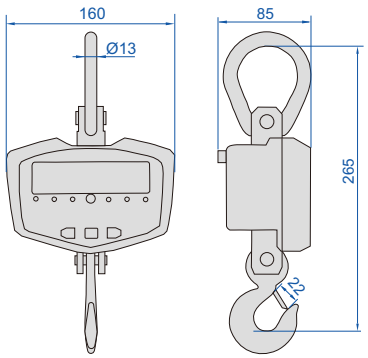
ELECTRONIC CRANE SCALES

- Zeroing, taring, weighing
- LED display, remote control
- Low voltage indicator
- Unit: kg, lb
- Overload alarm
- Automatic power off
- Aluminum alloy die casting case with high strength


8203-CW05T


remote controller (included)

Unit: mm



SPECIFICATION

Code	8203-CW03T	8203-CW05T	8203-CW1T
Maximum weighing	300kg	500kg	1000kg
Minimum weighing	2kg	4kg	10kg
Resolution (d)	0.1kg/0.05kg	0.2kg/0.1kg	0.5kg/0.2kg
Verification interval (e)	0.1kg	0.2kg	0.5kg
Accuracy (m is load)	m≤50kg: ±0.05kg; 50kg<m≤200kg: ±0.1kg; m>200kg: ±0.15kg	m≤100kg: ±0.1kg; 100kg<m≤400kg: ±0.2kg; m>400kg: ±0.3kg	m≤250kg: ±0.25kg; 250kg<m≤1000kg: ±0.5kg
Overload alarm	100%F.S.+9e		
Maximum safe load	150%F.S.		
Limited overload	400%F.S.		
Stable reading time	<10s		
Power supply	3×1.5V AA batteries		
Operation temperature	-10~40°C		
Operation humidity	30%~90% RH		

STANDARD DELIVERY

Main unit	1 pc
Remote controller	1 pc

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MOISTURE ANALYZERS

DATA OUTPUT

VIDEO





8701-RM40



calibration weight
(included)

- LCD screen
- High sensitivity temperature and humidity sensor
- Ring halogen lamp heating evenly, shorten drying time

SPECIFICATION

Code		8701-RM20	8701-RM30	8701-RM40
Maximum weighing		120g	120g	120g
Resolution (d)		5mg	1mg	0.1mg
Accuracy for moisture	sample<10g	±10%	±0.5%	±0.2%
	sample≥10g	±5%	±0.3%	±0.1%
Operation temperature		13~25°C		
Verification interval		2.5s		
Warm-up time		20~30 minutes		
Weighing pan size		Ø90mm		
Heating source		halogen lamp (450W)		
Range for heating temperature		60~200°C		
Heating time setting		0~99 minutes		
Heating mode		standard heating, step heating, rapid heating		
Shutdown mode		automatic shutdown, manual shutdown, timed shutdown		
Output		RS232C		
Power supply		220V, 50/60Hz		
Dimension (L×W×H)		330×210×340mm		

STANDARD DELIEVERY

Main unit	1 pc
Weight	1 pc

OPTIONAL ACCESSORY

RS232 cable	8304-CABLE *
Printer	8303-PRINTER

*Used to connect with computers

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INSPECTION CERTIFICATE

WEIGHTS



1kg 200g 500mg 200mg 100mg

- Supplied with manufacturer inspection certificate

CLASS SELECTION

Resolution of the weighing instruments	Required class of weights
0.001mg	E1
0.01mg	E2
0.1mg	E2/F1
1mg	F2
0.01g/0.1g	M1

OIML R111-2004 TOLERANCE

Weight	E2	F1	F2	M1
1mg	0.006mg	0.020mg	0.06mg	0.20mg
2mg	0.006mg	0.020mg	0.06mg	0.20mg
5mg	0.006mg	0.020mg	0.06mg	0.20mg
10mg	0.008mg	0.025mg	0.08mg	0.25mg
20mg	0.010mg	0.03mg	0.10mg	0.3mg
50mg	0.012mg	0.04mg	0.12mg	0.4mg
100mg	0.016mg	0.05mg	0.16mg	0.5mg
200mg	0.020mg	0.06mg	0.20mg	0.6mg
500mg	0.025mg	0.08mg	0.25mg	0.8mg
1g	0.03mg	0.10mg	0.3mg	1.0mg
2g	0.04mg	0.12mg	0.4mg	1.2mg
5g	0.05mg	0.16mg	0.5mg	1.6mg
10g	0.06mg	0.20mg	0.6mg	2.0mg
20g	0.08mg	0.25mg	0.8mg	2.5mg
50g	0.10mg	0.3mg	1.0mg	3.0mg
100g	0.16mg	0.5mg	1.6mg	5.0mg
200g	0.3mg	1.0mg	3.0mg	10mg
500g	0.8mg	2.5mg	8.0mg	25mg
1kg	1.6mg	5.0mg	16mg	50mg
2kg	3.0mg	10mg	30mg	100mg
5kg	8.0mg	25mg	80mg	250mg
10kg	16mg	50mg	160mg	500mg
20kg	30mg	100mg	300mg	1000mg

Weight	Class and material						Shape
	E2 (non-magnetic stainless steel)	F1 (non-magnetic stainless steel)	F1 (304 stainless steel)	F2 (304 stainless steel)	M1 (304 stainless steel)	M1 (steel, chrome plated)	
1mg	8911-1MGE2	8911-1MGF1	8911-1MGF1S	8911-1MGF2	8911-1MGM1		
2mg	8911-2MGE2	8911-2MGF1	8911-2MGF1S	8911-2MGF2	8911-2MGM1		
5mg	8911-5MGE2	8911-5MGF1	8911-5MGF1S	8911-5MGF2	8911-5MGM1		
10mg	8911-10MGE2	8911-10MGF1	8911-10MGF1S	8911-10MGF2	8911-10MGM1		
20mg	8911-20MGE2	8911-20MGF1	8911-20MGF1S	8911-20MGF2	8911-20MGM1	–	sheet
50mg	8911-50MGE2	8911-50MGF1	8911-50MGF1S	8911-50MGF2	8911-50MGM1		
100mg	8911-100MGE2	8911-100MGF1	8911-100MGF1S	8911-100MGF2	8911-100MGM1		
200mg	8911-200MGE2	8911-200MGF1	8911-200MGF1S	8911-200MGF2	8911-200MGM1		
500mg	8911-500MGE2	8911-500MGF1	8911-500MGF1S	8911-500MGF2	8911-500MGM1		
1g	8911-1GE2	8911-1GF1	8911-1GF1S	8911-1GF2	8911-1GM1		
2g	8911-2GE2	8911-2GF1	8911-2GF1S	8911-2GF2	8911-2GM1	–	
5g	8911-5GE2	8911-5GF1	8911-5GF1S	8911-5GF2	8911-5GM1		
10g	8911-10GE2	8911-10GF1	8911-10GF1S	8911-10GF2	8911-10GM1	8911-10GM1C	
20g	8911-20GE2	8911-20GF1	8911-20GF1S	8911-20GF2	8911-20GM1	8911-20GM1C	
50g	8911-50GE2	8911-50GF1	8911-50GF1S	8911-50GF2	8911-50GM1	8911-50GM1C	
100g	8911-100GE2	8911-100GF1	8911-100GF1S	8911-100GF2	8911-100GM1	8911-100GM1C	
200g	8911-200GE2	8911-200GF1	8911-200GF1S	8911-200GF2	8911-200GM1	8911-200GM1C	cylinder
500g	8911-500GE2	8911-500GF1	8911-500GF1S	8911-500GF2	8911-500GM1	8911-500GM1C	
1kg	8911-1KGE2	8911-1KGF1	8911-1KGF1S	8911-1KGF2	8911-1KGM1	8911-1KGM1C	
2kg	8911-2KGE2	8911-2KGF1	8911-2KGF1S	8911-2KGF2	8911-2KGM1	8911-2KGM1C	
5kg	8911-5KGE2	8911-5KGF1	8911-5KGF1S	8911-5KGF2	8911-5KGM1	8911-5KGM1C	
10kg	8911-10KGE2	8911-10KGF1	8911-10KGF1S	8911-10KGF2	8911-10KGM1	8911-10KGM1C	
20kg	8911-20KGE2	8911-20KGF1	8911-20KGF1S	8911-20KGF2	8911-20KGM1	8911-20KGM1C	

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WEIGHT SETS

INSPECTION CERTIFICATE

- Supplied with manufacturer inspection certificate



8910-200GF1

CLASS AND MATERIAL

Specification	Code				
	E2 (non-magnetic stainless steel)	F1 (non-magnetic stainless steel)	F1 (304 stainless steel)	F2 (304 stainless steel)	M1 (304 stainless steel)
1mg~100g	8910-100GE2	8910-100GF1	8910-100GF1S	8910-100GF2	8910-100GM1
1mg~200g	8910-200GE2	8910-200GF1	8910-200GF1S	8910-200GF2	8910-200GM1
1mg~1kg	8910-1KGE2	8910-1KGF1	8910-1KGF1S	8910-1KGF2	8910-1KGM1
1mg~2kg	8910-2KGE2	8910-2KGF1	8910-2KGF1S	8910-2KGF2	8910-2KGM1
1mg~5kg	8910-5KGE2	8910-5KGF1	8910-5KGF1S	8910-5KGF2	8910-5KGM1

SPECIFICATION AND SHAPE

Weight	Specification				
	1mg~100g	1mg~200g	1mg~1kg	1mg~2kg	1mg~5kg
1mg	⬟	⬟	⬟	⬟	⬟
2mg	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*
5mg	⬟	⬟	⬟	⬟	⬟
10mg	⬟	⬟	⬟	⬟	⬟
20mg	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*
50mg	⬟	⬟	⬟	⬟	⬟
100mg	⬟	⬟	⬟	⬟	⬟
200mg	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*	⬟ ⬟*
500mg	⬟	⬟	⬟	⬟	⬟
1g	▮	▮	▮	▮	▮
2g	▮ ▮*	▮ ▮*	▮ ▮*	▮ ▮*	▮ ▮*
5g	▮	▮	▮	▮	▮
10g	▮	▮	▮	▮	▮
20g	▮ ▮*	▮ ▮*	▮ ▮*	▮ ▮*	▮ ▮*
50g	▮	▮	▮	▮	▮
100g	▮	▮	▮	▮	▮
200g		▮ ▮*	▮ ▮*	▮ ▮*	▮ ▮*
500g			▮	▮	▮
1kg			▮	▮	▮
2kg				▮ ▮*	▮ ▮*
5kg					▮
Quantity	21 pcs	23 pcs	25 pcs	27 pcs	28 pcs
Total range	1mg~211.11g	1mg~611.11g	1mg~2111.11g	1mg~6111.11g	1mg~11111.11g

⬟ sheet ▮ cylinder

⬟* sheet, with mark ▮* cylinder, with mark

SALT SPRAY TESTERS, TEMPERATURE AND HUMIDITY TESTERS

35



Salt Spray Testers
Page 820



Temperature And Humidity Testers
Page 821-822

SALT SPRAY TESTER
CODE SFT-S210R

VIDEO



- Using plastic precision nozzle and conical spray device, the salt spray drops evenly and rapidly, the nozzle has a long working life and does not crystallize
- The spraying time can be controlled internally without external time relay
- The flow rate of salt water and the pressure of compressed air are regulated by flow meter and pressure regulating valve to ensure uniform salt spray settlement
- Manual water adding system can automatically replenish when the water level is insufficient to ensure uninterrupted test

SPECIFICATION

Test condition	suitable for neutral and acid salt spray test
Working chamber dimension (WxHxD)	900x500x600mm
Working chamber volume	270L
Saline tank volume	25L
Working chamber temperature	35±1°C
Saturated barrel temperature	47±1°C
Saline temperature	35±1°C
Heating mode	heat radiation
Spray mode	continuous, intermittent
Test fluid	neutral: purified water+sodium chloride (PH6.5~7.2)
Compressed air pressure	2~3kgf/cm²
Power supply	AC 220V, 1Ø, 50HZ, 2kW
Dimension (WxHxD)	1560x1250x910mm
Weight	118kg

STANDARD DELIVERY

Main unit	1 pc
Stick	1 group
Sodium chloride	2 bottles
10L salt water preparation measuring cup	1 pc
80ml standard cup	2 pcs
50ml metering cup	2 pcs

OPTIONAL DELIVERY

Nozzle	**SFT-S210R-NOZZLE**
Brine Filter	**SFT-S210R-FILTER**

VIDEO

TABLE TYPE TEMPERATURE AND HUMIDITY TESTER
CODE THT-Z158



- Table design, quiet and small
- Equipped with operation system with 7-inch touch screen controller
- Intelligent refrigeration and dehumidification system, it can save 30~45% of electricity compared with traditional machines
- Output excel data report through USB port

SPECIFICATION

Working chamber dimension (WxHxD)		300x350x300mm
Working chamber volume		32L
Temperature range		-40~120°C
Humidity range		20~98%RH
Temperature/humidity fluctuation		≤2°C, ±3%RH
Temperature/humidity uniformity		±0.5°C, ±2.5%RH
Temperature/humidity stability		±0.3°C, 2.5%RH
Warming up time		1~3°C/min
Cooling time		0.7~1°C/min
Operation environment	**environment temperature**	5~35°C
	relative humidity	≤85%RH
Material	**case material**	cold rolled steel plate+varnish
	working chamber material	SUS#304 stainless steel
	thermal insulation material	polyurethane foam
Freezing system		compressor
Protector		compressor overload protection switch, refrigerant high pressure protection switch, ceramic fuse, water plate of water shortage protection switch, electromagnetic switch, air burn protection switch, alarm
Power supply		AC220, 50/60HZ, 2kW
Dimension (WxHxD)		550x850x1050mm
Weight		185kg

STANDARD DELIVERY

Main unit	1 pc
Test hole	1 pc
Shelf	2 pcs

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TEMPERATURE AND HUMIDITY TESTERS

VIDEO



THT-A101T

- The tester is equipped with an independent operation system with 7-inch touch screen controller
- Intelligent refrigeration and dehumidification system, combined with energy-saving control algorithm, can adjust the refrigeration level and save energy. Compared with traditional machines, it can save 30~45% of electricity
- It can output excel data report through USB port

SPECIFICATION

Code		THT-A101T	THT-A102T	THT-A103T	THT-A104T	THT-A105T
Working chamber dimension (WxHxD)		500x600x500mm	500x500x400mm	500x750x600mm	700x850x700mm	1000x1000x1000mm
Working chamber volume		150L	100L	225L	416L	1000L
Temperature range		-40~150°C				
Humidity range		10~98%RH				
Temperature/humidity fluctuation		±0.5°C, ±2.5%RH				
Temperature/humidity uniformity		<2°C, 5%RH				
Temperature/humidity stability		0.2°C, 2%RH				
Temperature/humidity deviation		±2°C, 3%RH				
Warming up time		about 3°C/min				
Cooling time		about 1°C/min				
Material	case material	cold rolled steel plate+varnish				
	working chamber material	SUS#304 stainless steel				
	thermal insulation material	rigid polyurethane foam				
Freezing system		compressor				
Protector		no fuse switch, compressor overpressure, overheat protection, overtemperature protection, overload protection, dry burning protection, water shortage protection, etc				
Power supply		AC220V, 50HZ, 4.5kW	AC220V, 50HZ, 2kW	AC380V, 3Ø, 50HZ, 4kW	AC380V, 3Ø, 50HZ, 3.5kW	AC380V, 3Ø, 50HZ, 3.5kW
Dimension (WxHxD)		800x1660 x1400mm	750x1550 x1170mm	850x1750 x1200mm	950x1850 x1400mm	1300x1950 x1850mm
Weight		365kg	285kg	385kg	510kg	950kg

STANDARD DELIVERY

Main unit	1 pc
Test hole	1 pc
Shelf	2 pcs

CODE NO. INDEX

CODE	PAGE
00	
0010	654
0020	640
0021	641
01	
0110	653
0120	651
0130	656
0131	655
0132	656~657
0140	652
02	
0210	662
0213	663
0215	663
03	
0310	666
0311	664
0312	628
0313	665
0314	667
0320	666
04	
0411	647
0431	648
05	
0501	659
06	
0611	657
0612	658
11	
1102	20
1103	20
1106	33
1108	21
1109	22
1110	24
1111	25
1113	19
1114	21
1115	20
1117	34
1118	19
1119	22
1120	45
1121	44
1122	56
1123	53
1124	41
1125	38~39
1128	48
1129	47
1130	23
1135	35
1136	34
1138	54
1139	26
1140	73
1141	66
1142	67
1143	70
1144	68
1145	73
1146	264
1147	67
1148	69
1149	66
1150	84
1151	86
1154	87
1155	81
1156	85
1157	82
1158	83
1160	373
1161	58
1162	63
1163	263
1165	60
1166	393
1167	63
1168	64
1169	51
1170	25
1171	25
1172	60
1173	32
1176	46
1177	55
1178	48
1179	58
1180	194
1181	62
1183	52
1184	57
1185	50
1186	57
1187	50
1188	52
1189	191
1191	49
1192	54
1193	23
1196	21
1199	47
12	
1201	26
1202	27
1203	26
1204	26
1205	27
1207	35
1208	36
1210	36
1214	37
1215	37
1217	28
1223	28
1224	29
1226	29
1229	62
1233	27
1236	35
1238	28
1239	29
1240	70
1243	72
1244	72
1247	71
1248	71
1249	71
1250	87
1251	88
1253	87
1262	46
1267	194
1273	61
1275	392
1281	62
1291	49
13	
1311	26
1312	26
1340	70
1351	86
15	
1501	192
1520	43
1524	55
1525	56
1526	39~40
1527	59
1528	59
1530	42
1532	53
1533	60
1534	53
1535	51
1536	61
1537	195
1538	64
1539	61
1540	68
21	
2103	202
2104	202
2108	206
2109	207
2112	200
2114	207
2115	204
2116	201
2117	209
2118	208
2121	248
2122	176
2124	171
2126	175
2127	177
2128	177
2131	252
2132	253
2133	212
2134	211
2137	206
2138	203
2139	203
2140	213
2141	76
2142	74
2143	77
2144	351
2145	77
2146	265
2147	265
2149	210
2151	249
2152	174
2153	174
2163	263
2164	263
2166	262
2167	262
2168	264
2170	445
2171	336
2174	335
2175	444
2176	336
2177	335
2179	444
2182	267
2183	190
2184	262
2186	261
2187	305
2188	189
2189	267
2197	191
2198	445
2199	443
22	
2222	248
2223	251
2230	271
2231	272
2232	275
2233	274
2234	269
2235	270
2236	279
2237	277
2240	271
2241	273
2242	275
2243	274
2245	269
2246	278
2247	276

CODE NO. INDEX

CODE	PAGE
2250	281
2251	280
2260	281
2261	280
2274	391
2275	346
2276	389
2278	390
2280	346
2281	391
2282	392
23	
2301	214
2302	216
2307	218
2308	214
2309	217
2310	216
2311	214
2313	213
2314	215
2316	218
2318	217
2321	249
2322	176
2324	215
2326	218
2328	216
2332	253
2333	252
2334	250
2341	75
2342	75
2343	74
2344	618
2348	179
2361	255
2363	256
2364	254
2365	255
2366	254
2367	259
2372	339
2373	339
2374	338
2380	197
2381	197
2383	197
2385	432
2386	198
2394	439
2395	181
2396	224
2397	439
2398	198
2399	198
24	
2480	199
25	
2501	205

CODE	PAGE
2511	190
27	
2710	257
2711	251
2715	187
2716	188
2724	178
2771	340
28	
2801	215
2824	178
2825	175
2827	177
2828	177
2841	266
2843	618
2844	619
2852	174
2853	174
2859	260
2862	257
2863	257
2866	257
2870	257
2871	254
2872	255
2873	259
2876	259
2877	256
2878	258
2879	256
29	
2931	90
31	
3101	101
3102	103
3108	102
3109	104
3127	168~169
3128	170
32	
3202	106
3203	107
3205	113
3206	110
3208	109
3209	109
3210	108
3220	158
3221	159
3222	161
3224	160
3225	162
3226	166
3227	167~168
3228	170
3229	160
3230	125

CODE	PAGE
3231	109
3232	129
3233	132
3234	139
3235	113
3236	110
3238	142
3239	138
3240	78
3241	79
3260	135
3261	134
3262	138
3263	147
3264	147
3266	131
3280	141
3281	120
3282	145
3283	143
3285	148
3287	117
3288	137
3290	140
3291	124
3292	147
3293	148
3294	145
3296	116
3297	127
33	
3331	116
3332	114
3334	261
3335	260
3346	114
3350	97
3351	98
3352	130
3353	146
3354	126
3355	136
3356	133
3358	96
34	
3400	108
35	
3506	111
3520	159
3521	163
3530	125
3532	129
3533	132
3534	139
3538	142
3539	138
3540	78
3560	135
3561	134
3562	139

CODE	PAGE
3565	104
3566	131
3580	141
3581	121
3583	143
3588	137
3590	140
3591	124
3594	145
3597	127
36	
3632	99
3634	163
3635	164
3636	122
3638	165
3641	165
3650	128
3653	137
3658	131
3659	125
3661	100
3675	112
3676	144
3677	144
3678	159
3679	158
3680	118
3681	106
3682	105
3683	162
3684	161
3685	115
37	
3701	105
40	
4001	293
4002	297
4004	416
4006	415
41	
4100	287
4101	288
4105	285
4106	286
4107	290
4108	289
4110	300
4111	284
4118	300
4120	317
4121	324
4124	307
4129	318~322
4130	313
4131	323
4139	314~316
4141	341
4142	411

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

CODE	PAGE
4143	414
4144	340
4147	349
4155	417
4157	359
4158	418
4160	291
4164	289
4166	299
4168	309
4176	290
4177	331
4178	332~333
4179	79
4180	349
4184	148
4190	308
4191	350
4192	301
4193	298
4194	298
4198	483
42	
4206	181
4208	181
4209	182
46	
4601	363
4602	363
4605	364
4608	364
4621	366
4622	366
4623	365
4624	365
4630	374
4647	325
4649	311
4683	172~173
4662	309
4666	312
4676	310
4677	326~330
47	
4700	348
4701	346
4702	348
4706	348
4707	345
4710	341
4720	357
4721	355
4722	358
4723	356
4725	353
4726	354
4728	359
4731	354
4732	355
4733	358
4745	347
4747	347
4754	348
4760	347
4762	347
4770	342
4771	360
4780	337
4781	337
4782	357
4786	355
4788	356
4789	353
4790	342
4791	343
4792	345
4793	344
4794	343
4795	345
4796	344
4797	338
4799	337
48	
4801	370
4802	370
4803	372
4804	370
4806	369
4807	369
4808	372
4809	372
4810	368
4812	369
4820	367
4824	368
4829	389
4830	375
4831	376
4832	376
4833	374
4834	377
4835	379
4836	376
4837	374
4838	378
4839	381
4840	380
4841	381
4842	371
4843	371
4844	195
4845	619
4846	380
4847	377
4848	377
4849	379
4850	379
4851	380
4852	375
4853	373
4854	371
4855	375
4860	368
4865	266
49	
4902	446
4903	447
4905	447
4906	446
4907	447
4908	447
4910	448
4911	450
4912	448
4913	449
4914	450
4917	452
4918	451
4920	451
4921	449
4922	449
4923	451
50	
5013	399
5021	395
5022	395
5023	396
5024	396
5031	396
5032	396
5041	397
5042	397
5051	397
5052	398
5061	398
5062	398
5063	399
5064	382
5071	382
5072	382
5091	399
51	
5101	563
5102	565
5103	567
5104	564
5106	573
5107	569
5108	566
5109	568
52	
5201	653
53	
5301	532
5302	528
5303	531
5305	575
5307	547
5309	556~557
5310	538~539
5311	558~559
5313	533
5314	429~430
5315	529~530
5316	544
5317	545~546
5318	534
5319	548
57	
5700	624
5701	623~624
5702	620
5704	624
58	
5801	649
5802	649
5803	650
59	
5900	659
61	
6140	29
6141	72
6143	51
6144	31
6145	31
6146	32
62	
6202	236
6207	237
6208	234
6210	234
6211	237
6212	237
6214	238
6215	237
6216	236
6217	238
6219	233
6221	236
6224	235
6225	239
6226	238
6227	239
6228	235
6229	233
6230	239
6250	275
6251	270
6252	273
6254	281
6272	235
6282	219~221
6284	199
6291	232
6293	231
6294	232
6295	232
6296	231

CODE NO. INDEX

CODE	PAGE
6297	231
6298	199
63	
6300	150
6301	150
6302	149
6307	153
6309	30
6310	151
6312	306
6315	149
6316	304
6318	152
6328	297
6329	297
6353	153
6372	154
6373	154
6375	156
6377	156
6381	155
6384	154
6385	154
6386	155
6387	155
6388	156
6391	357
65	
6511	414
6512	412~413
6519	421
6520	421
6521	420
6522	419
6523	419
6524	420
6526	421
6527	418
6528	420
6531	415
6533	413
6534	413
6535	416
6536	418
6537	411
6538	419
6539	411
6547	416
6548	417
6549	417
6553	438
6554	438
6555	439
6556	438
6557	438
6558	435
6562	434
6566	433
6567	434
6568	434
6571	432

CODE	PAGE
6572	433
6573	433
6582	422
6583	425
6584	423
6585	424
6586	424
6587	424
6588	425
68	
6801	409
6802	405
6803	405
6804	406
6805	407
6806	406
6832	378
6841	240
6842	244
6843	92
6844	91
6845	245
6846	245
6847	93
6852	351
6862	243
6863	242
6864	242
6865	246
6866	240
6867	241
6869	243
6870	241
6874	295
6875	674
6876	240
6878	410
6879	415
6880	79
6881	292
6882	294
6883	291
6884	296
6885	483
6886	291
6887	407
6888	407
6889	408
6890	409
6891	410
6892	410
6896	404
6897	408
6898	404
69	
6900	402
6902	403
6903	403
6990	394
71	

CODE	PAGE
7101	460
7102	460
7106	229
7107-1	230
7107-11	228
7107-11V	228
7107-12	228
7107-12V	228
7107-2	230
7107-3	230
7110	388
7111	350
7113	387
7114	183
7117	349
7118	350
7119	388
7120	392
7123	389
7130	225~226
7131	225
7134	227~228
7135	182
7136	183
7139	386
7140	384
7142	385
7143	386
7144	386
7145	387
7146	387
7150	88
7160	594
7161	595
7162	594
7163	595
7164	595
72	
7202	393
7203	393
7205	392
7210	14~15
7230	394
7231	394
7232	394
7240	383
7241	383
7247	384
7260	384
7261	383
7262	383
73	
7302	12~13
7304	17
7305	8~11
7315	4~7
7317	2~3
7321	166
7324-HUB4	16
7324-HUB7	16
7325	17

CODE	PAGE
7327	17
7330	223
7331	222
7332	222
7333	222
7338	395
7340	301
7341	302
7342	301
7344	303
7350	180
7351	179
7353	180
7360	209
7381	122
7382	117
7383	123
7384	119
7385	166
7386	151
7390	119
7391	124
7393	123
7394	118
75	
7511	590
7512	593
7513	592
7514	590
7515	590
7516	587
7517	587
7518	593
7520	587
7521	587
7522	592
7523	594
7524	590
7525	588
7526	589
7527	591
7528	591
7529	592
7530	593
76	
7600	650
80	
8001	808
8002	808
8003	810
81	
8101	809
8105	807
82	
8201	813
8202	813
8203	815
8204	814~815

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

CODE NO. INDEX

CODE	PAGE
83	
8301	807
8303	805
8304	804
8305	806
8310	803
84	
8401	812
85	
8501	811
86	
8601	809
8602	810
87	
8701	816
89	
8910	818
8911	817
91	
9130	662
9132	661
92	
9216	642
9223	638
9224	639
9225	639
9241	641
9242	643
9246	644
9247	643
93	
9315	645
9341	651
9351	655
9353	654
9362	665
94	
9401	461
9408	461
9410	431
9411	437
9412	436
9413	427~428
95	
9501	615
9503	617
9561	647
9563	385
96	
9631	714
9643	746
97	
9710	622
9720	641
9721	646
9722	646
9723	646
CMM	
CMM-MN432	475~476
CMM-ST□□□	477~479
CMM-CM□□□	479~480
CMM-BE□□□	479~480
CST	
CST-D101	749
CST-D102	749
DBC	
DBC-M660	628
DSW	
DSW-A010	650
GRL	
GRL-L340	453
HDT	
HDT-A410	700~701
HDT-A510	700~701
HDT-A610	700~701
HDT-B-□□□	747~748
HDT-B430	736
HDT-BRV130	726
HDT-CB320	728~729
HDT-L410	735
HDT-L411	737
HDT-LP200	733
HDT-LP200B	733
HDT-MV280	717
HDT-MV280S	717
HDT-MV290	716
HDT-MV290S	716
HDT-MVH1100	715
HDT-PB350	741
HDT-RA151	709
HDT-RSR100	712
HDT-RT151	704~705
HDT-RT152	704~705
HDT-RT153	704~705
HDT-RW160	711
HDT-VD□□□	720
HDT-VS1D	718~719
HDT-VS530	721
HDT-WL320	728~729
HDT-WP201	734
HDT-XB500	722
HSM	
HSM-A310	468
ISD	
ISD-CL□□□	524
ISD-E320	513~514
ISD-E430	513~514
ISD-H210	511
ISD-H320	511
ISD-H430	511
ISD-V150A	512~513
ISD-V220□□□	515~516
ISD-V250A	512~513
ISD-V270□□□	515~516
ISD-V300A	512~513
ISD-V370□□□	515~516
ISD-V400A	512~513
ISD-V500HN	517~518
ISD-V500N	517~518
ISD-VMM□□□	526~527
ISE	
ISE-2DT	442
ISE-L051	441
ISE-L051L	441
ISF	
ISF-1DF□□□	773
ISF-DF□□□	772
ISF-F□□□	774
ISF-H20A	776
ISF-H20D	776
ISF-MT1K	773
ISF-MT500	774
ISF-P30A	777
ISF-P30D	777
ISF-RH62	775
ISF-RV61	775
ISF-S□□□	771
ISF-TG□□□	777
ISF-V10A	776
ISF-V10D	776
ISGF	
ISGF-0501	394
ISGF-090	394
ISH	
ISH-BRV	727
ISH-DSA	743
ISH-DSD	743
ISH-DSOO	743
ISH-DS-STANDA	744
ISH-MR150	708
ISH-MRD200	706
ISH-OS2	745
ISH-PHB	730
ISH-PHB-B	731
ISH-PH-SP9	738
ISH-R150	710
ISH-RD200	707
ISH-RSR400	702~703
ISH-RSR500	702~703
ISH-RSR600	702~703
ISH-S30A	744
ISH-S30D	744
ISH-SAM	745
ISH-SDM	745
ISH-SPHA	732
ISH-STAC	746
ISH-STD	746
ISH-TDV1000A	713
ISHB	
ISHB-B300	743
ISHB-C161	742
ISHB-D200	723
ISHB-D300	723
ISHB-H131	741
ISHB-M100	724
ISHB-MSA	725
ISHB-P101	740
ISHR	
ISHR-B141	739
ISHR-D121	738
ISHR-M111	739
ISHR-P151	740
ISHR-T100	698~699
ISHR-T200	698~699
ISHR-T300	698~699
ISHW	
ISHW-B□□□	742
ISHW-L□□□	742
ISL	
ISL-A1-□□□	455~456
ISL-A5-□□□	455~456
ISL-B1-□□□	456~457
ISL-B5-□□□	455~457
ISL-DR2	458
ISL-DR3	458
ISL-SET1	459
ISM	
ISM-AD-□□□	586
ISM-CM20	580~581
ISM-CM63	578~579
ISM-CT820	549
ISM-DL300	535~536
ISM-DL301	535~536
ISM-DL302	537
ISM-DL400	551~552
ISM-DL510	542~543
ISM-DL520	540~541
ISM-DL-COAXIAL	554
ISM-DL-LED	554
ISM-DL-OB□□□	555
ISM-DL-STAGE1	553
ISM-LED-100L4	553
ISM-LED-9245R	553
ISM-LED-BRACKET	554
ISM-LED-CTRL	553
ISM-MAS100	584~585
ISM-MP8B	582~583
ISM-MV10	579
ISM-PM□□□	586
ISM-PM200SA	560
ISM-PM200SB	560
ISM-POL1000	576

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

CODE NO. INDEX

CODE	PAGE
ISM-WF200	561~562
ISM-ZS100	571
ISM-ZS100T	571
ISM-ZS200	570
ISM-ZS30	574
ISM-ZS50	572
ISM-ZS50T	572
ISM-ZS70-S	577
ISM-ZS-LED	554
ISO	
ISO-1000FN	617
ISO-1200FN	616
ISO-8000FN	614
ISP	
ISP-A1000E	495~496
ISP-A3000E	499~500
ISP-A5000E	497~498
ISP-A6000	503~504
ISP-A6000E	503~504
ISP-A7000E	501~502
ISP-AZ3020	497~498
ISP-W3020	499~500
ISP-W4025	501~502
ISP-Z3015	495~496
ISQ	
ISQ-20-□□□	481
ISQ-25-□□□	481
ISQ-30-□□□	481
ISQ-35-□□□	481
ISQ-40-□□□	482
ISQ-45-□□□	482
ISQ-50-□□□	482
ISQ-55-□□□	482
ISQ-DG6	620
ISQ-DG8	621
ISQ-DRM31	648
ISQ-PK100	625
ISQ-RA600	186
ISQ-RM30	649
ISQ-TS120K	640
ISR	
ISR-C002	685~686
ISR-C003	693
ISR-C200	683~684
ISR-C300	687~689
ISR-CS□□□	694
ISR-CS017	694
ISR-CS018	694
ISR-CS130-W	693
ISR-LS□□□	695
ISR-RS□□□	695
ISR-T120	690~692
IST	
IST-04TT□□□	780
IST-06TS1100	782
IST-06TS2000	782
IST-06TS350	782
IST-11WM□□□	792~793
IST-13W□□□	790
IST-15W□□□	791
IST-19WM□□□	796
IST-25WM□□□	795~796
IST-2W□□□	787~788
IST-3SD200	783
IST-3SD400	783
IST-3SD50	783
IST-4W□□□	789
IST-5W□□□	798
IST-9WM□□□	794
IST-DCT□□□	779
IST-DS□□□	784
IST-DT□□□	801
IST-DTT1	779
IST-DTT10	779
IST-DTT5	779
IST-DW□□□	797
IST-MG□□□	784
IST-PW□□□	797
IST-SD200	782
IST-SD400	782
IST-SD50	782
IST-ST□□□	800~801
IST-TM□□□	799
IST-TT□□□	781
IST-W□□□	786
IST-WP6	785
IST-WS□□□	785
ISU	
ISU-100D	637
ISU-250C	636
ISU-300D	635
ISU-700D	634
ISU-710D	633
ISU-720D	632
ISU-800D	631
ISU-PB3	473
ISU-PB5	473
ISU-S□□□	638
ISV	
ISV-1H□□□	611
ISV-1HLED	612
ISV-1LED1	612
ISV-2CAM	612
ISV-E30	607
ISV-E40	606
ISV-K□□□	603
ISV-L	599~601
ISV-P6	604
ISV-S	602
ISV-S106	605
ISV-T105	605
ISV-VP280	610
ISV-Y	597~598
ISY	
ISY-100	488~489
ISY-200	484
ISY-300	486
ISY-400	487
ISY-500	485
ISY-600	490
ISY-700	523
ITM	
ITM-S300J	770
LDM	
LDM-030	462
LDM-065	462
LDM-D090	463
MLP	
MLP-10□□□	761
MLP-20□□□	761
MLP-30□□□	761
MLP-40□□□	761
MLP-50□□□	761
MLP-60□□□	761
MLP-CM1	763
MLP-CM2	763
MLP-CM3	763
MLP-CM4	763
MLP-CM5	763
MLP-CM6	763
MLP-CM60	752
MLP-CM86	753
MLP-DL□□□	764
MLP-DQ□□□	761
MLP-DR□□□	762
MLP-GP260	755
MLP-GP270	756
MLP-GP280	756
MLP-GP305	754
MLP-GP314	757
MLP-HCM102	751
MLP-MP25	760
MLP-MP30	759
MLP-MP43	758
MLP-MP53	758
MLP-MP62	759
MLP-OL□□□	762
MLP-QM□□□	763
MLP-QP1	764
MLP-QP2	764
MLP-RA	764
MPI	
MPI-HF360	473
MPI-P110	472
OES	
OES-T350	464~465
PHT	
PHT-C751	625
PPF	
PPF-BF62	627
QMS	
QMS-A110	509~510
QMS-A200	509~510
QMS-A220	507~508
QMS-A315	507~508
QMS-A320	507~508
QMS-A450	505~506
QMY	
QMY-AP32	627
RCT	
RCT-300	670~671
RCT-RA260	672~673
SFT	
SFT-S210R	820
SPM	
SPM-1000	675~676
SPM-2000	677~678
SPM-4000	681~682
SPM-5000	679~680
SPT	
SPT-AD21	626
THD	
THD-PF34	628
THT	
THT-A□□□	822
THT-Z158	821
TLP	
TLP-300H	494
TLP-400E	493
TLP-P340	492
UFD	
UFD-T680	470~471
UTM	
UTM-E□□□	766
UTM-EX□□□	769
UTM-H□□□	768~769
UTM-S□□□	767
VMM	
VMM-L□□□	519~520
VSP	
VSP-201	608~609
XRF	
XRF-B210	466~467

AMTC BV sales@amtc.eu ☎ 0165 304188 (+31)

APPLICATION INDEX OF MEASURING TOOLS

SHAFT DIAMETER



Dial Snap Gages
2186-
(page 261)



Adjustable Snap Gages
2187- **(page 305)**



Indicating Micrometers
3332- **(page 114)**



Micrometers With Dial Indicator
3296-, 3331-, 3346-
(page 114-116)



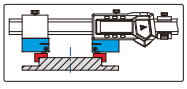
Dial Snap Gages
3335-, 3334-
(page 260-261)



Outside Micrometers
(page 101-113)



Universal Calipers
1125-
(page 38-39)





Digital/Dial/Vernier Calipers
(page 19-37)



External Caliper Gages
2131-, 2333-, 2332-, 2132-
(page 252-253)



Circumference Tapes
(page 183)

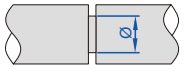




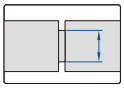
Internal And External Diameter Comparison Instruments
6844-, 6843-
(page 91-92)



EXTERNAL GROOVE DIAMETER

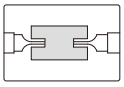


Digital Blade Calipers
1188-, 1532-
(page 52-53)



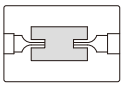


Blade Micrometers
3232-, 3532-, 3650-
(page 128-129)



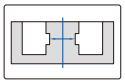


High Precision Digital Blade Micrometers/Snap Gages
3352-
(page 130)



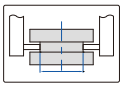


Digital Outside Neck Calipers
1187-
(page 50)



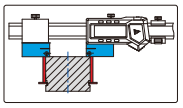


Digital Calipers With Interchangeable Points
1526-, 1124-, 1530-
(page 39-42)



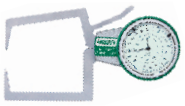


Universal Calipers
1125-
(page 38-39)





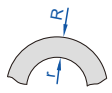
External Caliper Gages
2131-, 2333-, 2332-, 2132-
(page 252-253)



Outside Calipers
7262-, 7241-
(page 383)



ARC RADIUS



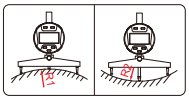
Outside Diameter Variation Measuring Instruments
2715-
(page 187)



Outside Diameter Measuring Instruments
2716-
(page 188)

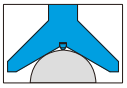


Digital Radius Gages
2183, 2197, 2511
(page 190-191)



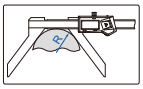


Digital Radius Gages
2188-, 1501-
(page 189)





Digital Arc Radius Calipers
1189-
(page 191)





Radius Gages
4801-, 4804-
(page 370)



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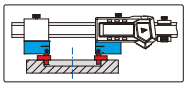
APPLICATION INDEX OF MEASURING TOOLS

BORE DIAMETER

Digital/Dial/Vernier Calipers With Internal Measuring Jaws
(page 19-37)



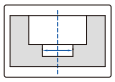

Universal Calipers
1125-
(page 38-39)




Carbon Fiber Comparison Gages
2931-
(page 90)



Digital Inside Knife-edge Calipers
1123-, 1138-
(page 53-54)




Inside Micrometers
3220-, 3520-, 3679-
(page 158-159)



Three Points Internal Micrometers
3227-, 3127-, 3228-, 3128-
(page 167-170)



Pistol Grip Three Points Bore Gages
2124-
(page 171)



Tubular Inside Micrometers
(page 159-164)



Bore Plug Gages
4683-
(page 172-173)



Bore Gages
(page 174-179)



Telescoping Gages
4208-, 4206-, 4209-
(page 181-182)



Inside Calipers
7261-, 7240-
(page 383)



Internal Caliper Gages
(page 248-251)



Taper Bore Gages
4852-, 4855-
(page 375)



Pin Gages
(page 298-301)



Plain Plug Gages
4124- **(page 307)**



Taper Gages
4833-, 4837-
(page 374)

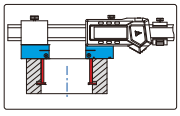


Internal And External Diameter Comparison Instruments
6844-, 6843-
(page 91-92)



DIAMETER OF GROOVE INSIDE HOLES

Universal Calipers
1125-
(page 38-39)




Carbon Fiber Comparison Gages
2931-
(page 90)



Digital Calipers With Interchangeable Points
1526-, 1124-, 1530-
(page 39-42)



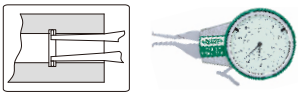
Inside Groove Calipers
(page 43-49)



Accessory Sets For Digital Calipers
6144, 6145-, 6146-
(page 31-32)



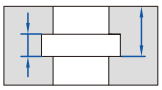
Internal Caliper Gages
(page 248-251)



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APPLICATION INDEX OF MEASURING TOOLS

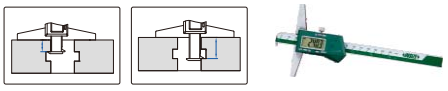
WIDTH AND POSITION OF GROOVE INSIDE HOLES



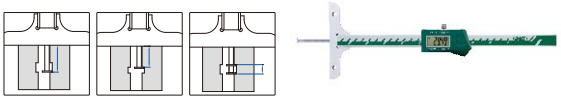
Digital Hook Calipers
1122-
(page 56)



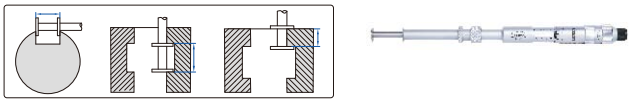
Depth Gages With Hook
1142-, 1144-
(page 67-68)
1540-, 1248-, 1243-
(page 68/71-72)



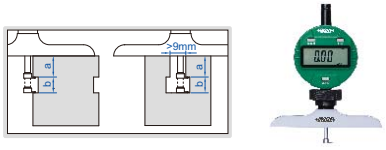
Digital Depth Gages With Round Depth Bar
1148-
(page 69)



Groove Micrometers
3287- **(page 117)**



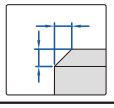
Digital Groove Gages
2145-
(page 77)



Digital Groove Measurement Stands
6870-
(page 241)



CHAMFER



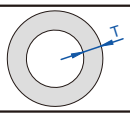
Chamfer Gages
4844-, 1180-, 1267-
(page 194-195)



Digital Chamfer Gages
1537-
(page 195)



TUBE WALL THICKNESS



Ultrasonic Thickness Gages
(page 631-637)



Digital Tube Thickness Calipers
1161- **(page 58)**



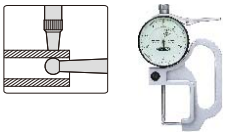
Cylindrical Anvil Tube Micrometers
3261-, 3561-
(page 134)



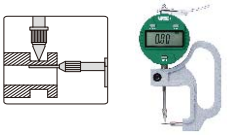
Spherical Anvil Tube Micrometers
3260-, 3560-, 3355-
(page 135-136)



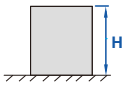
Tube Thickness Gages
2876-, 2367-
(page 259)



Digital Tube Thickness Gages
2873-
(page 259)



HEIGHT



Digital Height Gages
1155-, 1157-, 1158-
(page 81-83)



Height Gages
(page 84-88)



Dial Indicator Stands
(page 240-245)



Transfer Stands
6865-
(page 246)



Mini Digital Height Gages
1146-
(page 264)



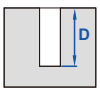
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APPLICATION INDEX OF MEASURING TOOLS

Digital/Dial Height Gages
2147-, 2146-
(page 265)



DEPTH



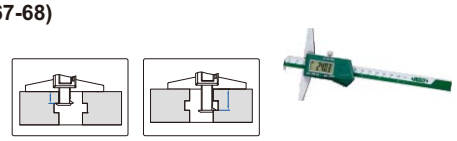
Depth Gages
(page 66)



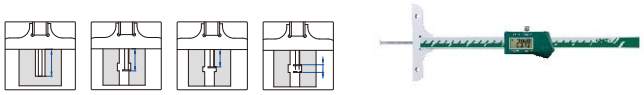
Depth Gages With Point
1143-
(page 70)



Depth Gages With Hook
1142-, 1144- **(page 67-68)**
1540-, 1248-, 1243-
(page 68/71-72)



Digital Depth Gages With Round Depth Bar
1148- **(page 69)**



Mini Depth Gages
1244-, 1145-, 1140-
(page 72-73)



Dial/Digital Depth Gages
2343-, 2142-, 2341-, 2342-, 2141-
(page 74-77)



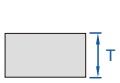
Depth Micrometers
3540-, 3240-, 3241-
(page 78-79)



Digital/Dial/Vernier Calipers With Depth Bar
(page 19-37)



THICKNESS



Thickness Gages
(page 254-260)



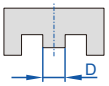
Digital Snap Gages
2166-, 2167-, 2163-, 1163-
(page 262-263)



External Caliper Gages
2131-, 2333-, 2332-, 2132-
(page 252-253)



SHAFT DIAMETER INSIDE HOLE



Caliper Type Micrometers
3238-, 3538-
(page 142)



Jaw Type Micrometers
3283-, 3583-
(page 143)



Digital Outside Neck Calipers
1187-
(page 50)



SLOT WIDTH



Taper Gages
4833-, 4837-
(page 374)



Taper Slot Gages
1160-, 4630-
(page 373-374)



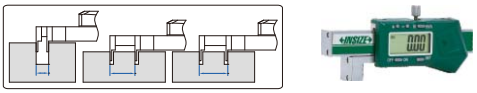
Internal Caliper Gages
(page 248-251)



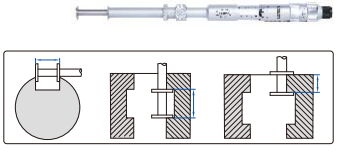
Feeler Gages
4601-, 4602-, 4605-, 4623-
(page 363-365)



Step And Gap Gages
2168-
(page 264)



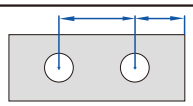
Groove Micrometers
3287-
(page 117)



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APPLICATION INDEX OF MEASURING TOOLS

HOLE CENTER-TO-CENTER AND CENTER-TO-EDGE DISTANCE

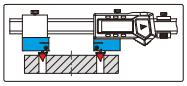


Digital Centering Calipers
1192-, 1177-, 1525-, 1524-
(page 54-56)



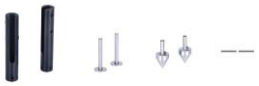


Universal Calipers
1125-
(page 38-39)

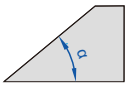




Accessory Sets For Digital Calipers
6144, 6145-, 6146-
(page 31-32)



ANGLE



Protractors
(page 335-338)



Digital Angle Meters
2177-
(page 335)



Protractors
2374-, 2372-, 2373-, 2771-
(page 338-340)



Squares
4745-, 4747-, 4760-, 4762-, 4706-, 4754-
(page 347-348)



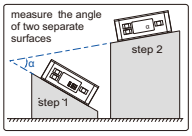
Angle Gages
4806-, 4807
(page 369)



Angle Gage Blocks
4002-
(page 297)

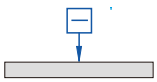


Digital Levels And Slope Meters
2175-, 2179-, 2170-
(page 444-445)





STRAIGHTNESS AND FLATNESS



Straight Edges
(page 348-350)





Straightness/Flatness Gages
2144-
(page 351)



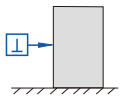
Flatness Measurement Stands
6852-
(page 351)



Optical Flats
4191-
(page 350)



SQUARENESS



Squares
4141-, 4144-, 4710-
(page 341)



Granite Squares With V Groove
4142-, 6539-
(page 411)



Perpendicularity Testers
4770-
(page 342)

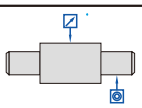




Squares
(page 342-346)



COAXIALITY AND RUNOUT



Concentricity Gages
(page 353-355)



Bench Centers
(page 355-359)



V-Blocks
(page 404-408)



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APPLICATION INDEX OF MEASURING TOOLS

Magnetic V-Blocks
(page 408-410)



Gear Tooth Pitch Gages
4860-
(page 368)



DIAMETER OF CUTTING TOOLS WITH ODD FLUTES



V Shape Calipers
1229-, 1273-, 1539-
(page 61-62)



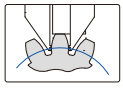
V-Anvil Micrometers
3290-, 3590-
(page 140)



GEAR AND SPLINE

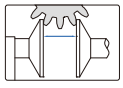


Digital Gear Tooth Calipers
1181-, 1281-
(page 62)



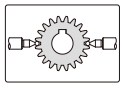


Disk Micrometers
(page 144-146)





External Gear Tooth Micrometers
3291-, 3591-, 3636-
(page 122-124)





Internal Gear Tooth Micrometers
3638-
(page 165)



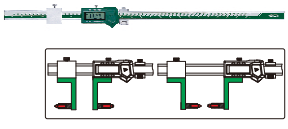


Internal Gear Tooth Micrometers
3678-
(page 159)





Universal Calipers
1125- **(page 38-39)**



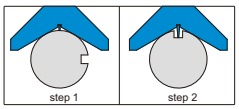
Digital Calipers With Interchangeable Points
1526-, 1124-
(page 39-41)



KEYWAY



Keyway Depth Gages
2182-, 2189-
(page 267)

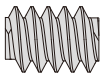




Keyway Symmetry Gages
4865-
(page 266)



THREAD



Threaded Hole Location Gages
4662-, 4676-
(page 309-310)



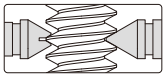
Thread Depth Gages
4649-, 4666-
(page 311-312)



3-Wires
7382-, 7394-
(page 117-118)

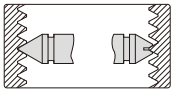


External Screw Thread Micrometers
3281-, 3581-, 3680-
(page 118/120-121)





Internal Screw Thread Micrometers
3641-, 3226-
(page 165-166)





Thread Plug Gages
(page 313-330)



Thread Ring Gages
(page 317-324)



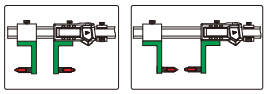
Pitch Gages
4824-, 4820-
(page 367-368)



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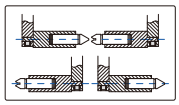
APPLICATION INDEX OF MEASURING TOOLS

Universal Calipers
1125-
(page 38-39)





Digital Calipers With Interchangeable Points
1526-, 1124-
(page 39-41)





FOR OIL PIPES AND FLANGES

Thread Pitch Measuring Instruments
2235-, 2234-, 2245-
(page 269-270)



Thread Taper Measuring Instruments
2230-, 2231-, 2240-, 2241-
(page 271-273)



Thread Height Measuring Instruments
2232-, 2233-, 2242-, 2243-
(page 274-275)



Thread Crest Diameter Measuring Instruments
2237-, 2236-, 2246-, 2247-
(page 276-279)



Digital Groove Width Measuring Instrument
2250-, 2260-
(page 281)



Digital Groove Diameter Measuring Instrument
2251-, 2261-
(page 280)



Digital Calipers With Interchangeable Ball Tips
1527-, 1528-
(page 59)



Digital RTJ Ring Groove Calipers
1179-
(page 58)



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Application index of measuring tools (page 829-835)



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