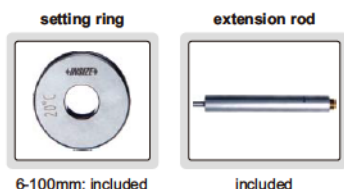
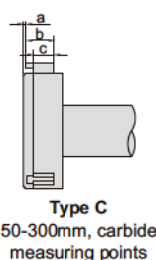
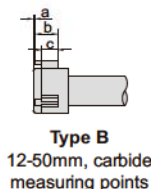
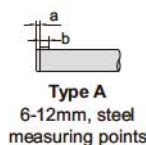
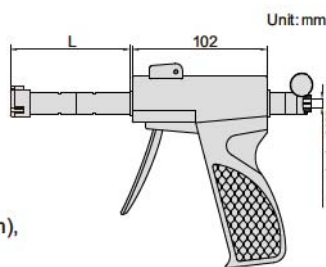




PISTOL GRIP THREE POINTS BORE GAGES

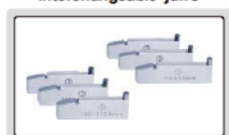
- Optional accessory:
digital indicators (code 2103-10F,
resolution 0.001mm/0.00005")
or dial indicators (graduation 0.001mm),
setting rings (code 6312)



6-100mm: included
100-300mm: optional

included

interchangeable jaws



100-300mm: have two sets of jaws
for different measuring range
(For example, 2124-125 has
100-112.5mm and 112.5-125mm jaws)



Individual

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	5µm	Ø112.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-150 *	125-150mm	C	5µm	Ø137.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-175 *	150-175mm	C	5µm	Ø162.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-200 *	175-200mm	C	5µm	Ø187.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-225	200-225mm	C	7µm	Ø212.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-250	225-250mm	C	7µm	Ø237.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-275	250-275mm	C	7µm	Ø262.5mm (optional)	150mm	130	0.5	19.5	14.5
2124-300	275-300mm	C	7µm	Ø287.5mm (optional)	150mm	130	0.5	19.5	14.5

Set

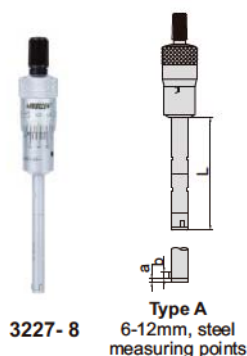
Code	Range	Probes included	Setting ring (included)	Extension rod (included)
2124-S123 *	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
2124-S202 *	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm
2124-S504 *	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
2124-S1004 *	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

* Supplied with manufacturer inspection certificate



2124- S504

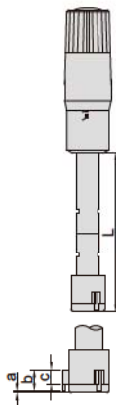
THREE POINTS INTERNAL MICROMETERS



3227-8
Type A
6-12mm, steel
measuring points



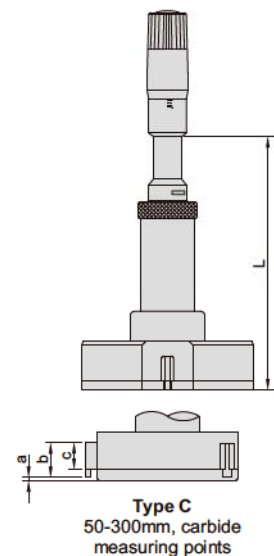
3227-16
Type B
12-50mm, carbide
measuring points



Type B
12-50mm, carbide
measuring points



3227-125



Type C
50-300mm, carbide
measuring points

micrometer stand with clamp



- Meet DIN863-4
- 6-12mm: 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

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3227-8*	6-8mm	A	4μm	Ø6mm (included)	100mm	54.5	1.5	2.5	—
3227-10*	8-10mm	A	4μm	Ø8mm (included)	100mm	54.5	1.5	2.5	—
3227-12*	10-12mm	A	4μm	Ø10mm (included)	100mm	54.5	1.5	2.5	—
3227-16*	12-16mm	B	4μm	Ø16mm (included)	150mm	80	0.5	6	4.5
3227-20*	16-20mm	B	4μm	Ø16mm (included)	150mm	80	0.5	6	4.5
3227-25*	20-25mm	B	4μm	Ø25mm (included)	150mm	90	0.5	8	6
3227-30*	25-30mm	B	4μm	Ø25mm (included)	150mm	90	0.5	8	6
3227-40*	30-40mm	B	4μm	Ø40mm (included)	150mm	97	0.5	14	12
3227-50*	40-50mm	B	5μm	Ø40mm (included)	150mm	97	0.5	14	12
3227-63*	50-63mm	C	5μm	Ø62mm (included)	150mm	114	0.5	17.5	14.5
3227-75*	62-75mm	C	5μm	Ø62mm (included)	150mm	114	0.5	17.5	14.5
3227-88*	75-88mm	C	5μm	Ø87mm (included)	150mm	114	0.5	17.5	14.5
3227-100*	87-100mm	C	5μm	Ø87mm (included)	150mm	114	0.5	17.5	14.5
3227-125*	100-125mm	C	5μm	Ø112.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-150*	125-150mm	C	5μm	Ø137.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-175*	150-175mm	C	5μm	Ø162.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-200*	175-200mm	C	5μm	Ø187.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-225	200-225mm	C	7μm	Ø212.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-250	225-250mm	C	7μm	Ø237.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-275	250-275mm	C	7μm	Ø262.5mm (optional)	150mm	145	0.5	19.5	14.5
3227-300	275-300mm	C	7μm	Ø287.5mm (optional)	150mm	145	0.5	19.5	14.5

(mm)

setting ring



6-100mm: included
100-300mm: optional

extension rod



included

interchangeable jaws



100-300mm: have two sets of
jaws for different measuring
range (For example, 3227-125
has 100-112.5mm and
112.5-125mm jaws)

Set

Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
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, 40-50mm	Ø25mm, Ø40mm	150mm
3227-1004*	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

* Supplied with manufacturer inspection certificate



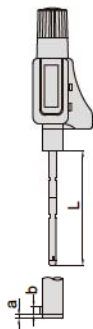
3227-504



DIGITAL THREE POINTS INTERNAL MICROMETERS



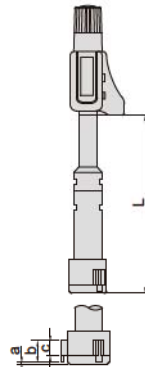
3127-12



Type A
6-12mm, steel
measuring points



3127-40

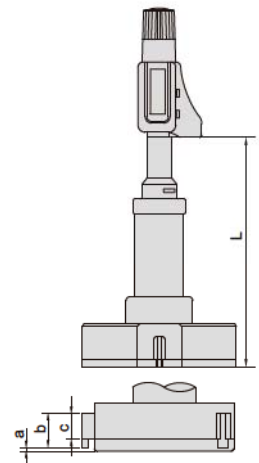


Type B
12-50mm, carbide
measuring points



3127-125

micrometer stand with clamp



Type C
50-300mm, carbide
measuring points

- Meet DIN863-4
- Resolution 0.001mm/0.00005"
- IP54 dust/waterproof
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Optional accessory: data output cable (code 7306-30A, 7302-SPC6, 7305-SPC3A), setting ring (code 6312), micrometer stand and clamp (code 6301 and 6301-2)

Individual

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3127-8 *	6-8mm/0.24-0.31"	A	4µm	Ø6mm (included)	100mm	54.5	1.5	2.5	—
3127-10 *	8-10mm/0.31-0.39"	A	4µm	Ø8mm (included)	100mm	54.5	1.5	2.5	—
3127-12 *	10-12mm/0.39-0.47"	A	4µm	Ø10mm (included)	100mm	54.5	1.5	2.5	—
3127-16 *	12-16mm/0.47-0.63"	B	4µm	Ø16mm (included)	150mm	80	0.5	6	4.5
3127-20 *	16-20mm/0.63-0.79"	B	4µm	Ø16mm (included)	150mm	80	0.5	6	4.5
3127-25 *	20-25mm/0.79-0.98"	B	4µm	Ø25mm (included)	150mm	90	0.5	8	6
3127-30 *	25-30mm/0.98-1.18"	B	4µm	Ø25mm (included)	150mm	90	0.5	8	6
3127-40 *	30-40mm/1.18-1.57"	B	4µm	Ø40mm (included)	150mm	97	0.5	14	12
3127-50 *	40-50mm/1.57-1.97"	B	5µm	Ø40mm (included)	150mm	97	0.5	14	12
3127-63 *	50-63mm/1.97-2.48"	C	5µm	Ø62mm (included)	150mm	114	0.5	17.5	14.5
3127-75 *	62-75mm/2.44-2.95"	C	5µm	Ø62mm (included)	150mm	114	0.5	17.5	14.5
3127-88 *	75-88mm/2.95-3.46"	C	5µm	Ø87mm (included)	150mm	114	0.5	17.5	14.5
3127-100 *	87-100mm/3.43-3.94"	C	5µm	Ø87mm (included)	150mm	114	0.5	17.5	14.5
3127-125 *	100-125mm/3.94-4.92"	C	5µm	Ø112.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-150 *	125-150mm/4.92-5.91"	C	5µm	Ø137.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-175 *	150-175mm/5.91-6.89"	C	5µm	Ø162.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-200 *	175-200mm/6.89-7.87"	C	5µm	Ø187.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-225 *	200-225mm/7.87-8.86"	C	7µm	Ø212.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-250 *	225-250mm/8.86-9.84"	C	7µm	Ø237.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-275 *	250-275mm/9.84-10.83"	C	7µm	Ø262.5mm (optional)	150mm	150	0.5	19.5	14.5
3127-300 *	275-300mm/10.83-11.81"	C	7µm	Ø287.5mm (optional)	150mm	150	0.5	19.5	14.5

Set

Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
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

setting ring



6-100mm: included
100-300mm: optional

extension rod



included

interchangeable jaws



100-300mm: have two sets of jaws for different measuring range (For example, 3127-125 has 100-112.5mm and 112.5-125mm jaws)



3127-504

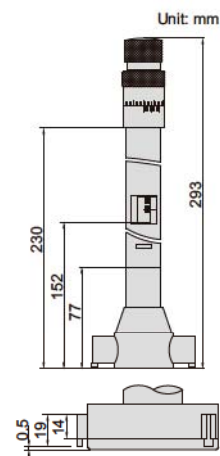
WIDE RANGE THREE POINTS INTERNAL MICROMETERS

- Meet DIN863-4
- Graduation 0.001mm
- Carbide measuring faces
- Ratchet stop
- Setting rings are included (except 200-300mm)

INSPECTION
CERTIFICATE

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)

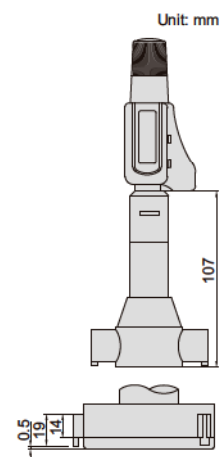
* Supplied with manufacturer inspection certificate



DIGITAL WIDE RANGE THREE POINTS INTERNAL MICROMETERS

INSPECTION
CERTIFICATEIP54
WATERPROOFDATA
OUTPUT

- Meet DIN863-4
- Resolution 0.001mm/0.00005"
- IP54 dust/waterproof
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, 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 7306-30A, 7302-SPC6, 7305-SPC3A)



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

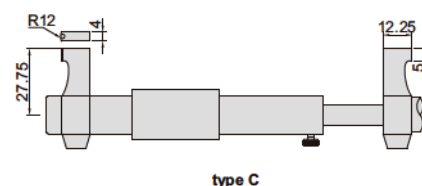
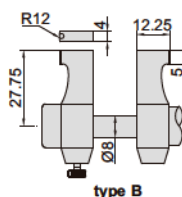
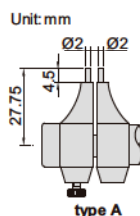
INSIDE MICROMETERS

micrometer stand with clamp



- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting ring (code 6312), micrometer stand and clamp (code 6301 and 6301-1)

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

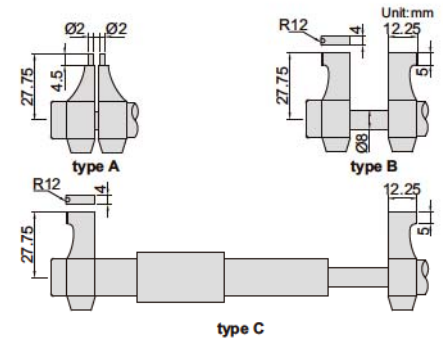


- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: data output cable (code 7306-30, 7302-SPC2A, 7305-SPC3), setting ring (code 6312)



3520-30

DIGITAL INSIDE MICROMETERS

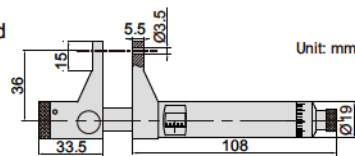


Code	Range	Type	Setting ring	Accuracy
3520-30	5-30mm/0.2-1.2"	A	5mm (included)	±5μm
3520-50	25-50mm/1-2"	B	25mm (included)	±6μm
3520-75	50-75mm/2-3"	B	50mm (optional)	±7μm
3520-100	75-100mm/3-4"	C	75mm (optional)	±8μm

INTERNAL SCREW THREAD MICROMETERS

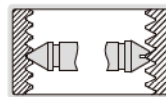
INSIZE PLUS
MADE IN GERMANY

- Measure pitch diameter of screw thread
- Graduation 0.01mm
- Ratchet stop
- Optional accessory: measuring tips for internal screw thread micrometer (code 7385)



Unit: mm

Code	Range	Accuracy	Applicable tips
3640-45	20-45mm	4μm	stem length L=5mm
3640-70	45-70mm	5μm	stem length L=5mm
3640-95	70-95mm	5μm	stem length L=13.5mm
3640-120	95-120mm	6μm	stem length L=13.5mm

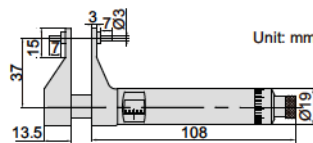


3640-45

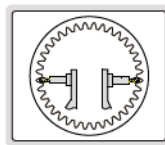
INTERNAL GEAR TOOTH MICROMETERS

INSIZE PLUS
MADE IN GERMANY

- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Optional accessory: ball tips (code 7383)



Unit: mm



before ball tips
are installed



3637-50

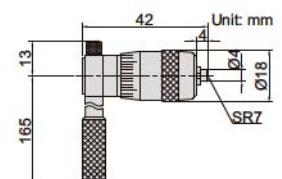
TUBULAR INSIDE MICROMETERS

- Graduation 0.01mm
- Accuracy: $(6+L/50)\mu\text{m}$
L=maximum measuring length (mm)
- Optional accessory: setting ring (code 6312)

Code	Range	Travel of micrometer head	Extension rods
3221-32	25-32mm	7mm	—
3221-50	25-50mm	7mm	2pcs
3221-63	50-63mm	13mm	—
3221-200	50-200mm	13mm	6pcs
3221-300	50-300mm	13mm	10pcs
3221-225	200-225mm	25mm	—
3221-500	200-500mm	25mm	3pcs
3221-1000	200-1000mm	25mm	8pcs

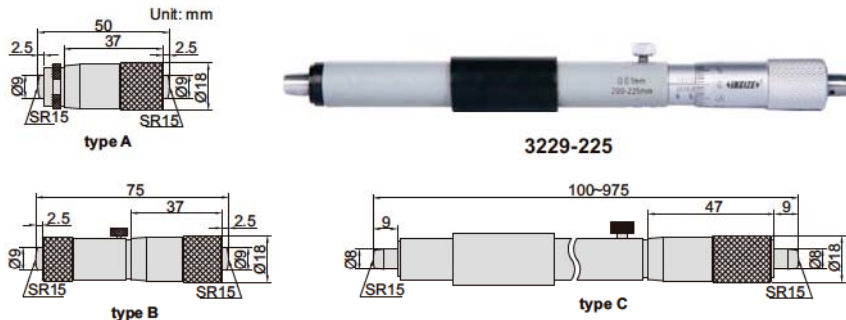


3221-200



TUBULAR INSIDE MICROMETERS

- Micrometers up to 500mm meet DIN863-4
- Graduation 0.01mm
- Carbide measuring faces



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

Code	Range	Type	Accuracy
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

Code	Range	Type	Accuracy
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
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

- Graduation 0.01mm
- Accuracy: $(3+n+L/50)\mu\text{m}$
n=number of rods
L=maximum measuring length (mm)
- Supplied with setting standards
- Carbide measuring faces

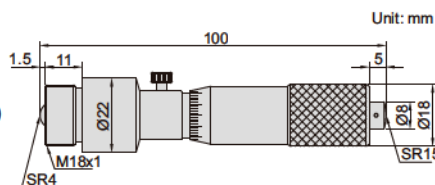


3222-150

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 (2pcs), 100mm
3222-500	50-500mm	13mm	13mm, 25mm, 50mm (2pcs), 100mm, 200mm
3222-600	50-600mm	13mm	13mm, 25mm, 50mm, 100mm, 150mm, 200mm
3222-1000	50-1000mm	13mm	13mm, 25mm, 50mm (2pcs), 100mm, 200mm (2pcs), 300mm
3222-1500	50-1500mm	13mm	13mm, 25mm, 50mm (2pcs), 100mm, 200mm (3pcs), 300mm (2pcs)

TUBULAR INSIDE MICROMETERS

- Graduation 0.01mm
- Accuracy: $(3+n+L/50)\mu\text{m}$
n=number of rods
L=maximum measuring length (mm)
- Travel of micrometer head 25mm
- Supplied with setting standards
- Carbide measuring faces



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 (2pcs)
3225-1700	100-1700mm	25mm, 50mm, 100mm, 200mm, 400mm (3pcs)
3225-2100	100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4pcs)

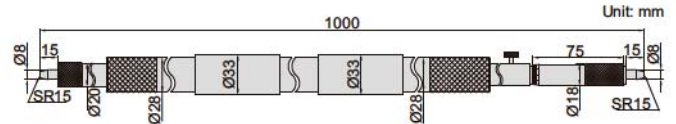


3225-500

TUBULAR INSIDE MICROMETERS



3224-2000



Code	Range	Extension rods
3224-2000	1000-2000mm	50mm, 100mm (2pcs), 200mm, 500mm
3224-3000	1000-3000mm	50mm, 100mm (2pcs), 200mm, 500mm, 1000mm
3224-4000	1000-4000mm	50mm, 100mm (2pcs), 200mm, 500mm, 1000mm (2pcs)
3224-5000	1000-5000mm	50mm, 100mm (2pcs), 200mm, 500mm, 1000mm (3pcs)

- Graduation 0.01mm
- Accuracy: $(7+n+L/50)\mu\text{m}$
n=number of rods
L=maximum measuring length (mm)
- Travel of micrometer head 50mm
- Carbide measuring faces

SPRING LOADED
MEASURING POINT

NON-ROTATING
SPINDLE

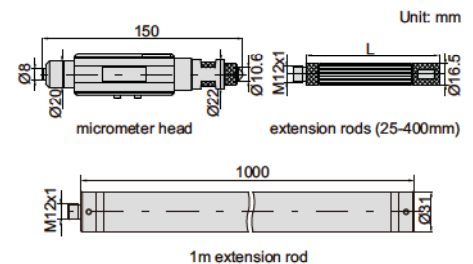
DATA
OUTPUT

DIGITAL NON-ROTATING SPINDLE TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN GERMANY

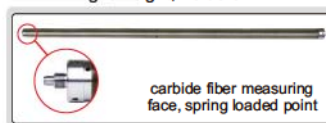


3635-950

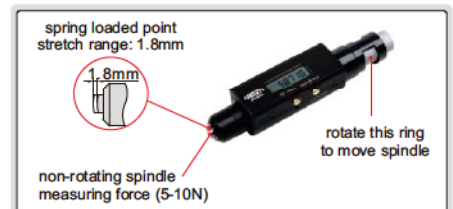


- Micrometer head: 150-175mm
- Carbide measuring faces for micrometer head and extension rods
- Points of extension rods are spring loaded
- Data output
- Button function: mm/inch, max./min. value tracking, tolerance measurement, hold, on/off, zero
- CR2032 battery, automatic power off

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



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(2pcs), 400mm(2pcs)
3635-2150	150-2150mm	25mm, 50mm, 100mm, 200mm, 400mm(4pcs)
3635-3150	150-3150mm	25mm, 50mm, 100mm, 200mm(2pcs), 400mm, 1000mm(2pcs)
3635-4150	150-4150mm	25mm, 50mm, 100mm, 200mm(2pcs), 400mm, 1000mm(3pcs)
3635-5150	150-5150mm	25mm, 50mm, 100mm, 200mm(2pcs), 400mm, 1000mm(4pcs)
3635-6150	150-6150mm	25mm, 50mm, 100mm, 200mm(2pcs), 400mm, 1000mm(5pcs)

Micrometer head

Range	Resolution	Accuracy	Repeatability	Measuring force	Weight
150-175mm	0.001mm/0.00005" 0.01mm/0.0005" (switchable)	$\pm 4\mu\text{m}$	1 μm	5-10N	275g

Extension rods

Length (L)	Accuracy	Weight	Material
25mm	$\pm 1.25\mu\text{m}$	37g	steel
50mm	$\pm 1.25\mu\text{m}$	65g	steel
100mm	$\pm 2\mu\text{m}$	113g	steel
200mm	$\pm 3.5\mu\text{m}$	208g	steel
400mm	$\pm 4.5\mu\text{m}$	402g	steel
1000mm	$\pm 7.5\mu\text{m}$	909g	carbon fiber

TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN GERMANY

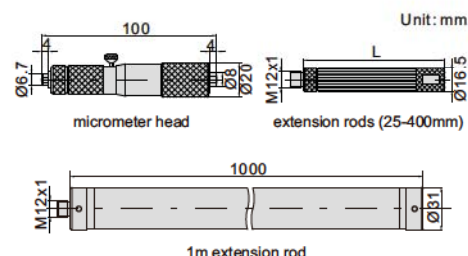
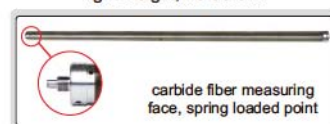


3634-1300

- Micrometer head: 100-125mm
- Carbide measuring faces for micrometer head and extension rods
- Points of extension rods are spring loaded

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 (2pcs)
3634-1500	100-1500mm	25mm, 50mm, 100mm, 200mm (2pcs), 400mm (2pcs)
3634-2100	100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4pcs)
3634-3100	100-3100mm	25mm, 50mm, 100mm, 200mm (2pcs), 400mm, 1000mm (2pcs)
3634-4100	100-4100mm	25mm, 50mm, 100mm, 200mm (2pcs), 400mm, 1000mm (3pcs)
3634-5100	100-5100mm	25mm, 50mm, 100mm, 200mm (2pcs), 400mm, 1000mm (4pcs)
3634-6100	100-6100mm	25mm, 50mm, 100mm, 200mm (2pcs), 400mm, 1000mm (5pcs)

1m carbon fiber extension rod,
light weight, no deform



Micrometer head

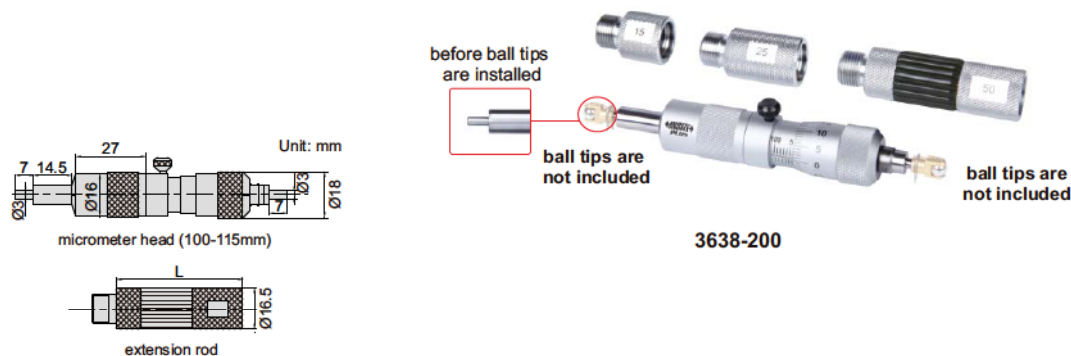
Range	Graduation	Accuracy	Weight
100-125mm	0.01mm	$\pm 4\mu\text{m}$	154g

Extension rods

Length (L)	Accuracy	Weight	Material
25mm	$\pm 1.25\mu\text{m}$	37g	steel
50mm	$\pm 1.25\mu\text{m}$	65g	steel
100mm	$\pm 2\mu\text{m}$	113g	steel
200mm	$\pm 3.5\mu\text{m}$	208g	steel
400mm	$\pm 4.5\mu\text{m}$	402g	steel
1000mm	$\pm 7.5\mu\text{m}$	909g	carbon fiber

INTERNAL GEAR TOOTH MICROMETERS

INSIZE PLUS
MADE IN GERMANY



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	$\pm 4\mu\text{m}$
150-175mm	0.01mm	$\pm 4\mu\text{m}$

Code	Range	Micrometer head	Extension rod (L)
3638-200	100-205mm	100-115mm	15, 25, 30
3638-500	100-505mm	100-115mm	15, 25, 50, 100, 200
3638-900	100-905mm	100-115mm	15, 25, 50, 100, 200, 400
3638-1100	150-1150mm	150-175mm	25, 50, 100, 200, 200, 400

Extension rod

Length (L)	Accuracy
15mm	$\pm 1\mu\text{m}$
25mm	$\pm 1.25\mu\text{m}$
30mm	$\pm 1.25\mu\text{m}$
50mm	$\pm 1.25\mu\text{m}$
100mm	$\pm 2\mu\text{m}$
200mm	$\pm 3.5\mu\text{m}$
400mm	$\pm 4.5\mu\text{m}$

BORE GAGE SETS

ATTENTION: NOT SUITABLE
FOR 0.001MM DIAL INDICATORS

- Optional accessory:
setting ring (code 6312)



2824-S160



2824-S3

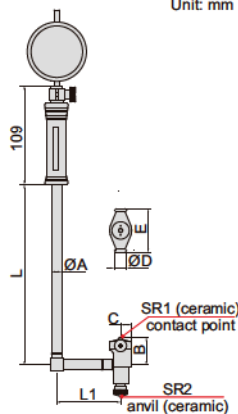
packaging (code 2824-S3)



Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2824-S160	35-160mm	dial indicator, code 2308-10FA range 10mm, graduation 0.01mm	① 35-50mm (dial indicator and handle are not included) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2824-S3	18-160mm	dial indicator, code 2308-10FA range 10mm, graduation 0.01mm	① 18-35mm ② 35-60mm (dial indicator is not included) ③ 50-160mm (dial indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm



2827-160A



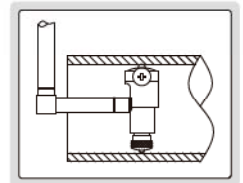
Unit: mm

ATTENTION: NOT SUITABLE
FOR 0.001MM DIAL INDICATORS

- Optional accessory: setting ring (code 6312)

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

BORE GAGES

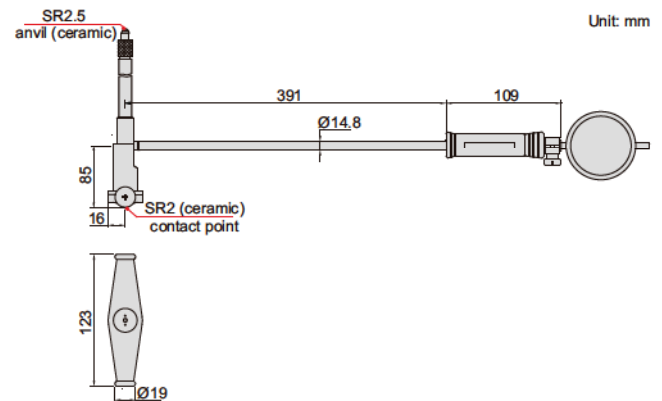


Code	Range	Indicator	Accuracy	Repeatability
2827-60A	35-60mm	dial indicator code 2308-10FA range 10mm, graduation 0.01mm	±0.018mm	0.003mm
2827-160A	50-160mm		±0.018mm	0.003mm
2827-250A	160-250mm		±0.018mm	0.003mm
2827-450A	250-450mm		±0.018mm	0.003mm

ATTENTION: NOT SUITABLE
FOR 0.001MM DIAL INDICATORS



2828-800A



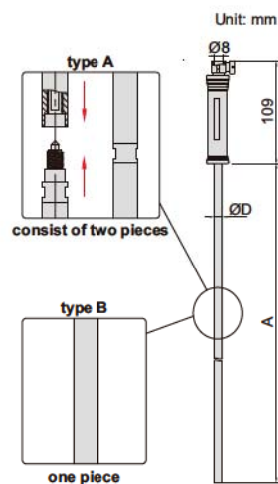
Unit: mm

Code	Range	Indicator	Accuracy	Repeatability
2828-800A	400-800mm	dial indicator code 2308-10FA, range 10mm, graduation 0.01mm	±0.025mm	0.003mm

LONG HANDLES

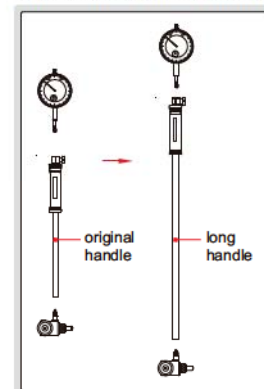
- To assist deep-hole measurement
- Can be used for bore gages 2322 and 2122

Code	Applicable bore gages	A	ØD	Type
7351-EX11	35-60mm,	475	13	B
7351-EX12	50-100mm,	980	13	
7351-EX13	50-160mm,	1480	14.5	A
7351-EX14	100-160mm	1980	14.5	
7351-EX21	160-250mm, 250-450mm	480	14.5	B
7351-EX22		980	14.5	
7351-EX23		1480	14.5	A
7351-EX24		1980	14.5	



7351-EX11

method of use (replace the original handle with long handle)



ANVILS FOR BORE GAGES



7350-160

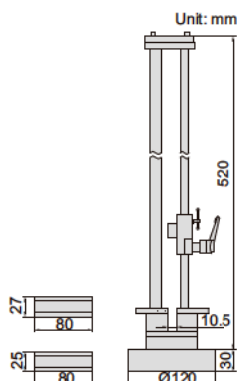
- For 2852, 2152, 2322, 2122, 2824, 2827

Code	Applicable bore gages	Material of measuring face	Quantity per set	Measuring range of anvil (mm)
7350-10	6-10mm	steel	9pcs	6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10
7350-18	10-18.5mm	ceramic	9pcs	10, 11, 12, 13, 14, 15, 16, 17, 18
7350-35	18-35mm	ceramic	9pcs	18, 20, 22, 24, 26, 28, 30, 32, 34
7350-60	35-60mm	ceramic	6pcs	35, 40, 45, 50, 55, 60
7350-100	50-100mm	ceramic	11pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100
7350-160	50-160mm	ceramic	12pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-161	100-160mm	ceramic	12pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-250	160-250mm	ceramic	5pcs	160, 170, 180, 190, 200
7350-450	250-450mm	ceramic	5pcs	250, 260, 270, 280, 290

BORE GAGE SETTER

- Used together with gage blocks to set bore gages

Code	Setting range
2395-400	18-400mm



2395-400



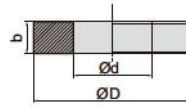
VIDEO

CAN SUPPLY CUSTOM SETTING RING FROM Ø1.500MM TO Ø315.000MM, FOR EXAMPLE, Ø17.085MM

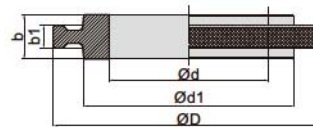


SETTING RINGS

- For zero setting of inside micrometers, three points internal micrometers and bore gages
- 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 Ø10.127mm
- Meet DIN2250-1:2008



Ø1.5mm-100mm



Ø100mm-315mm



6312-20

Diameter d**	b	D	Deviation	Roundness and cylindricity
Ø1.5-2.5	4	22	±2.0µm	0.3µm
Ø2.5-3	5	22	±2.0µm	0.3µm
Ø3-5	5	22	±2.0µm	0.4µm
Ø5-10	8	32	±2.0µm	0.4µm
Ø10-15	10	38	±3.0µm	0.5µm
Ø15-18	12	45	±3.0µm	0.5µm
Ø18-20	12	45	±3.0µm	0.6µm
Ø20-25	14	53	±3.0µm	0.6µm
Ø25-30	16	63	±4.0µm	0.6µm
Ø30-32	16	63	±4.0µm	0.7µm
Ø32-40	18	71	±4.0µm	0.7µm
Ø40-50	20	85	±4.0µm	0.7µm
Ø50-60	20	100	±4.0µm	0.8µm
Ø60-70	24	112	±4.0µm	0.8µm
Ø70-80	24	125	±4.0µm	0.8µm
Ø80-90	24	140	±4.0µm	1.0µm
Ø90-100	24	160	±4.0µm	1.0µm

Diameter d**	b	b1	d1	D	Deviation	Roundness and cylindricity
Ø100-110	28	14	132	170	±5.0µm	1.0µm
Ø110-120	28	16	140	180	±5.0µm	1.0µm
Ø120-130	28	16	150	190	±6.0µm	1.2µm
Ø130-140	28	18	160	200	±6.0µm	1.2µm
Ø140-150	28	18	170	212	±6.0µm	1.2µm
Ø150-160	28	20	180	224	±6.0µm	1.2µm
Ø160-170	32	20	190	236	±6.0µm	1.2µm
Ø170-180	32	20	200	250	±6.0µm	1.2µm
Ø180-190	32	22	212	265	±7.0µm	1.4µm
Ø190-200	32	22	224	280	±7.0µm	1.4µm
Ø200-212	32	22	236	300	±7.0µm	1.4µm
Ø212-224	32	25	250	315	±7.0µm	1.4µm
Ø224-236	36	25	265	335	±7.0µm	1.4µm
Ø236-250	36	28	280	355	±7.0µm	1.4µm
Ø250-265	36	28	300	375	±8.0µm	1.6µm
Ø265-280	36	28	315	400	±8.0µm	1.6µm
Ø280-300	36	32	335	425	±8.0µm	1.6µm
Ø300-315	36	32	355	450	±8.0µm	1.6µm

** For example Ø3-5mm means Ø3mm<diameter d≤Ø5mm

Code	Size	Code	Size	Code	Size	Code	Size	Code	Size
6312-1D5*	Ø1.5	6312-17*	Ø17	6312-33*	Ø33	6312-49*	Ø49	6312-137D5*	Ø137.5
6312-2*	Ø2	6312-18*	Ø18	6312-34*	Ø34	6312-50*	Ø50	6312-150*	Ø150
6312-3*	Ø3	6312-19*	Ø19	6312-35*	Ø35	6312-55*	Ø55	6312-162D5*	Ø162.5
6312-4*	Ø4	6312-20*	Ø20	6312-36*	Ø36	6312-60*	Ø60	6312-175*	Ø175
6312-5*	Ø5	6312-21*	Ø21	6312-37*	Ø37	6312-62*	Ø62	6312-187D5*	Ø187.5
6312-6*	Ø6	6312-22*	Ø22	6312-38*	Ø38	6312-65*	Ø65	6312-200*	Ø200
6312-7*	Ø7	6312-23*	Ø23	6312-39*	Ø39	6312-70*	Ø70	6312-212D5*	Ø212.5
6312-8*	Ø8	6312-24*	Ø24	6312-40*	Ø40	6312-75*	Ø75	6312-225*	Ø225
6312-9*	Ø9	6312-25*	Ø25	6312-41*	Ø41	6312-80*	Ø80	6312-237D5*	Ø237.5
6312-10*	Ø10	6312-26*	Ø26	6312-42*	Ø42	6312-85*	Ø85	6312-250*	Ø250
6312-11*	Ø11	6312-27*	Ø27	6312-43*	Ø43	6312-87*	Ø87	6312-262D5*	Ø262.5
6312-12*	Ø12	6312-28*	Ø28	6312-44*	Ø44	6312-90*	Ø90	6312-275*	Ø275
6312-13*	Ø13	6312-29*	Ø29	6312-45*	Ø45	6312-95*	Ø95	6312-287D5*	Ø287.5
6312-14*	Ø14	6312-30*	Ø30	6312-46*	Ø46	6312-100*	Ø100	6312-300*	Ø300
6312-15*	Ø15	6312-31*	Ø31	6312-47*	Ø47	6312-112D5	Ø112.5		
6312-16*	Ø16	6312-32*	Ø32	6312-48*	Ø48	6312-125*	Ø125		

* Supplied with manufacturer inspection certificate

SMALL HOLE GAGE SET

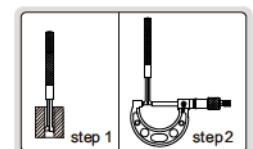
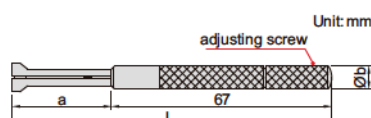
- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish

Range	L	a	Øb
3-5mm	90	22.5	5.5
5-7.5mm	97.6	30	5.5
7.5-10mm	102.8	35	8.5
10-13mm	108	40	8.5

Code	Total range	Gages included
4208-1	3-13mm	3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm



4208-1



TELESCOPING GAGE SET

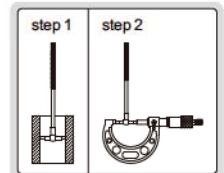
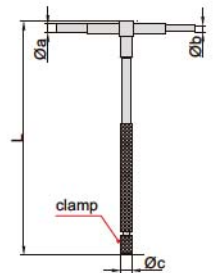
- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish

			(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	

Code	Total range	Gages included
4206-1	8-150mm	8-12.7mm, 12.7-19mm, 19-32mm, 32-54mm, 54-90mm, 90-150mm



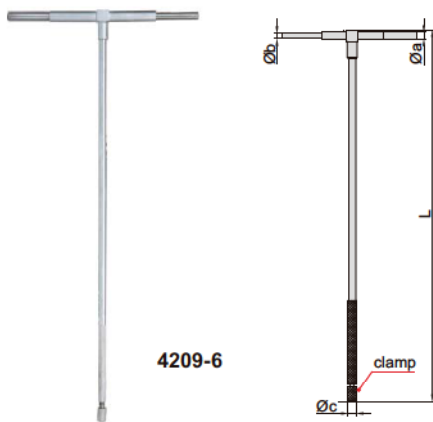
4206-1



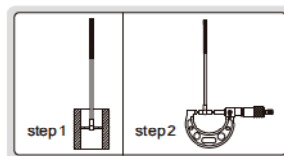
LONG HANDLE TELESCOPING GAGES

- For quick measurement of inside diameter of deep holes and width of slots
- Satin chrome finish

			(mm)		
Code	Range	L	Øa	Øb	Øc
4209-1	8-12.7mm	250	3.9	2.9	6.2
4209-2	12.7-19mm	250	5.3	3.8	6.2
4209-3	19-32mm	250	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



4209-6

LARGE DIAMETER GAGE
CODE ISQ-RA600

INSIZE PLUS
MADE IN ITALY

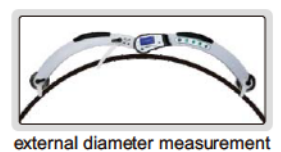
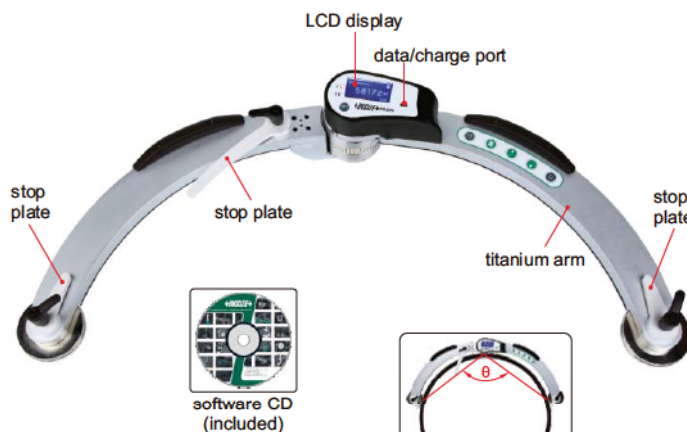
- To measure large external or internal diameters
- Automatic judgment and display external or internal diameter
- Titanium arm, light in weight
- Backlight LCD display, can rotate 180° for easy reading
- Memory of 12 readings and average calculation
- With minimum and maximum measurement mode
- Angle can be displayed

SPECIFICATION

Range	external	Ø500~6000mm/19.69~236.22"
	internal	Ø1100~6000mm/43.31~236.22"
Resolution	0.01mm/0.001"	
Accuracy	±(0.01+D ² /30)mm (D is the diameter to be measured, in meter)	
Power supply	rechargeable battery (for 8 hours working)	
Weight	3.8kg	

STANDARD DELIVERY

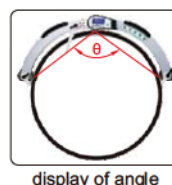
Main unit	1pc
AC/DC adapter	1pc
USB cable and software	1pc



external diameter measurement



internal diameter measurement



display of angle

software (included),
data output, save and print

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

DIGITAL RADIUS GAGE

- Resolution: 0.005mm/0.00005"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Display can be rotated by 320°
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032, automatic power off

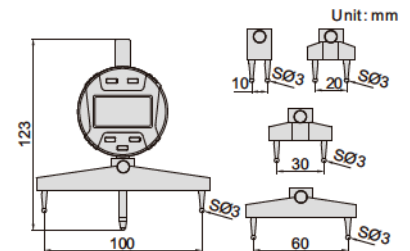
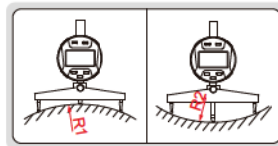


2183



ATTENTION: NO DATA OUTPUT

Measuring jaw	Range of external radius (R1)	Range of internal radius (R2)
10mm	5-11mm	7-13.4mm
20mm	11-22mm	13.4-25mm
30mm	22-83mm	25-87mm
60mm	83-250mm	87-250mm
100mm	250-910mm	250-910mm



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

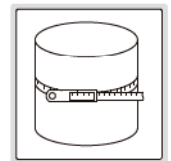
CIRCUMFERENCE TAPES

- Graduation: 0.1mm
- Measure diameter and circumference of pipes, trees, tires, etc.
- Laser engraved scale
- Made of stainless steel

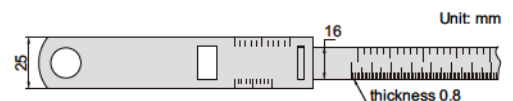


7114-950

ATTENTION: BASIC MODEL



Code	Circumference range	Diameter range	Accuracy	
			Circumference	Diameter
7114-950	60-950mm	Ø20-300mm	±1.5mm	±0.5mm
7114-2200	940-2200mm	Ø300-700mm	±1.5mm	±0.5mm
7114-3460	2190-3460mm	Ø700-1100mm	±1.5mm	±0.5mm



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
- CR1632 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7306-40, 7302-SPC3A, 7305-SPC1A), contact points (page 86~87)

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 traceable to NIST USA



2114-51F

DATA OUTPUT

