

## SURFACE ROUGHNESS TESTER CODE ISR-S1000B

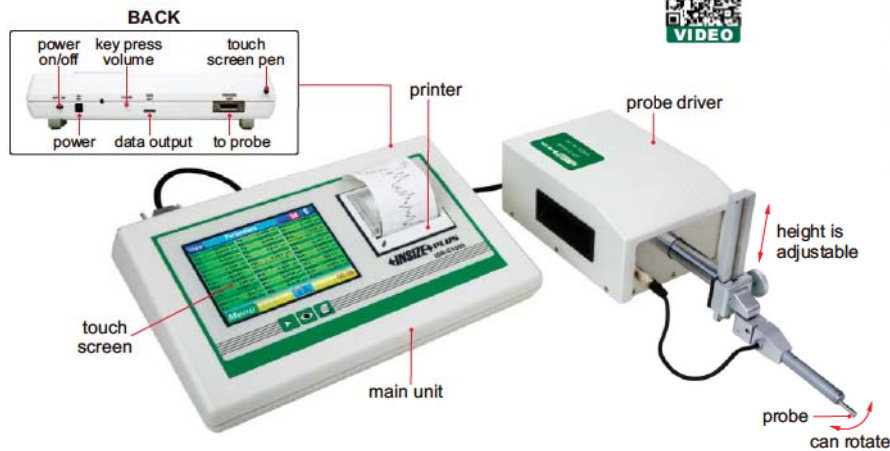
**INSIZE PLUS**  
MADE IN ITALY

CAN MEASURE WAVINESS AND  
CURVED SURFACE WITH RADIUS>5MM

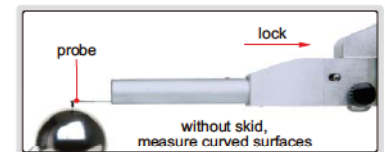
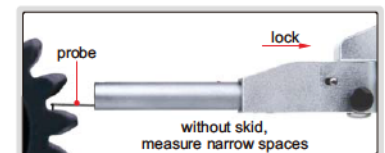
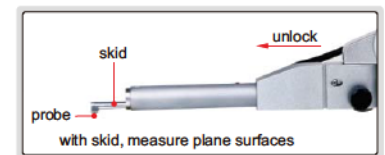
DATA  
OUTPUT

THE PROBE CAN BE WITH  
SKID OR WITHOUT SKID

CUSTOM-MADE  
PROBES ARE AVAILABLE

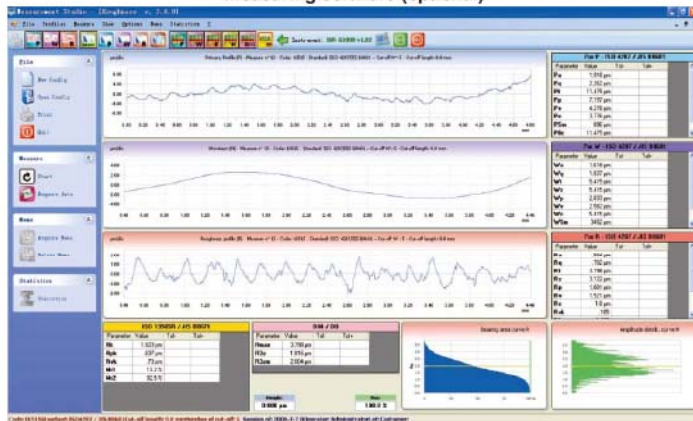


- 48 roughness parameters according to ISO-4287, JIS-B0601, ISO-12085, JIS-B0631
- Automatic probe leveling
- Measuring range up to 1000μm, can measure grit and shot blasting
- Traverse length up to 50mm
- The probe can rotate from -90° to +90°
- Color touch screen, display roughness values, profile and curves
- Can print roughness values, profile and curves
- Memory of maximum 1000 results
- Can set tolerance



test stand (optional)

measuring software (optional)

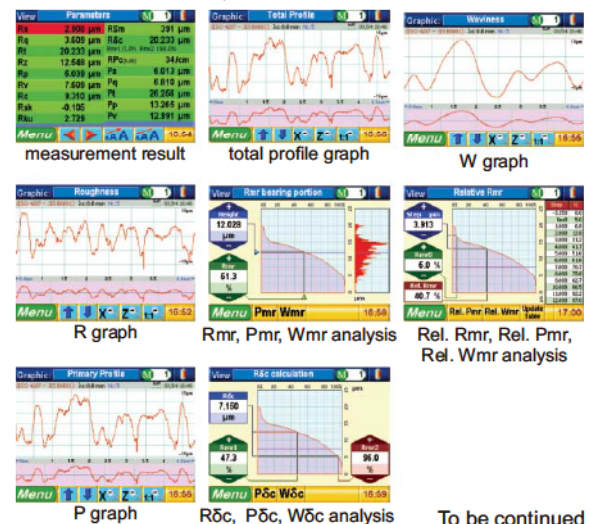


measuring software (optional), can control the roughness tester, display roughness values, profile and curve, data statistics

### SPECIFICATION

Parameters		Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, Rdc, R <sub>Pc</sub> , P <sub>a</sub> , P <sub>q</sub> , P <sub>t</sub> , P <sub>p</sub> , P <sub>v</sub> , P <sub>c</sub> , P <sub>sm</sub> , P <sub>dc</sub> , P <sub>pc</sub> , W <sub>a</sub> , W <sub>q</sub> , W <sub>t</sub> , W <sub>z</sub> , W <sub>p</sub> , W <sub>v</sub> , W <sub>c</sub> , W <sub>sm</sub> , W <sub>dc</sub> , W <sub>pc</sub> , R <sub>k</sub> , R <sub>pk</sub> , R <sub>vk</sub> , Mr1, Mr2, R <sub>max</sub> , R <sub>3z</sub> , R <sub>3zm</sub> , R, AR, R <sub>x</sub> , A <sub>w</sub> , R <sub>ke</sub> , R <sub>pke</sub> , R <sub>vke</sub> , Mr1e, Mr2e
Range		1000μm
Accuracy		±3%
Resolution (Ra)		0.001μm
Probe	type	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		0.75mN
Measuring unit		μm/μin
Cut off		0.08/0.25/0.8/2.5/8mm
Number of cut-offs		1-19 (cut off 0.08/0.25/0.8/2.5mm) 1-5 (cut off 8mm)
Traverse speed		0.5mm/s or 1mm/s
Memory		1000 measurement results
Output		USB
Power		built-in rechargeable battery
Dimension (LxWxH)		320x210x80mm
Weight		2.2kg

### ROUGHNESS VALUE, PROFILE AND DATA ANALYSIS



Continued from previous page

## SURFACE ROUGHNESS TESTER CODE ISR-S1000B

### STANDARD DELIVERY

Main unit	1pc
Probe driver	1pc
Standard probe	1pc
Calibration block	1pc
AC/DC adapter	1pc

### OPTIONAL ACCESSORY

Probe	see details
USB cable and software	ISR-S-SOFTWARE
Test stand	ISR-S1000B-STAND

### SPECIFICATION OF PROBES

Unit: mm

<p><b>standard probe (included, support is removable), code ISR-SB10B</b></p> <p>with probe support, measure plane surfaces, holes and cylinders with diameter &gt; Ø10mm</p> <p>without probe support, measure holes with diameter &gt; Ø4mm, can measure curved surfaces, narrow spaces and waviness</p>		
<p><b>small hole probe (optional), code ISR-SB60B</b></p> <p>without probe support, measure holes with diameter &gt; Ø2mm and depth &lt; 30mm, can measure curved surfaces, narrow spaces and waviness</p>	<p><b>internal angle probe (optional), code ISR-SB70B</b></p> <p>without probe support, measure internal angles, can measure curved surfaces, narrow spaces and waviness</p>	<p><b>knife edge probe (optional), code ISR-SB130B</b></p> <p>without probe support, measure knife edges and small rods</p>
<p><b>deep groove probe (optional), code ISR-SB150B</b></p> <p>without probe support, measure curved surfaces and grooves with depth &lt; 13mm, can measure curved surfaces, narrow spaces and waviness</p>		<p><b>deep groove probe (optional), code ISR-SB120B</b></p> <p>measure grooves with depth &lt; 20mm</p>
<p><b>hole probe (optional), code ISR-SB30B</b></p> <p>measure plane surfaces and holes with diameter &gt; Ø4mm and depth &lt; 20mm</p>	<p><b>small rod probe (optional), code ISR-SB40B</b></p> <p>measure small rods with diameter 1~5mm</p>	<p><b>transverse probe (optional), code ISR-SB50B</b></p> <p>transverse measurement for plane surfaces, cylinders and grooves</p>
<p><b>deep hole probe (optional), code ISR-SB80B</b></p> <p>measure holes with diameter &gt; Ø4.5mm and depth &lt; 35mm</p>	<p><b>cylinder/hole probe (optional), code ISR-SB110B</b></p> <p>measure cylinders and holes with radius &gt; R5mm</p>	<p><b>groove probe (optional), code ISR-SB20B</b></p> <p>measure plane surfaces and grooves</p>



## ROUGHNESS TESTER CODE ISR-S400

**INSIZE PLUS**  
MADE IN ITALY



software CD  
(included)

PROBE CAN  
BE CHANGED

DATA  
OUTPUT

CUSTOM-MADE  
PROBES ARE AVAILABLE



VIDEO

- Automatic probe leveling
- Language: English, French, German, Italian, Spanish, Portuguese
- 12 roughness parameters
- Can set tolerance
- Measuring range up to 400 $\mu$ m, can measure grit and shot blasting
- Traverse length up to 16mm
- The probe can be set at 90° or 270°, for transverse measurement
- Memory of maximum 100 results



adjustable stand (included)



transverse measurement



probe cover (included), can put the small  
workpieces directly on the  
probe for measurement



Output software (included),  
output data and graphic to  
Excel, make report



measuring software (optional), can control the roughness tester,  
display roughness values, profile and curve, data statistics



heavy duty test stand (optional)



light duty test stand (optional)

### SPECIFICATION

Parameters	Ra, Rq, Rt, Rz, Rc, Rmax, Rsm, Rpc, Rmr, R, AR, Rx	
Range	Ra: 0~100 $\mu$ m, Rt: 0.05~400 $\mu$ m	
Accuracy	$\pm 3\%$	
Resolution (Ra)	0.001 $\mu$ m	
Probe	type	inductive
	stylus radius/angle	5 $\mu$ m/90°
	stylus material	diamond
Measuring force	0.75mN	
Measuring unit	$\mu$ m/ $\mu$ in	
Cut off	0.25/0.8/2.5mm	
Number of cut-offs	1 to 5	
Traverse speed	1mm/s	
Memory	100 measurement results	
Output	USB	
Power	built-in rechargeable battery	
Dimension (L×W×H)	122×52×68mm	
Weight	650g	

### STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block	1pc
Adjustable stand	1pc
AC/DC adapter	1pc
Probe cover	1pc
USB cable and output software	1pc

### OPTIONAL ACCESSORY

Extension rod	ISR-S400-ER100
Probe	see details
USB cable and measuring software	ISR-S-SOFTWARE
Heavy duty test stand	ISR-S400-DK
Light duty test stand	ISR-S400-STAND

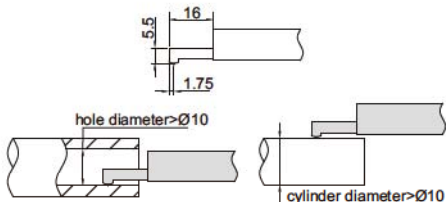
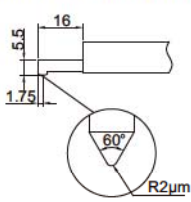
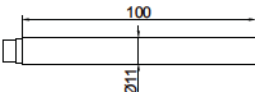
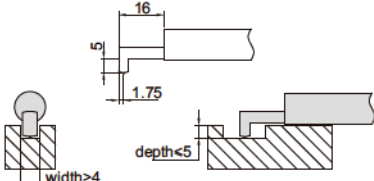
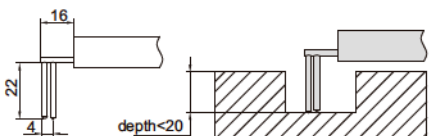
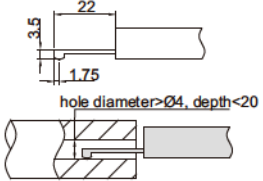
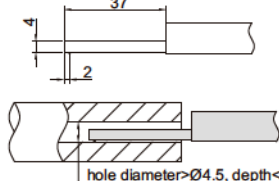
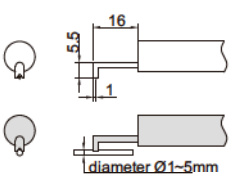
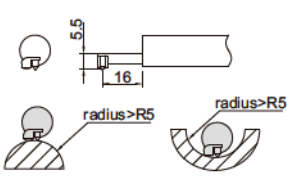
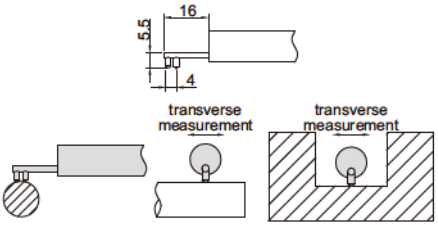
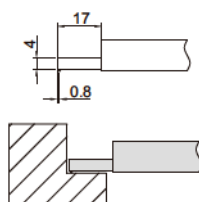
To be continued

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## ROUGHNESS TESTER CODE ISR-S400

Unit: mm

### SPECIFICATION OF PROBES

<p><b>standard probe (included)</b></p>  <p>measure plane surfaces, holes and cylinders with diameter &gt; Ø10mm</p>	<p><b>small roughness probe (optional) code ISR-S400-SB10R2</b></p>  <p>measure surfaces with small roughness</p>
<p><b>extension rod (optional) code ISR-S400-ER100</b></p>  <p>for long holes</p>	
<p><b>groove probe (optional) code ISR-S400-SB20</b></p>  <p>measure plane surfaces and grooves</p>	<p><b>deep groove probe (optional) code ISR-S400-SB120</b></p>  <p>measure grooves with depth &lt; 20mm</p>
<p><b>small hole probe (optional) code ISR-S400-SB30</b></p>  <p>measure plane surfaces and holes with diameter &gt; Ø4mm and depth &lt; 20mm</p>	<p><b>deep hole probe (optional) code ISR-S400-SB80</b></p>  <p>measure holes with diameter &gt; Ø4.5mm and depth &lt; 35mm</p>
<p><b>small rod probe (optional) code ISR-S400-SB40</b></p>  <p>measure small rods with diameter Ø1~5mm</p>	<p><b>cylinder/hole probe (optional) code ISR-S400-SB110</b></p>  <p>measure cylinders and holes with radius &gt; R5mm</p>
<p><b>transverse probe (optional) code ISR-S400-SB50</b></p>  <p>transverse measurement for plane surfaces, cylinders and grooves</p>	<p><b>internal angle probe (optional) code ISR-S400-SB140</b></p>  <p>measure internal angles</p>

## ROUGHNESS TESTER CODE ISR-C100

- 16 roughness parameters
- With probe position indicator
- Connected with printer via bluetooth
- Can display roughness values, profile and curve
- Memory of maximum 100 results
- Automatic power off



software CD  
(included)



VIDEO

DATA  
OUTPUT

probe cover (included)



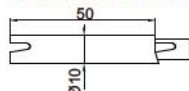
can put the small workpieces  
directly on the probe for measurement

adjustable stand (included)

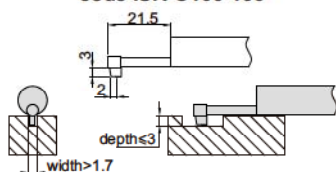


Unit: mm

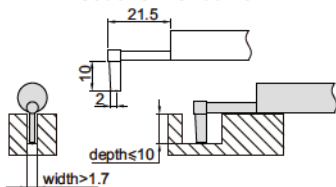
extension rod (optional),  
code ISR-C100-ER



groove probe (optional),  
code ISR-C100-130



deep groove probe (optional),  
code ISR-C100-131



wireless printer (optional)



test stand (optional)



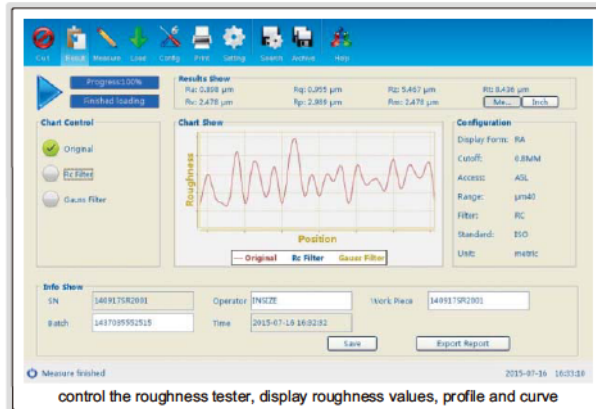
the maximum workpiece  
height is 310mm

remote control (included)



Android APP for mobile device (included), the roughness tester can be controlled  
by mobile phone or tablet via bluetooth, the maximum working distance is 5m

measuring software for PC (included)



control the roughness tester, display roughness values, profile and curve

### SPECIFICATION

Parameters		Ra, Rq, Rz, Rv, Rp, Rm, Rt, RS, Rsm, R3z, R3y, Rz (JIS), Rku, Rsk, Rmax, Rpc
Range		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 to 5
Traverse speed		0.5mm/s, 1mm/s
Memory		100 measurement results
Output		USB and bluetooth
Power		built-in rechargeable battery
Dimension (L×W×H)		140×52×48mm
Weight		440g

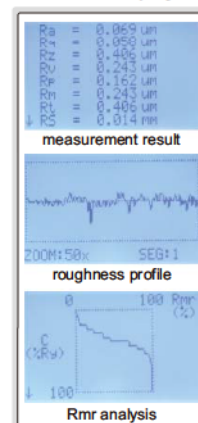
### STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Adjustable stand	1pc
Probe cover	1pc
USB cable and software for PC	1pc
Android APP for mobile device	1pc
AC/DC adapter	1pc

### OPTIONAL ACCESSORY

Extension rod	ISR-C100-ER
Groove probe	ISR-C100-130
Deep groove probe	ISR-C100-131
Test stand	ISR-C100-STAND
Wireless printer	ISR-C100-PRINTER

### screen display





## ROUGHNESS TESTER CODE ISR-C002

DATA  
OUTPUT



VIDEO



software CD  
(included)

probe cover (included)



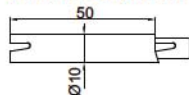
put the small workpieces directly  
under the probe for measurement

adjustable stand (included)

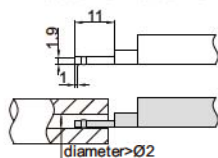


Unit: mm

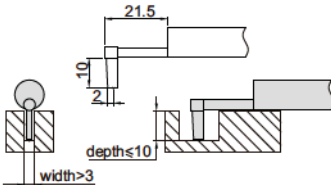
extension rod (optional),  
code ISR-C002-ER



small hole probe (optional),  
code ISR-C002-SBP



deep groove probe (optional),  
code ISR-C002-DGP



wireless printer (optional)



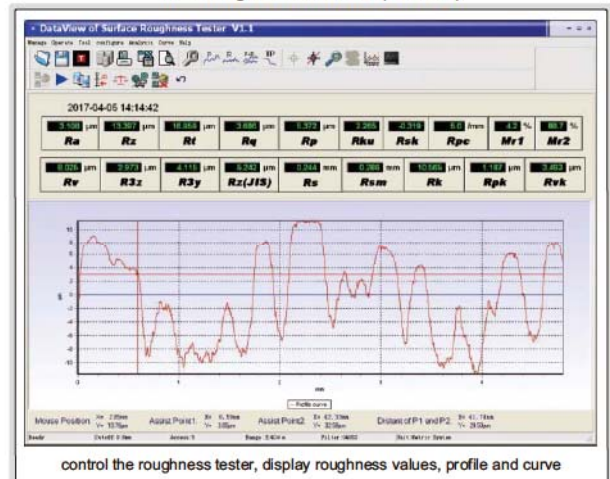
test stand (optional)



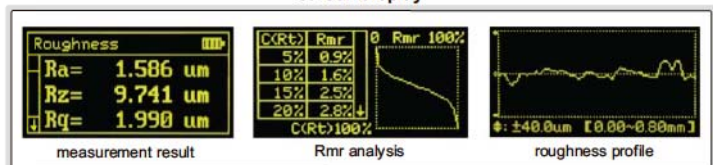
the maximum workpiece  
height is 310mm

- 21 roughness parameters
- Connected with printer via bluetooth
- Display roughness values, profile and curve
- Memory of maximum 100 results
- Automatic power off

measuring software for PC (included)



screen display



### 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	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 to 5
Traverse speed	0.5mm/s, 1mm/s
Memory	100 measurement results
Output	USB and bluetooth
Power	built-in rechargeable battery
Dimension (L×W×H)	141×55×40mm
Weight	400g

### STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Adjustable stand	1pc
Probe cover	1pc
USB cable and software for PC	1pc
AC/DC adapter	1pc

### OPTIONAL ACCESSORY

Extension rod	ISR-C002-ER
Deep groove probe	ISR-C002-DGP
Small hole probe	ISR-C002-SBP
Test stand	ISR-C002-STAND
Wireless printer	ISR-C002-PRINTER

## ROUGHNESS TESTER CODE ISR-C003

- Unit:  $\mu\text{m}$ ,  $\mu\text{in}$
- 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
Traverse speed		0.75mm/s
Power		built-in rechargeable battery
Dimension (L×W×H)		106×70×24mm
Weight		200g



VIDEO



calibration block  
and support (included)

### STANDARD DELIVERY

Main unit	1pc
Calibration block and support	1pc of each
AC/DC adapter	1pc

## SURFACE ROUGHNESS SPECIMENS

**INSIZE PLUS**  
MADE IN UK

- 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, 3.2 $\mu\text{m}$	0.29, 0.55, 0.91, 1.74, 2.6, 4.65, 7.87, 15.6 $\mu\text{m}$	8pcs
ISR-CS316	Cylindrical grinding	0.025, 0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2 $\mu\text{m}$	0.3, 0.53, 0.88, 1.56, 2.64, 4.4, 7.71, 15.3 $\mu\text{m}$	8pcs
ISR-CS317	Flat lapping	Criss-cross 0.025, 0.05, 0.1, 0.2 $\mu\text{m}$	0.4, 0.6, 0.74, 1.26 $\mu\text{m}$	4pcs
		Parallel 0.025, 0.05, 0.1, 0.2 $\mu\text{m}$	0.34, 0.56, 1.12, 1.5 $\mu\text{m}$	4pcs
ISR-CS318	Cylindrical lapping	0.025, 0.05, 0.1, 0.2 $\mu\text{m}$	0.46, 0.54, 0.63, 1.23 $\mu\text{m}$	4pcs
	Superfinishing	0.025, 0.05, 0.1, 0.2 $\mu\text{m}$	0.36, 0.7, 1, 1.4 $\mu\text{m}$	4pcs
ISR-CS319	Face turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	1.92, 3.2, 6.15, 12.5, 23.7, 48.7, 102, 185 $\mu\text{m}$	8pcs
ISR-CS320	Cylindrical turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	1.7, 3.2, 6.1, 12.2, 23.7, 47.5, 95, 190 $\mu\text{m}$	8pcs
ISR-CS321	End milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	1.92, 3.82, 6.45, 12.2, 25.2, 49.8, 92.6, 191 $\mu\text{m}$	8pcs
ISR-CS322	Reaming	0.4, 0.8, 1.6, 3.2 $\mu\text{m}$	1.7, 3.2, 6.4, 12.8 $\mu\text{m}$	4pcs
	Drilling	1.6, 3.2, 6.3, 12.5 $\mu\text{m}$	7.5, 15.5, 31, 60 $\mu\text{m}$	4pcs
ISR-CS323	Horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	1.8, 3.68, 6.63, 12.8, 25.6, 53, 97.5, 197 $\mu\text{m}$	8pcs
ISR-CS325	Shaping (planing)	0.8, 1.6, 3.2, 6.3, 12.5, 25, 50, 100 $\mu\text{m}$	3.84, 6.7, 12.2, 25.2, 48.7, 99.9, 190, 361 $\mu\text{m}$	8pcs
ISR-CS326	Linishing (beltsanding)	0.1, 0.2, 0.4, 0.8, 1.6, 3.2 $\mu\text{m}$	0.9, 1.55, 3.37, 7.42, 18.5, 31 $\mu\text{m}$	6pcs
ISR-CS328	Vertical grinding	0.2, 0.4, 0.8, 1.6, 3.2, 6.3 $\mu\text{m}$	1.1, 3.5, 6.15, 8.78, 22.19, 40.8 $\mu\text{m}$	6pcs
ISR-CS329	Grit blasting	3.2, 10.5, 18, 25 $\mu\text{m}$	19.2, 63, 108, 150 $\mu\text{m}$	4pcs
	Shot blasting	3.2, 8, 13, 18 $\mu\text{m}$	19.2, 48, 78, 108 $\mu\text{m}$	4pcs
ISR-CS331	Spark erosion (EDM)	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	2.5, 4.5, 7.2, 14.2, 24.7, 51.2, 105, 196 $\mu\text{m}$	8pcs
ISR-CS333	Hand filing	0.4, 0.8, 1.6, 3.2, 6.3 $\mu\text{m}$	3, 5.6, 12.4, 22.5, 61 $\mu\text{m}$	5pcs
ISR-CS334	Castings	0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	3.2, 8, 16, 32, 56, 112, 225 $\mu\text{m}$	7pcs
ISR-CS335	Honing	0.05, 0.1, 0.2, 0.4, 0.8, 1.6 $\mu\text{m}$	0.31, 0.56, 1, 2, 4, 9 $\mu\text{m}$	6pcs
ISR-CS336	Polishing	0.0125, 0.025, 0.05, 0.1, 0.2 $\mu\text{m}$	0.29, 0.35, 0.67, 0.72, 1.52 $\mu\text{m}$	5pcs



ATTENTION: PLEASE APPLY  
ANTI-RUST OIL AFTER USE

## SURFACE ROUGHNESS SPECIMEN SET CODE ISR-CS2

Machining method	Roughness (Ra)	Roughness (Rz)	Quantity
Horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm 16, 32, 63, 125, 250, 500µin	1.6, 3.2, 6.3, 12.5, 25, 50µm	6pcs
Vertical milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm 16, 32, 63, 125, 250, 500µin	1.6, 3.2, 6.3, 12.5, 25, 50µm	6pcs
Turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm 16, 32, 63, 125, 250, 500µin	1.6, 3.2, 6.3, 12.5, 25, 50µm	6pcs
Plain grinding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm 2, 4, 8, 16, 32, 63µin	0.2, 0.4, 0.8, 1.6, 3.2, 6.3µm	6pcs
Flat lapping	0.05, 0.1µm 2, 4µin	0.2, 0.4µm	2pcs
External grinding	0.2, 0.4, 0.8, 1.6µm 8, 16, 32, 63µin	0.8, 1.6, 3.2, 6.3µm	4pcs



- For checking, identifying and specifying the roughness by symbol
- Made of carbon steel

## SURFACE ROUGHNESS SPECIMEN SET CODE ISR-CS130-W

**INSIZE PLUS**  
MADE IN UK

- 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	3pcs
Reaming	0.4, 0.8, 1.6µm 16, 32, 63µin	3, 6, 10µm	3pcs
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	6pcs
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	6pcs
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	6pcs
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	6pcs



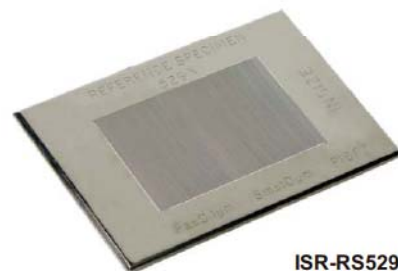
MEASURING ACCURACY CAN BE IMPROVED, IF THE CALIBRATION  
IS MADE ON A REFERENCE SPECIMEN WITH THE ROUGHNESS  
VALUE CLOSE TO THE WORKPIECE TO BE MEASURED

## SURFACE ROUGHNESS REFERENCE SPECIMENS

**INSIZE PLUS**  
MADE IN UK

Code	Roughness (Ra)
ISR-RS525X	6.25µm *
ISR-RS526X	3.15µm *
ISR-RS527X	3.0µm *
ISR-RS528X	0.5µm *
ISR-RS529X	0.1µm * (not suitable for ISR-S400)
ISR-RS530X	1.0µm *
ISR-RS531X	0.3µm * (not suitable for ISR-S400)

\* The actual value may be slightly different



ISR-RS529X

- To calibrate roughness testers
- Meets ISO 5436-1: 2000
- Rust proof, made of pure Nickel



## SHOT AND GRIT BLASTING SURFACE ROUGHNESS SPECIMENS

**INSIZE PLUS**  
MADE IN UK

- 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

## COATING THICKNESS GAGE

**INSIZE PLUS**  
MADE IN GERMANY

SUITABLE FOR SMALL SURFACES,  
CONCAVE OR CONVEX SURFACES

FOR MAGNETIC AND  
NON-MAGNETIC SUBSTRATES

- Suitable for small surfaces, concave or convex surfaces
- Magnetic induction probe (Fe) is to measure the thickness of non-magnetic coating on magnetic substrate  
Substrate: iron, steel, magnetic stainless steel (does not include non-magnetic stainless steel)  
Coating: zinc, copper, chrome-tin, plastic powder, paint (does not include nickel)
- Eddy current probe (NFe) is to 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



VIDEO

### MAIN UNIT SPECIFICATION

Code	ISO-2000FN
Measuring range	magnetic induction probe (Fe) 0~2000µm
	eddy current probe (NFe) 0~800µm
Accuracy	±(1.5+2%L)µm L is measuring thickness in µm
Resolution	0.1µm (range<100µm)
	1µm (range 100~1000µm)
	10µm (range≥1000µm)
Repeatability	1µm (range 0~1000µm)
	10µm (range≥1000µm)
Measuring mode	continuous or single
Calibration mode	four points calibration
Minimum substrate thickness	magnetic induction probe (Fe): 0.2mm, eddy current probe (NFe): 0.05mm
Minimum measuring area	5x5mm, calibration should be made on workpiece without coating, test stand (optional) is recommended in order to have same position for calibration and measurement
Power supply	2x1.5V AA batteries
Dimension of main unit	122x65x22mm
Weight of main unit	150g



magnetic induction  
probe Fe (optional)  
ISO-2000FN-FE



eddy current probe  
NFe (optional)  
ISO-2000FN-NFE

connected to probe



main unit  
ISO-2000FN



standard foil (included)

### STANDARD DELIVERY

Main unit	1pc
Zero calibration block for Fe probe	1pc
Zero calibration block for NFe probe	1pc
Standard foil	7pcs
Battery (AA)	2pcs

### PROBE (OPTIONAL) SPECIFICATION

Magnetic induction probe (Fe)	ISO-2000FN-FE
Eddy current probe (NFe)	ISO-2000FN-NFE