

SURFACE ROUGHNESS TESTER CODE ISR-S1000B

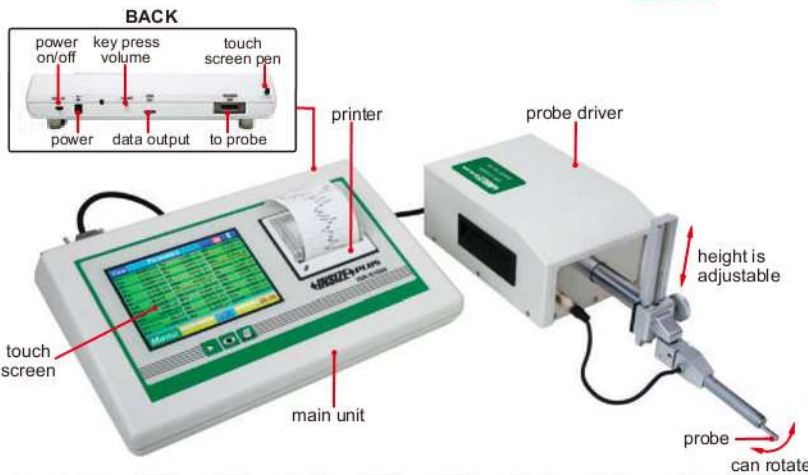


CAN MEASURE WAVINESS AND CURVED SURFACE WITH RADIUS>5MM

DATA OUTPUT

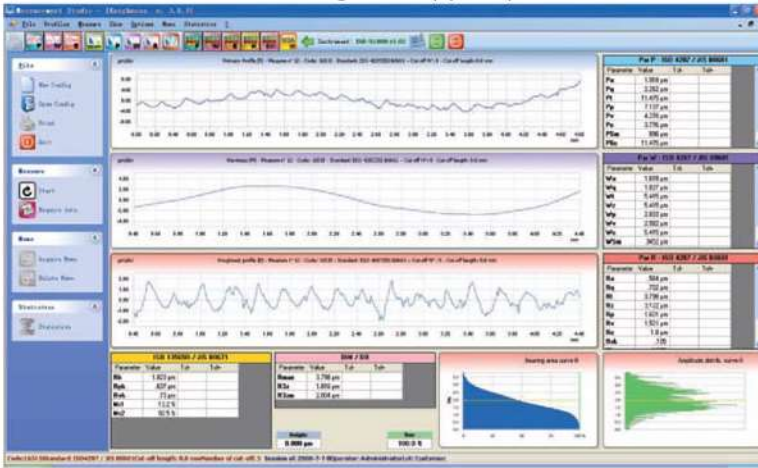
CUSTOM-MADE PROBES ARE AVAILABLE

THE PROBE CAN BE WITH SKID OR WITHOUT SKID

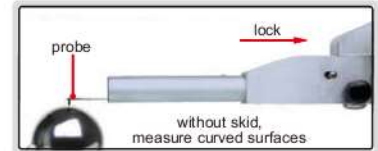
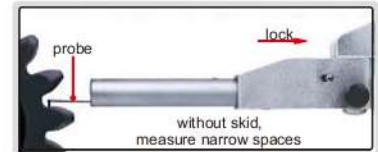
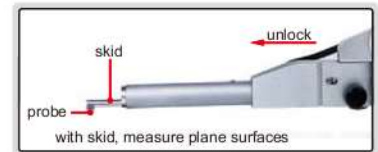


- 48 roughness parameters according to ISO-4287, JIS-B0601, ISO-12085, JIS-B0631
- Automatic probe leveling
- Measuring range up to 1000µm, can measure grit and shot blasting
- Traverse length up to 50mm
- The probe can rotate from -90° to +90°
- Color touch screen, display roughness values, profile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

measuring software (optional)



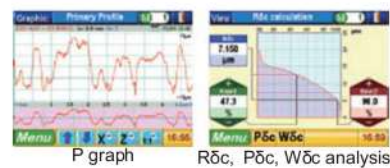
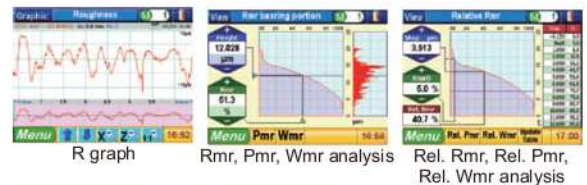
measuring software (optional), can control the roughness tester, display roughness values, profile and curve, data statistics



SPECIFICATION

| | | |
|--------------------|--|-----------|
| Parameters | Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, Rδc, RΡc, Pa, Pq, Pt, Pp, Pv, Pc, Psm, Pδc, PΡc, Wα, Wq, Wt, Wz, Wp, Wv, Wc, Wsm, Wδc, WΡc, Rk, Rpk, Rvk, Mr1, Mr2, Rmax, R3z, R3zm, R, AR, Rx, Aw, Rke, Rpke, Rvke, 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



To be continued

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 |

SPECIFICATION OF PROBES

Unit: mm

| | | |
|--|--|---|
| <p>standard probe (included, support is removable), code ISR-SB10B</p> <p>with probe support, measure plane surfaces, holes and cylinders with diameter > 10mm</p> <p>without probe support, measure holes with diameter > 4mm, can measure curved surfaces, narrow spaces and waviness</p> | | |
| <p>small hole probe (optional), code ISR-SB60B</p> <p>without probe support, measure holes with diameter > 2mm and depth < 30mm, can measure curved surfaces, narrow spaces and waviness</p> | <p>internal angle probe (optional), code ISR-SB70B</p> <p>without probe support, measure internal angles, can measure curved surfaces, narrow spaces and waviness</p> | <p>knife edge probe (optional), code ISR-SB130B</p> <p>without probe support, measure knife edges and small rods</p> |
| <p>deep groove probe (optional), code ISR-SB150B</p> <p>without probe support, measure curved surfaces and grooves with depth < 13mm, can measure curved surfaces, narrow spaces and waviness</p> | <p>deep groove probe (optional), code ISR-SB120B</p> <p>measure grooves with depth < 20mm</p> | |
| <p>hole probe (optional), code ISR-SB30B</p> <p>measure plane surfaces and holes with diameter > 4mm and depth < 20mm</p> | <p>small rod probe (optional), code ISR-SB40B</p> <p>measure small rods with diameter 1-5mm</p> | <p>transverse probe (optional), code ISR-SB50B</p> <p>transverse measurement for plane surfaces, cylinders and grooves</p> |
| <p>deep hole probe (optional), code ISR-SB80B</p> <p>measure holes with diameter > 4.5mm and depth < 35mm</p> | <p>cylinder/hole probe (optional), code ISR-SB110B</p> <p>measure cylinders and holes with radius > R5mm</p> | <p>groove probe (optional), code ISR-SB20B</p> <p>measure plane surfaces and grooves</p> |

ROUGHNESS TESTER CODE ISR-S400



software CD
(included)

PROBE CAN
BE CHANGED

DATA
OUTPUT

CUSTOM-MADE
PROBES ARE AVAILABLE



- Automatic probe leveling
- Language: English, French, German, Italian, Spanish, Portuguese
- 12 roughness parameters
- Can set tolerance
- Measuring range up to 400 μ 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



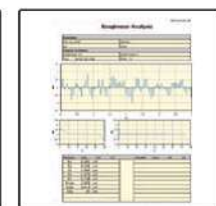
adjustable stand (included)



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 μ m, Rt: 0.05~400 μ m | |
| Accuracy | \pm 3% | |
| Resolution (Ra) | 0.001 μ m | |
| Probe | type | inductive |
| | stylus radius/angle | 5 μ m/90° |
| | stylus material | diamond |
| Measuring force | 0.75mN | |
| Measuring unit | μ m/ μ 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 |

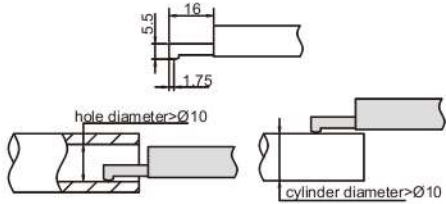
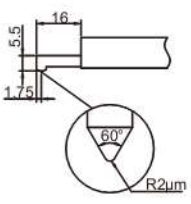
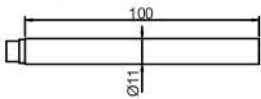
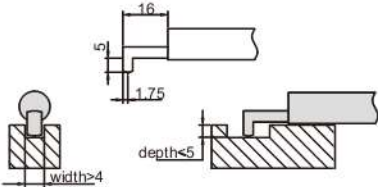
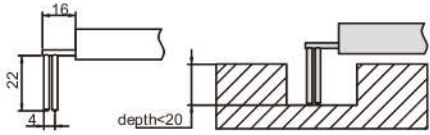
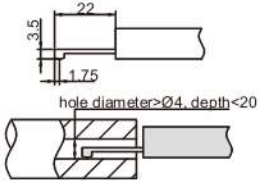
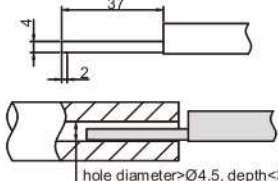
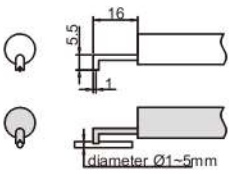
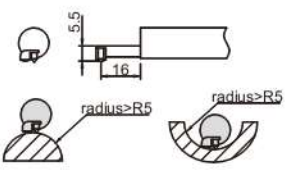
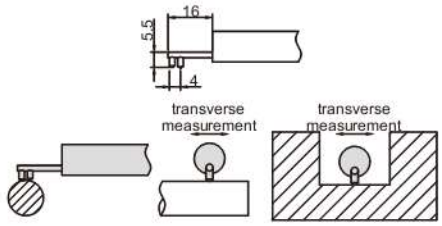
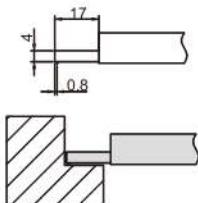
To be continued

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**ROUGHNESS TESTER
CODE ISR-S400**

Unit: mm

SPECIFICATION OF PROBES

| | |
|---|--|
| <p>standard probe (included)</p>  <p>measure plane surfaces, holes and cylinders with diameter > 10mm</p> | <p>small roughness probe (optional) code ISR-S400-SB10R2</p>  <p>measure surfaces with small roughness</p> |
| <p>extension rod (optional) code ISR-S400-ER100</p>  <p>for long holes</p> | |
| <p>groove probe (optional) code ISR-S400-SB20</p>  <p>measure plane surfaces and grooves</p> | <p>deep groove probe (optional) code ISR-S400-SB120</p>  <p>measure grooves with depth < 20mm</p> |
| <p>small hole probe (optional) code ISR-S400-SB30</p>  <p>measure plane surfaces and holes with diameter > 4mm and depth < 20mm</p> | <p>deep hole probe (optional) code ISR-S400-SB80</p>  <p>measure holes with diameter > 4.5mm and depth < 35mm</p> |
| <p>small rod probe (optional) code ISR-S400-SB40</p>  <p>measure small rods with diameter 1-5mm</p> | <p>cylinder/hole probe (optional) code ISR-S400-SB110</p>  <p>measure cylinders and holes with radius > 5mm</p> |
| <p>transverse probe (optional) code ISR-S400-SB50</p>  <p>transverse measurement for plane surfaces, cylinders and grooves</p> | <p>internal angle probe (optional) code ISR-S400-SB140</p>  <p>measure internal angles</p> |

ROUGHNESS TESTER CODE ISR-C100



software CD
(included)



VIDEO

DATA
OUTPUT

- 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

probe cover (included)



can put the small workpieces
directly on the probe for measurement.

adjustable stand (included)



Unit: mm

wireless printer (optional)

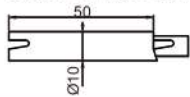


remote control (included)

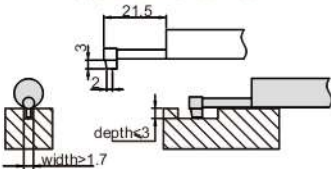


Android APP for mobile device (included), the roughness tester can be controlled by mobile phone or tablet via bluetooth, the maximum working distance is 5m

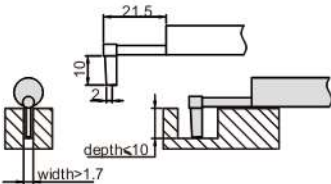
extension rod (optional),
code ISR-C100-ER



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



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

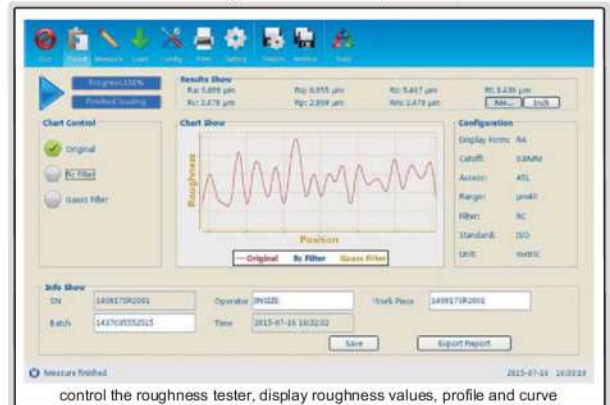


test stand (optional)



the maximum workpiece
height is 310mm

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 | |

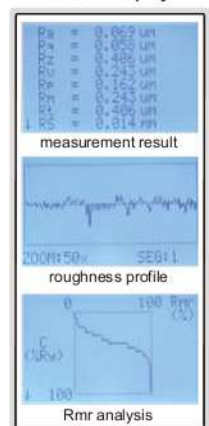
STANDARD DELIVERY

| | |
|-------------------------------|-------------|
| 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)



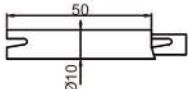
put the small workpieces directly
under the probe for measurement

adjustable stand (included)

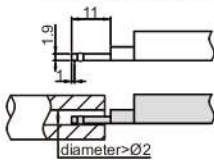


Unit: mm

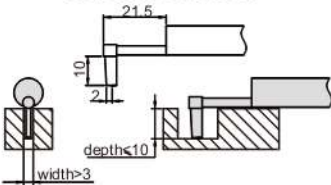
extension rod (optional),
code ISR-C002-ER



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



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



wireless printer (optional)



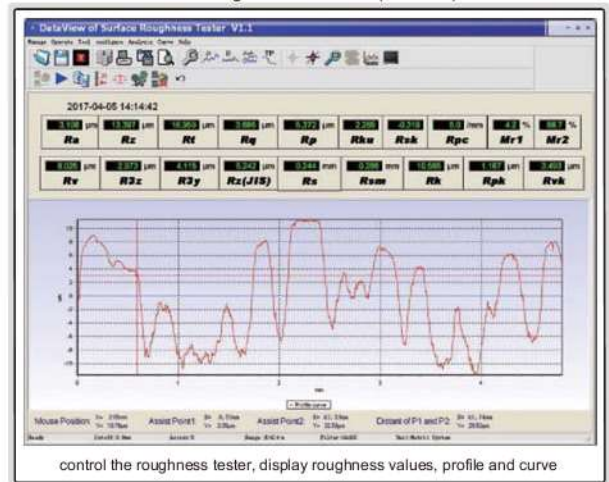
test stand (optional)



the maximum workpiece
height is 310mm

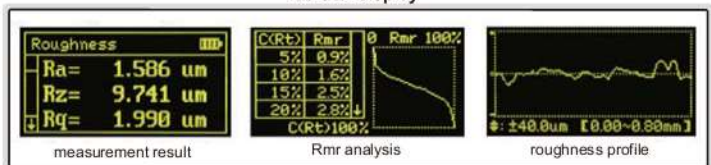
- 21 roughness parameters
- Connected with printer via bluetooth
- Display roughness values, profile and curve
- Memory of maximum 100 results
- Automatic power off

measuring software for PC (included)



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

screen display



measurement result

Rmr analysis

roughness profile

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: μm , μin
- Automatic power off

SPECIFICATION

| | | |
|-------------------|---|---------------------------|
| Parameters | Ra, Rz, Rq, Rt | |
| Range | Ra, Rq: 0.05 ~ 15 μm Rz, Rt: 0.1 ~ 50 μm | |
| Accuracy | $\pm 10\%$ | |
| Resolution (Ra) | 0.01 μm | |
| Probe | type | piezoelectric |
| | stylus radius/angle | 10 $\mu\text{m}/90^\circ$ |
| | stylus material | diamond |
| Measuring force | 5mN | |
| Measuring unit | $\mu\text{m}/\mu\text{in}$ | |
| 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



- 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 μm | 0.29, 0.55, 0.91, 1.74, 2.6, 4.65, 7.87, 15.6 μm | 8pcs |
| ISR-CS316 | Cylindrical grinding | 0.025, 0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2 μm | 0.3, 0.53, 0.88, 1.56, 2.64, 4.4, 7.71, 15.3 μm | 8pcs |
| ISR-CS317 | Flat lapping | Criss-cross | 0.025, 0.05, 0.1, 0.2 μm | 0.4, 0.6, 0.74, 1.26 μm |
| | | Parallel | 0.025, 0.05, 0.1, 0.2 μm | 0.34, 0.56, 1.12, 1.5 μm |
| ISR-CS318 | Cylindrical lapping | 0.025, 0.05, 0.1, 0.2 μm | 0.46, 0.54, 0.63, 1.23 μm | 4pcs |
| | Superfinishing | 0.025, 0.05, 0.1, 0.2 μm | 0.36, 0.7, 1, 1.4 μm | 4pcs |
| ISR-CS319 | Face turning | 0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 μm | 1.92, 3.2, 6.15, 12.5, 23.7, 48.7, 102, 185 μm | 8pcs |
| ISR-CS320 | Cylindrical turning | 0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 μm | 1.7, 3.2, 6.1, 12.2, 23.7, 47.5, 95, 190 μm | 8pcs |
| ISR-CS321 | End milling | 0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 μm | 1.92, 3.82, 6.45, 12.2, 25.2, 49.8, 92.6, 191 μm | 8pcs |
| ISR-CS322 | Reaming | 0.4, 0.8, 1.6, 3.2 μm | 1.7, 3.2, 6.4, 12.8 μm | 4pcs |
| | Drilling | 1.6, 3.2, 6.3, 12.5 μm | 7.5, 15.5, 31, 60 μm | 4pcs |
| ISR-CS323 | Horizontal milling | 0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 μm | 1.8, 3.68, 6.63, 12.8, 25.6, 53, 97.5, 197 μm | 8pcs |
| ISR-CS325 | Shaping (planing) | 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50, 100 μm | 3.84, 6.7, 12.2, 25.2, 48.7, 99.9, 190, 361 μm | 8pcs |
| ISR-CS326 | Linishing (belt sanding) | 0.1, 0.2, 0.4, 0.8, 1.6, 3.2 μm | 0.9, 1.55, 3.37, 7.42, 18.5, 31 μm | 6pcs |
| ISR-CS328 | Vertical grinding | 0.2, 0.4, 0.8, 1.6, 3.2, 6.3 μm | 1.1, 3.5, 6.15, 8.78, 22.19, 40.8 μm | 6pcs |
| ISR-CS329 | Grit blasting | 3.2, 10.5, 18, 25 μm | 19.2, 63, 108, 150 μm | 4pcs |
| | Shot blasting | 3.2, 8, 13, 18 μm | 19.2, 48, 78, 108 μm | 4pcs |
| ISR-CS331 | Spark erosion (EDM) | 0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 μm | 2.5, 4.5, 7.2, 14.2, 24.7, 51.2, 105, 196 μm | 8pcs |
| ISR-CS333 | Hand filing | 0.4, 0.8, 1.6, 3.2, 6.3 μm | 3, 5.6, 12.4, 22.5, 61 μm | 5pcs |
| ISR-CS334 | Castings | 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50 μm | 3.2, 8, 16, 32, 56, 112, 225 μm | 7pcs |
| ISR-CS335 | Honing | 0.05, 0.1, 0.2, 0.4, 0.8, 1.6 μm | 0.31, 0.56, 1, 2, 4, 9 μm | 6pcs |
| ISR-CS336 | Polishing | 0.0125, 0.025, 0.05, 0.1, 0.2 μm | 0.29, 0.35, 0.67, 0.72, 1.52 μm | 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, 500µm | 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, 500µm | 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, 500µm | 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, 63µm | 0.2, 0.4, 0.8, 1.6, 3.2, 6.3µm | 6pcs |
| Flat lapping | 0.05, 0.1µm 2, 4µm | 0.2, 0.4µm | 2pcs |
| External grinding | 0.2, 0.4, 0.8, 1.6µm 8, 16, 32, 63µm | 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

- 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, 8µm | 0.55, 1, 1.6µm | 3pcs |
| Reaming | 0.4, 0.8, 1.6µm 16, 32, 63µm | 3, 6, 10µm | 3pcs |
| Plain grinding | 0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm 2, 4, 8, 16, 32, 63µm | 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, 500µm | 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, 500µm | 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, 500µm | 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

| 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



- 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, 18 μ m | 19.2, 48, 78, 108 μ m |
| ISR-CS018 | Grit blasting | 3.2, 10.5, 18, 25 μ m | 19.2, 63, 108, 150 μ m |

COATING THICKNESS GAGE

 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



MAIN UNIT SPECIFICATION

| | | |
|-----------------------------|---|----------------|
| Code | ISO-2000FN | |
| Measuring range | magnetic induction probe (Fe) | 0~2000 μ m |
| | eddy current probe (NFe) | 0~800 μ m |
| Accuracy | $\pm(1.5+2\%L)\mu$ m L is measuring thickness in μ m | |
| Resolution | 0.1 μ m (range<100 μ m) | |
| | 1 μ m (range 100~1000 μ m) | |
| | 10 μ m (range \geq 1000 μ m) | |
| Repeatability | 1 μ m (range 0~1000 μ m) | |
| | 10 μ m (range \geq 1000 μ m) | |
| 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 |