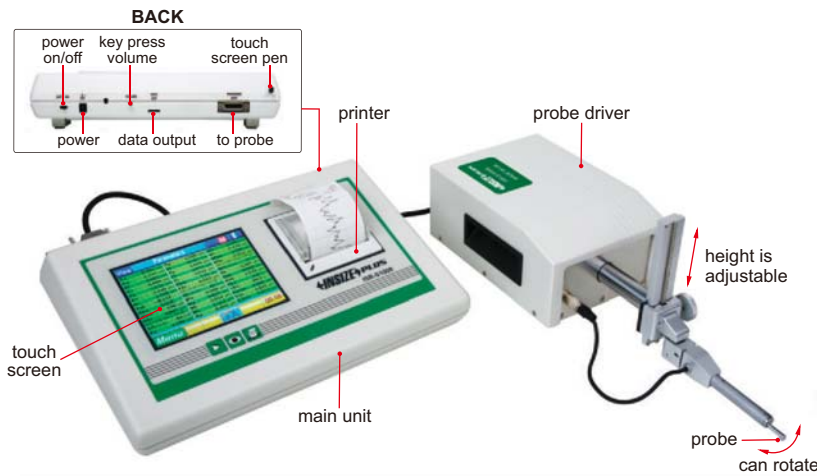# SURFACE ROUGHNESS TESTER
CODE ISR-S1000B

CAN MEASURE WAVINESS AND CURVED SURFACE WITH RADIUS>5MM

DATA OUTPUT

CUSTOM-MADE PROBES ARE AVAILABLE

PREMIUM QUALITY INSIZE PLUS MADE IN ITALY

BACK

power on/off | key press volume | touch screen pen

power | data output | to probe

printer

probe driver

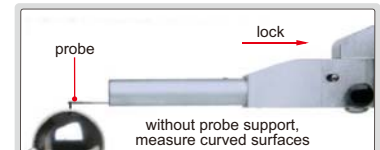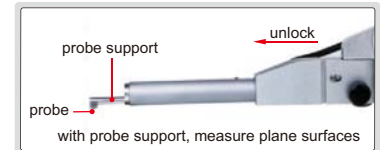height is adjustable

touch screen

main unit

probe — can rotate

- 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
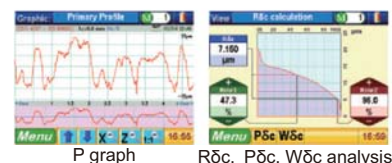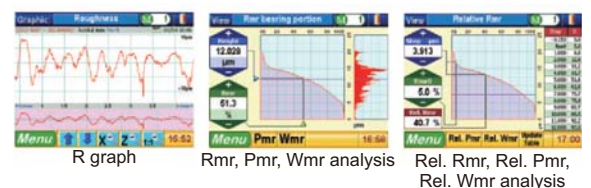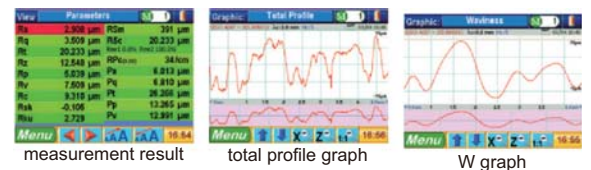- Can set tolerance

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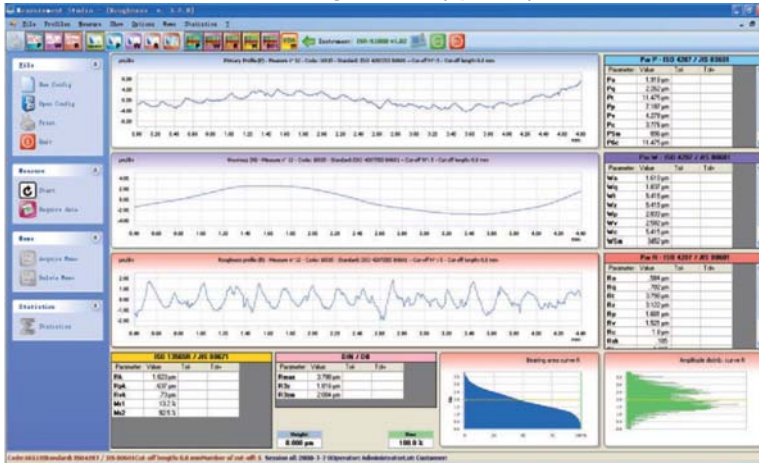
measuring software (optional), can control the roughness tester, display roughness values, profile and curve, data statistics

probe support | unlock

probe

with probe support, measure plane surfaces

probe | lock

without probe support, measure narrow spaces

probe | lock

without probe support, measure curved surfaces

SPECIFICATION

Parameters	Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, Rδc RPc, Pa, Pq, Pt, Pp, Pv, Pc, Psm, Pδc, PPc, Wa Wq, Wt, Wz, Wp, Wv, Wc, Wsm, Wδc, WPc, 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
Probe — stylus radius/angle	5μm/90°
Probe — 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)	320×210×80mm
Weight	2.2kg

ROUGHNESS VALUE, PROFILE AND DATA ANALYSIS

measurement result

total profile graph

W graph

R graph

Rmr, Pmr, Wmr analysis

Rel. Rmr, Rel. Pmr, Rel. Wmr analysis

P graph

Rδc, Pδc, Wδc analysis

**SURFACE ROUGHNESS TESTER
CODE ISR-S1000B**

STANDARD DELIVERY

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

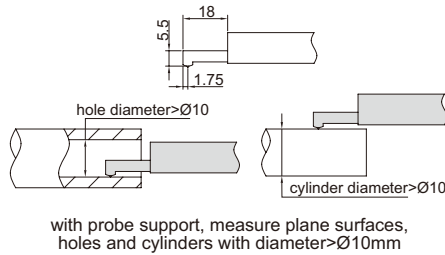## OPTIONAL ACCESSORY

Probe	see details
USB cable and software	ISR-S-SOFTWARE

SPECIFICATION OF PROBES

Unit: mm

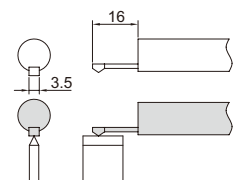### standard probe (included, support is removable), code ISR-SB10B

hole diameter>Ø10

cylinder diameter>Ø10

with probe support, measure plane surfaces,
holes and cylinders with diameter>Ø10mm

radius of curvature>R5

hole diameter>Ø4

without probe support, measure holes with diameter>Ø4mm,
can measure curved surfaces, narrow spaces and waviness
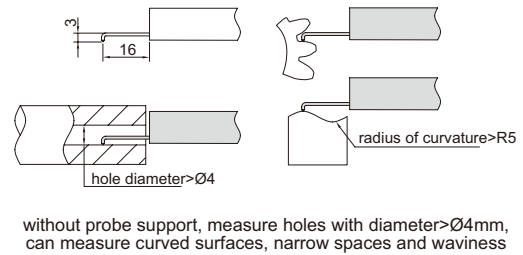
small hole probe (optional), code ISR-SB60B

hole diameter>Ø2, depth<30

without probe support, measure holes with
diameter>Ø2mm and depth<30mm, can measure
curved surfaces, narrow spaces and waviness
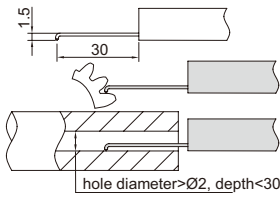
internal angle probe (optional), code ISR-SB70B

without probe support, measure internal
angles, can measure curved surfaces,
narrow spaces and waviness
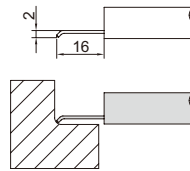
knife edge probe (optional), code ISR-SB130B
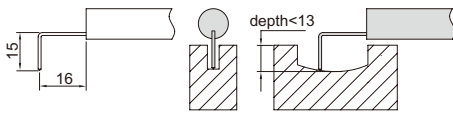
without probe support, measure
knife edges and small rods

deep groove probe (optional), code ISR-SB150B

depth<13

without probe support, measure curved surfaces and grooves with
depth<13mm, can measure curved surfaces, narrow spaces and waviness

deep groove probe (optional), code ISR-SB120B

depth<20

measure grooves with depth<20mm

hole probe (optional), code ISR-SB30B

diameter>Ø4

measure plane surfaces and holes
with diameter>Ø4mm and depth<20mm
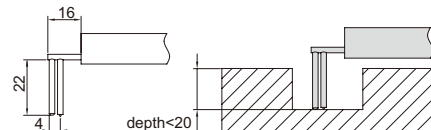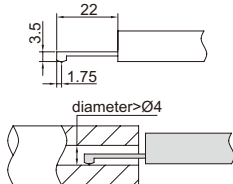
small rod probe (optional), code ISR-SB40B

diameter Ø1~5mm

measure small rods
with diameter 1~5mm
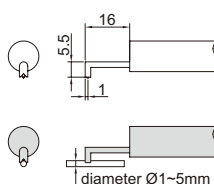
transverse probe (optional), code ISR-SB50B

transverse measurement

transverse measurement

transverse measurement for plane
surfaces, cylinders and grooves
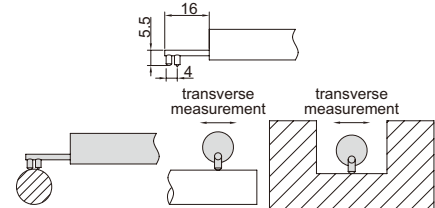
deep hole probe (optional), code ISR-SB80B

hole diameter>Ø4.5, depth<35

measure holes with
diameter>Ø4.5mm and depth<35mm
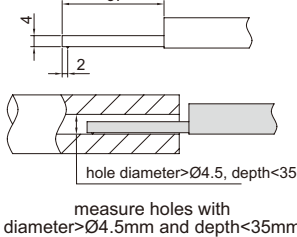
cylinder/hole probe (optional), code ISR-SB110B

radius>R5

radius>R5

measure cylinders and holes
with radius>R5mm

groove probe (optional), code ISR-SB20B

depth≤5

width>4

measure plane surfaces and grooves