ROUGHNESS TESTER FOR AUTOMATION
CODE ISR-C400

CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS

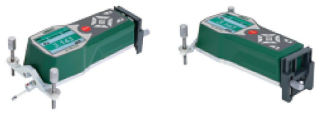
DATA OUTPUT

BLUETOOTH

- Communicate with PLC for automatic operation
- Display 1, 3 or 4 groups of measurement parameters
- Threshold alarm function
- Selectable measurement standards ISO-4287, ISO-12085, ANSI B46.1, DIN-4768, JIS-B601, ISO-21920, ISO-13565, GB/T-13288
- Automatic range change during measurement
- Display roughness value, profile and curve
- Support bluetooth printer, freely select the measurement parameters and curves
- Memory of maximum 100 results
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable



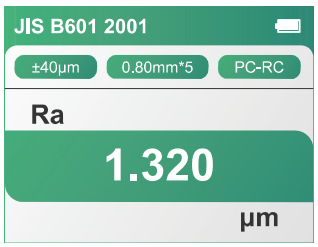
adjustable stand (included)



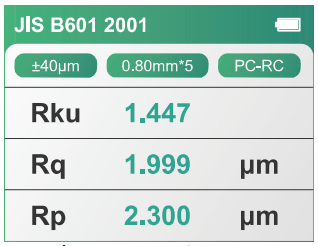
bluetooth printer **(optional)**



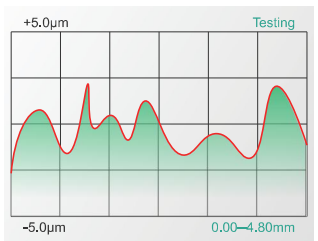
screen display



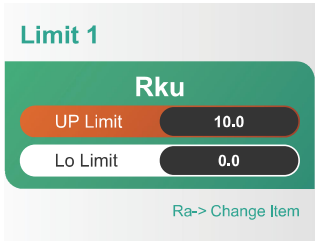
display 1 group of parameter



displays 3 groups of parameters



roughness profile



threshold alarm setting

probe cover (included)



put the small workpieces directly under the probe for measurement



operate roughness tester by mobile phones



connect to mobile phones via bluetooth, display roughness values, profile and curve

operate roughness tester by computers



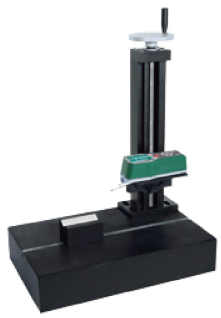
connect to computers via USB cable (software is included), display roughness values, profile and curve

light duty test stand **(optional)**



the maximum workpiece height is 220mm

heavy duty test stand **(optional)**



the maximum workpiece height is 310mm

data can be sent to Excel by connecting to computer via bluetooth or SPC cable

via bluetooth

receiver **(optional)**



via SPC cable

SPC cable **(optional)**



receiver **(optional)**





SPECIFICATION

Parameters		Ra, Rq, Rz, Ry(DIN), Rp, Rv, R3z, R3y, Rsk, Rku, Rc, Rpc, Rsm, Rs, Rz(JIS), Ry(JIS), Rt, Rmax, RΔc, Rmrc1, Rmrc2, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Ry5, Rpkx, Rvkx, R5p, R5v, R10z, Rmr1, Rmr2, Rmr3, Rmr4, Ramax, Rzmax, Rpt, Rvt, Rpmax, Rvmax, Rda, Rdq, Rdc, RΔa, RΔq, Rz1max, Vo, Htp
Range		320μm (-160μm~160μm)
Accuracy		±10%
Resolution (Ra)		0.001μm
Standard Probe (ISR-C002-PROBE)	type	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-off		1 to 5
Moving speed		0.5mm/s, 1mm/s
Memory		100 measurement results
Output		bluetooth, USB, RS485
Power		built-in rechargeable battery
Dimension (L×W×H)		141×55×40mm
Net weight		400g

STANDARD DELIVERY

Main unit	1 pc
Standard probe (ISR-C002-PROBE)	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

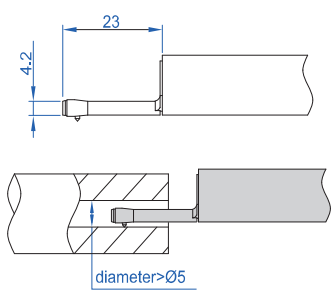
OPTIONAL ACCESSORY

Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Deep groove probe	ISR-C002-DGP1
Extension rod	ISR-C002-ER
Extension rod	ISR-C002-ER100
Transverse rod	ISR-C002-TR
Light duty test stand	ISR-C002-STAND1
Heavy duty test stand	ISR-C002-STAND
Bluetooth printer	ISR-C002-PRINTER
Receiver	ISR-C300-RECEIVER
SPC cable	ISR-C400-SPC

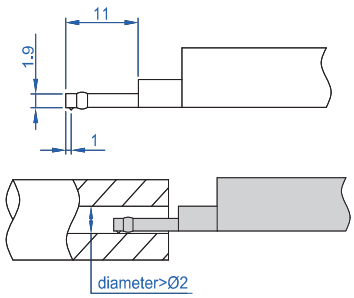
PROBE PARAMETERS

unit: mm

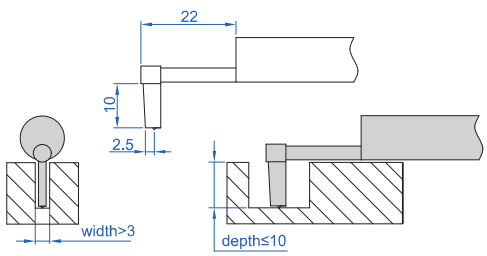
standard probe, 5μm/90° (included), code **ISR-C002-PROBE**



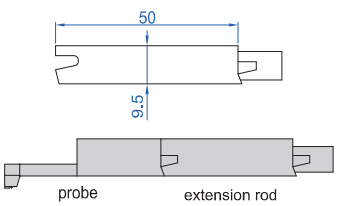
tiny hole probe, 5μm/90° **(optional)**, code **ISR-C002-SBP**



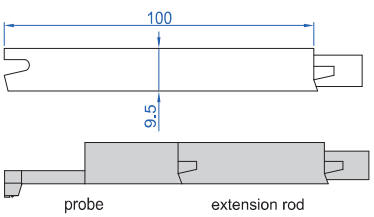
deep groove probe, 5μm/90° **(optional)**, code **ISR-C002-DGP**



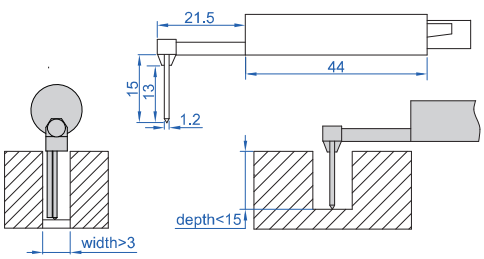
extension rod **(optional)**, code **ISR-C002-ER**



extension rod **(optional)**, code **ISR-C002-ER100**

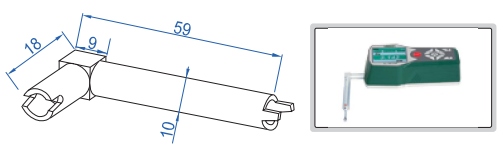


deep groove probe, 5μm/90° **(optional)**, code **ISR-C002-DGP1**



need to be delivered with roughness tester **ISR-C400**, recommended for use above Ra 0.1μm

transverse rod **(optional)**, code **ISR-C002-TR**



recommended for use with height calipers or stands