

# SURFACE ROUGHNESS TESTER PART NO. ISR-S1000B

**INSIZE PLUS**  
MADE IN ITALY

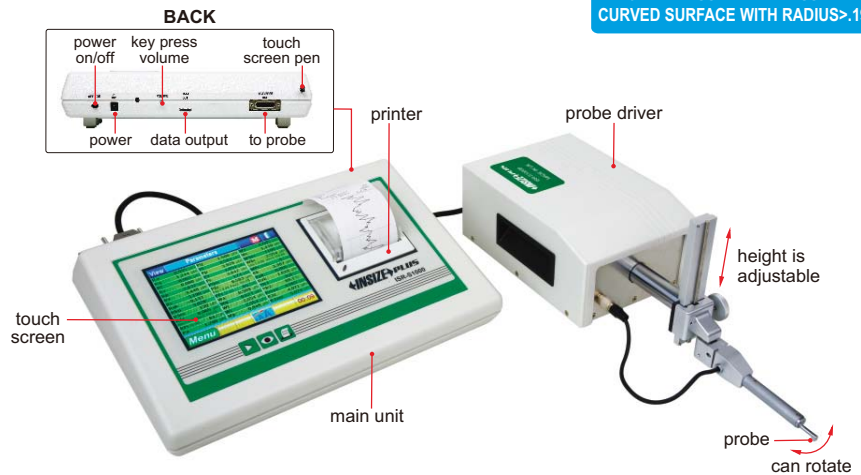


DATA  
OUTPUT

THE PROBE CAN BE WITH  
SKID OR WITHOUT SKID

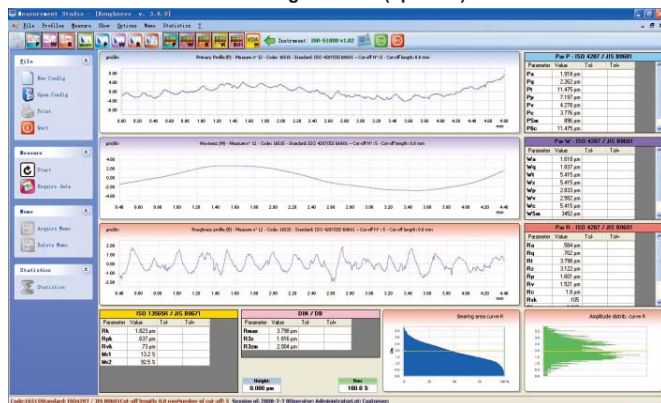
CUSTOM-MADE PROBES  
ARE AVAILABLE

CAN MEASURE WAVINESS AND  
CURVED SURFACE WITH RADIUS > .197"



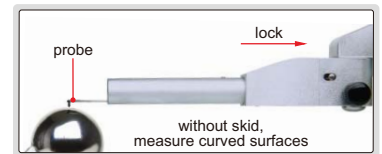
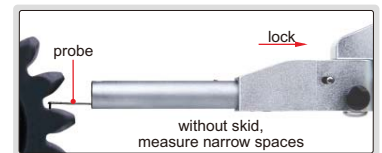
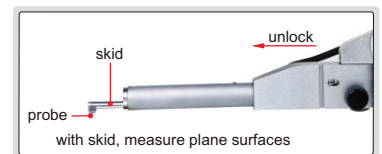
- 48 roughness parameters according to ISO-4287, JIS-B0601, ISO-12085, JIS-B0631
- Automatic probe leveling
- Measuring range up to 39370µm, can measure grit and shot blasting
- Traverse length up to 1.97"
- The probe can rotate from -90° to +90°
- Color touch screen, display roughness values, profile 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

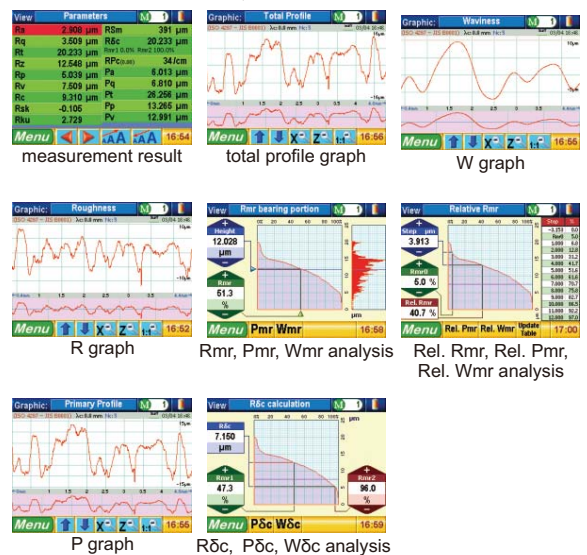
test stand (optional)



## SPECIFICATION

Parameters	Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, Rδc, R <sub>Pc</sub> , 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	39370µm	
Accuracy	±3%	
Resolution (Ra)	.01µm	
Probe	type	inductive
	stylus radius/angle	196µm/90°
	stylus material	diamond
Measuring force	0.003ozf	
Measuring unit	µm/µm	
Cut off	.003/.01/.03/.1/.3"	
Number of cut-offs	1-19 (cut off .003/.01/.03/.1")	
	1-5 (cut off .3")	
Traverse speed	.02"/s or .04"/s	
Memory	1000 measurement results	
Output	USB	
Power	built-in rechargeable battery	
Dimension (LxWxH)	12.60x8.27x3.15"	
Weight	4.85lb	

## ROUGHNESS VALUE, PROFILE AND DATA ANALYSIS



To be continued

Continued from previous page

**SURFACE ROUGHNESS TESTER  
PART NO. ISR-S1000B**

**STANDARD DELIVERY**

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

**OPTIONAL ACCESSORY**

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

**SPECIFICATION OF PROBES**

<p align="center"><b>standard probe (included, skid is removable), part no. ISR-SB10B</b></p> <p>with skid, measure plane surfaces, holes and cylinders with diameter &gt;.394" DIA</p> <p>without skid, to measure holes with diameter &gt;.157" DIA, can measure curved surfaces, narrow spaces and waviness</p>		
<p><b>small hole probe (optional), part no. ISR-SB60B</b></p> <p>without skid, measure holes with diameter &gt;.079" DIA and depth &lt;1.181", can measure curved surfaces, narrow spaces and waviness</p>	<p><b>internal angle probe (optional), part no. ISR-SB70B</b></p> <p>without skid, measure internal angles, can measure curved surfaces, narrow spaces and waviness</p>	<p><b>knife edge probe (optional), part no. ISR-SB130B</b></p> <p>without skid, measure knife edges and small rods</p>
<p><b>deep groove probe (optional), part no. ISR-SB150B</b></p> <p>without skid, measure curved surfaces and grooves with depth &lt;.512", can measure curved surfaces, narrow spaces and waviness</p>		<p><b>deep groove probe (optional), part no. ISR-SB120B</b></p> <p>measure grooves with depth &lt;.787"</p>
<p><b>hole probe (optional), part no. ISR-SB30B</b></p> <p>measure plane surfaces and holes with diameter &gt;.157" DIA and depth &lt;.787"</p>	<p><b>small rod probe (optional), part no. ISR-SB40B</b></p> <p>measure small rods with diameter .039-.197" DIA</p>	<p><b>transverse probe (optional), part no. ISR-SB50B</b></p> <p>transverse measurement for plane surfaces, cylinders and grooves</p>
<p><b>deep hole probe (optional), part no. ISR-SB80B</b></p> <p>measure holes with diameter &gt;.177" DIA and depth &lt;1.378"</p>	<p><b>cylinder/hole probe (optional), part no. ISR-SB110B</b></p> <p>measure cylinders and holes with radius &gt;.197" R</p>	<p><b>groove probe (optional), part no. ISR-SB20B</b></p> <p>measure plane surfaces and grooves</p>