

Surface Roughness Tester "SURFTEST 10" High accuracy Inductive Transducer, cross-section LCD display, man-machine conversation, intuitive interface, easy operation. Can store the latest 7 groups measurements.



Product Description

Widely used in production site to measure surface roughness of various machine-processed parts calculate Corresponding and clearly display the measuring parameter.

Product Features

- Parameter measurement: Ra, Rz, with Extended Cable Probe.
- Use DSP chip control and Data processing, high speed, low power consumption LCD digital backlit display.
- Can be measured in several parts of the surface roughness Planar, Curve surface, small hole, slot of the Irregular surface.
- Can communicate with PC computer for statistics and printing by the optional cable and software RS 232C
- Design of electromechanical integration, small volume, light weight, convenient with measuring value storage.
- Built in Re-chargeable battery. Auto power off
- Optional Adaptor Sleeve, Deep Groove Sensor, USB, RS 232 for PC Connection.

Technical Specification

Standard	ISO 4287 International Standard, DIN 4768 German Standard JISB 601 Japanese Standard, ANSI B46.1 American Standard	
Measuring Range	Ra	0.05-10.00μm / 1.000~400.0μinch
	Rz	0.1-50.0μm / 4.000~2000μinch
Accuracy	Not more then $\leq \pm 15\%$	
Resolution	0.001μm Reading $< 10\mu\text{m}$ 0.01μm $\leq 10\mu\text{m}$ if reading $< 100\mu\text{m}$ 0.1μm if reading $\leq 100\mu\text{m}$	
Fluctuation of Display value	Not more than $\leq 10\%$	
Profile Digital Filter	Filter contour	RC, PC-RC, GAUSS
	Non- filter contour	D-P
SENSOR	Test Principle	Induction Type
	Radius of Probe PIN	10μm Default
	Material of probe PIN	Diamond
	Measurement force of Probe	16mN(1.6gF) for 10μm & 0.75mN (0.075gf) for 2μm
	Probe Angle	90°
	Vertical Radius of Guiding Head	48mm
	Maximum Driving Stroke	12.5mm / 0.5 inch
	Cut off Length(λ)	0.25mm / 0.8mm / 2.5mm
Driving Speed	When Measuring	Vt = 0.135mm/s If sampling Length = 0.25mm Vt = 0.5mm/s If sampling length = 0.8mm Vt = 1mm/s If sampling length = 2.5mm
	Return	Vt = 1mm/s
Probe Measuring range	+ 80μm	
Evaluation Length	1 ~ 2 Selectable	
Metric / Imperial	Conversion	
Power	Li-ion Re-chargeable battery	
Working Environment	Temperature	0~50°
	Humidity	<85%
Standard Accessories	Standard Sensor, Extended Cable Probe, Standard Sample Plate, power Adaptor, Adjustable Leg, Manual	
Optional Accessories	USB + Software for PC Connectivity, Adaptor Sleeve (Extension Rod), Deep groove Sensor.	