

SRT - 3200

Surface Roughness Tester



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Analytical Technologies Limited

An ISO 9001 Certified Company

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►► APPLICATIONS

Widely used in production site to measure surface roughness of various machinery-processed parts, calculate corresponding parameters according to selected measuring conditions and clearly display all measurement parameters.

►► PRINCIPLE

When measuring the roughness of a surface, the sensor is placed on the surface and then uniformly slides along the surface by driving the mechanism inside the tester. The sensor gets the surface roughness by the sharp built-in probe. This roughness causes displacement of the probe which results in change of inductive amount of induction coils so as to generate analogue signal, which is in proportion to the surface roughness at output end of phase-sensitive rectifier.

The exclusive DSP processes and calculates and then outputs the measurement results on LCD.

►► FEATURES

- Be compatible with standards of ISO, DIN, ANSI and JIS.
- Small in size, light in weight and easy to use.
- Highly sophisticated inductance sensor.
- SRT 3200 can measure parameters of: Ra, Rz, Rq, Rt. With Four wave filtering methods : RC, PC-RC, GAUSS and D-P. Can memorize 7 groups of measurement results and measuring conditions for later use or download to PC.
- SRT 3200 can measure parameters of: Ra, Rz.
- Built-in lithium ion rechargeable battery and control circuit with high capacity.
- Manual or automatic power off. Metric /Imperial.
- Use RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.



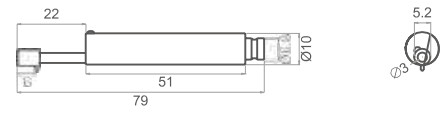
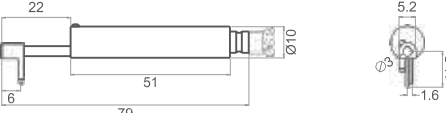
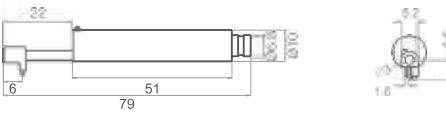
►► SPECIFICATIONS

Model		SRT-3210	SRT-3200	
Standards		GB/T6062, ISO4287, DIN4768, JIS B, ANSI46.1		
Parameters		Ra, Rq, Rz, Rt		Ra, Rz
Measuring Range		Ra, Rq: 0.005~16.00μm / 0.020~629.9μinch Rz, Rt: 0.020~160.0μm / 0.078~6299μinch		Ra: 0.05~10.00μm / 1.000~400.0μinch Rz: 0.020~100.0μm / 0.780~4000μinch
Accuracy		≤±10%		
Fluctuation of Display Value		≤6%		
Resolution		0.001 / 0.01 / 0.1		
Sensor	Radius of Probe Pin		5μm	10μm
	Material of Probe Pin		Diamond	
	Measurement Force of Probe		4mN (0.4gf)	16mN (1.6gf)
	Probe Angle		90°	
	Vertical Radius of Guiding Head		48mm	
	Maximum Driving Stroke		17.5mm / 0.7inch	
	Cutoff length (l)		0.25mm, 0.8mm, 2.5mm	
Driving Speed		When Length = 0.25 mm, Vt = 0.135 mm/s		
	Sampling	When Length = 0.8 mm, Vt = 0.5 mm/s		
		When Length = 2.5 mm, Vt = 1 mm/s		
	Returning	Vt = 1mm/s		
Profile Digital Filter		RC, PC-RC, GAUSS, D-P		
Evaluation Length		1~5 L Optional		
Data Memorize		7 Groups	——	
Operating Conditions		Temp.: 0~50℃	Humidity:<80%RH	
Power Supply		Built-in Rechargeable Li-ion Battery		
Dimensions		140x52x48 mm		
Weight		420g		

Standard Accessories	Remarks
Main Unit	√
Standard Sensor SRP-100	√
Standard Sample Plate SSP-100	√
Small Screwdriver	√
Power Adapter	√
Carrying Case	B09
Operation Manual	√

Optional Accessories	Remarks
Extension Rod SER-150	√
Groove Stylus SRP-110	√
Curvature Probe SRP-120	√
Measurement Stand SRS-1	√
RS-232C Cable with Software	√
Bluetooth Adapter with Software	√

►► PROBES

Model & Name	Applications	Structure Diagram
Standard Sensor	Used for roughness tests on plane surface, shafts and in bores from 5.5 mm diameter. Maximum bore depth 22mm	 <p>Technical drawing of the Standard Sensor probe. The side view shows a cylindrical body with a diameter of 22 mm at the tip, a total length of 79 mm, and a main body diameter of 51 mm. The end view shows a spherical tip with a diameter of 5.2 mm and a mounting hole with a diameter of 10 mm.</p>
Groove Stylus	used to measure the surface roughness of deep groove, greater than 5 mm in width, less than 9.5 mm in depth; or the pedestalseat less than 9.5 mm in height.	 <p>Technical drawing of the Groove Stylus probe. The side view shows a cylindrical body with a diameter of 22 mm at the tip, a total length of 79 mm, and a main body diameter of 51 mm. The end view shows a stylus tip with a diameter of 5.2 mm, a mounting hole with a diameter of 10 mm, and a base diameter of 11.5 mm.</p>
Curvature Probe	used to measure surface roughness of curved workpiece larger than 3 mm in curvature radius	 <p>Technical drawing of the Curvature Probe. The side view shows a cylindrical body with a diameter of 22 mm at the tip, a total length of 79 mm, and a main body diameter of 51 mm. The end view shows a stylus tip with a diameter of 5.2 mm, a mounting hole with a diameter of 10 mm, and a base diameter of 11.5 mm.</p>

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