

Surface Roughness Tester (Separate Type)



Model: SRT-6210S SRT-6200S

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.
- * With Four wave filtering methods : RC, PC-RC, GAUSS and D-P.
- * Can measure parameters of: Ra, Rz, Rq, Rt.
- * Can memorize 7 groups of measurement results and measuring conditions for later use or download to PC.
- * Manual or automatic power off.
- * Metric /Imperial Conversion.
- * Use RS-232 data output to connect with PC.
- * Provide Bluetooth data output choice.



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Specifications

Model	SRT-6210S	SRT-6200S	
Standards	GB/T6062, ISO4287, DIN4768, JIS B, ANSI46.1		
Parameters	Ra, Rq, Rz, Rt		
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	Sampling	When Length = 0.25 mm, Vt = 0.135 mm/s	
		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°C	Humidity: <80%RH	
Power Supply	4x1.5V AAA (UM-4) Battery		
Main Unit Size: 149x67x29 mm	Measuring Base Size: 185x56x47 mm		
Weight	485g		

Standard Accessories	Remarks
Main Unit	✓
Standard Sensor SRP-100	✓
Standard Sample Plate SSP-100	✓
Small Screwdriver	✓
Measuring Base	✓
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
SRP-100 Standard Sensor	Used for roughness tests on plane surface, shafts and in bores from 5.5 mm diameter. Maximum bore depth 22mm	
SRP-110 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 pedestal seat less than 9.5 mm in height.	
SRP-120 Curvature Probe	used to measure surface roughness of curved workpiece larger than 3 mm in curvature radius	

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