

DIGITAL SURFACE ROUGHNESS TESTER

PG-SRT-320



FEATURES:-

- SHOWS THE PRESSURE OF THE STYLUS
- SHOWS THE CONVERSIONS OF ALL PARAMETERS
- HIGH REPEATABILITY AND ACCURACY

APPLICATION:-

- AEROSPACE
- AUTOMOBILE
- ATOMIC CENTER
- DEFENCE INDUSTRIES
- AIRFORCE
- HEAVY INDUSTRIES



Precision

Precision Measuring Instruments Co.

Basic Parameters

Detection principle	inductive	Maximum drive travel	$\leq 17.5 \text{ mm}$
Measuring range	$320 \mu\text{m}$	Measuring range	$R_a, R_q: 0.005 \mu\text{m} \sim 32 \mu\text{m};$ $R_z, R_y, R_t, R_p, R_m: 0.02 \mu\text{m} \sim 320 \mu\text{m};$ $R_{sm}, R_s: 1 \text{ mm};$ $R_{mr}: 0 \sim 100\%;$
Needle tip radius	$5 \mu\text{m}$	Least Count	$0.001 \mu\text{m}$
Needle tip material	diamond	Value error	$\leq \pm 8\%$
Measured force	$\leq 4 \text{ mN}$	Value Variability	$\leq 5\%$
Needle stylus angle	90°	Power supply	Built-in lithium-ion rechargeable battery/ external power adapter
Leader longitudinal radius	45 mm	Data output	Bluetooth/USB
Parameter measurement	$R_a, R_q, R_z, R_t, R_p, R_v, R_S, R_{Sm}, R_{sk}, R_{ku}, R_{Pc}, R_y, R_{max}, R_{3z}, R_k, R_{pk}, R_{vk}, Mr1, Mr2.$		
Sample length	$0.25 \text{ mm}, 0.80 \text{ mm}, 2.50 \text{ mm}$		
Evaluation length	$1L \sim 5L$ optional (L is the sample length)		
Overall size	$156 \text{ mm} \times 55 \text{ mm} \times 46.5 \text{ mm}$		
Instrument weight	$\cong 398 \text{ g}$		
Work environment	Temperature: $-20^\circ\text{C} \sim 40^\circ\text{C}$; Relative humidity: $< 90\%$, no vibration, no corrosive medium around		
Optional accessories	Curved surface sensors, small hole sensors, groove sensors, deep groove sensors, extension rods, Bluetooth printers, measuring platforms		