

Surface Roughness Tester TIME3220



Touch screen operation

Conform to roughness standards: ISO1997, ANSI, DIN and JIS2001

High accuracy and very wide measuring range

Parameters and high definition profile display

Optional software is available

Optional mini printer is available

Specifications:

Sensor	Inductance type
Measurement range	Ry 400 μm
Roughness parameters	Ra, Rp, Rv, Rt, Rz, Rq, Rsk, Rku, Rc, RPc, RSm, Rmr(c), tp, Rmr, Rpm, Rz1max, RzJIS, Rmax, Htp, R δ c, R Δ q, R δ a, Pa, Pp, Pv, Pt, Pz, Pq, Psk, Pku, Pc, PSm, Pmr(c), Pmr, Pz1max, PzJIS, P δ c, P Δ q, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2
Stylus tip radius	5 μm
Stylus tip material	Diamond
Measuring force	4 mN
Stylus tip angle	90°
Radius of skid curvature	45 mm
Maximum drive range	19 mm/0.748"
Cut-off length	0.08 mm, 0.25 mm, 0.8 mm, 2.5 mm selectable

Evaluation length	1-5
Measuring speed	Vt=0.25 mm/s when cut off length = 0.08 mm Vt=0.25 mm/s when cut off length = 0.25 mm Vt=0.5 mm/s when cut off length = 0.8 mm Vt=1 mm/s when cut off length=2.5 mm
Accuracy	Less than or equal to $\pm 10\%$
Repeatability	$\leq 6\%$
Resolution	0.001 μm /0.008 μm when select Automatic measuring range
	0.001 μm when select measuring rang $\pm 50 \mu\text{m}$
	0.008 μm when select measuring rang $\pm 200 \mu\text{m}$
Power supply	Rechargeable Li battery
Power adapter	Input: 100 V-240 VAC, 50/60 Hz Output: 9 V, 3 A
Working environment	Temperature: 0 °C-40 °C, humidity: <90% RH
Dimensions	155.4x75x56 mm
Weight	760 g

Standard accessories:

Main unit
Standard pickup (stylus)
Roughness plate (patch)
Power adapter
Communication cable
Protection sleeve
Manual
NIST calibration certificate
Carrying case

Optional accessories:

NIST calibration certificate for test plate
Software & communication cable
Mini printer
Customized stylus (radius 2 μm / angle 60° force 0.75mN)



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