

Surface Roughness Tester TIME3202 (TR220)



- Meet roughness standards: ISO/DIN/JIS/ANSI
- High accuracy
- Profile display
- Special stylus for tiny holes, grooves and more
- Software for real time downloading via RS232 or USB port

Specifications:

Roughness parameters:	Ra, Rz, Rq (RMS), Rt, Rp, Rv, Rz(JIS), R3z, Rmax, RSk, R _{Pc} , Rk, Rpk, Rvk, Mr1, Mr2
Measures holes:	radius ≥ 1.5 mm, Depth ≤ 9 mm, radius = 1.5 mm (TS120)
Roughness standards:	ISO/DIN/JIS/ANSI
Grooves and recessions:	wider than 0.16" (4 mm)
Measures curved surfaces:	radius > 25 mm (TS110), Radius > 45 mm (TS100)
Measuring accuracy:	$\leq \pm 4\%$
Display resolution:	0.01 μ inch / 0.001 μ m
Measuring range:	Ra 0.025-12.5 μ m
Pick up measuring range:	$\pm 80\%$
Maximum drive range:	0.7" (17.5 mm)
Cut-off length:	0.009/0.03/0.09 inch (0.25/0.8/2.5 mm)
Sensor:	inductance type
Sensor-stylus:	diamond, radius 5 μ m
Filter:	RC, PC-RC, GAUSS, D-P
Data output:	RS-232
Optional micro printer is available	

Operating temperature: 32 °F-104 °F (0 °C-40 °C)
Weight: 0.97 lb (440 g)
Dimensions: 5.6"×2.2"×1.9" (141×56×48 mm)
Power: Li-Ion rechargeable battery

Display range: Ra, Rq: 0.025-12.5 μm (0.98-492.1 μinch)
Rz, Ry, Rt, Rp, Rz (JIS), R3z, Rmax: 0.020-160 μm
RSm, RS: 1 mm
Rmr: 1-100% (%Rt)
RSk: 0-100%

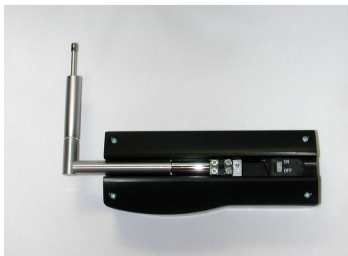
Tracing speeds: speed 1 mm/s (sampling length 2.5 mm)
speed 0.5 mm/s (sampling length 0.8 mm)
speed 0.135 mm/s (sampling length 0.25 mm)

Standard accessories:

Main unit
TS100 standard pickup
Roughness plate (standard)
Charger
Protection nose
Steel support
Screwdriver
Software, USB key, & comm. cable
Instruction manual
NIST calibration certificate
Carrying case

Optional accessories:

NIST calibration certificate for test plate
Mini printer TA230
Straight extension rod for stylus
90° extension rod for stylus
TS110 pickup for curved surface
TS120 pickup for small holes
TS130 pickup for deep grooves
TS140 right-angled pickup
Measuring platform ETA620
Steel adapter (Φ8)
Steel adapter (L-attachment) for platform



90° extension rod for stylus

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