

TIME® TR3220 Portable Roughness Tester



The New TIME® TR3220 is an advanced stylus surface roughness measuring instrument with an integrated drive unit. It supports 45 kinds of roughness parameter measurements with high accuracy and a wide testing range to 400µm.

Features

- Integrated design, easy and convenient to use
- V-shaped bottom can be used on flat or curved surfaces
- Touch screen with TFT LCD - showing all important data and graphs
- High accuracy inductive sensor probe
- Filtering methods of 2RC, GAUSS
- Compatible with standards ISO1997, ANSI and JIS2001
- RS232 interface and USB interface meeting more needs
- Auto switch off

Technical Specifications

Test principle	Inductance type
Measurement range	400µm
Measurement parameters	Ra, Rp, Rv, Rt, Rz, Rq, Rsk, Rku, Rc, R _{Pc} , R _{Sm} , R _{mr} (c), tp, R _{mr} , R _{pm} , R _{z1max} , R _{zJIS} , R _{max} , H _{tp} , R _{dc} , R _{Δq} , R _{Δa} , Pa, Pp Pv, Pt, Pz Pq, Psk, Pku P _c , P _{Sm} , P _{mr} (c), P _{mr} , P _{z1max} , P _{zJIS} P _{dc} , P _{Δq} Rk, Rpk, Rvk, Mr1, Mr2, A1, A2
Stylus tip radius	5µm /2µm
Stylus tip material	Diamond
Measuring force	4mN / 0.75 mN
Stylus tip angle	90° / 60°
Radius of skid curvature	45mm
Maximum drive range	19mm/0.748inch
Traversing speed	Measuring: Cut off length = 0.08 mm Vt=0.25 mm/s Cut off length = 0.25 mm Vt=0.25mm/s Cut off length = 0.8 mm Vt=0.5 mm/s Cut off length = 2.5mm Vt=1mm/s Returning V=1mm/s
Accuracy	Less than or equal to ±10%
Repeatability	≤6%
Cut-off length	0.08mm, 0.25mm, 0.8mm, 2.5mm - Selectable
Evaluation length	(1~5) L Selectable
Measuring range and resolution	Measuring Range Resolution Automatic 0.001µm,0.008µm ±50µm 0.001µm ±200µm 0.008µm

Power Built-in Li battery	Li battery
Power adapter	Input: 100 V~240VAC, 50/60Hz Output: 9V,3A
Working environment	Temperature: 0°C – 40°C Humidity: < 90% RH
Dimensions (mm)	155.4mm x 75mm x 53mm
Weight (g)	580g

Packing List

TIME® TR3220 Portable Roughness Tester

Standard Pickup

Standard Sample

Power Adapter

Communication Cable

Protection Cleeve

TIME Calibration Certificate

Warranty Card

Instruction Manual

