

Surface Roughness Tester TR220



- Applicable in production site, library and factory
- Surface roughness testing of lots of mechanical parts
- Conform to ISO standard, compatible with DIN, ANSI and JIS standard
- Multi-data testing and LCD display
- English operation menu
- Pickup position Indicator
- Storage and check of testing data
- Time display, clock settable
- Function of self-check available
- Rk graph display
- DSP(Digital Signal Processor)used for data processing

Technical specifications

Measurement parameter	Ra, Rz, Rq, Rt, Rp, Rv, Rz(JIS), R3z, Rmax, RSk, RPC, Rk, Rpk, Rvk, Mr1, Mr2
Measuring range	Ra: 0.025 μ m-12.5 μ m
Display range	Ra, Rq: 0.025 μ m-12.5 μ m, Rz, Ry, Rt, Rp, Rz(JIS), R3z, Rmax: 0.02 μ m-160 μ m. RSm, RS: 1mm Rmr: 1-100%(Rt), RSk:0-100%
Pickup Measuring range	$\pm 80 \mu$ m
Resolution	0.01 μ m
Filter	RC, PC-RC, GAUSS, D-P
Cutoff length	0.25mm, 0.8mm, 2.5mm, Auto
Evaluation length	1L-5L(selectable)
Measuring length	3L-7L(selectable)
Max. driving length	17.5mm/0.71 inch
Min. driving length	1.3mm/0.025 inch
Accuracy	$\leq \pm 10\%$
Repeatability	< 6%
Angle of stylus tip	90°
Radius of stylus point	5 μ m
Data communication interface	RS232
Power supply	High-quality LI-ion battery 6V/800mA
Working Temperature	0-40°C
Relative humidity	<90%
Dimensions	140mm × 56mm × 48mm
Weight	440 g

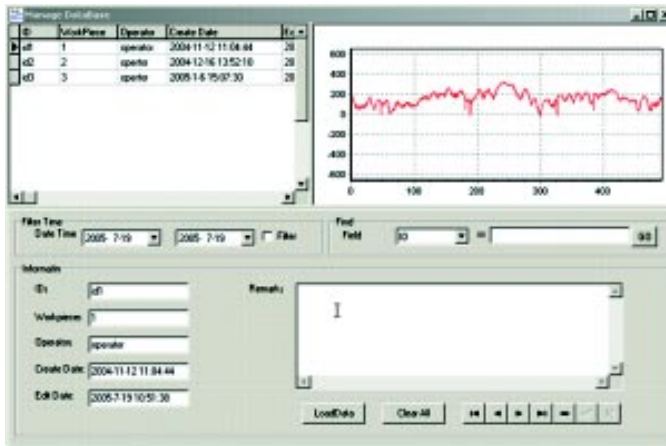
Standard delivery

- Main unit 1
- Standard pickup TS100 1
- Specimen Ra 1
- Charger 1
- Protection nose 1
- Steel supporter 1
- Screwdriver 1
- Instruction manual 1
- TIME certificate 1
- Warranty card 1
- Carrying case 1

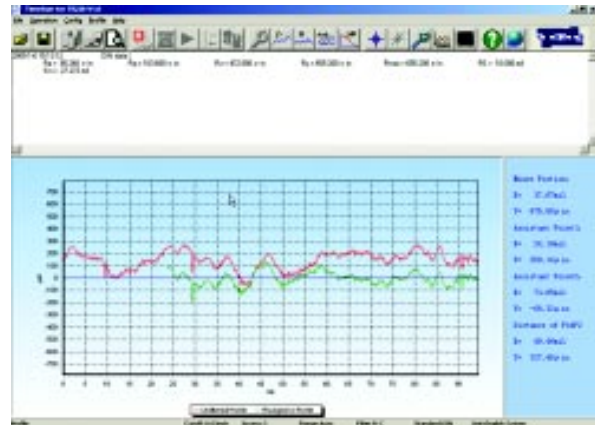
Optional accessories

- TS110 Curve Pickup
- TS120 Small bore Pickup
- TS130 TS131 Groove Pickup
- Measuring platform TA610, TA620
- Inching platform TA630 TA631
- Extension rod
- Side connecting rod
- Magnetic stand
- Printer TA220S
- PC software (TIMESurf for TR220)
- Communication cable
- Steel adapter for universal stand
- Steel adapter for platform

Surface Roughness Tester TR220



- Manage database such as save, loading, edit, query data etc
- Make detail analysis of your data
- Print all parameters profile report as displayed on the screen
- Show the position change of pickup on the chart
- Consist of unfiltered, Roughness profile and Material Ratio
- Edit the measuring condition



Technical specifications

Model Parameters	TR200	TR210	TR220
Measurement parameter	Ra, Rz, Rq, Rt, Rp, Rv, Ry, R3z, Rmax, RSK, RS, RSm, Rmr	Ra, Rz, Rq, Rt	Ra, Rz, Rq, Rt, Rp, Rv, Rz(JIS), R3z, Rmax, RSK, RPK, Rvk, Mr1, Mr2
Display range	Ra, Rq: 0.005 μ m-16 μ m, Rz, Ry, Rt, Rp, Rv, Rz(JIS), R3z, Rmax: 0.02 μ m-160 μ m RSm, RS: 1mm Rmr: 1-100%(%Rt) RSk: 0-100%	Ra, Rq: 0.005 μ m-16 μ m Rz, RT: 0.02 μ m-160 μ m	Ra, Rq: 0.005 μ m-16 μ m, Rz, Ry, Rt, Rp, Rv, Rz(JIS), R3z, Rmax: 0.02 μ m-160 μ m RSm, RS: 1mm Rmr: 1-100%(%Rt) RSk: 0-100%
Cutoff length	0.25mm, 0.8mm, 2.5mm, Auto	0.25mm, 0.8mm, 2.5mm	0.25mm, 0.8mm, 2.5mm, Auto
Evaluation length	1L-5L(selectable)	5L	1L-5L(selectable)
Measuring length	3L-7L(selectable)	7L	3L-7L(selectable)
Software	Yes	No	Yes