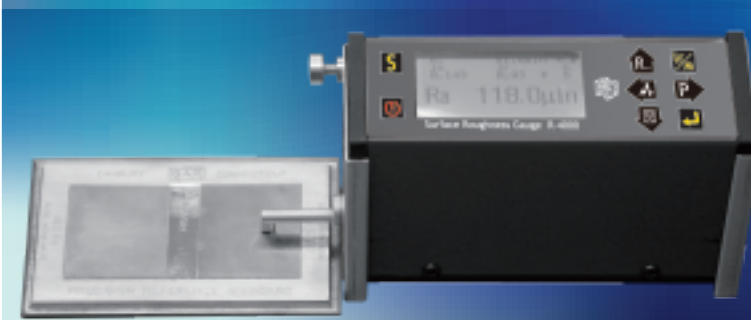


Surface Roughness Tester Profilometer **R-4000**

Technical Specifications:

- Measures flat, Inside, Outside Diameters and sloping surfaces
- Measures grooves and recessions: wider than 0.16in (4mm)
- Surface Roughness parameters: Ra, Rz, Ry, Rq, Rt, Rp, Rs, Rv, Rsm, Rmax, Rm, Rz, Rz0, Rz100, Rpc, Rmr.
- Surface Roughness standards: ISO/DIN/JIS/ANSI
- Display resolutions: 0.01µm/±20 µm 0.02µm/±40 µm
0.04µm/±80 µm

Measuring accuracy: $\leq \pm 10\%$
 Repeatability: Less than or equal to 6%
 Measuring range:
 Ra, Rq: 0.01-40µm
 Rz, Ry, Rp, Rt, Rz0, Rm: 0.02-160µm
 Rsm, S: 2-4000µm
 Rz, Rz0, Rz100, Rpc, Rmr.
 Maximum drive range: 0.7in(17.5mm)
 Cut-off length: 0.009/0.03/0.09inch (0.25/0.8/2.5mm)
 Tracing speeds:
 speed 1mm/s (sampling length 2.5mm)
 speed 0.5mm/s (sampling length 0.8mm),
 speed 0.135mm/s (sampling length 0.25mm)
 Sensor: Inductance type
 Sensor-stylus: Diamond, radius 5µm
 Pick up Force: <4mN
 Filter: RC, PC-RC, GAUSSIAN, D-P
 Data output: Yes
 Operating temperature: 41°F-104°F (5°-40°C)
 Weight: 0.97lb(440g)
 Dimensions: (119 x 47 x 65mm)
 Power: Li-Ion rechargeable battery
 Auto shut-off



R-4000

The surface roughness tester profilometer is distinguished by a high level of accuracy, multiple parameters and simplicity of operation. Extremely sensitive and highly accurate readings from this surface roughness tester profilometer is offered via 15 popular surface roughness scales including Ra, Rq(Rms), Rt, Rz and Rmax.

The diamond stylus is hypersensitive and sophisticated enough to allow for a .001 (um) micron display resolution. The R-4000 surface roughness tester profilometer can utilize an easy interface to allow for changes of in/mm (uin/um), cutoff length, sampling length, parameters, level of test(stylus position), digital filters and more! Measurement results are displayed as large characters on the LCD screen for easy recognition.

- 15 Different roughness parameters
- Inside/Outside Diameters
- Stylus position indicator
- Output to optional printer/PC
- Extended memory functions

Optional accessories available for the R-4000 surface roughness testers profilometers include:

- Stylus Extension Rod
- Support Stand
- Deep Slot Stylus
- Small Bore Stylus
- Curved Surface Stylus

R-4000 comes supplied with:

- Base Instrument with 5µm Stylus
- Leveling Plates
- Calibrated Reference Standard
- A/C Adapter
- Rugged Carry case
- Operation Manual
- Certificate of Calibration

