



# SRG-4500

## Surface Roughness Gauge



Optional 90 Degree Adapter



Optional printer

- 15 Different roughness parameters
- Inside/Outside Diameters
- Stylus position indicator
- RS 232 output to optional printer/PC
- Extended memory functions

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## Technical Specifications:

- Measures flat, Inside, Outside Diameters and sloping surfaces
- Measures grooves and recessions: wider than 0.16in (4mm)
- Roughness parameters: Ra, Rz, Ry, Rq, Rt, Rp, Rs, Rv, Rsm, Rmax, Rm, R3z, Rsk, Rpc, Rmr.
- Roughness standards: ISO/DIN/JIS/ANSI
- Display resolutions: 0.01 $\mu$ m/ $\pm$ 20  $\mu$ m  
0.02 $\mu$ m/ $\pm$ 40  $\mu$ m  
0.04 $\mu$ m/ $\pm$ 80  $\mu$ m
- Measuring accuracy:  $\leq \pm 10\%$
- Repeatability: Less than or equal to 6%
- Measuring range:
  - Ra, Rq: 0.01-40 $\mu$ m
  - Rz,Ry,Rp,Rt,R3z, Rm: 0.02-160 $\mu$ m
  - Sm, S: 2-4000 $\mu$ m
  - Rsk: 0-100%
- 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 5 $\mu$ m
- Pick up Force: <4mN
- Filter: RC, PC-RC,GAUSSIAN,D-P
- Data output: RS-232
- Optional Micro Printer
- 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

### **SRG-4500 comes supplied with:**

- Base Instrument with 5 $\mu$ m Stylus
- Calibrated Reference Standard
- A/C Adapter
- Rugged Carry case

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