

MIDLAND METROLOGY LIMITED

PORTABLE SURFACE ROUGHNESS TESTER

CODE:iSurfa-520

- Standards: ISO, DIN, ANSI, JIS
- Multi-parameters: Ra, Rz, Rq, Rq (duplicate entry, likely a typo for another parameter such as Rp or Rsm), Rt, Rp, Rv, R3z, R3y, Rz(JIS), Rs, RsK, Rsm, Rku, uRc, Ry, Rmax, Rmr
- Large Measuring Range: 160µm
- Color Display Screen with Capacitive Touch Interface
- Rich Display Information: Displays all parameters and graphical representations
- Connectable to PC and Printer
- Printing Capability: Can print all parameters or any user-defined parameters
- 6000mAh Lithium-ion Battery

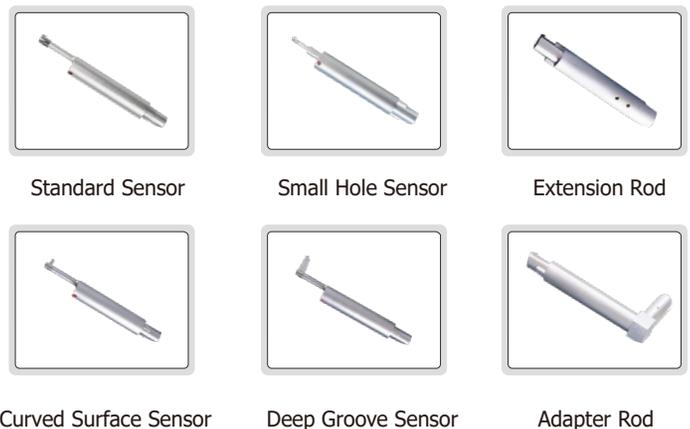
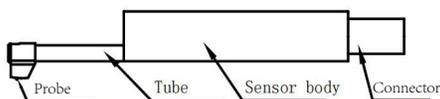
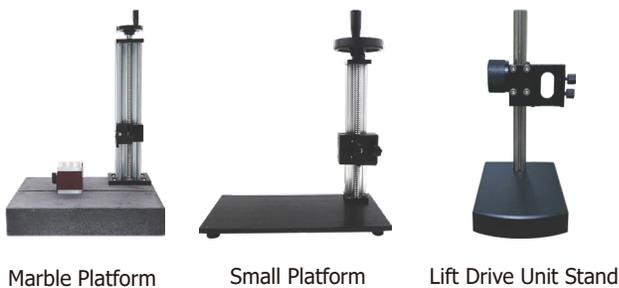
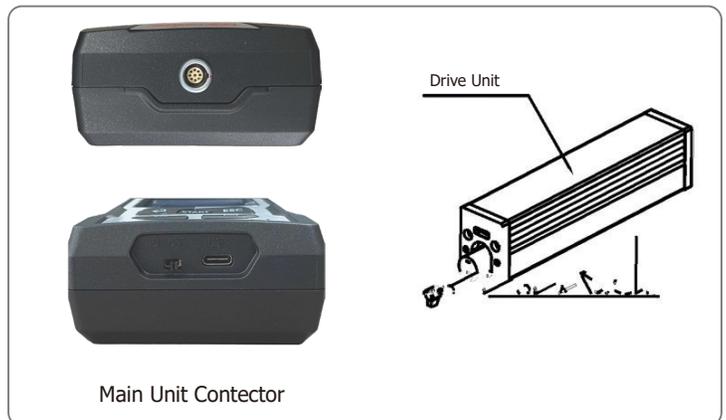


STANDARD DELIVERY

| | |
|---------------------------|------|
| Main Unit | 1 pc |
| Sensor | 1 pc |
| Calibration Block | 1 pc |
| Block Bracket | 1 pc |
| Extension Cable | 1 pc |
| Touch Pen | 1 pc |
| Charger | 1 pc |
| Usb Charging Cable | 1 pc |
| Instrument Case | 1 pc |

OPTIONAL DELIVERY

| | |
|------------------------------|---------|
| Curved Surface Sensor | SRT-CS |
| Small Hole Sensor | SRT-SH |
| Deep Groove Sensor | SRT-DGS |
| Extension Rod | SRT-ER |
| Adapter Rod | SRT-AR |
| Marble Platform | SRT-MP |
| Small Platform | SRT-SP |
| Lift Drive Unit Stand | SRT-ST |



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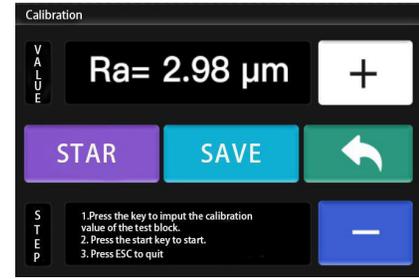
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TECHNICAL SPECIFICATION

| | | |
|---------------------------------|------------------------------|---|
| Measurement Range | | The Z Axis (Vertical):320μm;The X axis (Horizontal):17.5mm |
| Resolution Ratio | | 0.01μm/±20μm |
| The Z Axis (Vertical) | | 0.02μm/±40μm 0.04μm/±80μm |
| Item | Measurement Parameter | Ra,RzRq,Rt,Rc,Rp,Rv,R3z,R3y,Rz(JIS),Ry,Rs,Rsk,Rku,Rmax-,Rsm,Rmr,RPc,Rk,Rpk,RvkMr1,Mr2 |
| | Standard | ISO4287,ANSI B46.1,DIN4768,JISB601 |
| | Graphic | Primary Profile, Roughness Profile, Load Curves |
| Filter | | RC,PC-RC,Gauss,D-P |
| The Sampling Length(Lr) | | 0.25,0.8,2.5mm |
| Assessment Length(Ln) | | Ln= lr×n n=1~5 |
| Sensor | Principle | The Displacement Differential Inductance |
| | Stylus | Natural Diamond, 60B Cone Angle, 2μm Tip Radius |
| | Dynamometry | <4mN |
| | Skid | Ruby,Longitudinal Radius 40mm |
| | Taxiing Speed | lr=0.25, Vt=0.135mm/s lr=0.8, Vt=0.5mm/s lr=2.5, Vt=1mm/s Back, Vt=1mm/s |
| Accuracy | | 0.001um |
| Indication Error | | No More Than 10% |
| Indication Variability | | No More Than 6% |
| Power Supply | | 6000mAh Lithium Battery,Charger :DC5V |
| Size (L*W*H) | Display Unit | 161*80*40mm |
| | Drive Unit | 22*26*114mm |
| Net Weight | | About 320g |
| Working Environment | | Temperature:-20°C~40°C,Humidity:<90%RH |
| Store And Transportation | | Temperature:-40°C~60°C ,Humidity:<90%RH |

RECOMMENDED SAMPLING LENGTH TABLE

| Ra(μm) | Rz(μm) | Sampling Length λc(mm) |
|--------------|-------------|------------------------|
| >5~10 | >20~40 | 2.5 |
| >2.5~5 | >10~20 | |
| >1.25~2.5 | >6.3~10 | |
| >0.63~1.25 | >3.2~6.3 | 0.8 |
| >0.32~0.63 | >1.6~3.2 | |
| >0.25~0.32 | >1.25~1.6 | |
| >0.20~0.25 | >1.0~1.25 | 0.25 |
| >0.16~0.20 | >0.8~1.0 | |
| >0.125~0.16 | >0.63~0.8 | |
| >0.1~0.125 | >0.5~0.63 | |
| >0.08~0.1 | >0.4~0.5 | |
| >0.063~0.08 | >0.32~0.4 | |
| >0.05~0.063 | >0.25~0.32 | |
| >0.04~0.05 | >0.2~0.25 | |
| >0.032~0.04 | >0.16~0.2 | |
| >0.025~0.032 | >0.125~0.16 | |
| >0.02~0.025 | >0.1~0.125 | |



Calibration Interface



Parameter Setting



Measurement Parameter



Dataview of Software