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# Surface Roughness Tester Leeb462

~220V USB Software LCD Limit


## Functions & Features

- New design: Users-friendly system and intuitive menu navigation
- Measurement mode: general measuring and Splittype measuring (take off sensor) can be selected
- Multi-direction measurement such as lateral and upside
- DSP chip controlled achieves high accuracy and fast testing speed
- 3.5-inch LCD touch screen, digital and colour graphic display with backlight
- Touch screen & button operation are both available
- Rechargeable Li-ion battery allows you to make on-site measurements( > 50 hours continuously)
- Multi-functions: Bluetooth printing, Operation by APP, operate indications, Automatic sleep/shutdown and etc.
- Calculation results, assessed profiles, bearing and amplitude curves can be displayed
- Easy to connect with computer and printer

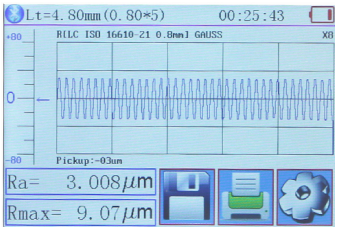
## Application

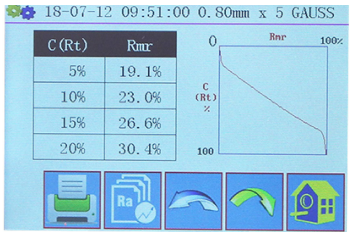
- It can measure the roughness of various machined parts, such as plane surface, bevel surface, outer cylindrical surface, curved surface, small hole, groove and car axle etc. Application for Surface roughness measurement of metal and non-metal parts and workpiece, including a variety of machining parts, machining manufacturing, testing, commodity inspection departments,it is especially suitable for on-site inspection of large workpiece and production lines and the inspection, measurement, commodity inspection and other departments of the outbound verification,no damage to the workpiece.

## Technical Parameters

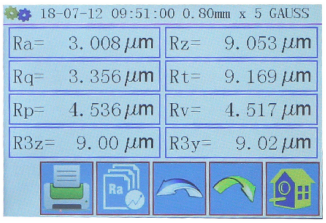
| Model | | Leeb462 |
|---|---|---|
| Measuring range | Z axis (vertical) | ±80μm/±160 μm（optional） |
| | X axis (horizontal) | 20mm |
| Resolution | Resolution | 0．01μm/±20μm; 0．02μm/±40μm;<br>0．04μm/±80μm; 0．08μm/±160μm |
| Roughness parameters | | Ra,Rz,Rq,Rt,<br>Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr;Ry;<br>Rmax，Rc，RPc，Rk，Rpk，Rvk，Mr1，Mr2 |
| Standard | | ISO,ANSI,DIN,JIS |
| Graphics | | Curves, roughness profile, direct profile |
| Filtering methods | | RC,PC-RC,Gauss,D-P |
| Sample length (lr) | | 0.25,0.8,2.5mm |
| Evaluation length（ln） | | Ln= lr×n　n=1~5 |
| Standard Sensor | Measuring principle | Displacement differential inductor (Inductive) |
| | Stylus | Stylus Diamond,90°,5μm radius of stylus |
| | Stylus force | <4mN |
| | Lead head | Cemented carbide,sliding direction radius 40mm |
| | Sliding speed | lr=0.25, Vt=0.135mm/s; lr=0.8, Vt=0. 5mm/s;<br>lr=2. 5, Vt=1mm/s; Return Vt=1mm/s |
| Indication error | | ≤ ±10% |
| Indication variability | | ≤ 6% |
| Memory | | 100 groups（ data and graphic) |
| Power supply | | 3300mAh Rechargeable Li-ion battery |
| Dimension (mm) | | Main body:64*53*160 Sensor dirver：23*27*115 |
| Weight | | About 380g (Main body) |
| Operation environment | | Temperature:- 20℃~40℃， Humidity:<90% RH |
| Storage/transportation environment | | Temperature:- 40℃~60℃， Humidity:<90% RH |

## Pictures

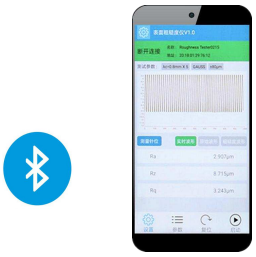





Assesse and display curves




Display in various parameter



Operation by APP

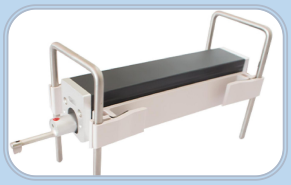
## Measuring Range

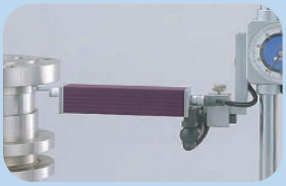
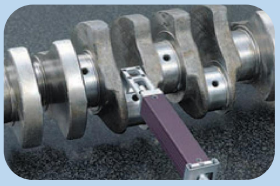
| Parameters | Display range | Parameters | Display range |
|---|---|---|---|
| Ra,Rq | 0.005μm ~ 30μm | Rz,R3z,Ry,Rt,Rp,Rm | 0.02μm ~ 320μm |
| Sk | 0 ~ 100% | S,Sm | 1mm |

## Standard Configuration

| Name | Quantity | Name | Quantity |
|---|---|---|---|
| Main unit | 1 | Sensor driver | 1 |
| Standard sensor | 1 | Cable for driver | 2 |
| Calibration block | 1 | Supporting platform | 1 |
| Height bracket | 1 | Power charger | 1 |
| Manual & Certificate | 1 | Warranty card | 1 |

## On-site Measurement & Application



• Bracket of Sensor • Multi-direction Test • Measure the roughness of various of surface