

## Surface Roughness Tester (res. 0.001 $\mu\text{m}$ )

**LEEB462**

### Product Description

The surfaces roughness tester is a small handheld instrument, for shop floor use and mobile measure, its operation is simple, function overall, measure fast, accuracy stability, take convenience. This tester applies to production site and can be used to measure surface roughness of various machinery-processed parts. This tester is capable of evaluating surface textures with a variety of parameters according to various international standards. The measurement results are displayed digital/graphically on the color graphic LCD display, and output to the printer.



### Standards

- ISO-1997
- DIN
- ANSI
- JIS2001

### Technical Specification

- Composite structure of main display unit, driver unit and sensor
- Electromechanical integration design, small size, light weight, easy to operation
- Supports Bluetooth printing and mobile APP wireless operation
- Multi parameters: Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rsm, Rku, Rc, Ry, Rmax, Rmr; R<sub>Pc</sub> R<sub>k</sub> R<sub>pk</sub> R<sub>vk</sub> Mr1 Mr2
- In addition to calculation results, the tester can display primary profiles and assessed roughness profiles and load curves
- 320 $\mu\text{m}$  Large measurement range
- The 3.5-inch color graphic LCD provides excellent readability and an intuitive display that is easy to negotiate. The LCD of 480\*320 dot matrix includes an adjustable backlight for improved visibility in dark environments. Wide angle of view
- DSP chip control and data processing, high speed, low power consumption
- Display full information, intuitive and graphical displays all parameters
- The tester Complies with the following standards: ISO-1997, DIN, ANSI, JIS2001

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- 4 Profile Filter: Gauss RC PC-RC D-P
- Built-in 3200mAh lithium-ion rechargeable battery and control circuit, high capacity, no memory effect
- The tester can graphically display the remaining battery power
- The tester can be animated to show that it is charging and filling, the operator can readily understand the level of charge
- Can work more than 50 hours while the power is enough
- Large capacity data storage, can store 100 items of raw data and measured profiles
- Real-time clock setting and display for easy data recording and storage
- With automatic sleep, automatic shutdown power-saving features
- Reliable circuit and software design of prevent the motor stuck
- Instrument can display a variety of information tips and instructions. For example Measurement result display, the menu prompts and error messages
- Metal case design for driver unit, rugged, compact, portable, high reliability
- Can connected to the computer and printer
- All parameters can be printed or print any of the parameters which set by the user
- Optional curved surface pickup sensor, holes sensor, minuteness holes sensor, measurement stand, Sheath of sensor, extension rod, printer and analysis software

### Measuring Range:

Parameter	Measuring Range
Ra Rq	0.005 $\mu\text{m}$ ~ 32 $\mu\text{m}$
Rz R3z Ry Rt Rp Rm	0.02 $\mu\text{m}$ ~ 320 $\mu\text{m}$
Sk	0 ~ 100%
S Sm	1mm
tp	0 ~ 100%

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## **Main Technical Parameters**

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### **Packing List:**

- Main Unit
- Sensor - Precision parts
- Adjustable height support feet
- Calibration test block
- Test block bracket
- Extension cable
- Touch pen
- Charger
- USB Charging Cable
- Operating manual
- Certificate
- Guarantee card
- Instrument container
- Software CD (optional)
- Magnetic stand adapter (optional)
- Height gauge adapter (optional)
- Nosepiece for flat surface (optional)
- Nosepiece for cylindrical surface (optional)
- Thermal printer (optional)
- Small hole sensor (optional)
- Extra small hole sensor (optional)
- Curved surface sensor (optional)
- Deep groove sensor (optional)
- Extension rod (50mm) (optional)
- Measurement stand (optional)

## **Disclaimer**

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