

SURFACE ROUGHNESS GAUGE

More than You've Ever Seen.

JE JOHARI ENGINEERING

The JOHARI ENGINEERING JESR 10 is the latest development in JE's SR range of Surface Roughness. It combines the 21st century operating platform with the reliable and robust hardware of JE's well-established JOHARI ENGINEERING portable Surface Roughness instruments. It incorporates a range of innovative features to ensure that this new instrument is adopted as the everyday workhorse of Surface Roughness by NDT inspectors.

Key Features of JESR 10

- The roughness of metal and non-metallic surface
- Features external calibration at keyboard
- It could test excircle, flat surface, conical surface and also test groove with length and width larger than 80*30mm.



JE

Johari Engineering

The new universal portable Surface Roughness from JE, combining ergonomic and robust design and the big display screen of its class with state-of-the-art SR performance.

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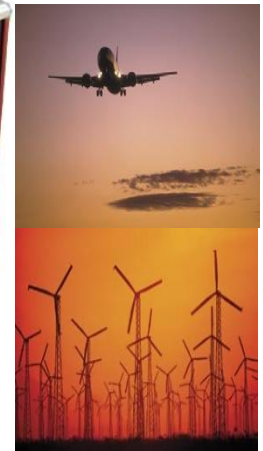
Technical Specifications of JOHARI ENGINEERING JESR 10

Technical Specifications

- Testing parameters (μm) : Ra, Rz
 - Stroke length (mm) : 6
 - Sample length (mm) : 0.25 , 0.80 , 2.50
 - Evaluation length (mm) : 1.25 , 4.0 , 5.0
 - Measuring range (μm) : Ra : 0.05 ~ 10.0 Rz : 0.1 ~ 50
 - Error : $\pm 10\%$
 - Variability : $< 12\%$
 - Transducer contacting pin round diameter and angle :
 - Contacting pin round diameter : $10 \mu\text{m} \pm 1 \mu\text{m}$
 - Battery : 3.7V Li
 - Size : 106 mm \times 70 mm \times 24 mm
 - Weight : 200g
 - Sensor needle static force and its rate of change :
 - Stylus static force : $\leq 0.016\text{N}$
 - Force measuring rate of change : $\leq 800\text{N/m}$
- Working conditions :
- Temperature : $-20^\circ\text{C} \sim 60^\circ\text{C}$
 - Relative humidity : $< 90\%$
 - No shake and coercivity around

Main Function

- Shape used to pull aluminum mold design, durable, anti-electromagnetic interference ability significantly, in line with the design of the new trend.
- Using high-speed DSP processor for data processing and calculation, measurement and computation speed is greatly improved.
- Liquid crystal display wide temperature using OLED color display, popular high brightness, no visual angle,, is suitable for various occasions.
- The lithium ion rechargeable battery, can work for a long time, no memory effect, can while charging, charging time is short, long battery life.
- Charging and communication using the common USB interface. Using a dedicated charger or computer USB port for charging, convenient and quick.
- Dot matrix liquid crystal display, interface prompt information rich.
- Real-time monitoring of lithium battery power and display, and to remind users to charge with charging progress indication.
- Automatic shutdown function and low power design of software and hardware of the instrument with long working hours, suitable for field use.



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