

SURFACE ROUGHNESS GAUGE

JE

JOHARI ENGINEERING

More than You've Ever Seen.

The JOHARI ENGINEERING JESR 200 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 200

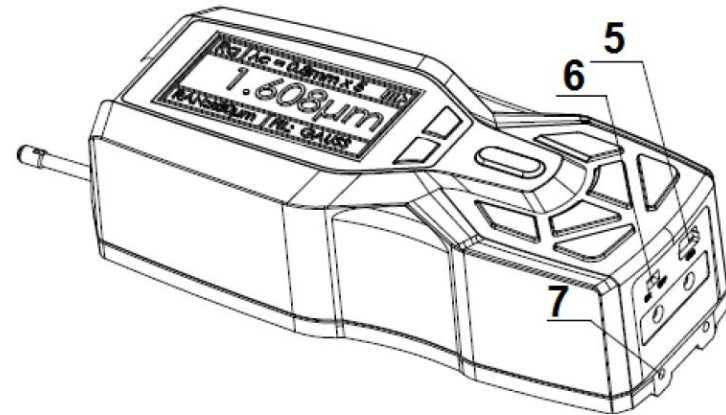
- The roughness of metal and non-metallic surface
- Features external calibration at keyboard
- It could test excircle, flat surface, conical surface and also test groove with length and width large r than 80*30mm.
- **Part Import from UK (United Kingdom)**



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Meet ISO, ANSI, DIN and JIS standards with JESR200, a portable surface roughness tester with an easy-to-read LCD display, large internal memory and convenient USB port. Software is included to allow data transfer to a PC. Ideal for taking quick and accurate measurements of surface texture roughness, the JESR200 roughness tester uses a digital signal processing (DSP) chip for high-speed data processing and control with low-power consumption.



E: info@johariengineering.in

Technical Specifications of JOHARI ENGINEERING JESR 200

Measured parameters :Ra, Rz/Ry(JIS), Rq, Rt/Rmax, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rku, Rsm, Rmr

Measuring range : Ra, Rq: 0.005 ... 16 μm ,Rz, R3z, Ry, Rt, Rp, Rm: 0.02 ... 160 μm
Sk : 0 ... 100 % , S, Sm: 1 mm , Tp: 0 ... 100 %
Resolution :0.01 μm in the range of $\pm 20 \mu\text{m}$ 0.02 μm in the range of $\pm 40 \mu\text{m}$
0.04 μm in the range of $\pm 80 \mu\text{m}$
Filter : RC, PCRC, Gauss, ISO13565
Traversing length : 17.5 mm
Sampling length/cutoff wavelength $l_r = \lambda_c$ 0.25, 0.8, 2.5 mm
Measuring length : l_n $l_n = l_r * n$ $n = 1 \dots 5$
Measuring principle : inductive
Stylus :Natural diamond, 90° cone angle, 5 μm tip radius
Force : < 4 mN
Skid :Ruby, \varnothing 40 mm
Traversing speed : $l_r = 0.25 \text{ mm}$: $V_t = 0.135 \text{ mm/s}$ $l_r = 0.8 \text{ mm}$: $V_t = 0.5 \text{ mm/s}$
 $l_r = 2.5 \text{ mm}$: $V_t = 1 \text{ mm/s}$
Return : 1 mm/s
Accuracy : $\pm 10 \%$
Repeatability : $\pm 6 \%$
Graphic chart :Material ratio curve
Standards :ISO, ANSI, DIN, JIS
Power supply :Built-in 3,7 V Li-ion battery (rechargeable)
Charger : 5 V DC, 800 mA Battery life > 20 hours
Operating conditions :Temperature: -20 ... +40 °C , Humidity: < 90 % RH
Storing conditions :Temperature: -40 ... +60 °C ,Humidity: < 90 RH
Dimensions :141 x 55 x 40 mm
Weight :400 g

Main Function

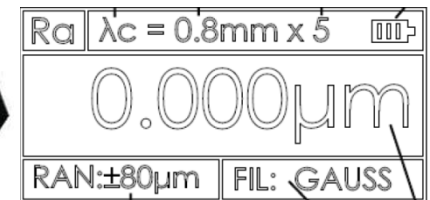
Select from 14 measured parameters
Choose from 4 different filters: RC, PC-RC, Gauss, D-P
Display measurements in μm or μinch (adjustable)
Store up to 100 data sets on the internal memory
Download data to PC for further analysis and long-term storage
Meet ISO, ANSI, DIN and JIS standards
Mount to a test stand for added stability
Enjoy more than 20 hours of battery life with the 3.7 V rechargeable Li-ion battery

detection principle : Current induction

Tip radius : 5 μm

Tip material : Diamond

The maximum driving trip : 17.5mm/0.7inch



Manufacture & Marketed By

JOHARI ENGINEERING

1213 Kailashpur Saharanpur UP 247001,India

M Sales :- +917417060180 ,info@johariengineering.in, www.johariengineering.in

