

Portable Surface Roughness Tester

This portable roughness tester is designed for on-site measurement of surface roughness. It features a digital display showing parameters such as Ra and Rmax, and uses a stylus-based sensor for accurate surface profiling.



ADDITIONAL IMAGES



Overview

High-Precision Surface Measurement

The JD520 is a versatile, portable surface roughness tester designed for high-accuracy measurements across various machining parts. It features an ergonomic, lightweight design suitable for both flat and complex surfaces like outer cylinders, cones, and grooves. With a 3.5-inch color TFT touch screen and advanced DSP chip control, this non-destructive testing instrument provides rapid, reliable data for quality control and on-site inspection.

Key Features

Measurement Parameters

- Ra
- Rz
- Rq
- Rt
- Rp
- Rv
- R3z
- R3y
- Rz(JIS)
- Rs
- Rsk
- Rsm
- Rku
- Rmr
- Ry(JIS)
- Rmax
- RPc
- Rk
- Rpk
- Rvk
- Mr1
- Mr2

International Standards

ISO, DIN, ANSI, JIS

Performance Metrics

Measurement Range

160 μ m

Vertical Range

17.5 mm

Transverse Range

Accuracy & Precision

Metric	Value
Accuracy	Less than $\pm 10\%$
Repeatability	Less than 6%

Hardware & Design

Display	3.5 inches color graphic TFT touch screen
Dimensions	Main unit: 52x55x158mm; Drive: 23x27x115mm
Weight	400 g
Battery Life	Over 50 hours

Environment

Operating Temperature	-20 to 40
Operating Humidity	< 90% RH