



پتروفرفرہان گستر جنوب

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**Portable Surface Roughness Tester JD520** is a high accuracy instrument for measuring surface roughness. It can be used on variety of machining parts and operates on various surfaces, not only flat but also outer cone, outer cylinder, curved, pinholes, grooves, recesses grooves and axle etc.

### Application

Portable Surface Roughness Tester JD520 allows surface roughness measurement both on metal and non-metal workpieces. It is suitable for machining and manufacturing, quality control, inspection departments, especially for measurement on large and heavy workpiece, assembly line on site. The JD520 is a Non Destructive Testing instrument, damage won't caused to testing piece.

### Main Feature

- \*Mechatronics and ergonomics design, small size, light weight, easy to operation
- \*The stylus drive unit can be stored within the main unit for standard measurement, or separated from the display unit by using the supplied cable which allows more flexible

measurement in any orientation. The driver can be separated and reattached in one simple step.

\*DSP chip control and data processing, high speed, low power consumption

\* 22 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

\* Measurement range up to 160µm (can be optional to 320µm)

\*3.5 inches color graphic TFT touch screen, wide viewing angle, excellent readability and an intuitive rich display, it includes a backlight to improve visibility in dark environments

\*Can be operated using buttons or touch screen

\*2.It provide Bluetooth Capability , support wireless connection with mobile and mini printer.

\*Built-in lithium

ion rechargeable battery and control circuit, high capacity, no memory effect, it works over 50 hours while fully charged, and there is remaining charge indicator, charging hint

\*Large capacity data storage, 100 item of raw data and curves can be stored

\*Real-time clock setting and display for easy data recording and storage

\*With auto sleep, auto power off, power-saving features

\*Reliable circuit and software design to preventing the motor stuck

\*Language: English

\*All parameters or any of the parameters which set by users can be printed

\*Optional accessories: Bluetooth capability, curved sensor, pinholes sensors, measurement, stand, extension rod, printer

\*Portable Surface Roughness TesterJD520 complies with international standards ISO, DIN, ANSI, JIS

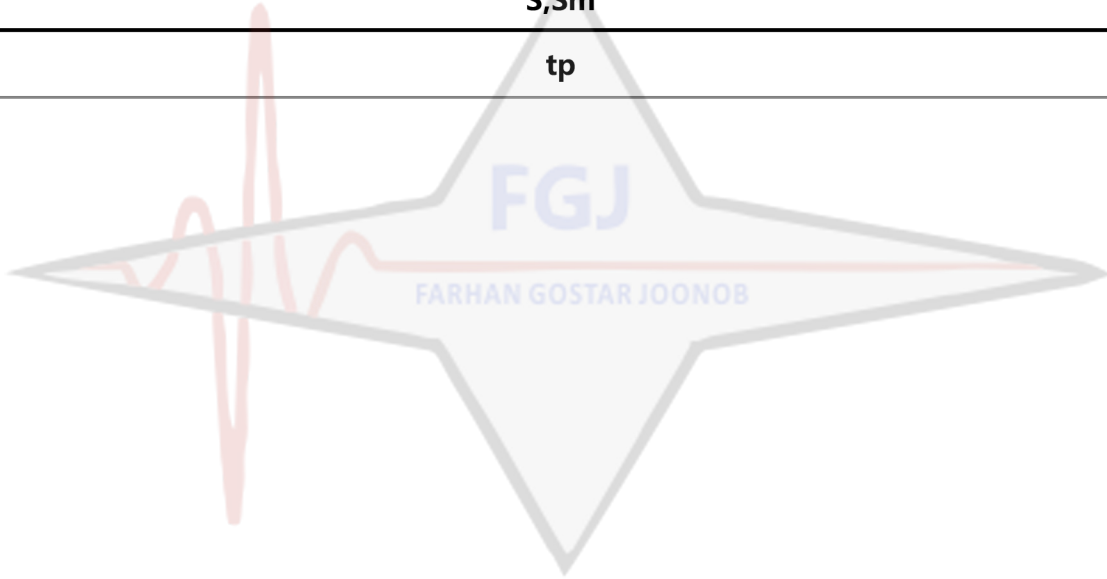
### Technical Specification

Measurement Range	The Z axis (vertical)	±80µm/±160 µm ( enhanced model )
	The X axis (Transverse)	17.5mm
Resolution	The Z axis (vertical)	0 . 01µm/±20µm
		0 . 02µm/±40µm
		0 . 04µm/±80µm
		0 . 08µm/±160µm

Measurement item	Parameter	Ra,Rz,Rq,Rt , Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr, Ry(JIS),Rmax, R <sub>Pc</sub> , Rk, Rpk, Rvk, Mr1, Mr2)
	Standard	ISO,ANSI,DIN,JIS
	Graphic	Bearing area curve, Roughness profile, Primary profile
Filter		RC,PC-RC,Gauss,D-P
The sampling length(lr)		0.25,0.8,2.5mm
Assessment length ( Ln )		<b>L<sub>n</sub> = l<sub>r</sub> × n</b> n=1~5
Sensor	Measuring method	skidded
	Stylus tip	Diamond, 90 cone angle, 5μmR
	Force	<4mN
	Skid part	hard alloy, skid radius of curvature: 40mm
	Traversing speed	l <sub>r</sub> =0.25, V <sub>t</sub> =0.135mm/s
		l <sub>r</sub> =0.8, V <sub>t</sub> =0.5mm/s
l <sub>r</sub> =2.5, V <sub>t</sub> =1mm/s		
Return V <sub>t</sub> =1mm/s		
Accuracy		Less than ±10%
Repeatability		Less than 6%
Power supply		Built-in Lithium ion battery, Charger :DC5V,3200mA
Outline dimension		Main unit: 52*55*158mm drive: 23*27*115mm
Weight ( main unit )		Around 400g
working Environment		Temperature: - 20°C ~ 40°C Humidity: < 90% RH
Store and Transportation		Temperature: - 40°C ~ 60°C Humidity: < 90% RH

Parameter	Range
<b>Ra,Rq</b>	0.005μ m ~ 30μ m

<b>Rz,R3z,Ry,Rt,Rp,Rm</b>	0.02μ m ~ 320 μm
<b>Sk</b>	0 ~ 100%
<b>S,Sm</b>	1mm
<b>tp</b>	0 ~ 100%



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