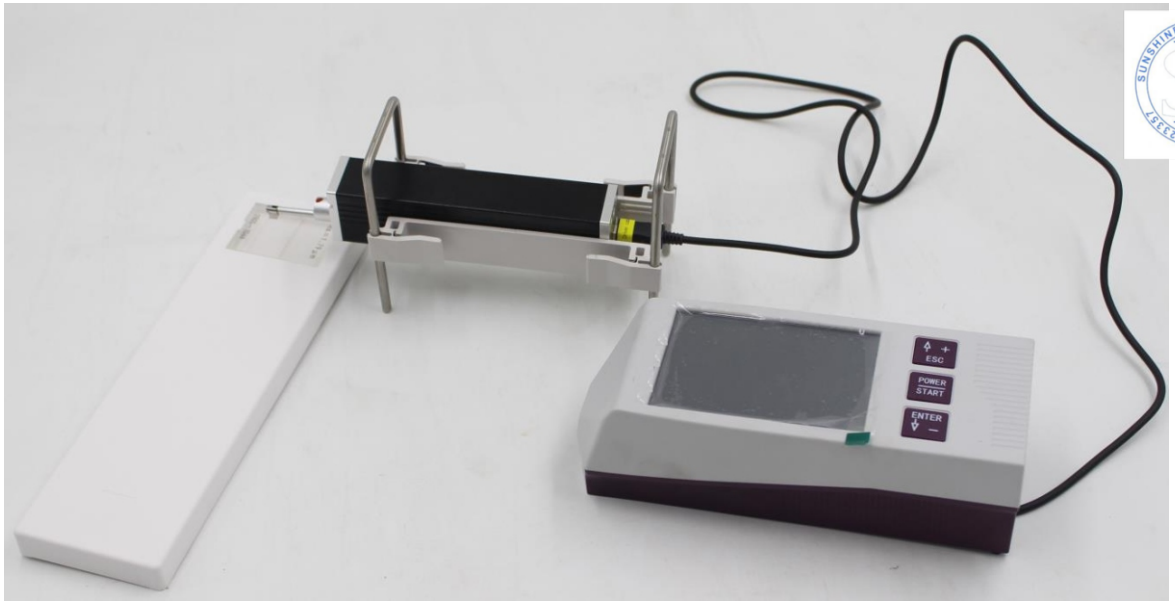
# Surface Roughness Tester ACCU 210





Measurement Range:The Z axis (vertical) ±80μm/±160 μm
The X axis (Transverse):17.5mm

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

Resolution:0．01μm/±20μm

Standard:ISO,ANSI,DIN,JIS

Filter:RC,PC-RC,Gauss,D-P

The sampling length(lr):0.25, 0.8, 2.5mm


Portable Surface Roughness TesterJD520 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 JD520allows 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 Parameters

| | | |
|---|---|---|
| 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, RPc, 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) | | Ln= lr×n 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 | lr=0.25, Vt=0.135mm/s |
| | | lr=0.8, Vt=0. 5mm/s |
| | | lr=2. 5, Vt=1mm/s |
| | | Return Vt=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℃ ~ 40℃<br>Humidity: < 90% RH |
| Store and Transportation | | Temperature: - 40℃ ~ 60℃<br>Humidity: < 90% RH |