

Surface Roughness Tester

TMR-350



Application:

TRM-350 Surface Roughness Tester 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. The SRT-350 allows surface roughness measurement both on metal and non-metal work-pieces. It is suitable for machining and manufacturing, quality control, inspection departments, especially for measurement on large and heavy work-piece, assembly line, on site. The TMR-350 is a Non Destructive Testing instrument, damage won't caused to testing piece.



02-9744354-6

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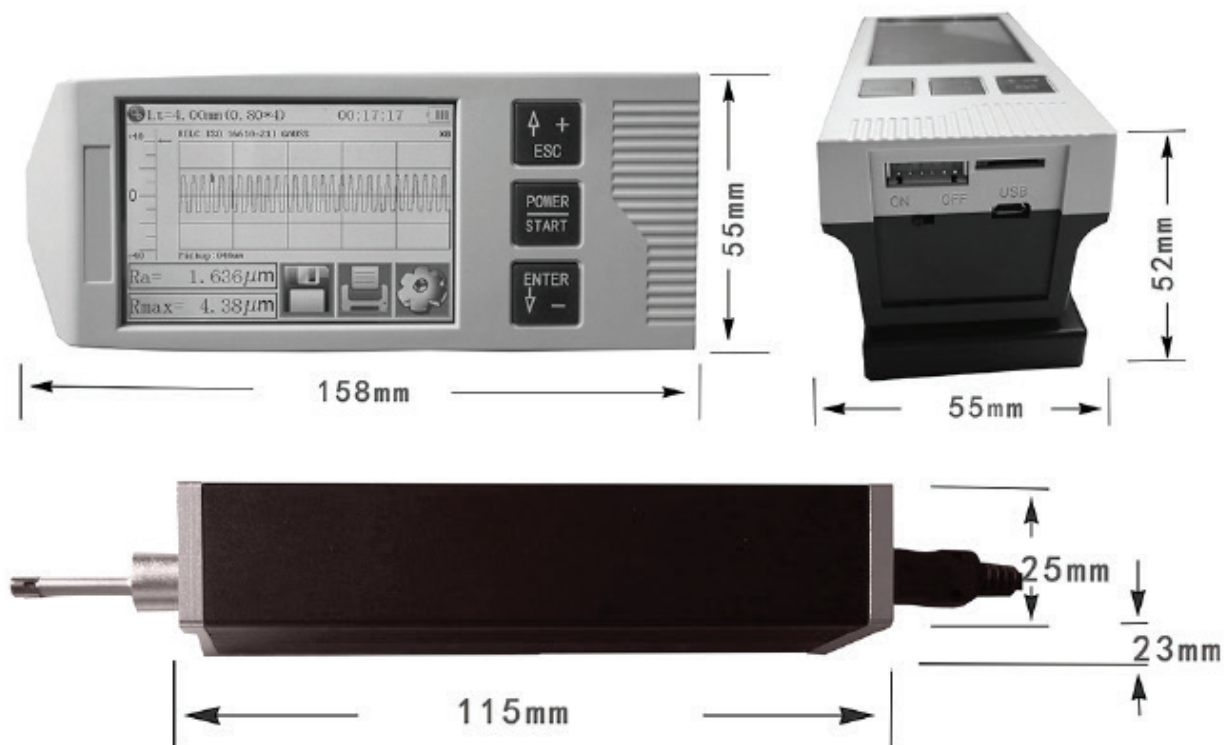
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DIMENSION



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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*
- *3.5 inches color graphic LCD touch screen, it includes a backlight for visibility in dark environments*
- *It displays all parameter and graphic*
- *The TMR-350 can be operated using the buttons or the touch screen*
- *Measurement range up to 320 μ m(-160 μ m~160 μ m)*
- *Large internal memory: 100 item of raw data and curves can be stored*
- *The TMR-350 provides Bluetooth Capability , support wireless connection with mobile and mini printer*
- *Built-in lithium-ion rechargeable battery and controlling circuit, high capacity, no memory effect*
- *There is remaining charge indicator, charging hint*
- *It works over 50 hours while fully charged.*
- *Language: Chinese and English*
- *DSP chip control and data processing, high speed, low power consumption*
- *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*
- *All parameters or any of the parameters which set by users can be printed*



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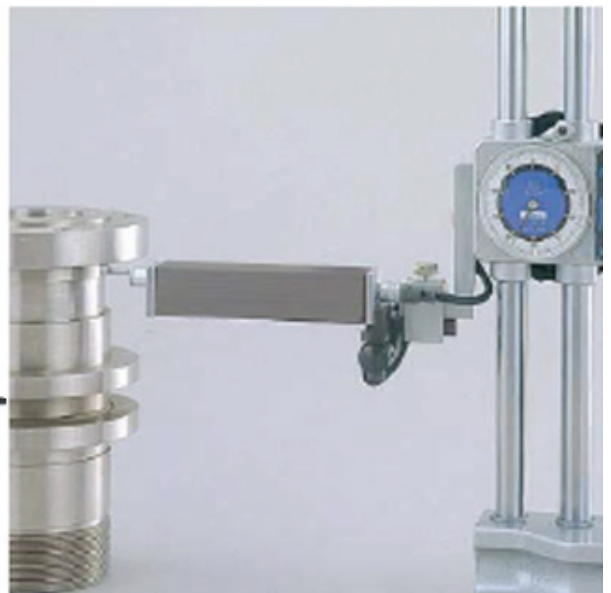
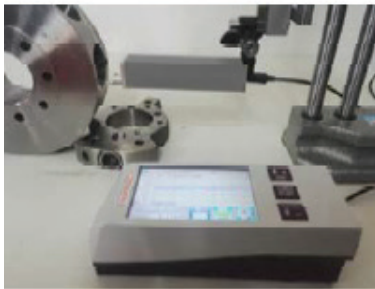
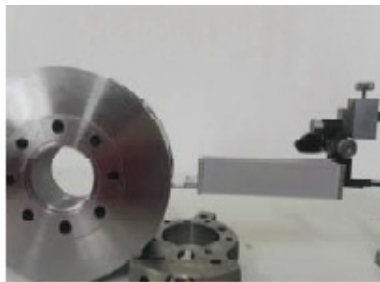
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Picture



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Specifications

Measuring Range The Z axis (vertical)	320μm (-160μm~160μm) , 12600μin (-6300μin~+6300μin)
Measuring Range The X axis move	17.5mm (0.69 inch)
Measuring Range Parameter Range	Ra Rq:0.005μm-32μm Rz R3z Ry Rt Rp Rm:0.02μm-320μm RSk : 0-100% RS RSm : 1mm Tp : 0-100%
Resolution The Z axis (vertical)	0.002μm/±20μm, 0.004μm/±40μm 0.008μm/±80μm, 0.02μm/±160μm
Parameter	Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax RsmRmr RPc Rk Rpk Rvk Mr1 Mr2
Graphic	Load 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 principle	Inductance
Sensor Stylus tip	Diamond, 90 cone angle, 5μmR
Sensor Force	Measuring force<4mN, Skid force<400mN
Sensor Probe head	hard alloy, skid radius of curvature: 40mm
Sensor 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
Precision	0.001μm
Tolerance	not more than ±10%
Repeatability	not more than 6%
Power supply	Built-in Lithium ion battery 3200mAh, Charger :DC5V
Outline dimension	Main unit: 158×55×52mm drive unit: 23×27×115mm
Weight (main unit)	Around 380g
Zoom of height adapter	40mm
working Environment	Temperature: - 20℃ ~ 40℃ Humidity: < 90% RH
standards	ISO4287, ANSI B46.1, DIN4768, JIS B601



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