

CMSRT300

Surface Roughness Tester

Portable Surface Roughness Tester ART300 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 CMSRT300 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 CMSRT300 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 160 μm (can be optional to 320 μm)
- 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

LAS IMAGENES PUEDEN VARIAR DEL ORIGINAL; INFORMACIÓN SUJETA A CAMBIO SIN PREVIO AVISO

Cualquier duda o aclaración favor de llamarnos, estamos para SERVIRLE

México: (-52) 55-5300-4517, 55-53004271, 55-5312-2536

Querétaro: (-52) 442-340-0250, 442-340-0251, 442-193-5678

Puebla: (-52) 222-219-9999, 222-887-0114, 222-228-1633

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- Can be operated using buttons or touch screen
- 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: Chinese and English switch freely
- 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 Tester CMSRT300 complies with international standards ISO, DIN, ANSI, JIS



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Measurement Range	The Z axis (vertical)	$\pm 80\mu\text{m}/\pm 160\mu\text{m}$ (enhanced model)
	The X axis (transverse)	20 mm
Resolution	The Z axis (vertical)	0.01 $\mu\text{m}/\pm 20\mu\text{m}$
		0.02 $\mu\text{m}/\pm 40\mu\text{m}$
		0.04 $\mu\text{m}/\pm 80\mu\text{m}$
		0.08 $\mu\text{m}/\pm 160\mu\text{m}$
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)
	Standar	ISO, ANSI, DIN, JIS
	Graphic	Bearing area curve, Roughness profile, Primary profile
Filter	RC, PC-RC, Gauss, D-P	
The sampling length (/r)	0.25, 0.8, 2.5 mm	
Assessment length (/n)	Ln= lr × n n=1~5	
Sensor	Measuring method	skidded
	Stylus tip	Diamond, 90 cone angle, 5 μmR
	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 $\pm 10\%$	
Repeatability	Less than 6%	
Power supply	Built-in Lithium ion battery, Charger :DC5V,800mA	
Outline dimension	Main unit: 64*53*160mm drive: 23*27*115mm	
Weight (main unit)	Around 380g	
Working Environment	Temperature: - 20°C ~ 40°C Humidity: < 90% RH	
Store and Transportation	Temperature: - 40°C ~ 60°C Humidity: < 90% RH	

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Standard Configuration

• CMSRT300 main unit	1 piece
• Sensor Drive	1 piece
• Standard Sensor	1 piece
• Calibration block and bracket	1 piece
• Height adapter	1 piece
• Power adapter	1 set



Parameter	Range
R _a , R _q	0.005μm ~ 30μm
R _z , R _{3z} , R _y , R _t , R _p , R _m	0.02μm ~ 320μm
S _k	0 ~ 100%
S, S _m	1mm
T _p	0 ~ 100%

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