Hand-Held Roughness Tester

Description

490-9538 hand-held roughness tester is ergonomically designed and a mechanical- electrical integration product, small and light, easy to operate. It is very much applicable for the measurement (e.g. plane, curvature, oblique plane, hole, groove, shaft) on site such as roughness inspection for parts in IQC warehouse, semi-finished products area and workshop etc.

- Split design for flexible use with brackets
- Measuring range up to 160μm
- 3.8in TFT touch screen, clear and direct roughness graphs
- With BT to support wireless connection with smart phone and mini printer
- Big data memory, 100 readings and graphic groups record
- Auto power off, Premium PCB and software design







Standard Set

Product Name	
Host	Charger
Drive sensor	Stylus
Probe	Small bracket
Calibration blocks	Operation Manual
Connection Cable, USB cable	Carrying case

Granite Table (Option)

Product Name	
Granite Table	WP-490-P01
Material	Natural Granite
Adjustable Height	300mm
Platform size	400x250x70mm

Data

Product Name	Hand-held Roughness Tester	
Art No.	490-9538	
Measuring range	Z-axis vertical	±80μm/±160 μm
	X-axis horizontal	20mm
Resolution	Z-axis vertical	0. 01μm/±20μm
		0. 02μm/±40μm
		0. 04μm/±80μm
		0. 08μm/±160μm
Description	Z-axis vertical	Ra,Rz,Rq,Rt,Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku, Rmr,Ry(JIS), Rmax, RPc, Rk, Rpk, Rvk, Mr1, Mr2)
	applicable standards	ISO,ANSI,DIN,JIS
	Graphics	material ratio curve, roughness profile, contour
Filters		RC,PC-RC,Gauss,D-P
Sampling Length		0.25, 0.8, 2.5mm
Assessment length		Ln= lr×n,n=1~5
Senor	Measuring principle	differential conductance displacement sensor
	Contact tip	diamond, taper 90°,radius of contact tip 5μm
	Measuring force	<4mN
	Guide	carbide, radius of moving direction
	Moving 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 error		<±10%
Repeatability		<6%
Power		Built-in Li-ion rechargeable battery, Charge
Size		host: 64*53*160mm,Drive: 23*27*115mm
Host Weight		380g
Operaing enviroment		temperature: - 20°C ~40°C Humidity: < 90% RH
Storage enviroment		temperature: - 40°C ~60°C Humidity: < 90% RH