

Surface Roughness Tester MR220



Technical parameter

Name		Content
Measuring range	Z axis (vertical)	320µm(ra=80µm)
	X axis (horizontal)	17.5mm
Resolution	Z axis (vertical)	0.01µm/±20µm
		0.02µm/±40µm
		0.04µm/±80µm
		0.08µm/±160µm
Measurement item	Parameters	Ra, rq, rz, rt, rp, rv, RS, rsm, rz(JIS), ry(JIS), rsk, R3z, rmax, rpc, rmr, rku, rda, rdq, rdc, ry; Rk, rpk, rvk, mr1, mr2, A1, A2, V0;
	Standard	ISO,ANSI,DIN,JIS
	Graphic	Roughness profile, material ratio curve, direct profile
Filter		RC,PC-RC,gauss,D-P
Sampling length (lr)		0.25,0.8,2.5mm
Assessment length (ln)		Ln= lr×n n=1~5
Pickup	Principle	Differential inductance
	Stylus	Natural diamond, 90B cone angle, 5µm tip radius
	Force	<4mn
	Skid	Ruby, longitudinal radius 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 or equal to ±10%
Repeatability		Less than or equal to 6%
Power supply		Built-in lithium ion battery, AC adapter 8.4V,800ma
L×W×H		119×47×65mm
Mass		Approximately 380g

Main feature:

- 1) 28 parameters: Ra, rq, rz, rt, rp, rv, RS, rsm, rz(JIS), ry(JIS), rsk, R3z, rmax, rpc, rmr, rku, rda, rdq, rdc, ry; rk, rpk, rvk, mr1, mr2, A1, A2, V0;
- 2) High accuracy inductance pickup with 320µm range;
- 3) Four filtering methods of RC, PC-RC, GAUSS and D-P;
- 4) Compatible with four standards of ISO, DIN, ANSI and JIS;
- 5) 2.7 inch screen 128×64 dot matrix LCD displays all parameters, graphs and chinese-english menu;
- 6) DSP chip is used to control and process data with high speed and low powerconsumption;
- 7) Can store 20 sets of measurements results;
- 8) External SD card expanding mass storage data;
- 9) Built-in standard bluetooth module, wireless connection bluetooth printer, print all parameters and graph;
- 10) Built-in standard MICRO-USB interface for communication with the PC, you can use special software for measurement results analysis and management;
- 11) Built-in lithium polymer rechargeable batteries and charging protection circuit;
- 12) Mechatronics design, smaller, easy to carry;
- 13) With automatic switch-off of the power-saving features, the prompt messages are automatic;
- 14) Complete accessories, optional surface sensor, the deep grooves sensor, holes sensor, pole hole tooth surface sensor, a small column, micro-adjusting platform, extension bar and others.

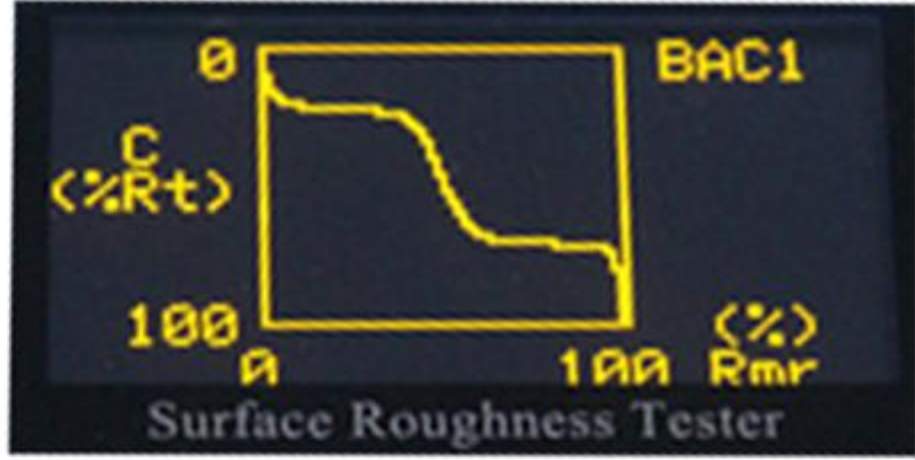


Packing list

No.	Name	Qty
1	MR220 Main unit	1
2	Standard Pickup	1
3	Calibration Specimen	1
4	Power adapter	1
5	I screwdriver	1
6	Specimen plate	1
7	User's Manual	1
8	Packing list	1
9	Certification	1



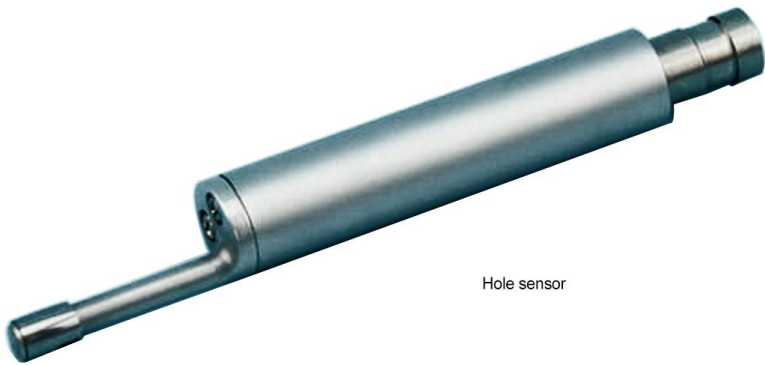
Height support



Sensor



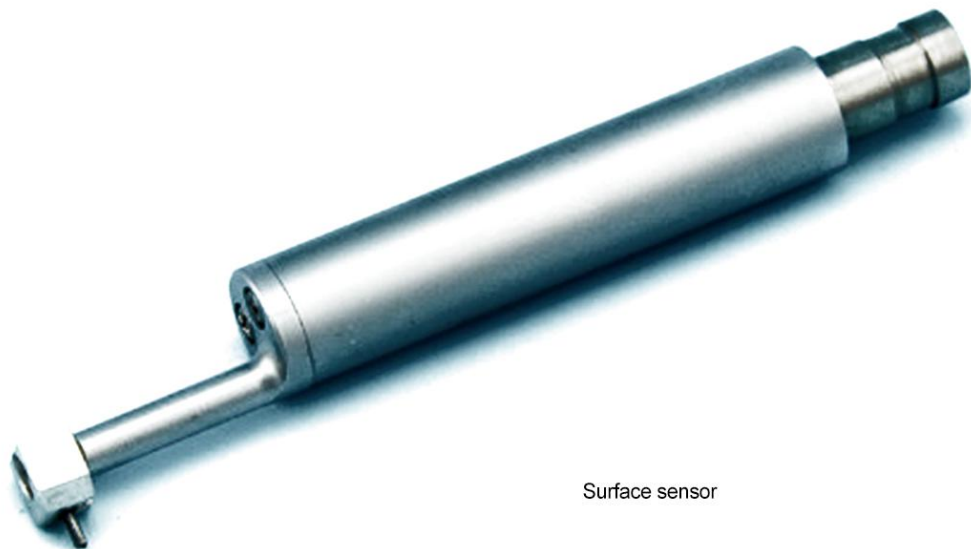
Deep groove sensor



Hole sensor



Standard sensor



Surface sensor