



PORTABLE ULTRASONIC HARDNESS TESTER RoboUltra – 100

RoboUltra Portable Ultrasonic Hardness Testers is developed for measuring hardness of metal and alloy articles by Rockwell, Brinell, and Vickers hardness scales.

Ultrasonic hardness tester RoboUltra apply ultrasonic contact impedance method to do comparative hardness measurement for testing pieces, with advantages of high accuracy, efficiency, portable and easy operation.

Ultrasonic hardness tester SU100 is widely used to measure hardness of small forgings, cast material, weld inspection, heat affected zone, Ion-nitrided stamping dies and molds, forms, presses, thin walled parts, bearings, tooth flanks, etc



FEATURES

- Excellent Accuracy: $\pm 3\%$ HV, $\pm 1.5\text{HR}$, $\pm 3\%\text{HB}$
- Microscopic Indentation: Only high-power microscope can observe the indentation
- Quick Measurement: Result in 2 seconds
- Large LCD Display: Directly display measurement result, times count, maximum, minimal, average and deviation.
- User Friendly Operation: Easy to operate with minimum training
- Promised Warranty: 2-Year warranty for main unit (Excludes Probe)
- Mass Storage: Save 1000 groups measurement data
- Simple Calibration: Save 20 groups calibration data for invoking, improve calibration efficiency.



TECHNICAL SPECIFICATION

Product Name	Ultrasonic Hardness Tester
Model	RoboUltra-100
Loading Force	2Kgf (Optional: 1Kgf, 5Kgf, 10Kgf)
Measuring Range	HB: 85-650;HV 80-1599; HRC 20-70;HRB: 41-100; HRA: 61-85.6 HS: 34.2-97.3;Mpa: 255-2180N/mm
Measuring Accuracy	HV:±3%HV; HRC:±1.5HRC; HB:±3%HB
Indenter	136°Vickers Diamond Indenter
Measuring Direction	Support 360°
Data Storage	To save 1000-groups of measuring data and 20-groups of calibration data
Hardness Scale	HV、 HB、 HRC、 HRA、 HRB、 MPa
Data display	Loading force, Testing-times, Testing result, Average, Maximum、
Hardness Indication	LCD display
Operating	Temperature:-10°C~50°C; Humidity: 30%~80%R.H
Operating Voltage	DC 4.8V
Instrument Dimensions	160x80x31mm
Net Weight	Approximate 500g (Without probe)



SCOPE OF SUPPLY

Product Name	Product Name
Instrument Main Body	Probe Silicone Cap
2Kgf manual Probe HP-2k	Instrument Manual
Probe Cable	Accessories Box
USB Cable	Certificate

MANUAL PROBE SPECIFICATION

Probe Type	HP-1K	HP-2K	HP-5K	HP-10K
Remark	Optional	Standard	Optional	Optional
Loading force	10N	20N	50N	98N
Diameter	22mm	22mm	22mm	22mm
Length	154mm	154mm	154mm	154mm
Oscillating Rod Diameter	2.4mm	2.4mm	3mm	3mm
Roughness of measuring surface	Ra<3.2um	Ra<5um	Ra<10um	Ra<15um
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm

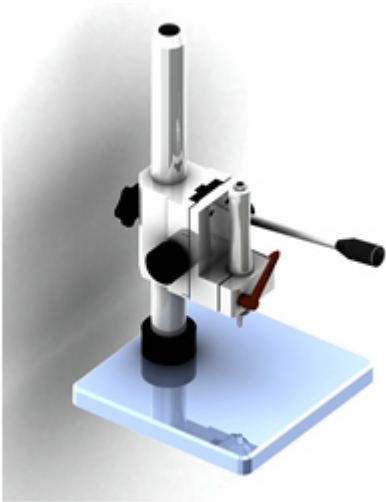


MOTORIZED PROBE SPECIFICATION

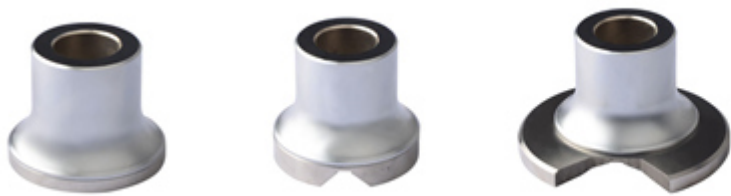
Probe Type	MP-100	MP-300	MP-500	MP-800
Remark	Optional	Optional	Optional	Optional
Loading force	1N	3N	5N	8N
Diameter	46mm	46mm	46mm	46mm
Length	200mm	200mm	200mm	200mm
Oscillating Rod Diameter	3.7mm	3.7mm	3.7mm	3.7mm
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm



Manual Probe



Test Stand



Support Ring



Probe Cap