

HST-U200 Portable Ultrasonic Hardness Tester



Application:

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.

Hardness Test of flange edge and gear root stamping parts, mold, thin plate, face-hardened gear tooth, gear groove and taper part;

Hardness test of axle and thin-wall pipes and vessels;

Hardness test of wheels and turbine rotors;

Hardness test of bit edge;

Hardness test of welding parts;

Measure the depth of deep hole with certain aperture, concave and convex mark with large radii, and irregular plane;

Hardness test of most ferrous and nonferrous metals and their alloys in industrial production.

Features:

1. Perfect Accuracy-- $\pm 3\%$ HV, $\pm 1.5\text{HR}$, $\pm 3\%\text{HB}$
2. Microscopic Indentation-- Only high-power microscope can observe the indentation
3. Quick Measurement--Result in 2 seconds
4. Large LCD Display--Directly display measurement result, times count, maximum, minimal, average and deviation.
5. Friendly Operation--Operate well after short training
6. Promised Warranty--2-Year warranty for main unit (Excludes Probe)
7. Mass Storage--Save 2000 groups measurement data

8. Simple Calibration--Save 20 groups calibration data for invoking, improve calibration efficiency.

Technical Parameter:

Model	HST-U200
Loading Force	5kgf manual probe (optional 1/2/10kgf manual probe) (optional motorized probe: 0.3/0.5/0.8/1kgf)
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
Scales	HV, HB, HRA, HRB, HRC, HS, MPa
Measuring Accuracy	HV: $\pm 3\%$ HV; HRC: ± 1.5 HRC; HB: $\pm 3\%$ HB
Indenter	136° Vickers Diamond Indenter
Measuring Direction	Support 360°
Hardness Indication	LCD display
Data display	Loading force, Testing-times, Testing result, Average, Maximum, Minimum, Deviation and Conversion scale. Language: English, German, Portuguese, Turkish, Chinese (optional Korean, Russian, Spanish, Czech)
Data Storage	To save 2000-groups of measuring data and 20-groups of calibration data
Operating Environment	Temperature: -10°C~50°C; Humidity: 30%~80%R.H
Operating Voltage	DC 6V
Dimensions	Machine: 160x80x31mm; Packing: 35x35x15cm
Net Weight	Approximate 500g (Without probe)
Gross weight	5kg (After packing with standard accessories)