

Ultrasonic Hardness Tester TIME®5631

TIME®5631 ultrasonic hardness tester is an intelligent ultrasonic hardness tester with little destructive effect on the surface of the test piece. It is a non-destructive hardness tester. It has fast detection speed and high accuracy.

It can measure the hardness of locally hardened parts in a small space and thin parts, making up for the limitations of desktop hardness testers and is popular in the market.



Features:

- The product consists of a smartphone and a smart probe, communicating via Bluetooth.
- Hardness value measured by the smart probe can be transmitted to the smartphone in real time.
- The smart probe is powered by two No. 5 dry batteries, easy to replace.
- The software of the smart probe can be upgraded remotely.
- Battery indicator: smartphone icon display, smart probe red light low battery prompt.
- Language: Simplified Chinese and English.
- Hardness value conversion: HV, HB, HRC, HRA, HRB;

- Smart probe: standard 10N probe;
- Indication resolution: 1HV;
- Storage: mobile phone and cloud realize massive storage;
- Calibration: hardness value calibration of selected materials can be performed;
- Display: smartphone display;
- Measurement results: measurement records can add multiple types of additional information such as pictures, videos, positioning, etc.
- Data processing: rich post-data processing can be realized, such as customized work orders, real-time data sharing, report generation, etc.
- Automatic shutdown

Applications:

Measurable workpiece parts include belt/plate workpiece measurement, mold hardening layer measurement, blade hardening layer measurement, tooth surface hardening layer measurement, flange edge measurement, wheel, turbine rotor measurement, thin plate measurement, shaft and pipe, container measurement, knife edge position measurement, welding part measurement, etc.

Technical Specification

Measuring range	80~1400 HV; 76-618 HB; 20.3-68 HRC 41-105 HRB
Loading force	10N
Measuring accuracy	$\pm 4\%$ ($<500\text{HV}$)
	$\pm 5\%$ ($500\text{HV}\sim 800\text{HV}$)
	$\pm 6\%$ ($>800\text{HV}$)
Repeatability	8% ($<250\text{HV}$)
	6% ($\geq 250\text{HV}$)
Indenter	Vickers diamond indenter
Power	2 AA batteries, continuous working time not less than 24 hours
Hardness scale	HV, HB, HRC, HRB
Dimensions (mm)	175x85x55
Weight (g)	220

Standard Delivery

- Ultrasonic hardness probe 1
- Industrial phone 1
- Standard hardness block 1
- Probe protect cover 1
- User manual 1

Optional Delivery

- Test stand TIMEA531 1
 - SIM card 1
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