

Portable Hardness Tester - NOVOTEST

Combined Hardness Tester NOVOTEST T-UD3 combines two methods of measuring hardness by an indirect method: Ultrasonic Contact Impedance (ASTM A1038) and Leeb (ASTM A956). This makes the device the most versatile portable device in the world. T-U3 only Ultrasonic Contact Impedance and T-D3 only Leeb Impedance.



The Combined Hardness Tester NOVOTEST T-UD3 allows user to measure the hardness of any metals, parts of any shape and thickness, measure the hardness of the surface hardened layers and evaluate the tensile strength.



BUILT-IN CAMERA

The device has a built-in camera, which allows the user to store a measurement archive of images of the tested objects with binding of hardness to a specific place on the product.

Advantages:

- Small indenter imprint (suits for mirror surfaces of shafts necks, blades, gear teeth, etc.)
- Measuring surface hardened layers hardness
- Wide range of hardness testing
- Various measurement modes
- 88 combinations of materials and hardness scales (calibrations)
- Calibration of any scale in any range
- Convenience and ease of measurement
- Optimized number of buttons

- Large full-color graphic display with bright backlight
- Built-in photo camera for thorough reports
- Automatic probe types recognition
- Connected probe types indication
- The calibrations are stored in UCI probe memory
- Extended operating temperature range (frost, down to – 40°C)
- Internal memory and communication with a PC
- New intuitive menu with tips on the buttons
- Optional wireless mini printer
- Waterproofed housing
- Rubber bumper protected housing
- Internal clock
- Hardness value measuring for any mass products with more than 1 mm thickness (small parts, thin-walled structures, pipes, tanks, steel sheets, articles of complex shape, hardness testing of metal coatings, etc.)
- Different operating modes:
 - Graph – the graph building mode
 - Histogram – the histogram building mode
 - Statistics – provides statistics for the current set of measurements
 - Smart – filters the incorrect measurements
 - Signal – displays the probe signal (only for the Leeb probe)

Specifications

UCI probe types	<ul style="list-style-type: none"> • 1kgf (10N) 2.2 lbf • 5kgf (50N) 11lbf • 10kgf (98N) 22lbf
Leeb probe types	<ul style="list-style-type: none"> • D • DC • DL • C • D+15 • E • G
Measuring range	<ul style="list-style-type: none"> • HRC:20~70 • HB:90~650 • HV:230~940 • Tensile strength, MPa: 370~1740 • User calibrations for any range • (for example: HV100-1600)
Measuring accuracy	<ul style="list-style-type: none"> • HRC: 2HRC • HB: 10HB • HV: 15HV

Standards	<ul style="list-style-type: none"> • ASTM A1038 • ASTM A956 • ASTM A370 • ISO 16859 • ASTM E140 • ISO 18265 • DIN 50159 • GB/T 34205
Indenter	UCI probe – Diamond indenter Leeb probe – Hardened ball
Measuring direction	Any direction 360°
Data storage	Limited only by the memory card up to 32Gb
Communication	Upload data to PC and export as a spreadsheet (USB cable and software included) <ul style="list-style-type: none"> • UCI probe – HRC, HB, HV, MPa • Leeb probe – HRC, HRB, HB, HV, HL, MPa • Additional custom scales for calibration
Hardness scales	<ul style="list-style-type: none"> • Ultrasonic (UCI) probe – pre-calibrated for steel • Dynamic (Leeb) pre-calibrated for steel, alloy steel, cast iron • Additional custom materials for calibration
Materials	<ul style="list-style-type: none"> • Load applied/contact (UCI) • Angle (Leeb) • Single test result • Max, Min, Average of tests • Number of tests, • Deviation • Var. coeff. • Histogram, Signal and Smart Modes • (Filter of incorrect measurements).
Data display	<ul style="list-style-type: none"> • English • German • French • Polish • Russian <p>*additional languages available by request</p>
Language	
Indication	Color LCD display (320×240)
Operating environment	<ul style="list-style-type: none"> • Temperature: -20°C~40°C • Humidity: 30%~80%R.H.
Power supply	DC 4,5V (3 pcs batteries AA)
Instrument dimensions	160x75x30mm
Net weight	Approx. 0.3kg (without probe)
Gross weight (package)	2kg
Package dimensions, cm	33*27*10
Battery life	Approx. 10 hours.

Standard Package depending on T-UD3, T-U3 or T-D3

- Hardness tester
- UCI probe (10N, 50N or 98N for choice)
- Leeb probe (D type)
- 3pcs AA batteries
- Test Block (OPTIONAL)
- Charger
- USB cable
- Operating manual
- Software for PC (Need Download or Web Link)
- Case



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