

Combined Hardness Tester NOVOTEST T-UD3 NEW

Unique and unmatched Portable Hardness Tester!

High-precision, multi-functional, convenient, reliable and at affordable price!



Description of Combined Hardness Tester NOVOTEST T-UD3:



Built-in camera allows to take a picture of tested object and mark tested area with corresponding hardness value.

User get the most reliable and intuitive method of logging of measurements.



Hardness tester has technical specifications that not inferior to the most eminent and expensive hardness tester of the world, with a much more extensive functionality!

The device works with both ultrasonic contact impedance (UCI) and dynamic (Leeb) probes. User get the benefits of two methods of measurement - it is the maximum that can be obtained from a portable hardness tester.

Dynamic (Leeb) probe is used for measuring the hardness of non-ferrous metals, cast iron, coarse-grained materials, massive products etc.





The ultrasonic contact impedance (UCI) probe is used for measuring the hardness of small items, objects with a thin wall, complex form, and to measure the hardness of surface hardened layers.



Can be equipped with two types of UCI probes:

Load	Advantage or Benefit	Typical Applications
50N	Considered to be the Universal type	Induction or carburized machined parts, e.g
(11.2lbf)	for most general applications.	camshafts, turbines, weld inspection, HAZ.
	50N of downward hand pressure is	Measurement in grooves, gear tooth flanks
	required to activate the probe.	and roots
	Surface finish equivalent to 80 grind	Turbine blades, inside tubes with Ø> 90mm.
	or better.	
10N (2.2lbf)	Load is easy to apply; provides	lon-nitrided stamping dies and molds, forms,
	control to test on a sharp radius.	presses, thin-walled parts
	Only 10N of downward hand	Bearings, tooth flanks
	pressure is required to activate the	Turbine blades, inside tubes with Ø> 90 mm.
	probe.	
	Surface finish equivalent to 150 grind	
	or better.	



Has different operating modes:



Graph - the mode of building of graph;

Histogram - the mode of building of histogram;

Statistics - the mode of statistic;

Smart - the mode of filtering of incorrect measurements;

Signal - the mode of displaying of signal (only for Leeb probe).



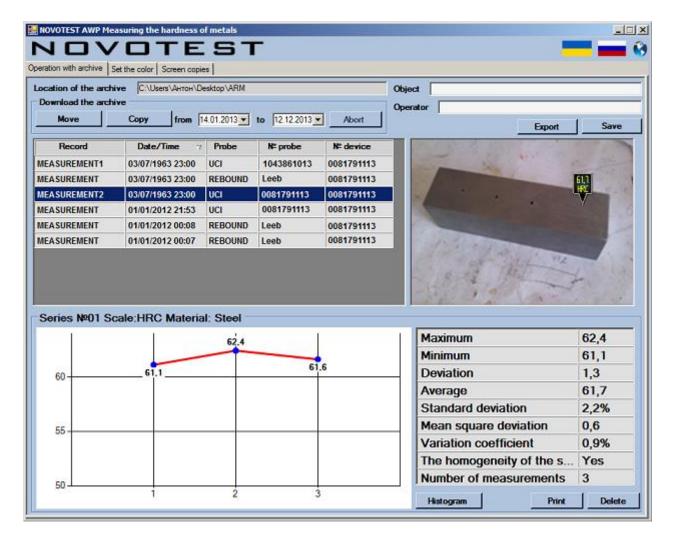
Sealed housing with rubber protective strips - Hardness testers is ideal for use in workshop and field conditions with high humidity, dust, etc. Hardness tester has frost-resistant display that allows user to use the device at any season and in any climatic zone of the Earth.

Combined Hardness Tester NOVOTEST T-UD3 specifications:

UCI probe types	1kgf (10N) 2.2 lbf, 5kgf (50N) 11lbf, 10kgf (98N)
Leeb probe types	D, DC, DL, C, D+15, E, G
Measuring Range	HV:230~940; HRC:20~70; HB:90~650. Tensile strength, MPa 370~1740
Measuring Accuracy	HV:±3%HV; HRC:±1.5%HRC; HB:±3%HB
Indenter	Diamond Indenter (UCI), Hardened ball (Leeb)
Measuring Direction	Any direction 360°
Data Storage	Limited only by the memory card
Communication	Upload data to PC and export as a spreadsheet (USB cable and software included)
Hardness Scale	HRC, HB, HV, HRB, HS, HL, MPa
Materials	 Ultrasonic (UCI) probe - pre-calibrated for steel. Dynamic (Leeb) pre-calibrated for steel, alloy steel, cast iron, stainless steel, aluminum, bronze, brass, copper. Additional custom materials for calibration.
Data display	Load applied/contact (UCI), Angle (Leeb), Single test result, Max, Min. Average of tests, Number of tests, Deviation, Var. coeff, Histogram, Signal and Smart Mode (Filter of incorrect measurements).
Indication	Color LCD display (320x240)
Operating Environment	Temperature:-20°C~40°C; Humidity: 30%~80%R.H.
Power Supply	DC 4,5V (3 pc batteries AA)
Instrument Dimensions	160x75x30mm
Net Weight	Approx. 0.3kg (Without probe)
Battery life	Approx. 10 hours.



The device has PC software with a comfortable and intuitive interface





The advantages of Hardness Tester NOVOTEST T-UD3:

- hardness measurement of any mass products with a thickness of 1 mm inaccessible to the dynamic (Leeb) hardness testers (small parts, thin-walled structures, pipes, tanks, steel sheets, articles of complex shape, hardness control of metal coatings, etc.)
- small imprint after measuring (mirror surfaces of shafts necks, blades, gear teeth, etc.)
- measuring the hardness of the surface hardened layer

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- wide range of hardness
- various measurement modes
- calibration of any scale in any range
- convenience and ease of measurement
- optimized number of buttons
- large full color graphic display with bright back-lighting
- automatic recognition of probe
- indication of the type of connected probe
- calibrations stored in memory of probe
- extended temperature range (frost, down to 40°C)
- internal memory and communication with PC
- new, intuitive menu with tips on the buttons
- optional wireless mini printer
- water resistant case (IP64)
- rubber bumper protected case







Standard set of Combined Hardness Tester NOVOTEST T-UD3

- Electronic block
- UCI probe
- Leeb probe
- 3 batteries AA
- Charger
- USB cable
- Operating manual
- Software for PC
- Case



Available options for ordering of Combined Hardness Tester NOVOTEST T-UD3

- UCI probe
- Leeb probe
- Different colors of rubber bumper protected case
- Wireless printer
- Portable grinding machine
- Can be equipped with three types of UCI probes: 10N (2.2lbf), 50N (11.2lbf), 98N
- Batteries
- Charger
- USB-cable
- Hardness test blocks
- Case

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Application of Combined Hardness Tester NOVOTEST T-UD3











