



UCI Hardness Tester NOVOTEST T-U2

High-precision, easy in operation and reliable with the most affordable price in the world among the analogues!

- ✓ UCI probe
- ✓ Testing of products with thickness over 1mm
- ✓ Wide range of hardness value
- ✓ Ease in operation
- ✓ Minimum number of imprints
- ✓ Automatic recognition of probe
- ✓ Graphical display with backlight
- ✓ Control of the batteries
- ✓ New, intuitive menu with tips on the buttons
- ✓ Extended temperature range (cold-resistant, down to -20 °C)
- ✓ Internal memory and connection with PC
- ✓ Rubber protective housing-case



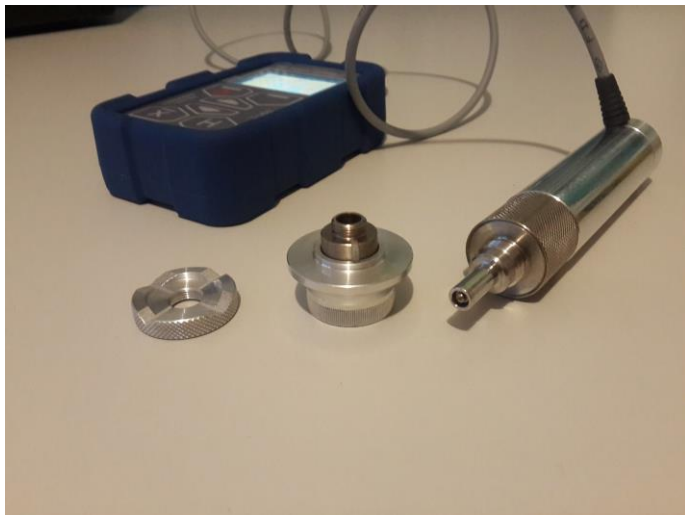
Description of UCI Hardness Tester NOVOTEST T-U2:

UCI Hardness Tester NOVOTEST T-U2 is designed for rapid non-destructive testing of hardness:

- metals and alloys on standardized international scales of hardness: Rockwell (HRC), Brinell (HB), Vickers (HV);
- metals with distinctions in properties of steel (e.g., non-ferrous metals, alloys of iron and others) and using five additional scales for calibration;
- use of the scale of tensile strength (Rm) for determining the tensile strength of carbon steel products pearlitic by automatically converting from the scale of hardness Brinell (HB).



Portable hardness tester T-U2 is very easy in operation, has the main functions with the lowest price in the world among the portable UCI hardness testers!



The device works with ultrasonic contact impedance (UCI) probe.

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

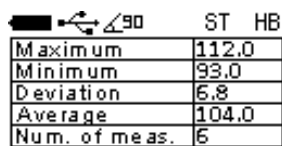


Has basic modes of measurement:

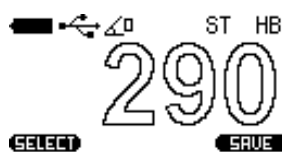
- Normal mode



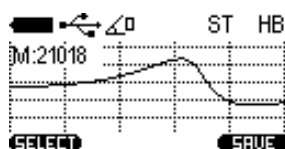
- Statistics mode



- Smart mode



- Signal mode





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.

UCI Hardness Tester NOVOTEST T-U2 specifications:

| | |
|---|---|
| UCI probe types | 1kgf (10N) 2.2 lbf, 5kgf (50N) 11lbf |
| Indenter | UCI (diamond Indenter) |
| Measuring direction | Any direction 360° |
| Measurement hardness range: | |
| - Rockwell, HRC | 20 - 70 |
| - Brinell, HB | 90 - 450 |
| - Vickers, HV | 230 - 940 |
| - temporary resistance (tensile strength), MPa | 370 - 1740 |
| Measuring accuracy | HV+ / - 3%; HRC+ / - 1,5%; HB+ / - 3%; |
| Hardness scale | HRC, HB, HV, MPa |
| Materials | - UCI probe - pre-calibrated for steel. - Additional custom materials for calibration. |
| Operating temperature range, ° C | -20 to +50 |
| Power supply | 2 AA batteries |
| Dimensions, mm | 120x60x25 |
| Weight of electronic unit with batteries, no more, kg | 0.2 |
| Batteries life, not less, h | 20 |



The device has PC software with a comfortable and intuitive interface

NOVOTEST AWP Measuring the hardness of metals

NOVOTEST

Operation with archive | Set the color | Screen copies

Location of the archive: C:\Users\Aron\Desktop\ARM

Download the archive

Move | Copy | from 14.01.2013 to 12.12.2013 | Abort

Object:

Operator:

Export | Save

| Record | Date/Time | Probe | N° probe | N° device |
|--------------|------------------|---------|------------|------------|
| MEASUREMENT1 | 03/07/1963 23:00 | UCI | 1043861013 | 0081791113 |
| MEASUREMENT | 03/07/1963 23:00 | REBOUND | Leeb | 0081791113 |
| MEASUREMENT2 | 03/07/1963 23:00 | UCI | 0081791113 | 0081791113 |
| MEASUREMENT | 01/01/2012 21:53 | UCI | 0081791113 | 0081791113 |
| MEASUREMENT | 01/01/2012 00:08 | REBOUND | Leeb | 0081791113 |
| MEASUREMENT | 01/01/2012 00:07 | REBOUND | Leeb | 0081791113 |

Series №01 Scale:HRC Material: Steel

| | |
|-----------------------------|------|
| Maximum | 62,4 |
| Minimum | 61,1 |
| Deviation | 1,3 |
| Average | 61,7 |
| Standard deviation | 2,2% |
| Mean square deviation | 0,6 |
| Variation coefficient | 0,9% |
| The homogeneity of the s... | Yes |
| Number of measurements | 3 |

Buttons: Histogram | Print | Delete



The advantages of UCI Hardness Tester NOVOTEST T-U2:

- 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
- Wide range of hardness
- Only basic functions, nothing extra
- Possibility to use in field conditions with high humidity and dust
- Convenience and ease of measurement
- Optimized number of buttons
- Contrast display with bright back-lighting
- Automatic recognition of probe
- Indication of the type of connected probe
- Calibrations stored in memory of probe
- Very easy in operation and calibration
- Internal memory and communication with PC
- New, intuitive menu with tips on the buttons
- Extended temperature range (frost, down to - 40°C)
- Water resistant case
- Rubber bumper protected case



Standard set of UCI Hardness Tester NOVOTEST T-U2

- Electronic block
- UCI probe
- 2 batteries AA
- Charger
- USB cables
- Operating manual
- Software for PC
- Case



Available options for ordering of UCI Hardness Tester NOVOTEST T-U2

- UCI probe
- Leeb probe (+activation code)
- Batteries
- Charger
- USB-cable
- Set of measures of hardness
- Case





NOVOTEST



Using the UCI Hardness Tester NOVOTEST T-U2:

