

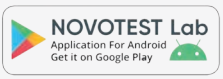
WEB FIRMWARE UPDATE

THE MOST AFFORDABLE  
COMBINED HARDNESS  
TESTER IN THE WORLD

# COMBINED HARDNESS TESTER T-UD2



Scan to view  
demo protocol



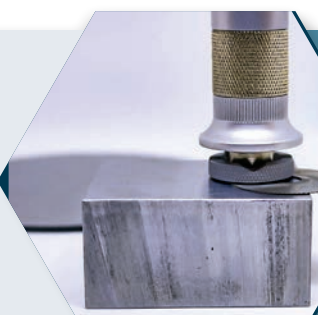
**SHOCKPROOF  
RELIABLE HOUSING**

**SIMPLE AND  
CONVENIENT INTERFACE**

**MEASUREMENT OF PRODUCTS  
WEIGHTING FROM 100g AND LESS**

**EXPANDING THE CAPABILITIES  
OF THE DEVICE WITH THE NOVOTEST LAB**

Using the Ultrasonic Contact Impedance (UCI) method, Combined Hardness Tester NOVOTEST T-UD2 can measure products with wall thicknesses of 1 mm or even thinner with the help of a UCI Probe Test Stand NOVOTEST.



**MEASUREMENT OF  
PRODUCTS WITH  
THIN WALLS**

The UCI probe allows measurements of products from 100g without additional manipulations, and even less when fixing samples in a vice or special equipment.



**SMALL PRODUCTS  
HARDNESS  
MEASURING**

## SPECIFICATIONS

UCI probe types	1kg (10N), 5kg (50N), 10kg (98N)
Leeb probe types	D, DC, DL, C, D+15, E, G
Measurement range	Vickers HV: 240~940; Rockwell HRC: 20~70; Brinell HB: 90~650 Tensile strength, MPa 370~1740 Measurement ranges can be expanded by the user (for example: 1 – 2000HV)
Measurement accuracy	±15HV, ±2HRC, ±10HB, ±4HLD
Scales	UCI probe: HRC, HB, HV, MPa Leeb probe: HRC, HB, HV, HLD, MPa
Materials	UCI probe – pre-calibrated for steel Leeb probe – pre-calibrated for steel, alloy steel, stainless steel, cast iron Additional custom scales and materials for calibration
Measurement direction	Any direction 360°
Data storage	Device - 256 measurements NOVOTEST Lab App - limited only by the memory of the Android gadgets Cloud storage - limited only by the memory of the Cloud storage
Data transfer	Wireless connection with Android smartphones, tablets, etc.: - NOVOTEST Lab App PC: - Web interface – NOVOTEST.INFO
Languages	English, German, French, Polish, Portuguese, Ukrainian, Russian *additional languages available by request.
Power supply / Charging	2 pcs AA batteries / AA charger
Batteries life	20 h
Operating environment	Temperature: -20°C ~ 50°C, Humidity: <95% R.H. at 35°C
Dimensions and weight of electronic unit (with batteries)	122x76x37 mm / 0.25 kg

**RADIUS SURFACE  
PRODUCTS AND  
PLACES DIFFICULT  
TO ACCESS**



The ultrasonic (UCI) probe allows for hardness measurements of products in grooves and gear teeth due to its small contact area. Additionally, a special nozzle can be used to accurately measure the hardness of curved surfaces and wires.

**MEASURING HARDNESS  
OF PRODUCTS WITH  
HIGH ROUGHNESS  
AND COARSE-GRAINED  
MATERIALS**



The dynamic (Leeb) measurement method is less demanding on material uniformity and surface roughness. This allows users to measure the hardness of a wide range of alloys and test products without preparing the testing surface.