

NewSonic

SonoDur2 – UCI-Handheld Probes for perfect Results

Vickers Testing under load! Attach, press and read-off the result – that`s why modern and fast hardness testing within seconds is so easy!



Meaningful UCI Hardness Measurements (Ultrasonic Contact Impedance) on surfaces in virtually any direction:

- Stable measurement results without attachment sleeves/ Tripod independent of orientation
- Facile, secure handling without additional handhold, at stable accuracy, nearly user independent
- Locally precise positioning for selective measurement – even on small test spots, like tooth root surfaces or ball tracks with extra thin tips (1.7 mm or 1,4 mm instead of 2.5 mm standard diameter).



SONO-10H, HV 1 (10 N): Weld seams (HAZ), soft spots, nitrided & hard surface

SONO-50H, HV 5 (49 N): Metal working Industries in general, „Work Horse“ in heat treatment shops

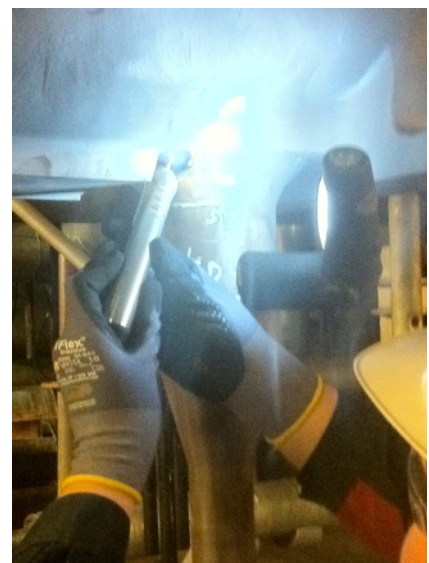
SONO-100H, HV 10 (98 N): DIN EN1090, construction steel, cast iron, forgings, fasteners



Fields of UCI-Hardness Testing:

Tools and mechanical engineering, plant engineering and construction, ship building, (wind) power plants, chemical, car, and aircraft industries, maintenance of machines and facilities.

Especially HV 10: Welded seams, heat treatment condition, material sorting, Aluminium heavy sand cast components, casted profiles, complicated shapes. Assessment of tensile strength R_m (MPa) acc. to EN ISO 18265.



Prerequisite for a steady hardness test: Surface must be clean and smooth according to spec. (DIN 50159-1). In addition the procedures described in the standards need to be considered (DIN 50159, ASTM A 1038).

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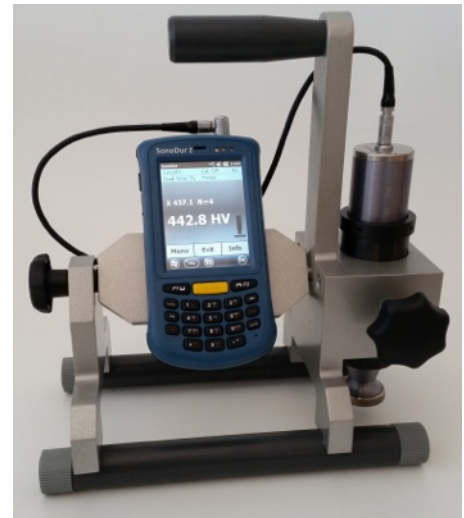
SonoDur2 – Guided Hardness Testing with Precision

The best that money can buy!

Low load motor driven probes on scratch sensitive surfaces.



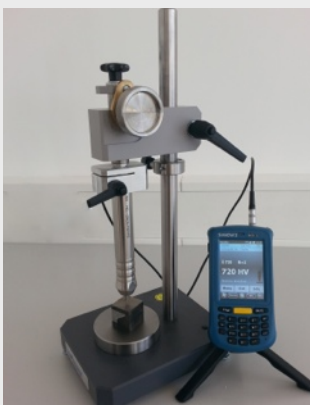
For precise results simply place the probe and measure.



SONO-8M, HV 0.9 (8.6 N): general production control in metal fabrication industries, testing of gear teeth in heat treatment shops (induction hardening), on crankshafts (using protective tube, figure in the middle).

SONO-1M, HV 0.1 (1 N) and **SONO-3M, HV 0.3 (3 N):** very hard surfaces (Plasma-nitrided, Chrome plating >1000HV), very soft and floating materials like Copper plating via penetration time related measurement according to specification between 1 and 99 seconds. Precious (small) parts with damageable surface for material sorting – “non-destructive” hardness measurement.

Exact positioning of handheld probes – special probe grip for best comfort in Hardness testing



Testing of small parts using the modular, mobile test stand SONO-PS1 (left). SONO-S with self-centering feature - the mobile test stand for perfect results on tubes, bars, rolls, profiles etc. (middle). SONO-100H HV 10 (10 kgf) probe with ball head (right), fatigue-free testing especially with high loads.