

Information Measuring Devices: Hardness Tester SD-H3

Order No.: C01-0412



For determination of copper respectively chrome hardness of rotogravure weight have the advantage that they are supposed to be non-destructive as cylinders -simple – fast – accurate. Hardness tests in Vickers range of light the lasting surface indentation is microscopically small.

Measuring is effected by Vickers penetration procedure by electro acoustic evaluation of the indentation (UCI process). Different instrument adjustments (calibration values, penetration times, tolerance thresholds) for various metals can be stored in the device (e. g. copper, chrome, steel, zinc). A transfer to PC via USB interface for long-term storing is possible on a very easy way.

The measuring values and the current average value are shown simultaneously and colored (green = good; red = poor) on the display in Vickers hardness HV. Furthermore, the whole measurement-series (statistic results, single measurement values) can be displayed at a glance.

The Hardness Tester includes the following parts:

- Indicating unit with measuring and control electronics with rechargeable accumulator
- Swivelling housing holder and stable unit stand with tooth rack guide
- Measuring probe with connection cable
- Protection sleeve for the measuring probe
- Charger
- Hardness comparison plate with certificate
- Operation manual
- Communication software

Technical data (subject to technical modifications; Version 06/23):

System (Test unit and probe):

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|---------------------------------|---|
| Method of testing: | UCI method, correspond to DIN 50159 |
| Test force of the probe: | Motor: 3N |
| Test tip: | Vickers diamond 136° |
| Measuring range: | 10–2000 HV |
| Hardness scales: | HV, HRC, HB, etc. according ASTM E140 and EN ISO 18265 for low alloy steel |
| Operating time: | > 10 h or > 500 measurements (dependent on system settings, temperature and operation) |
| Operating temperature/Charging: | 0 until +50 °C / 0 until +40 °C |
| Storage temperature: | -10 until +60 °C |
| Humidity: | max. 90%, not condensing |
| Li-Polymer-Accumulator: | 3,7V / 3900 mAh |
| Monitor: | 5" Multi-Touch Display 1280 x 720 Pixel |
| Storage and data transfer: | System 2 GB LPDD023 / Storage 16 GB eMMC / Micro SD card 4 GB / Data transfer via USB, Bluetooth and WLAN |