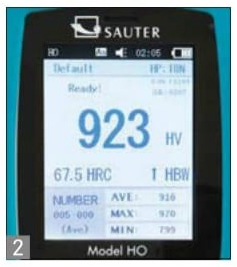
SC METROMAT SRL

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Mobile ultrasound hardness testing device SAUTER HO









Premium UCI hardness testing device for Rockwell, Brinell and Vickers

Features

- **Application:** This ultrasound hardness testing device is ideally suited for mobile hardness testing, where the main emphasis is on obtaining rapid and precise results.
- **Principle:** The SAUTER HO measures using a Vickers diamond tip, which is pressed into the test piece with a defined force. After that the tip is moved into high-frequency ultrasound vibrations. The hardness is derived from the attenuation
- **Examples:** The HO ultrasound hardness testing system is primarily used for measuring small forgings, castings, welding points, punched parts, casting tools, ball bearings and the flanks of gear wheels as well as for measuring the influence of warmth or heat
- **Advantages compared with Rockwell and Brinell:** Less test force and therefore only microscopic, small penetrations means that the testing is less destructive
- **Advantages compared with Vickers:** Demanding optical measuring is not required. You can therefore carry out measurements directly on-site, for example, on a permanently installed workpiece
- **Advantages compared with Leeb:** The high requirements for the weight of the test object are no longer required, in most cases
- **Standards:** The device fulfils these technical standards: DIN 50159-1-2008; ASTM-A1038-2005; JB/T9377-2013
- 2 **Mini statistics function:** Display of the measuring result, the number of measurements, the maximum and minimum value as well as the average value and the standard deviation
- **Measurement data memory** saves up to 1000 measurement groups each with 20 individual values
- **Calibration:** The device can be adjusted to standard hardness comparison plates as well as to individual reference standards
- 1 Scope of delivery: Display unit, UCI sensor unit, transport case, software to transfer the saved data to the PC, accessories

Technical data

- Measuring ranges: HRC: 20,3 – 68; HRB: 41 – 100; HRA: 61-85,6; HV: 80 – 1599; HB: 76 – 618; Tensile strength: 255 – 2180 N/mm²
- Precision: ± 3 HV; ± 1,5 HR; ± 3 % HB
- Measurement time: 2 Sek
- Display units: HRC, HV, HBS, HBW, HK, HRA, HRD, HR15N, HR30N, HR45N, HS, HRF, HR15T, HR30T, HR45T, HRB.
- Rechargeable battery pack integrated, standard, operating time up to 12 h without backlight, charging time approx. 8 h
- Minimum weight of the test object: 300 g for direct measurement with the sensor (included); 100 g with supporting ring (optional)
- Minimum thickness of the test object: 1 mm
- Minimum dimensions the test surface size around: approx. 5 x 5 mm (recommended)
- Overall dimensions WxDxH 160x83x28 mm
- Permissible ambient temperature -10 °C/40 °C
- Net weight approx. 0,7 kg

Accessories

- 3 Support ring, flat, SAUTER HO-A04
- 4 Support ring, small cylinder, SAUTER HO-A05
- 5 Support ring, large cylinder, SAUTER HO-A06
- 6 Deep-hole protective cover, SAUTER HO-A07

STANDARD



OPTION



Model SAUTER	Hardness scale kg		Option ISO Calibration Certificate ISO KERN	
HO 1K	HV 1		961-270	
HO 2K	HV 2		961-270	

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