



NEW **PREMIUM** ★★ ★



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

 <p>Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.</p>	 <p>Data interface Infrared: To transfer data from the balance to a printer, PC or other peripheral devices.</p>	 <p>Battery operation: Ready for battery operation. The battery type is specified for each device.</p>
 <p>Calibration block: standard for adjusting or correcting the measuring device.</p>	 <p>Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.</p>	 <p>Rechargeable battery pack: rechargeable set.</p>
 <p>Peak hold function: capturing a peak value within a measuring process.</p>	 <p>Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements.</p>	 <p>Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.</p>
 <p>Scan mode: continuous capture and display of measurements.</p>	 <p>Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.</p>	 <p>Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.</p>
 <p>Push and Pull: the measuring device can capture tension and compression forces.</p>	 <p>PC Software: to transfer the measurements from the device to a PC.</p>	 <p>Motorised drive: The mechanical movement is carried out by a motorised drive.</p>
 <p>Length measurement: captures the geometric dimensions of a test object or the movement during a test process.</p>	 <p>Printer: a printer can be connected to the device to print out the measurements.</p>	 <p>Fast-Move: the total length of travel can be covered by a single lever movement.</p>
 <p>Focus function: increases the measuring accuracy of a device within a defined measuring range.</p>	 <p>GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers.</p>	 <p>ISO Calibration: The time required for ISO calibration is shown in days in the pictogram.</p>
 <p>Internal memory: to save measurements in the device memory.</p>	 <p>Measuring units: Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.</p>	 <p>Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.</p>
 <p>Data interface RS-232: bidirectional, for connection of printer and PC.</p>	 <p>Measuring with tolerance range: Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.</p>	 <p>Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.</p>
 <p>Data interface USB: To connect the balance to a printer, PC or other peripheral devices.</p>	 <p>ZERO: Resets the display to "0".</p>	 <p>Warranty: The warranty period is shown in the pictogram.</p>

Your SAUTER specialist dealer: