

Analogue Shore hardness tester SAUTER HB



Compact handheld durometer with drag indicator

**Features**

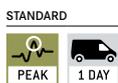
- Typical application: measurement of penetration (Shore)
- Particularly recommended for internal comparison measurement. Standard calibrations e. g. to DIN 48-4 are not possible because of very narrow standard tolerances
- Shore A rubber, elastomers, neoprene, silicone, vinyl, soft plastics, felt, leather and similar material
- Shore D plastics, formica, epoxides, plexiglass etc.
- Shore A0 foam, sponge etc.
- Max mode: Records the peak value indication by drag pointer
- Can be attached to the test stands SAUTER TI-AC (for Shore A and A0), TI-D. (for Shore D)
- **1** Delivery in a plastic box
- The measuring tips are not interchangeable

**Technical data**

- Measuring precision: 3 % of [Max]
- Dimensions W×D×H 60×25×115 mm
- Net weight approx. 160 g
- Screws to screw on to the TI: M7 fine thread
- Material thickness of the sample, min. 4 mm

**Accessories**

- Shore comparison plates for testing and calibration of Shore hardness testing devices. By regular comparison, the measuring accuracy increases significantly.
- **2** 7 hardness comparison plates for Shore A, tolerance up to ± 2 HA, SAUTER AHBA-01
  - **3** 3 hardness comparison plates for Shore D, tolerance up to ± 2 HD, SAUTER AHBD-01
  - Factory calibration of the comparison plates, SAUTER 961-170
  - Test stand for HBA and HB0, SAUTER TI-AC.
  - Test stand for HBD, SAUTER TI-D.



Model	Hardness type	Measuring range	Readout	
<b>SAUTER</b>		[Max]	[d]	
<b>HBA 100-0</b>	Shore A	100 HA	1,0 HA	
<b>HB0 100-0</b>	Shore A0	100 HA0	1,0 HA0	
<b>HBD 100-0</b>	Shore D	100 HD	1,0 HD	

## Pictograms

 <b>Adjusting program (CAL):</b> For quick setting of the instrument's accuracy. External adjusting weight required	 <b>WLAN data interface:</b> To transfer data from the balance/measuring instrument to a printer, PC or other peripherals	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013
 <b>Calibration block:</b> Standard for adjusting or correcting the measuring device	 <b>Data interface Infrared:</b> To transfer data from the measuring instrument to a printer, PC or other peripheral devices	 <b>ZERO:</b> Resets the display to "0"
 <b>Peak hold function:</b> Capturing a peak value within a measuring process	 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <b>Scan mode:</b> Continuous capture and display of measurements	 <b>Analogue interface:</b> To connect a suitable peripheral device for analogue processing of the measurements	 <b>Rechargeable battery pack:</b> Rechargeable set
 <b>Push and Pull:</b> The measuring device can capture tension and compression forces	 <b>Analog output:</b> For output of an electrical signal depending on the load (e.g. voltage 0 V – 10 V or current 4 mA – 20 mA)	 <b>Plug-in power supply:</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version available
 <b>Length measurement:</b> Captures the geometric dimensions of a test object or the movement during a test process	 <b>Statistics:</b> Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 <b>Integrated power supply unit:</b> Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request
 <b>Focus function:</b> Increases the measuring accuracy of a device within a defined measuring range	 <b>PC Software:</b> To transfer the measurement data from the device to a PC	 <b>Motorised drive:</b> The mechanical movement is carried out by a electric motor
 <b>Internal memory:</b> To save measurements in the device memory	 <b>Printer:</b> A printer can be connected to the device to print out the measurement data	 <b>Motorised drive:</b> The mechanical movement is carried out by a synchronous motor (stepper)
 <b>Data interface RS-232:</b> Bidirectional, for connection of printer and PC	 <b>Network interface:</b> For connecting the scale/measuring instrument to an Ethernet network	 <b>Fast-Move:</b> The total length of travel can be covered by a single lever movement
 <b>Profibus:</b> For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference.	 <b>KERN Communication Protocol (KCP):</b> It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems	 <b>Verification possible:</b> The time required for verification is specified in the pictogram
 <b>Profinet:</b> Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible	 <b>GLP/ISO record keeping:</b> Of measurement data with date, time and serial number. Only with SAUTER printers	 <b>DAkKS calibration possible:</b> The time required for DAkKS calibration is shown in days in the pictogram
 <b>Data interface USB:</b> To connect the measuring instrument to a printer, PC or other peripheral devices	 <b>Measuring units:</b> Weighing units can be switched to e.g. non-metric. Please refer to website for more details	 <b>Factory calibration:</b> The time required for factory calibration is specified in the pictogram
 <b>Bluetooth* data interface:</b> To transfer data from the balance/measuring instrument to a printer, PC or other peripherals	 <b>Measuring with tolerance range (limit-setting function):</b> Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
		 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

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