

Professional Shore hardness tester

Features

- **Shore A, 0 and D** to measure the hardness of plastics through penetration measurement
- **Shore A** rubber, elastomers, neoprene, silicone, vinyl, soft plastics, felt, leather and similar material
- **Shore 0** foam, sponge
- **Shore D** plastics, formica, epoxides, plexiglass etc.
- Delivered in a hard carrying case
- Particularly recommended for internal comparison measurement. Standard calibrations e. g. to DIN 53505 are often not possible because of very narrow standard tolerances
- Can be attached to the test stands TI-ACL (for Shore A, A0 and 0), TI-DL (for Shore D) to improve measuring uncertainty
- Large display with backlight
- Selectable: AUTO-OFF function or continuous operation, charge indicator

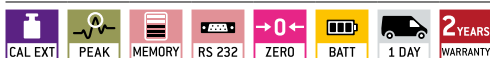
Technical data

- Tolerance: 1 % of [Max]
- Overall dimensions W×D×H 162×65×38 mm
- Net weight approx. 173 g
- Permissible ambient temperature 0 °C/50 °C
- Transfer via RS-232 to the PC, e.g. to Microsoft Excel®
- Measuring frequency: 30 display updates per minute
- Battery operation, batteries standard 2× 1.5V AAA
- Material thickness of the sample, min. 4 mm

Accessories

- **Software**, interface cable included, SAUTER ATC-01
- **7 hardness comparison plates** for Shore A, tolerance up to ± 2 H, SAUTER AHBA-01
- **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 HDA and HD0, SAUTER TI-ACL
- **Test stand** for HDD, see page 51, SAUTER TI-DL

































STANDARD



OPTION



Model	Hardness type	Measuring range		Readout	
		[Max] HS	[d] HS	[d] HS	[d] HS
SAUTER HDA 100-1.	Shore A	100 HA	0,1 HA		
HD0 100-1.	Shore 0	100 HO	0,1 HO		
HDD 100-1.	Shore D	100 HD	0,1 HD		

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

Your SAUTER specialist dealer: