PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

SAUTER HED 100

Shore hardness tester with extensive functionality

ENGLISH



CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

+49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com







APPLICATION EXAMPLE





FEATURES

- To measure the hardness of plastics through penetration measurement
- Different measuring modes: Average value, maximum value, chronological sequence
- Limit alarm function, which triggers an audible and visual signal when the value goes below or above the defined limits
- Entering the workpiece number is possible
- Setting the measuring time from 0 to 99 seconds
- Recommended for internal comparison measurement
- Can be attached to the test stand SAUTER TI-HED to improve the measurement result
- Large display with backlight
- Battery status indicator
- USB data interface, as standard
- Delivered in a robust carrying case

TECHNICAL DATA

- Measuring precision: 1% of [Max]
- Test force hardness measurement: 50 N
- Diameter of measuring probe: 18 mm
- Material thickness of the sample, min. 6 mm
- Internal memory for up to 500 results
- Rechargeable battery pack integrated, as standard, operating time up to 20 h without backlight, charging time approx. 3 h
- Overall dimensions W×D×H 153×50×29 mm
- Net weight approx. 0,15 kg

MAIN SCOPE OF APPLICATIONS

- Plastics technology
- Medical technology
- Automotive industry
- Packaging industry
- Food industry

PICTOGRAMS

Standard



MODEL OVERVIEW

Model		Hardness scales	Measuring range [Max]	Readout [d]
HEA 100	•	Shore A	100	0,1
HED 100	•	Shore D	100	0,1

ACCESSORIES

Model	Description
AHBD-01	Hardness comparison plates AHBD-01
TI-HED	Manual Shore test stand TI-HED, compatible with SAUTER , hardness scale Shore D, hardness test force 50 N

SERVICES

Model	Description
970-103	Warranty extension (+2 years) 970-103

KERN Pictogram Overview

	Peak hold function: capturing a peak value within a measuring process
	Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.
	PC Software: to transfer the measurements from the device to a PC
	Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal
	Rechargeable battery pack: Rechargeable set
	Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
	Package shipment by courier service: The duration of internal product provision is one day

ENGLISH