LEEB HARDNESS TESTER

PCE-950



- **Hardness units: HL, HRC, HRB, HRA, HB, HV, HS**
- **Measures all common hardness parameters**
- **Accuracy: ±6 HL at HL = 790**
- **Impact device: Type D (integrated), small carbide ball**
- **Integrated impact device = no sensor cables**
- **Maximum hardness: 976 HV**
- **Data memory for saving up to 600 readings**
- **PC-compatible software provided**
- **Rechargeable battery with charger**
- **Automatic shutdown and alarm functionality**
- **Pocket-sized device for easy of storage and portability**

A handheld material hardness tester used to determine the hardness of 10 different types of metal (i.e., cast steel, hammered steel, cold-rolled steel, stainless steel, cast iron, ductile iron, aluminum alloy, brass, bronze and forged copper alloy) according to the Leeb rebound method. In addition to Leeb hardness units (HL), the metal hardness tester displays hardness measurements in Rockwell C, Rockwell B, Rockwell A, Brinell, Vickers and Shore hardness units. In this dynamic hardness testing method, a small carbide ball hits the test surface. The quotient of rebound and impact velocity is directly related to the material hardness and can be converted into different hardness scales (i.e., HRC, HRB, HRA, HB, HV and HS).

Thanks to the measuring instrument's compact pocket-sized ergonomic design and integrated impact device, hardness tests can be performed quickly and easily in the field and on the manufacturing production floor. An internal memory offers storage for up to 600 readings, and the included PC-compatible software and USB cable allow for simple and efficient data transfer to a computer for documentation and analysis of hardness test results. Ideal for the incoming and outgoing inspection of metal parts and components, the hardness tester is an essential tool for machinists and manufacturing quality control and assurance professionals. This device comes with an ISO calibration certificate.

Specification

Hardness	
Measuring range	170 ... 960 HLD
Resolution	1 HLD
Accuracy	±6 HLD bei 730 ... 790 HLD / ±10 HLD bei 490 ... 570 HLD

General technical data	
Measuring functions	MIN, MAX
Display Typ	OLED
Display size	2,2 Inch
Storage medium	Internal memory
Storage capacity	600 Data records
Interface	Mini-USB
Materials	Steel, Hammer steel, Cold rolled steel, Stainless steel, Cast iron, Spheroidal graphite cast iron, Cast aluminum alloy, Brass, Bronze, Forged copper alloy
Operating time	50 h
Automatic power-off	5 min.
Repeatability	10 HLD
Measuring angle	360 °
Impact device	Type D
Hardness scales	HL, HB, HRC, HRB, HRA, HV, HS
Menu language	English (US)
Protection class (device)	IP20
Power supply	100 ... 240V AC | 50/60 Hz
Connector type	Device Europlug
Battery/battery	1 x 3,7 V LP562438 , Lithium-ion polymer battery
Battery capacity	500 mAh
Operating conditions	-10 ... 40 °C , 0 ... 90 %RH
Storage conditions	-10 ... 40 °C , 0 ... 90 %RH
Dimensions (L x W x H)	153 x 54 x 24 mm
Weight	250 g