

Handheld Material Hardness Tester for Metals PCE-950



PCE-950 Handheld Material Hardness Tester

For use with cast steel, hammered steel, cold-rolled steel, stainless steel, cast iron, ductile iron, aluminum alloy, brass, bronze and forged copper alloy metals

PCE-950 is 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 PCE-950 hardness tester is an essential tool for machinists and manufacturing quality control and assurance professionals.

- ▶ 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
- ▶ For use with cast steel, hammered steel, cold-rolled steel, stainless steel, cast iron, ductile iron, aluminum alloy, brass, bronze and forged copper alloy metals

Subject to change

Specifications

Hardness measuring range bymaterial

Cast steel	HRC: 19.8 ... 68.5
	HRB: 59.6 ... 99.6
	HRA: 59.1 ... 85.8
	HB: 80 ... 651
	HV: 83 ... 976
Hammered steel	HS: 32.2 ... 115
	HB: 143 ... 650
Cold-rolled steel	HRC: 20.4 ... 67.1
	HV: 80 ... 898
	HRB: 45.5 ... 101.7
Stainless steel	HB: 85 ... 655
	HV: 85 ... 802
Cast iron	HB: 93 ... 334
Ductile iron	HB: 131 ... 387
Aluminum alloy	HRB: 23.8 ... 84.6
	HB: 19 ... 164
Brass	HRB: 13.5 ... 95.3
	HB: 40 ... 173
Bronze	HB: 60 ... 290
Forged copper alloy	HB: 45 ... 315

General specifications

Accuracy	± 6 HL at 730 ... 790 HL
	± 10 HL at 490 ... 570 HL
Repeatability	6 HL at 730 ... 790 HL
	10 HL at 490 ... 570 HL
Total measuring range	170 ... 960 HL
	HL (HLD): Leeb (Type D impact device)
Hardness scales	HB: Brinell
	HRC: Rockwell C
	HRB: Rockwell B
	HRA: Rockwell A
	HV: Vickers
	HS: Shore
Impact device	Type D
Measuring direction	360°
Display	128 x 32 OLED
Data storage	Internal memory saves up to 600 readings
Power supply	Built-in rechargeable Li-ion battery
Battery life	Approx. 50 hours
Data interface	Mini USB
Dimensions	Approx. 153 x 54 x 24 mm / 6.02 x 2.13 x 0.95in
Weight	Approx. 250 g / < 1 lb

More information

Manual



More product info



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