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Technical Hardness Tester PCE-2500N

PCE-2500N Material Hardness Tester for Metals

Portable handheld pen-sized durometer for use with steel, iron, aluminum, brass, bronze, copper and more

PCE-2500N is a portable handheld pen-sized digital material hardness tester, rebound hammer or durometer for use with metals. This high-accuracy hardness tester quickly and accurately measures the surface hardness of 10 common metal materials including steel, cast steel, alloy tool steel, stainless steel, cast iron, ductile iron, cast aluminum alloy, brass, bronze and copper.

- Displays measurements in Rockwell A, B or C (HRA, HRB or HRC), Brinell (HB), Vickers (HV), Shore (HS) or Leeb (HLD)
- Measurement ranges: HLD 170-960 / HRC 17.9-69.5 / HRB 3.5-101.7 / HB 19-683 / HV 80-1042 / HS 30.6- 102.6 / HRA 59.1-88
- Accuracy: ± 0.5 HLD
- Type D impact device
- Measuring principle: Rebound method
- For use with metal materials
- Pocket-sized design
- Rechargeable Li-ion battery
- Internal read-only memory

Technical specifications:

Measuring ranges HLD: 170 ... 960
 HRC: 17.9 ... 69.5
 HB: 19 ... 683
 HV: 80 ... 1042
 HS: 30.6 ... 102.6
 HRA: 59.1 .. 88
 HRB: 3.5 ... 101.7

Measurement accuracy HLD: $\pm 0.5\%$

Measuring principle Rebound method

Impact device Type D striker

Display	128 x 64 OLED
Repeatability	HLD: $\pm 0.8\%$
Hardness max.	1042 HV
Measurement units	HLD, HRC, HB, HV, HS, HRA, HRB
Running time	Approx. 10 hours of continuous use at full charge
Power supply	Rechargeable Li-ion battery
Storage conditions	-30 ... +60 °C / -22 ... +140°F, <90% RH
Operating conditions	-10 ... +50 °C / +14 ... +122 °F, <90% RH
Dimensions	148 x 32 x 25 mm / 5.83 x 1.26 x 0.99"
Limit alarm	Yes
Automatic shutdown	Yes
Weight	650 g / 1.44 lbs
Materials	Steel Cast steel Alloyed tool steel Stainless steel Cast iron Ductile iron Cast aluminum alloy Brass Bronze Copper

Measuring ranges on various material surfaces

Steel	HRC: 17.9 ... 68.5 HRB: 59.6 ... 99.6 HRA: 59.1 ... 85.8 HB: 127 ... 651 HV: 83 ... 976 HS: 32 , 2 ... 99.5
Tool steel	HRC: 17.9 ... 68.5 HRB: 59.6 ... 99.6 HRA: 59.1 ... 85.8 HB: 127 ... 651 HV: 83 ... 976 HS: 32 , 2 ... 99.5
Stainless steel	HRB: 46.5 ... 101.7 HB: 85 ... 655 HV: 85 ... 802
Cast iron	HB: 93 ... 334
Brass	HRB: 13.5 ... 95.3 HB: 40 ... 173
Bronze	HB: 60 ... 290
Copper	HB: 45 ... 315

Delivery contents:

- 1 x PCE-2500N material hardness tester for metals
- 1 x charging cable
- 1 x test block
- 1 x cleaning brush
- 1 x user manual
- 1 x carrying case