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## Technical Material 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:  $\pm 0.5$  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
<b>Materials</b>	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