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## Technical Durometer 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