

HARDNESS TESTER

TECHNICAL DATA



FEATURES

- Rebound hardness testing is particularly useful for large, coarse grained materials, forged parts and all types of cast materials because the spherical tip of the impact device processes the characteristics of the casting structure better
- Measures the velocity of a propelled impact body directly before and after the impact onto the test material's surface; the impact creates a plastic deformation of the surface, i.e. an indentation, due to which the impact body loses part of its original speed - or energy. The ratio between both velocities indicates the hardness of the material (it will lose more velocity when creating a bigger indentation on softer material)
- Capable of automatically converting and displaying measurements into Rockwell (HRC, HRB, HRA), Brinell (HB), Leeb (HL), Vickers (HV) and Shore (HS) hardness values
- Materials that can typically be tested include cast steel, alloy tool steel, stainless steel, aluminum, bronze, copper, cast irons, etc.
- Conversion of measurements to tensile strength (U.T.S.)
- Large capacity memory can store up to 350 groups of information (depending upon impact times) including measurement value, mean value, testing date, impact direction, impact times, material and hardness scale
- Real-time clock
- Mini USB data interface
- Operates on a rechargeable lithium battery
- 128 x 32 dot matrix LCD with battery life display

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- Includes main unit, universal D impact device, small supporting ring, Leeb test block, nylon brush, battery charger, data processing software, and communication cable
- Ideal for hardness testing of large and heavy objects; in production lines of mass produced components; materials identification in stores and warehouses; and in locations with difficult access, or in confined spaces

SPECIFICATIONS

Hardness Scale: HL, HRC, HRB, HRA, HV, HB, HS
Measuring Range: HLD: 170 to 960; HRA: 59 to 85;
HRB: 13 to 100; HRC: 20 to 68; HB: 19 to 651;
HV: 80 to 967; HS: 30 to 100
Measuring Direction: 360°
Display: 128 x 32 dot matrix LCD
Communication Port: Mini USB
Internal Memory: 48 to 350 groups of data
Power Supply: Rechargeable Li battery, 3.7V
Battery Life: Approx. 12h continuous use
Dimensions: 146 x 30 x 25mm
Weight: 110 g

ORDERING INFORMATION

R9030Hardness Tester