Advancing with Technology

ElektroPhysik

ERICHSEN

Hardness testing

Rocky

Portable hardness tester

- measures in most hardness scales: Rockwell C (HRC), Rockwell B (HRB) Vickers (HV), Brinell (HB), Shore (HS) Leeb (HL)
- conversion to U.T.S.
- tests at any angle, even up-side-down
- integral/removable printer

Rocky Hardness testing

Application

The portable hardness tester Rocky is designed for the universal use in the laboratory or in workshops.
It is easy to use with a very low tolerance of ± 0.8 %.
The measuring principle uses the difference between the impact and rebound speed of a small impact body.
This impact body bounds on the surface of a metal piece by the force of a spring.
There are different impact devices available for different materials and geometries.
Besides hardness testing the gauge can measure the U.T.S..
A statistical program shows the mean value, the standard deviation, number of readings, max. and min. value.

Typical application

- Heavy individual parts or machine parts
- Testing in a production line
- Material identification
- Mould surface of a die

Preconditions to measure

- Minimum measuring area 10 mm x 10 mm.
- Minimum curvature radius 30 mm (without adapter). With adapter the minimum curvature is 11 mm.
- Parts of less than 5 kg and very thin parts must be placed on a solid base.
- Parts of less than 2 kg have to be placed on a solid base using the coupling liquid.

Measuring range

- HRC 20 to 68, HRB 13 to 100
- HB 30 to 650, HV 80 to 980
- HSD 32 to 100, HL 200 to 900

Delivery

- Gauge including printer, measuring standard (steel block)
- Mains unit, plastic carrying case

Technical data

- Dimension of the gauge incl. printer: length x width x height = 270 mm x 86 mm x 47 mm
- Weight incl. printer: 650 g
- Tolerance: ± 0.8 %
- Statistics: mean value, standard deviation min. and max. reading, number of readings
- Print-out of readings
- Operating temperature:
  Electronics: –10 °C to +45 °C
  Impact device: –20 °C to +120 °C
  Measuring range for the U.T.S. of metallic material: 370 to 2,000 Mpa
  (1 Mpa = 106 N/m²)
  U.T.S. measurement for e.g. steel, stainless steel etc.
- Impact device D standard version to measure hardness of metals, e.g.: steel, casting steel, cold-work tool steel, stainless steel, cast iron (gray cast iron, nodular cast iron), aluminium cast alloy, brass, bronze, copper forging

Special impact devices

- DC: extremely short to use in holes, cylinders etc.
- D+15: to measure in grooves and on recessed surfaces
- C: reduced impact energy (appr. 25 %) for e.g. coatings
- G: increased impact energy (appr. 9 times) for e.g. heavy castings and forgings
- E: for very hard pieces up to 1200 HV

ERICHSEN
4, passage saint-Antoine 92508 Rueil-Malmaison cedex
Tel.:+33 (0)1 47 08 13 26 Fax.:+33(0)1 47 08 91 38
www.erichsen.fr infor@erichsen.fr

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