

3106 HARDNESS TESTER

EN

ASTM
F36

ASTM
E18

ASTM
D785

DIN
EN ISO
2039-1

DIN
EN ISO
6508-1

DIN
EN ISO
24343-1

DIN
EN IEC
413

DIN EN
13279

DIN
51917

DIN
1996-
13

For ball indentation hardness / Rockwell hardness

Modular measuring device with digital unit for the assessment of ball pressure or Rockwell hardness, on carbon and graphite materials, metals, polymers, building materials, floor coverings or asphalt.



The 3106 testing device has a very variable use, being suitable for the determination of ball indentation or Rockwell hardness on different materials. According to the previously-installed module, the 3106 calculates the hardness of metals, carbon materials, plastics, plaster, gypsum, floor coverings or asphalt, according to the corresponding standard.

Different indenters and load weights are available, matching both the material and test method. The initial load is applied to the test specimen using the knurled wheel, while the main load is lowered through the use of the hand lever. The integrated oil brake guarantees that the indenter touches the specimen in a gentle manner. The electronic unit determines the different penetration depths, as well as the material hardness.

MEASURING METHODS

Ball indentation hardness

Rockwell hardness

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MAIN CHARACTERISTICS



Software modules for defined standards

Ball indentation and Rockwell hardness

Braked load lowering

Electronic determination of the penetration depth

TECHNICAL SPECIFICATIONS

 **Measurements** W x D x H: 440 x 230 x 600 mm

 **Weight** 70 kg

SCOPE OF DELIVERY

Test stand with measuring table and electronic unit

Software module (basic equipment: HPU-1)

Operating manual

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ACCESSORIES



Software module HPU-1 (basic equipment)

assessment of the ball indentation hardness, with the use of a standard table, hardness test on asphalt according to DIN 1996-13; determination of compression and re-expansion according to ASTM F 36-99; load level 49 N and pre-force 9.81 N



Software module HPU-4

Rockwell hardness on carbon materials DIN 51917 / DIN EN IEC 413



Software module HPU-5

hardness of building plaster according to DIN EN 13279



Software module HPU-2

ball indentation hardness according to DIN EN ISO 2039-1



Software module HPU-3

Rockwell hardness on metal according to DIN EN ISO 6508-1 / ASTM E 18 / ASTM D 785

REFERENCE

The 3106 testing device determines the ball indentation or Rockwell hardness on different materials, according to defined standards. To calibrate and assess the penetration depth measurement of the 3106, use our patented Kal-Rock measuring device.

MADE IN GERMANY SINCE 1954.

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Deutsche
Akkreditierungsstelle
D-K-15206-01-00

The accreditation is valid for the scope listed in certificate D-K-15206-01-00 (mechanical measurands in the range of hardness).