



ROCKWELL HARDNESS TESTER

SM1015 MKIII

An entry-level instrument for educational purposes to introduce students to the science of hardness testing to industrial standards for accurate measurements of Rockwell hardness.



KEY FEATURES

- Industrial instrument specifications
- Fully automatic testing cycle eliminates operator influence on test results
- Adjustable dial indicator with 0.5 HR Rockwell units
- High level of test result repeatability
- Robust construction with a play-free screw spindle running on ball-bearings
- Choice of preloading ranges:
 - Preload: 10kgf
 - Main loads: 25, 30, 31.25, 60, 62.5, 100, 125, 150, 187.5kgf

LEARNING OUTCOMES

- Hardness testing using classical Rockwell methods according to ISO 6508, ASTM E18, JIS Z 2245

KEY SPECIFICATIONS

- Workspace up to 260 mm high enables large workpieces to be tested
- Automatic loading control
- 0.5 unit resolution



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DESCRIPTION

The SM1015 MKIII performs Rockwell or superficial Rockwell hardness tests in accordance with established specifications, including BS EN ISO 6508 and ASTM E18.

The instrument is supplied with a diamond cone indenter and a 1/16" diameter ball indenter, as standard.

The SM1015 MKIII is an industrial standard instrument and if used in accordance with the following instructions, and given reasonable care and attention, it will maintain accurate and reliable hardness scales.

STANDARD FEATURES

- Supplied with a comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives



ACCESSORIES (INCLUDED AS STANDARD)

- 1 x Diamond Indenter
- 1 x Ball Indenter 1/16"
- 1 x Ø180mm Testing Table
- 1 x 60HRC Rockwell Reference Block
- 1 x 90HRB Rockwell Reference Block
- 1 x Machine cover

RECOMMENDED ANCILLARIES

- Hardness Tester Table (SM101X-A)
- V-Anvil 6-60 mm (SM101X-B)
- V-Anvil 10-100 mm (SM101X-C)
- V-Anvil 3.3-20 mm (SM101X-D)

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Laboratory

OPERATING TEMPERATURE:

10°C to 35°C

HUMIDITY:

10% to 90%, non-condensing

SOUND LEVELS:

Less than 70 dB(A)

ESSENTIAL SERVICES

BENCH SPACE REQUIRED:

700 x 700 x 800 mm

ELECTRICAL SUPPLY:

Single-phase, 240/120 VAC, 50/60 Hz, (switchable), 3 A

DETAILED SPECIFICATIONS

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

NET DIMENSIONS AND WEIGHT:

- Height 765 mm x width 270 mm x depth 555 mm
- 104 kg

APPROXIMATE PACKED DIMENSIONS AND WEIGHT:

- Height 101 mm x width 54 mm x depth 88 mm
- 160 kg

STANDARD SPECIMEN ACCOMMODATION VERTICAL:

- 240 mm (9.45")
- Throat: 150 mm (6")