SM1016

VICKERS HARDNESS TESTER

A bench-top industrial-standard tester for accurate measurements of Vickers hardness.

KEY FEATURES

- Industrial instrument specifications
- Capable of performing tests using forces: 1, 3, 5, 10, 20, 30 kgf
- Dead weight load application provides long-term test force stability
- Unique nose-mounted indenter, allows access to awkward-to-reach test points
- Fully automatic testing cycle – eliminates operator influence on the test results
- Alarm to warn of aborted test, ensuring a valid test has been completed
- Calculation of average ($\bar{x}$) and range ($R$)
- Audible and visual indication of “out of tolerance” results, eliminating operator decisions

LEARNING OUTCOMES

- Vickers testing to ISO 6507, ASTM E92 and ASTM E384, UKAS accredited

KEY SPECIFICATIONS

- Variable dwell times, 1 to 50 s.
- UKAS accredited indenters
- Measuring resolution: 0.1 µ e.g. 0.2468 mm, 0.1 HV, e.g. 527.4 HV 10
- Load/scale selection: lever-operated
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DESCRIPTION
The machine performs the Vickers hardness test, in accordance with established specifications including BS EN ISO 6507 and ASTM E92.

The machine is provided with a backlit LCD display. It is used to display measured hardness results, to monitor the progress of the test and to display information that may be required when setting up the machine for a variety of parameters.

The serial interface on the Vickers hardness testing machine provides the ability to print out results on a standard printer, or to communicate data to a PC.

The SM1016 is an industrial 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
- ISO9001 certified manufacturer

ACCESSORIES (INCLUDED AS STANDARD)
- One diamond pyramid indenter
- 1 x 70 mm diameter flat anvil
- Machine cover

RECOMMENDED ANCILLARY
- Reference test blocks with UKAS certificates (HTB-V)

OPERATING CONDITIONS
OPERATING ENVIRONMENT:
Laboratory

SOUND LEVELS:
Less than 70 dB(A)

ESSENTIAL SERVICES
BENCH SPACE REQUIRED:
900 x 600 x 1100 mm

ELECTRICAL SUPPLY:
3 A single-phase, 240/120 V switchable

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

NETT DIMENSIONS AND WEIGHT:
- Height 782 mm x width 348 mm x depth 700 mm
- 90 kg

APPROXIMATE PACKED DIMENSIONS AND WEIGHT:
- 840 x 550 x 1000 mm, 0.47 m³
- 105 kg

STANDARD SPECIMEN ACCOMMODATION VERTICAL:
250 mm (10"), Throat: 150 mm (6")

782 mm
348 mm
700 mm