



## VICKERS HARDNESS TESTER

SM1016 MKIII

An industrial-standard tester for accurate measurements of Vickers hardness.



### KEY FEATURES

- Industrial instrument specifications
- Multi-load cell, closed loop, force feedback system for high accuracy and repeatability
- Fully automatic testing cycle, eliminates operator influence on the test results
- Calculation of average range and standard deviation in real-time:
  - Statistics total test, max, min, average, range, standard deviation, all in real time after each test
  - Hardness conversion to Rockwell, Rockwell Superficial, Vickers, Brinell, Knoop, Leeb & Tensile
- 6.5" touch-screen display

### LEARNING OUTCOMES

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

### KEY SPECIFICATIONS

- User defined dwell times
- Capable of performing testing using 200 gf - 31.25 kgf force



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SM1016 MKIII

## DESCRIPTION

The SM1016 MKIII performs the Vickers hardness test, in accordance with established specifications including: ISO 6507 / ASTM E384, E92 / JIS B 7725.

The SM1016 MKIII is provided with an LCD display which 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 testing machine provides the ability to print out results on a standard printer, or to communicate data to a PC.

The SM1016 MKIII 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



## ACCESSORIES (INCLUDED AS STANDARD)

- 1x Micro Vickers Indenter
- 1x Electronic Digital Eyepiece
- 1x Ø60mm Flat Anvil
- 1x Macro Vickers Reference Block
- 1x 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)
- X-Y Micrometer Stage (SM101X-E)

## 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:

3 A single-phase, 240/120 V switchable

## 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 775 mm x width 351 mm x depth 528 mm
- Weight 86 kg

### APPROXIMATE PACKED DIMENSIONS AND WEIGHT:

- Height 1080 mm x width 530 mm x depth 930 mm
- Weight 143 kg

### STANDARD SPECIMEN ACCOMMODATION VERTICAL:

- 240 mm (9.45")
- Throat: 170 mm (6 1/2")