



## BRINELL INDENTER

SM1000E

Fits in the Universal Testing Machine (SM1000) for Brinell hardness tests.



### KEY FEATURES

- Fits in the compressive test area of TecEquipment's Universal Testing Machine (SM1000) for Brinell hardness tests of different materials
- Includes magnifier with graticule to accurately measure the indentation
- Includes specimens of different basic engineering materials
- Works with TecEquipment's hardness test specimens (HTP)



# BRINELL INDENTER

SM1000E

## DESCRIPTION

The Brinell Indenter (SM1000e) fits in the area above the loading platform of TecQuipment's Universal Testing Machine (SM1000).

The indenter uses a hardened steel ball in a holder that pushes down onto a suitable test specimen and creates a small dent. The hand-held magnifier has a measurement scale or 'graticule' for accurate measurement of the dent. Using the dimensions of the dent, the indenter ball and the force applied gives the Brinell hardness number of the specimen material. TecQuipment include a set of their hardness test (HTP) specimens with this product.

## STANDARD FEATURES

- Five-year warranty
- Manufactured in accordance with the latest European Union directives
- ISO9001 certified manufacturer

## LEARNING OUTCOMES

- Brinell hardness tests of different basic engineering materials

## ESSENTIAL BASE UNIT

- Universal Testing Machine (SM1000)

## RECOMMENDED ANCILLARIES

- Extra hardness specimens (HTP) – see separate datasheet

## OPERATING CONDITIONS

### OPERATING ENVIRONMENT:

Laboratory environment

### STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

### OPERATING TEMPERATURE RANGE:

+5°C to +40°C

### OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

## 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.

### APPROXIMATE NETT WEIGHT:

2 kg

### APPROXIMATE PACKED VOLUME:

0.02 m<sup>3</sup>

### BALL INDENTER:

Hardened steel 10 mm diameter

### HARDNESS TEST SPECIMENS INCLUDED (5 OF EACH):

- HTPAL aluminium
- HTPBR brass
- HTPMS 0.1% carbon steel
- HTPNY nylon