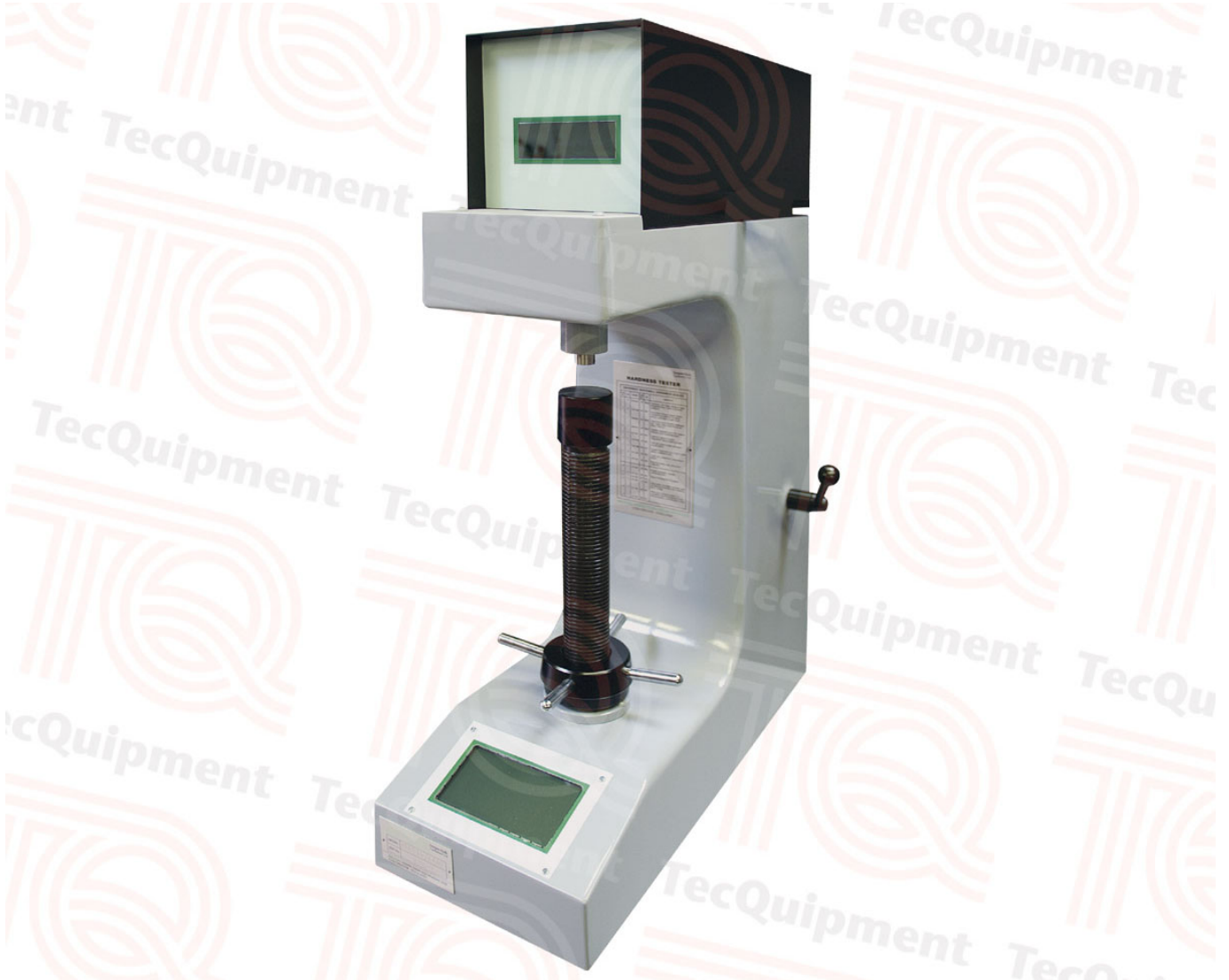


MAT25

Rockwell and Brinell Hardness Tester - Digital

Compact, microprocessor-controlled tester for Rockwell and Brinell tests of material hardness



- For Rockwell and Brinell hardness tests
- Compact – will fit on strong bench or worktop
- Menu-driven, touch-screen control
- Statistics printout – needs printer or computer (not included)
- Preload control and automatic reset
- Robust, totally enclosed anti-deflection frame
- Digital display
- Can connect to a computer with optional PC software (MAT24c)

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- An ISO 9001 certified company

MAT25

Rockwell and Brinell Hardness Tester - Digital

Description

A combined hardness tester to measure hardness of metals and alloys of all types. It can test hard or soft metals or alloys that are flat, round or irregular in shape, as well as plastics.

This machine gives reliable results demanded by laboratories, tool rooms, inspection departments and educational institutions. It performs Rockwell and Brinell hardness tests and gives a direct digital readout of the test hardness figures. It includes a statistical data facility with an output to connect to a printer or computer (computer and printer not included).

A 'statistics' printout shows the number of tests outside the upper and lower limit values.

Unloading the machine after a test automatically resets the machine for the start of the next test.

The robust frame encloses and keeps the mechanism free from dust and dirt for lasting accuracy. A workpiece clamp simplifies the test procedure and prevents overloading of minor load as well as protecting the indenter.

The machine includes indenters, anvils and test blocks.

Standard Features

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

Note: TecEquipment supplies this product because it is a useful addition to materials testing laboratories. TecEquipment does not manufacture this product. It is a laboratory standard tool for material tests, so it does not include experiments or educational material.

Recommended Ancillaries

- Brinell Microscope: x25 magnification (MAT1a)
- PC Interface Software and Comms Cable (MAT24c).
Note: Your PC must have Microsoft® Access installed.
- Set of Additional Anvils and Indenters (MAT10f) – Bigger anvils and indenters for larger specimens and/or softer materials. It includes:
 - Flat anvil 200 mm, hardened and ground
 - Raised centre spot anvil 16 mm, hardened and ground
 - 'V' (Vee) anvil 70 mm hardened and ground
 - 3.175 mm (1/8 in) x 6.350 mm (1/4 in) for softer metals such as aluminium and lead
 - 12.7 mm (1/2 in) diameter ball indentors for plastics

Material Tests

- Rockwell and Brinell hardness tests

Essential Services

Bench space needed:

500 mm x 700 mm

You must use the tester on a strong bench.

Electrical supply:

240 V single-phase, 50 Hz (other supplies available on request)

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

Nett dimensions and weight:

500 mm x 300 mm x 800 mm and 80 kg

Packed dimensions and weight:

Approximately 0.26 m³ and 120 kg

Other parts supplied with the tester:

- Weights for Rockwell and Brinell tests at loads of 60 kgf, 100 kgf and 150 kgf, 187.5 kgf
- 50 mm diameter flat anvil
- 50 mm diameter Vee anvil
- Diamond indenter – Rockwell
- 1.588mm (1/16") diameter Ball indenter – Rockwell
- 2.5 mm diameter Ball indenter – Brinell
- Test block – Brinell
- Test block – Rockwell B
- Test block – Rockwell C
- Workpiece clamp
- Dash-pot oil
- Instruction manual and conversion card

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