



**M4U 025/075 G3**  
**M4U 250/750 G3**

**Universal hardness  
testing machines  
of the 3<sup>rd</sup> generation**

**EMCO-TEST**  
YOUR FACTOR OF SAFETY.

## Basic machine:

Universal hardness tester for all standardized test processes such as Brinell, Vickers, Rockwell, Knoop and plastic processes.

Brinell, EN ISO 6506 / ASTM E10 • Vickers, EN ISO 6507 / ASTM E92 • Rockwell, EN ISO 6508 / ASTM E18.

Brinell and Vickers indentations can be easily measured by means of an incremental linear scale.

Automatic focussing.

Testing load ranges: 9.81 N – 2450 N for type M4U 025/250 G3 or 29.4 N – 7350 N for type M4U 075/750 G3

Machine body made of cast iron and ergonomically designed.

Test anvil movement via hand wheel (M4U 025 G3/M4U 075 G3) or motor-driven test anvil (M4U 250 G3/M4U 750 G3).

Electronic test forces via load cell, closed loop and machine software.

Selection of the test method, tolerance limits and testing cycle time via LCD operating surface with touch screen.

Objectives and indenters at the motor-driven swivelling body can be changed manually.

Fivefold measurement turret M4Z 600 as an option.

Conversion of hardness values according to EN ISO 18265 (DIN 50150).

The software includes extensive data management (import/export function) and statistics functions.

With the new generation of M4U hardness testing machines even the occasional testing of components is made very easy.

## Advantages of the 3<sup>rd</sup> generation:

- Very easy to operate by optimum user guidance and self-explanatory menus.
- Easy selection of all settings via drop-down menus.
- The hardness tester automatically saves test parameters and test results.
- Clearly structured data management with efficient import and export functions.
- Report forms ready for printing via USB interface.
- Possibility to select user groups with different authorizations.
- Compatible to software ecos basis.

## Technical data:

TFT LCD monitor 6.2“, 150 x 60 mm, 640 x 240 pixel.

Operation via touch screen with large and clearly arranged operating elements.

Matt screen to display the test indentation (e.g. Vickers, Brinell), lighting by halogen lamp.

2 USB interfaces, 1 RS232 interface and 1 RJ45 100 MBit network interface (Ethernet) for the data transfer to PC or network.

Possibility to connect a printer to the USB interface to print reports (direct printout from the hardness testing machine without additional PC).

Objectives with magnifications: 15x / 40x / 95x / 190x / 370x / 450x

Testing height and mount capacity: maximum 260 mm testing height – M4U 025/075 G3  
maximum 200 mm mount capacity – M4U 025/075 G3  
maximum 215 mm testing height (M4U 025/075 with turret)  
maximum 305 mm testing height – M4U 250/750 G3  
maximum 260 mm testing height (M4U 250/750 G3 with turret)  
maximum 190 mm mount capacity – M4U 250/750 G3

Power supply: 230 V / 50/60 Hz  
110 V / 50/60 Hz

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