



**V4C 250/750 G3**  
**V5C 300 G3**

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

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## Testing of large, heavy workpieces

With the new machines of the V-series, testing of large or heavy parts on the fixed testing platform 800 x 600 mm is no problem at all. These machines are a completely new development. The testing unit is traversed to the workpiece by means of a motor – a system that has been applied only for large inline hardness testers up to now. A testing height up to 730 mm and a mount capacity of 400 mm also enables the testing of bulky parts in a very short time. According to the machine configuration, the machine can handle loads between 9.81 N (HV1) up to 29430 N (HBW10/3000).

## Fully automatic evaluation (V4C G3 / V5C G3)

The fully automatic evaluation via camera and software is made possible by the special brightness control and the automatic focussing of the indentation. The TFT display with touch-screen operation is mounted on the front of the machine and shows settings and displays.

## Implementation of customer-specific conveyor systems

Various slide and conveyor systems can be optionally added and make an individual adaptation to customer-specific components and their infeed possible. The machine can be extended to a fully automatic hardness tester.

## Highlights:

- Universal, industrially usable measurement systems (V4C G3 / V5C G3).
- Conceived for the automated hardness testing process in combination with customized workpiece conveying and positioning systems.
- Vertically moved measurement system with test strokes of approx. 600 mm and a mount capacity of 400 mm.
- Standardized, testing methods for Brinell (ball diameter 1/2.5/5/10), Vickers and Rockwell. Brinell, EN ISO 6506 / ASTM E10 • Vickers, EN ISO 6507 / ASTM E92 • Rockwell, EN ISO 6508 / ASTM E18.
- Fully automatic image analysis of the Brinell and Vickers indentations by means of a high resolution 1/2" camera, 1280 x 1024 pixel, TFT LCD monitor 8.4", 170 x 130 mm, 800 x 600 pixel, automatic focussing and evaluation software.
- Electronic test forces via load cell, closed loop and machine software.
- Steel structure pedestal laid out for heaviest loads of conveyor systems or workpieces.
- Conversion of hardness values according to EN ISO 18265 (DIN 50150).
- The software includes extensive data management (import/export function) and statistics function.
- The new generation of V4/V5 hardness testing machines ensures very flexible and easy testing of components.
- 2 USB interfaces, 1 RS232 interface and 1 RJ45 100 MBit interface (Ethernet) for 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).

## 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.

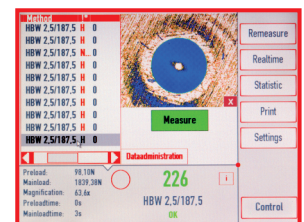


## Technical data:

Outside dimensions approx. (W x H x D) 800 x 2060 x 1350 mm

Weight approx. 1100 kg

Testing platform 800 x 600 mm



Type	load range	testing height	test stroke	mount capacity
V4C 250 G3	9.81 N (HV1) – 2450N (HBW 5/250)	135 – 730	595	400
V4C 750 G3	29.4 N (HV3) – 7350N (HBW 5/750)	135 – 730	595	400
V5C 300 G3	196 N (HV20) – 29430N (HBW 10/3000)	100 – 730	600	400

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