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Press information

Pushing it hard: The MITUTOYO Vickers HV-100 and Micro Vickers HM-200 series hardness testers

MITUTOYO, the Japanese metrology specialists, push forward their range of hardness testing machines and have introduced a new generation of their HV-100 series Vickers and their HM-200 Micro Vickers hardness testing machines. The new devices come in a choice of four different variants with manual or motorised stage and touchscreen or PC control.

Neuss, March 2016. The premium manufacturer of precision dimensional measuring equipment MITUTOYO dedicates to further extension and advancement of their range of hardness testing machines. A new generation of their tried and tested Vickers hardness testers of the HV-100 and HM-200 series has entered the European markets. The systems provide ideal solutions for accurate and repeatable measuring in accordance with ISO 6507-2 and JIS B 7725.

Both are available in four types named A through D, ranging from a highly evolved basic model operated via a touch panel up to an all sophisticated software-controlled model with autofocus function and – in the case of HM-200 – a motorised stage. The HV portfolio offers the choice between a low test force type (HV-120), which also supports some parts of the low force Vickers as well as the conventional Vickers range, and a general purpose type (HV-110) supporting the conventional test force range.

The A-types of both models are operated by an easily operable colour touch-panel and constitutes the basic type of the model range. The high-performance motorised test force switching function and the motorised turret mounts are engaged via the touch panel. The types B, C and D are controlled by the highly sophisticated AVPak-20 V2. The dedicated image analysis software enables automatic indentation, excellent automatic edge detection capability and completely eliminates reading variations and visual error, eliminating operator measurement errors. The sophisticated program supports control, testing and report creation and is capable of automatic switching of the indenter and the objective lens.

The B-types are equipped with a manual stage, the C-types feature a motorised stage that makes for quick movement and saving of time. The type D variants boast an automatic autofocus function, contributing to ease of use, measurement reliability and safety.

Amongst others, MITUTOYO has significantly improved AVPak-20 V2's automatic readout. It adopts an Auto trace function, images stitching and a contour detection feature.

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