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Press information

High performance re-launched: MITUTOYO releases new Micro-Vickers HM-200 series hardness testers

The Japanese manufacturer of precision measuring equipment MITUTOYO caps it all by introducing a new sophisticated generation of the HM-200 series Micro-Vickers Hardness Testing Machine. The new device comes in a choice of four different variants with manual or motorized stage and touchscreen or PC control.

Neuss, March 2015. The tried and tested MITUTOYO Micro-Vickers hardness testers of the HM-200 series are popular throughout the branches for reviewing the hardness of metals. Four different variants have been on the customers' disposal. Now the Japanese hardness testing experts launch a highly refined new generation, ideal for quality control and mechanical characteristics evaluation using Vickers hardness testing of small areas, in accordance with ISO 6507-2 and JIS B 7725.

The new MITUTOYO HM-200 series is – like the predecessor – available in four types labelled A through D, ranging from an all-in-one model with touch panel operation up to the top end device with motorized stage and autofocus function. The test force can be adjusted between 0,4903 mN and 19610 mN.

With a fully re-designed, easily operable touch-panel control and a USB interface for data readout to a memory stick, the HM210/220A constitutes the basic type of the model range. The positions of the indenter and the objective lens can be automatically switched using touch panel operation, or manually. The B-type features a manually movable stage and automatic measurement of indentations. The user executes the measurements by help of a camera system and the high-performance PC software AVPak-20 V2 that comes with the models B, C and D as a standard, 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.

Additionally, the C-type features a motorized stage that makes for quick movement and rapid shift between workpieces, applicable for execution of patterns for multi-point testing. The type D variant boasts 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. Plus, the latest version is now compatible with Windows 7 64-bit systems.

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