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Press information

MITUTOYO enhance their MF/MF-U measuring microscopes by a motorized Z-axis

The MITUTOYO MF and MF-U measuring microscopes are among the most versatile and accurate devices of their class. Now the Japanese specialists further enhance their performance by launching a version with a motorized Z-axis, enabling an Auto Focus Function.

Neuss, March 2015. The MITUTOYO measuring microscopes of the MF series as well as their infinitely corrected counterparts of the MF-U series – both meanwhile in their fourth generation – are well-approved throughout the branches for their functionality and their high accuracy. Now the Japanese premium manufacturer adds to their functionality by release of a version with a motorized Z-axis. Connected to the optionally available PC-based vision measuring system "Vision Unit", the new device even boasts a sophisticated and user-friendly Auto Focus Function, vastly speeding up the measurements.

The new MF/MF-U microscopes employ highly optimized high-resolution objectives that especially stand out in terms of their long working distance and – in the case of the MF-U – enable brightfield/darkfield observation. As an option, customers can order the MF with a slide-type nosepiece for two lenses and the MF-U with a motorized or manual turret for up to five lenses, saving additional time by ultra-quick objective changes.

For surface as well as transmitted illumination bright LED or halogen light sources are the choice of available options – both continuously adjustable in brightness. A variable aperture diaphragm allows observation measurement while suppressing light diffraction.

The new MITUTOYO measuring microscopes will be available in three stage sizes ranging from 100 x 100 millimetres up to 400 x 200 millimetres. All variants incorporate a quick-release mechanism, enabling quick movements over long distances and significantly accelerating the measurement of large or numerous workpieces. As a standard, all MF versions come equipped with a camera mount.

A large portfolio of optional accessories additionally boosts the MF/MF-U measuring microscopes' versatility. The range comprises 1X- through 100X lenses, a polarization unit (MF-U), differential interference contrast observation (MF-U), the PC-based vision measuring system Vision Unit and the data processing unit QM-Data 200, amongst other items.

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