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Press information

High-accuracy scanning and top-end vision measuring: the new MiScan Vision System

The ultimate in accuracy and speed: MITUTOYO complements the range of multi-sensor CNC vision measuring machines and introduces a new high-end device called "MiScan Vision System". Equipped with the new MPP-Nano Scanning Probe, the new device boasts previously unequalled scanning accuracy figures.

Neuss, March 2018. The measuring instruments made by MITUTOYO are well-renowned throughout branches for their high accuracy and their excellent quality. Now the Japanese premium manufacturer launches the latest top-technology development that combines the advantages of high-throughput non-contact inspection with high-precision tactile measurement: a multi-sensor vision measuring system by name of "MiScan Vision System", offered in the two versions "Apex" and "Hyper". The first utilises the tried-and-tested SP25M scanning probe, for the latter the customer can additionally choose the new ground-breaking high-accuracy MPP-Nano scanning probe for measuring smallest details and features.

The new MPP-Nano's specs are more than impressive. The new development boasts an outstanding probing accuracy of 0.6 µm and an exceptional scanning accuracy of no more than 0.6 µm, combined with the "Hyper" version's phenomenal resolution of 0.02 µm. As a consequence, the MiScan Vision System covers all measuring tasks for small to medium-sized workpieces from average accuracy (Apex) all the way up to applications that demand excellent accuracy (Hyper with MPP-Nano scanning probe).

The MPP-Nano can be equipped with styli ranging from 2 to 9 mm in length and 125 to 500 µm in ball tip diameter. MITUTOYO also offers – amongst other accessories – an observation unit as an option. The device facilitates examining the scanning measurement on the PC monitor.

The MiScan Vision System combines the functions of a top-end vision measuring system with the versatility of a coordinate measuring machine equipped with the high-performance UC400 controller. It features a CCD camera and various optical illumination functions like coaxial and stage illumination as well as an LED ring light. The powerful, user-friendly MCOSMOS software now incorporates the likewise newly-developed VISIONPAK-PRO software for vision measuring applications. It offers numerous outstanding features and functions of the well-approved QVPAK software like various filters, the robust edge detection etc.

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