Press information

Ultra-modern measuring task organization: the new MITUTOYO MCOSMOS generation 4.1 software

MITUTOYO MCOSMOS facilitates easy, reliable and fast organization of measuring tasks in a network, archiving of results and creation of reports. In spring 2015 the metrology specialist launches generation 4.1 with numerous new features and functions.

Neuss, March 2015. The new version of MITUTOYO MCOSMOS software helps carry out all measuring and test jobs at high speed, simply and safely. It boasts new features and functions as well as new compatibilities with various probe heads such as PH10MiQ and Revo SFP. MITUTOYO has been offering surface roughness measurements on CMMs already since MCOSMOS V3.4 for using the "Surftest Probe" surface roughness probe system. MCOSMOS V4.1 now expands its functionality by supporting the Revo surface finish probes SFP1 and SFP2. This offers 6-axis positioning for the surface roughness probe.

Since time equals money, calibration time must be minimized. The motorized probe holder PH10MiQ PLUS comes with a qualification matrix that identifies the exact positioning of all 720 probe postures. By calibrating just a few postures, each position can be used without calibrating it. This functionality is perfect for customers measuring complex parts with various inclinations and moderate tolerance requirements.

The new function "Archive Measurement Data" allows to save and load measurement results in MCOSMOS. It simplifies evaluation report-generation at any time in any layout. CAT1000 offers graphical reports for almost every feature. V4.1 now also generates callouts for the elements distance and angle. Plus, it offers 3D scanning patterns, a new feature that simplifies and speeds up graphical programming of scanning paths on the CAD model for higher efficiency. MCOSMOS V4.1 offers a new CAD translator for the Siemens format "JT direct", versions V8 and V9 are supported. The „Virtual CMM" feature calculates measurement uncertainties individually for each feature of the part program. This value depends on the CMM used and its environmental conditions. For this purpose, a first measurement is executed physically, then repetitions are conducted offline („virtual") afterwards in order to simulate results under different measurement conditions.

Customers who opt for the GEARPAK Worm package for checks of worm gears now benefit from tool tips. This feature provides ideal support for data input and simplifies software handling. GEARPAK Worm also facilitates the measuring of worm gears with relieved tips and the evaluation of the tip relief in terms of minimizing friction and noise emissions for higher efficiency.

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