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Press information

Unprecedented efficiency in generating CMM part programs: the MITUTOYO software MiCAT Planner

The MITUTOYO MiCAT Planner reduces programming efforts in working out part programs for coordinate measuring machines by up to 90 per cent. The software's automatic measuring program generator saves vast amounts of time and cost.

Neuss, March 2016. The creation of measuring programs is one of the most time-consuming tasks of quality management staff. However, by use of the brand-new MITUTOYO MiCAT Planner, measuring programs can be generated automatically on the basis of the workpiece's CAD data within minutes – as opposed to hours or even days before.

Ideally, the CAD file of the workpiece contains information about the features and tolerances to be measured, the so-called "PMI data". Missing features can easily and quickly be added by the user.

For each measuring program the programmer selects the characteristics to be gathered by a single mouse click and generates the inspection plan. Any changes in the plan are instantly entered into the measuring program. MiCAT Planner depicts the measuring points and presents a simulation of the measuring process upon a mouse click.

MiCAT Planner adopts pre-defined rules, outlining which measuring strategy is applicable for geometrical elements, such as the number of measuring points or the scan settings. Sets of rules come pre-installed as a standard. However, adjustments can be made by the user at any point individually.

Additional strong points of the software are the selection of the best-suitable styli for measuring the particular characteristics and the calculation of the ideal program path. Using the data, the program determines the shortest possible measuring sequence and, to top it all off, it ensures a collision-free movement between the features.

The graphical user interface ensures easy and intuitive software operation, which in turn saves work time. As a consequence, the application based on auf MCOSMOS 4.0 makes a vast contribution to efficiency in the field of quality assurance.