

Software System MCOSMOS

MCOSMOS is the MiCAT Technology modular software system for professional control, measurement and evaluation in coordinate measurement.

- Software packages and expansion modules for every requirement.
- With this high-end modular software system developed by Mitutoyo, you will have the capabilities of a variety of software packages and expansion modules at your fingertips. They can make comprehensive measurement evaluations, document and present them in an effective form. The data is archived into clear, practical structures. M-COSMOS 1 of course supplied as standard with all Crysta-Apex C coordinate-measuring machines.

MiCAT
Mitutoyo Intelligent Computer Aided Technology

the standard in world
metrology software
CMM

MCOSMOS expansion modules



- Statistical evaluation module (MeasurLink)
- 2-D profile evaluation module (SCANPAK)
- Measuring module for involute gear profiles (GEARPAK)
- 3-D freeform surface module (3D-TOL)
- Coordinate measuring instruments – standard interface module (Pure DMISPAK/I++)
- Bearing surface evaluation module (MAFIS)
- NC correction value module (CORRECT PLUS)
- ... further modules on request.

Features of the software packages

PartManager

is the command centre that boots the software package and manages the parts program.

Geometry module (GEOPAK)

For easy parts program generation (online/offline) supported by the CAD model with collision control.

Online/offline programming module (CAT 300)

For control geometry and uncomplicated parts program generation (online/offline) supported by the CAD model with collision control.

3-D freeform surface module (3D-TOL)

For the automatic scanning of workpiece forms and for the preparation of setpoint/actual value comparisons from CAD model form surfaces and measuring points.

2-D profile evaluation module (SCANPAK)

for the automatic scanning of workpiece forms.

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Supports as standard all probe systems, turning and swivelling heads as well as probe change systems.

MeasurLink®-Module



Real-Time_Stat-Measure
 Real-Time-Plus_Stat-Measure-Plus
 Process-Analyzer
 Process-Manager
 Gauge management (test and inspection instrument management)
 Gauge RR (test and inspection instrument capability investigation)
 Pocket-ML



Sample application

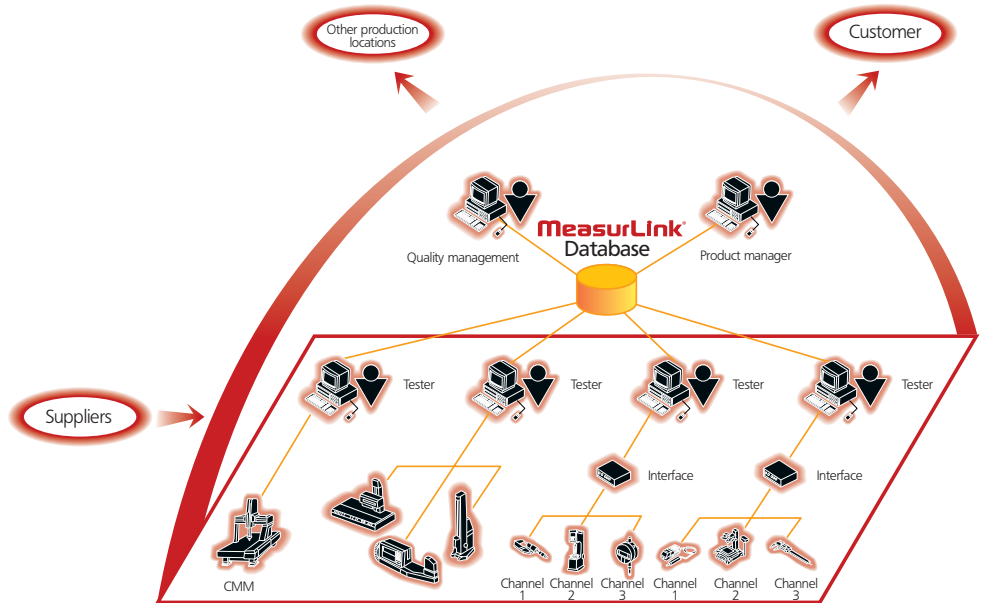


Sample application

MeasurLink®

The complete solution for quality data processing with no limits.
 Universal compatibility with custom functionality.

- MeasurLink® is the comprehensive software for the smooth acquisition, monitoring and evaluation as well as the exchange of quality data.
- MeasurLink® supports all Mitutoyo digital measuring systems – from calipers through to vision systems or coordinate measuring machines. Even data from analogue devices can be easily integrated into the process environment after manual acquisition. With its open program architecture, MeasurLink® can even process the measuring results from instruments from other manufacturers and incorporate them into its own work processes. This places the user in a whole new dimension of measured-data-assisted quality assurance.
- With MeasurLink®, all Mitutoyo measuring systems can now be combined in a single quality analysis system. Data obtained from various instruments is collated centrally, evaluated and efficiently documented according to need.



There is a full description of MeasurLink® on page 15.

Indexible Fixture System REPRO-FIX

The REPRO-FIX flexible fixture system saves even more time and cost, and brings even greater accuracy to measurements in the production environment.

- No matter how specific the task, REPRO-FIX is perfect in combination with coordinate measuring machines. REPRO-FIX exclusive clamping technology is easy to take apart, either completely or in modules.
- The QUICK-RAIL expansion module for positioning REPRO-FIX units makes all this even easier and faster.

