

Automatic measurement program generation software for CMMs **MiCAT Planner**

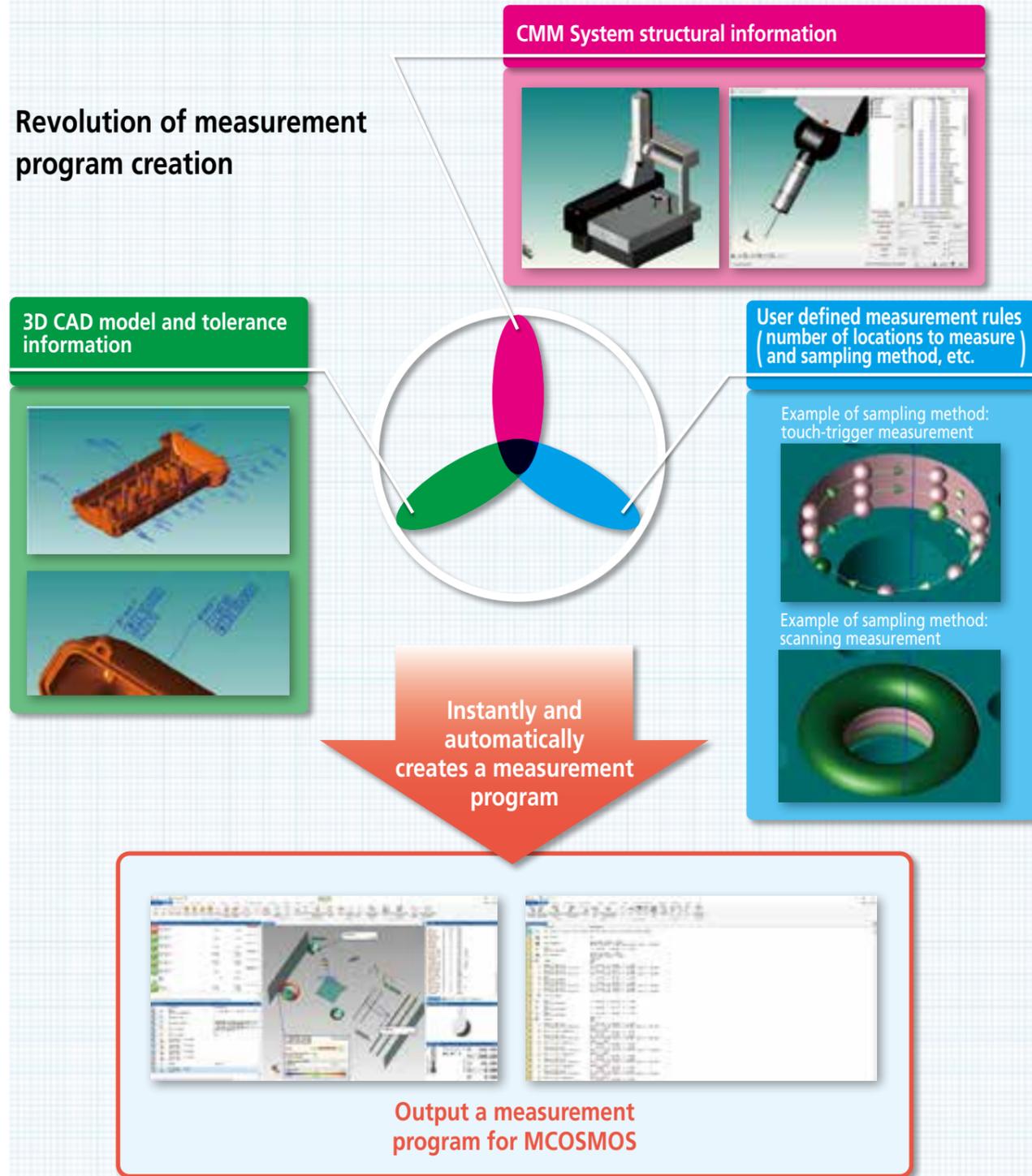


Revolution of measurement program creation



COORDINATE MEASURING MACHINES

Revolution of measurement program creation



- FEATURES**
- 1 Adding tolerance information* to the 3D CAD model and clicking once are all it takes to automatically generate a measurement program with MiCAT Planner.
* The 3D CAD model's Product Manufacturing Information (tolerance information) can also be used.
 - 2 Through its optimization function, the software estimates the shortest route for measurement with the minimum of probe repositioning and tool changing, and creates a program that enables measurement in the minimum possible time.
 - 3 Utilizing the rule editor function to set the measurement rules prevents variation in measurement quality between program writers. Furthermore, the rule editor function allows you to accumulate measurement know-how so that anyone can use it to conduct fully automatic program creation.

Screen setups and features

MiCAT Planner screen setups offer simple interfaces such as 3D view and plan view, thereby enabling intuitive operation. The placement and window sizes of the interfaces can be freely customized.

3D view

- Full-color graphics show:
 - Measuring machine details
 - CAD model with tolerance information
 - Measurement points and measurement paths
 - Measurement animations

Plan view

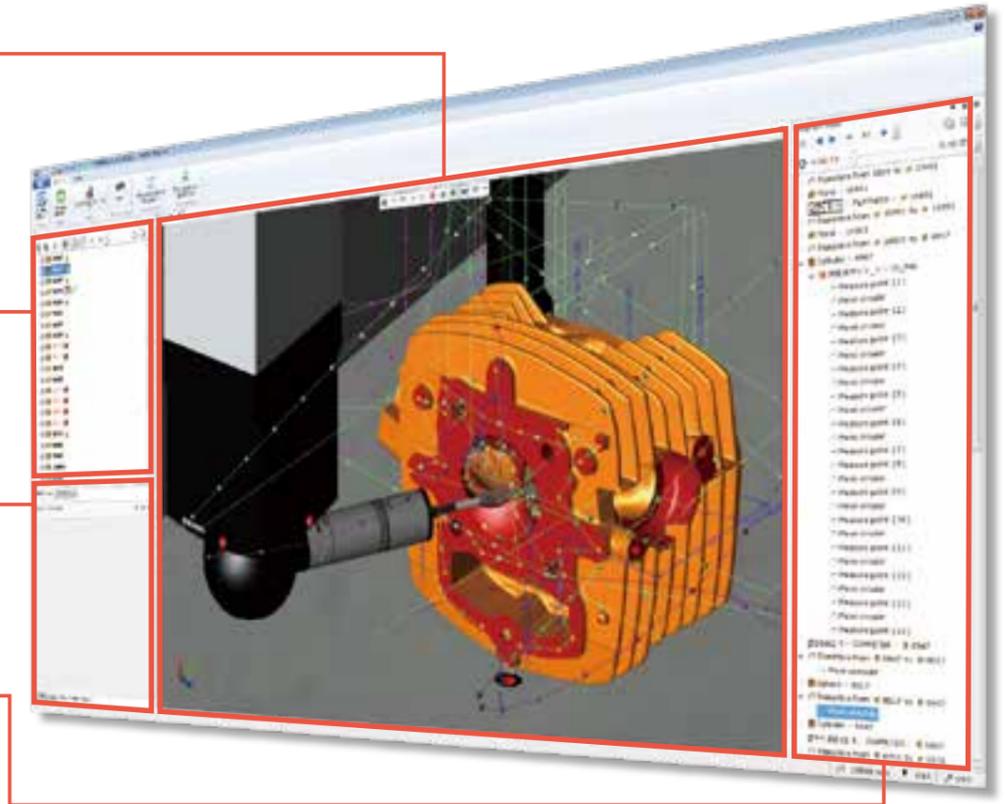
- Shows lists such as measurement parameters and tolerances.
- Lets you flag measurements and assessments using check boxes.

Properties view

- You can change the names of parameters, tolerance items and measurement points, and edit measurement points for individual parameters.

Program view

- Shows measurement details and measurement estimation times.
- Enables animation of measurement programs in 3D view.



Case study

1. Conventional method

Compare the measurement part-programming time for a test piece.

1-1) Programming in 2D drawing: **approx. 45 to 60 minutes**

1-2) Programming using 2D drawing + 3D CAD:
approx. 15 to 20 minutes

2. With MiCAT Planner

Create with **MiCAT Planner** (using 3D CAD model + PMI):
approx. 3 minutes!

Note: The measurement rules are defined in advance.



Part-programming time
Reduced by up to 95% !!

Guarantee a **dramatically reduced development phase** and at the same time improve product quality.

Supported CAD formats*1)*2)

CAD format	Extension
ACIS	.sat
STEP	.step/ .stp
NX ³⁾	.prt
Creo Parametric (Pro/E) ³⁾	.prt/ .prt.*
CATIA v5 ³⁾	.CATPART
Solid Works ³⁾	.sldprt

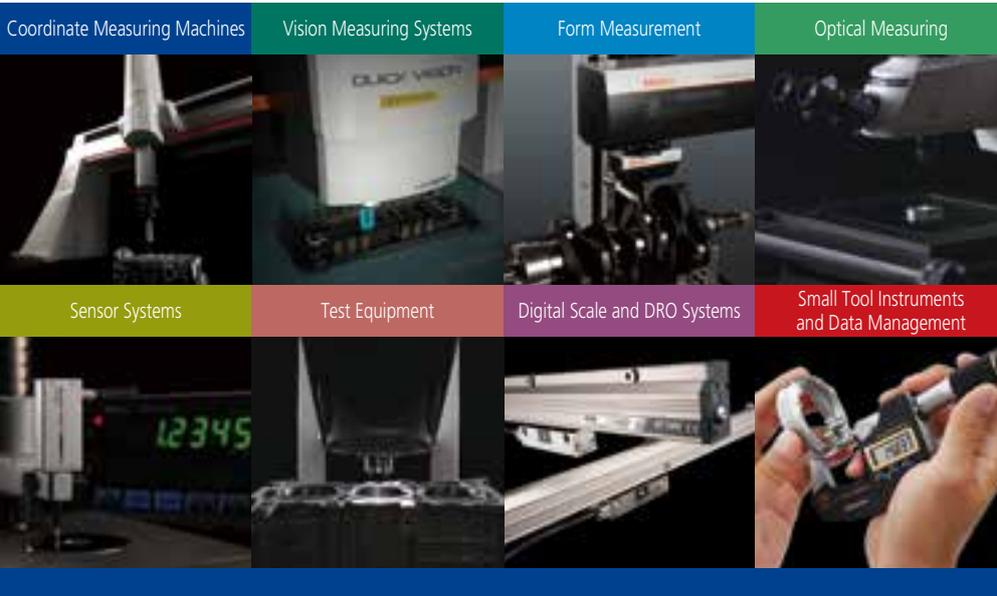
*1) For information about supported CAD versions, contact your local Mitutoyo sales office.

*2) A 3D CAD model of the part is required. Assembly data is not supported.

*3) Option

Supported languages

Japanese, English (US/UK), German, French, Spanish, Portuguese, Italian, simplified Chinese, traditional Chinese, Korean, Polish, Czech, Dutch, Turkish, and Russian



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