OpenDMIS Version 6.0

WENZEL®

# Enhancements in Version 6.0 of **OpenDMIS**

Wenzel has released V6.0 of its popular OpenDMIS CMM software. It may be coincidental but some of the more ground breaking developments involve support of 6 axis products from Wenzel.

So the big story is about support for the Wenzel CORE M and 6-axis MAXOS (CORE technology on a Wenzel CMM frame) machines and enhancements for 6-axis CMM machines running Renishaw REVO and rotary table, but what else does the release have for the more traditional CMM users? What new functions can increase capability and save time for current OpenDMIS users?
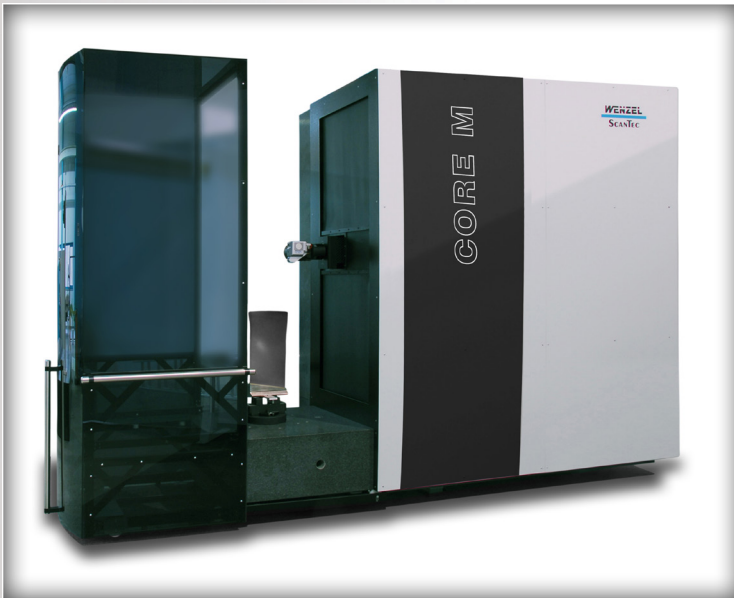
CORE M and MAXOS

Complex coordinate system rotations are now handled for up to 6 axes on these high speed optical CMM's. This adds to our already existing 6-axis functionality on Wenzel machines with Renishaw REVO with an additional rotary table – typically used in applications like aero engine blisk measurement.

Renishaw REVO

We have added new functionality to V6.0, particularly for the easier handling of external diameters and shafts. Such measurements can now be easily programmed via the GUI as well as in DMIS code.

Handling of the new RSP3-6 and associated styli are also incorporated.

Blade and Airfoil Inspection (requires OD Blade option)

- New, powerful routines to inspect fir tree roots on turbine blades
- Support of different tolerances on the same profile
- Tangent pin fitting and output
- Fir tree can define multiple segments. Each segment has its own Color, Thickness, Tolerance, segment position definitions
- Multiple segment best fit
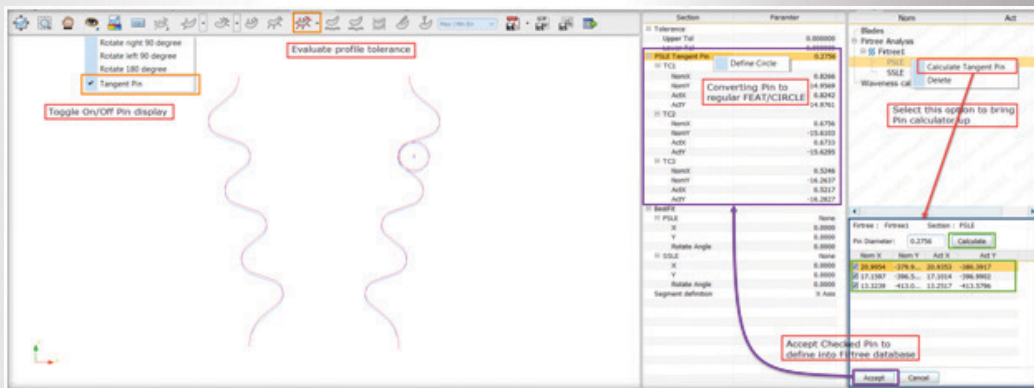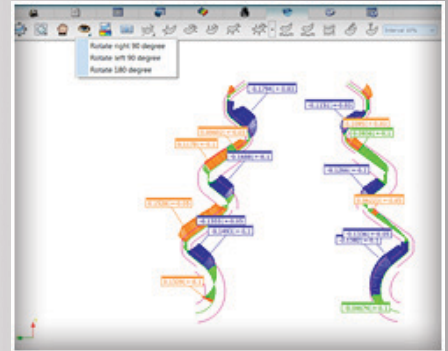
## Improved Scanning Control (any scanning sensor)

- Greater control of scan point density and scanning speed
- Using control points or automatically from detection of rate of change of direction
- Improvements to adaptive (active) scanning
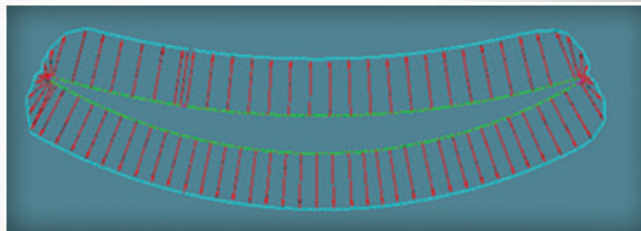
Tool Changer Support

V6.0 can now support multiple and different types of tool racks as long as they are all mounted on the Renishaw MRS rack.
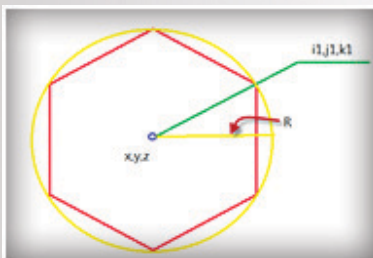
New Geometry features – Regular Polygons

Regular Polygons can now be inspected – in this release we support Hexagon and Octagon inspection. Useful in sheet metal inspection.

Other enhancements

- Completely new integrated and indexed help file
- New AS9102 first article reporting included
- New mirror sensor function
- Automatically tolerance grouped features
- Updates to stay current with I++ standard
- Support for Romer, Tomelleri and MicroScribe flexible arms
- Support for DEVA036 video probe
- Selecting multiple surfaces and inspecting and reporting on them as if they were one
- Improvements in Xecute shop-floor user interface
- Interface to .XLSM Excel files
- Interface to .MDB Access database files
- Completely customizable report header
- Best fit enhancements – can use combinations of curves as well as geometric elements
- Edit DMIS code directly in program database window
- ISO and Y14.5 profile tolerance symbols are supported in the output
- Custom styli now supported, including discs
- Any key on the '10 key' or numeric keypad can be assigned to any OD button on the UI
- Improvements in clarity of the UI including representing measured points as spheres of varying sizes
- 1 click search for measured feature names or by clicking the feature in graphics window
- Configured UI settings can be saved, exported (to install on other machines) and recovered. Each user can have a different UI.
- ENDFIL command is now configurable

Plus another 500 lesser enhancements and bug fixes!