

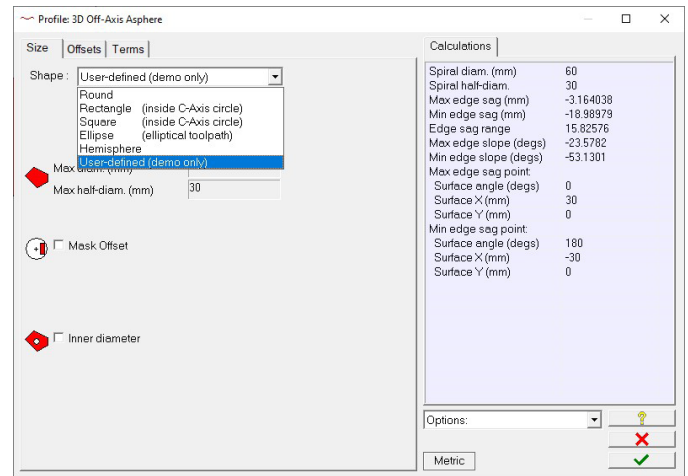
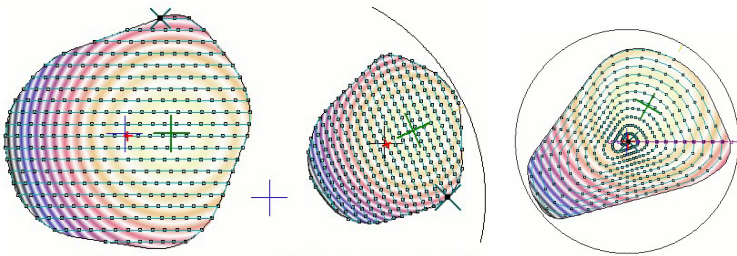
*what's*  
**NEW**

**DIFFSYS 5.1.0**

Please contact [precitech.diffsysales@ametek.com](mailto:precitech.diffsysales@ametek.com) or your local sales representative for details on how to update your current license. Visit [www.precitech.com](http://www.precitech.com) to download a demo.

► **User-Defined Shapes\*** gives users the capability to create shapes for rastering, or setup a C-axis spiral that follows the user shape.

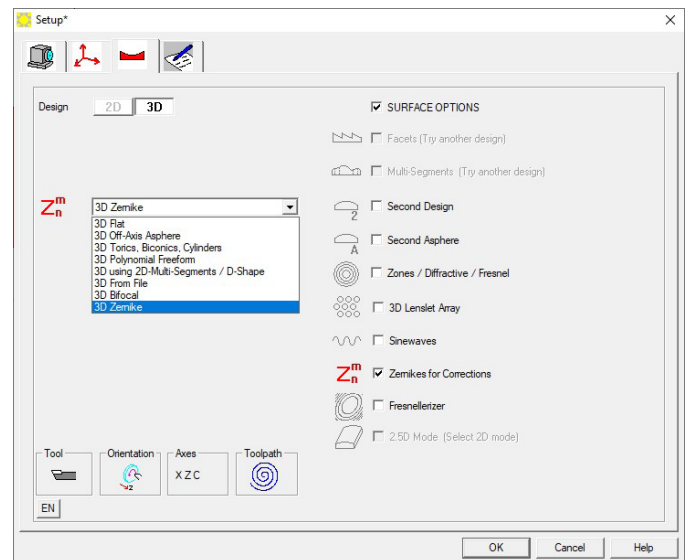
Prerequisite: DIFFSYS A3



\*This option may only be in demo mode in your version, please contact your vendor

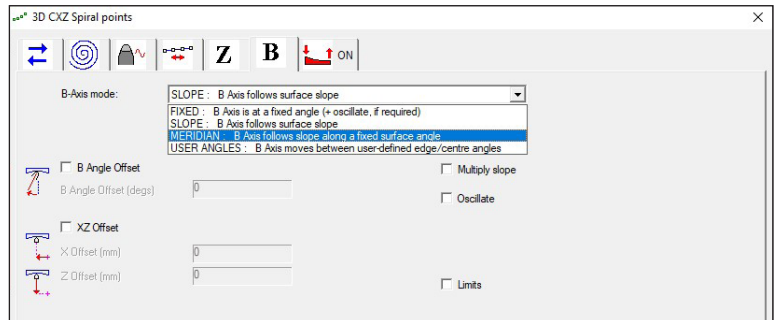
► **Zernike Improvements:** New "3D Zernike Surface" option, which can be tilted. Zygo Zernike files can now be imported. The old "Zernike" option is now available under 2D.

Prerequisite: DIFFSYS A3 for new option; A for old option



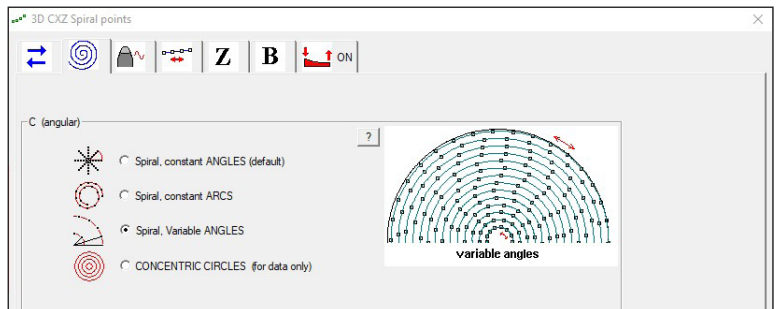
► **B-Axis Slope Angle** can now be calculated from the slope along a meridian angle, or from fixed Outer and Inner angles. This helps eliminate oscillations that can result from calculating the B-axis slope from the surface slope.

Prerequisite: DIFFSYS A3



► **Spiral with Linearly Variable Angle** is a new type of spiral that has been added.

Prerequisite: DIFFSYS A3



► **Export Step File** in conjunction with the Rhino CAD software.

Prerequisite: DIFFSYS A3 and RH; Rhino CAD

**DIFFSYS 5.1.0 also includes the following new features:**

- Importing Zemax ZMX files: Now imports the SZERNSAG surface type.
- 2D machining time: Calculation of 2D machining time, dependent on feedrate.
- Surface finish information: Calculation of diamond tool groove depth.
- Nearest point with mouse: Moving the mouse in the Toolpath graphics will now show the nearest point for Arc-increment spirals and concentric circles.
- Toolpath contours are now available for arc-increment spirals and concentric circles.
- Contours now available for Hemisphere surfaces.
- Languages page: The QuickSwitch option can switch between two languages, rather than cycle through all languages.
- DCOF files: The number of decimal places for asphere terms has been increased.



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