

DIFFSYS introduces v.4.76

Precitech is offering an exciting one time opportunity for all existing DIFFSYS® customers to catch up to **v.4.76** and take advantage of all the valuable new features. This reduced price offer is valid until the end of 2017 for any configuration of features you currently own regardless of the age and represents a significant savings for most customers.



DIFFSYS 4.76 is the most important new release in the last

5 years. It contains many of the most requested new features, options and important fixes. If you ever had the intention of updating or upgrading now would be a good time to do it. Please contact precitech.diffsysales@ametek.com or your local sales representative for more details. Visit www.precitech.com to download a demo.

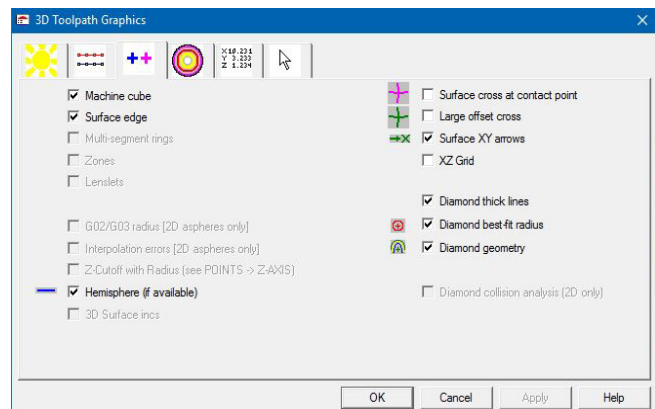
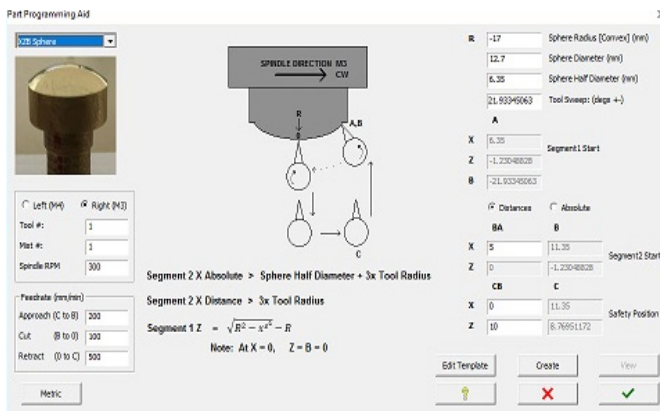
EXCLUSIVE DIFFSYS FEATURES

▶ **DiamondCAM Basic (part programming aid)** gives users for the first time the capability to create complete job files including header, footer and multi-pass options with a simple to use graphical user interface.

Prerequisite: all DIFFSYS versions, including 2D Basic

▶ **The diamond rake calculation feature** has been significantly improved, finally accurately calculating the tool/work piece contact point while using negative rake and split radius diamond tools. This significantly improves the part quality of steep surface parts and diffactives.

Prerequisite: all DIFFSYS versions, including 2D Basic



Additional features on page 2...



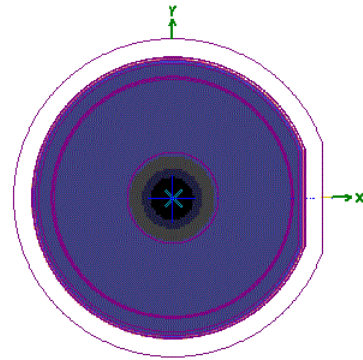
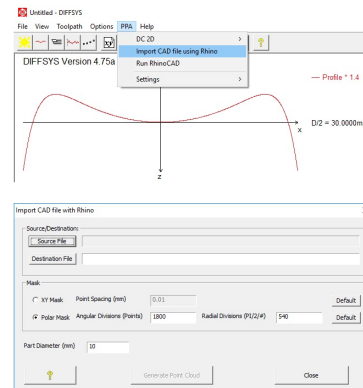
Is now online!
forum.diffsys.com

- ▶ **IMPORTANT NEW OPTIONAL FEATURE - RH (Rhino)**
Option: This option will automatically generate 3D point clouds directly from CAD files (IGES, STEP, etc.) and import them into DIFFSYS. Includes a copy of Rhino 5 for Windows.

Prerequisite: A3 + MC3

- ▶ **FOR MOBILE PHONE MOLD MAKERS:** The new D-Shape (D-Pocket) option enables the corners where the D-region starts and ends to now be rounded to give a smoother tool path.

Prerequisite: A3



- ▶ **2D MEASUREMENT CORRECTIONS NOW UNLIMITED:** DIFFSYS had until now been limited to 4 measurement corrections. It is now unlimited, whereby old measurements are added to an archive file.

Prerequisite: A + MC2

- ▶ **BY POPULAR DEMAND:** For the first time DIFFSYS now has the capability to directly import the most critical ZEMAX files (STANDARD, BINARY_2, EVENASPH, XPOLYNOM, XFRESNEL). Beta 4.76 users have indicated this new feature has tremendous value.

Prerequisite: DIFFSYS A

- ▶ **NEW FEATURE HELPS TO AVOID TOOL CRASHES:** If the diamond front clearance is close to hitting the surface, this will appear pink in the contours. This option is off by default (because it's slower) - switch it on in the Toolpath -> Graphics -> Contours Page.

Prerequisite: A3

DIFFSYS v.4.76 also includes the following features:

- **Contours display:** New features added to the contour display
- **Steady XY faster calculation**
- **Extrapolation:** New options to shift the extrapolation boundaries and add round corners
- **Polynomial normalization**
- **Mouse panning & zooming:** You can move the entire image by pressing **SHIFT+Left Mouse Button**

Important fixes:

- 'ABC Freeform' and flycutters - This option can have separate surfaces left and right of center - this causes a slope jump at the center. The flycutter tool calculations relies on this slope to position the tool but a subtle fault was causing the tool still to jump.
- 3D Measurement corrections - In certain cases these were not being added correctly for SteadyX and rastering. They would be correct at the center, but could fade out towards the edge. This has been fixed.
- Tilt bug at X0,Y0 - This occurred only if Z was not zero at the center. This has been fixed.
- '2.5D' mode - This wasn't functioning correctly after version 4.55, and is now fixed.
- SteadyXY and pressing Cancel - If you change the increment sizes when working with SteadyXY, then pressed Cancel, the wrong values were used. This has been fixed.