What's new in EZCAM Version 2018

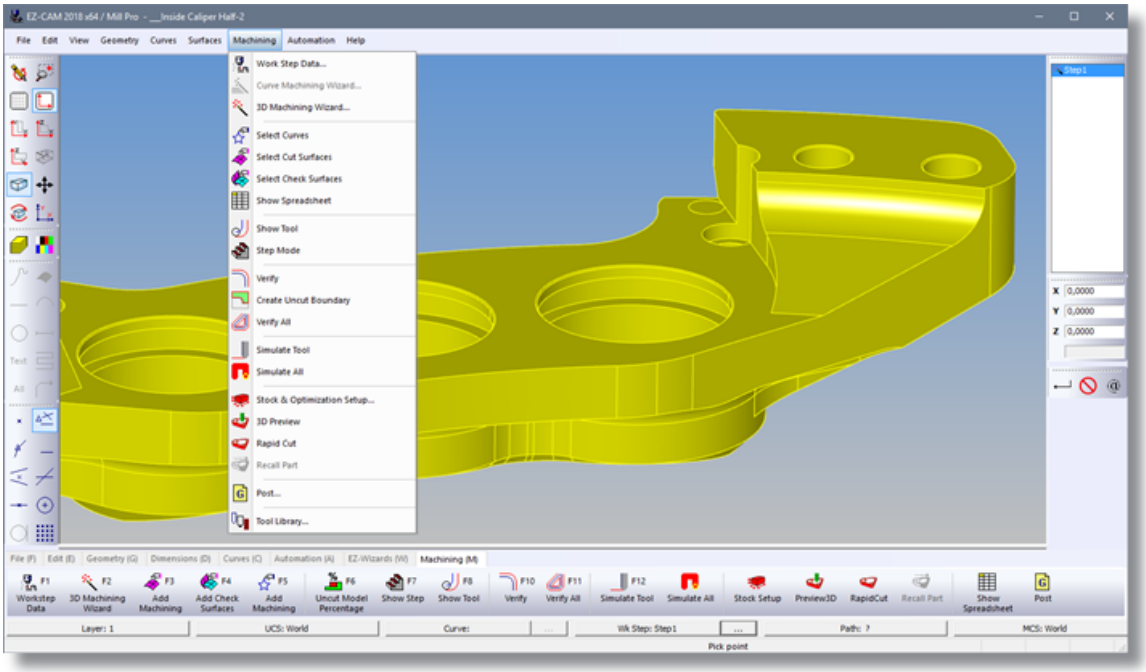
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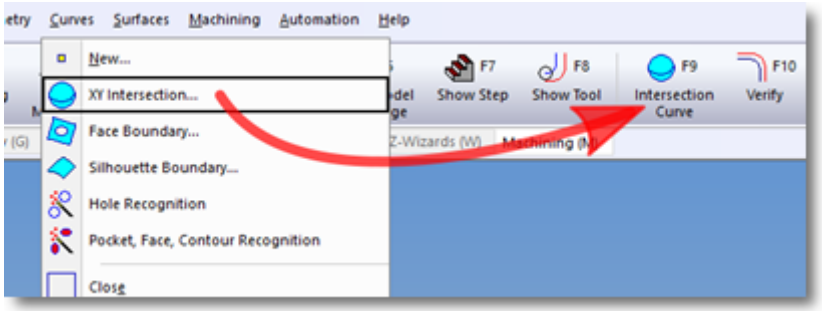
MILL / TURN / EDM – New Toolbar Color Scheme & Menubar with Icons

The new toolbar color scheme and the new menu bar with icons left of menu items add clarity and consistency making EZ-CAM 2018 look great. Command Manager can be optionally docked to bottom using the new setting in the Customize dialog and function keys can be assigned to the command buttons of the currently selected tab.



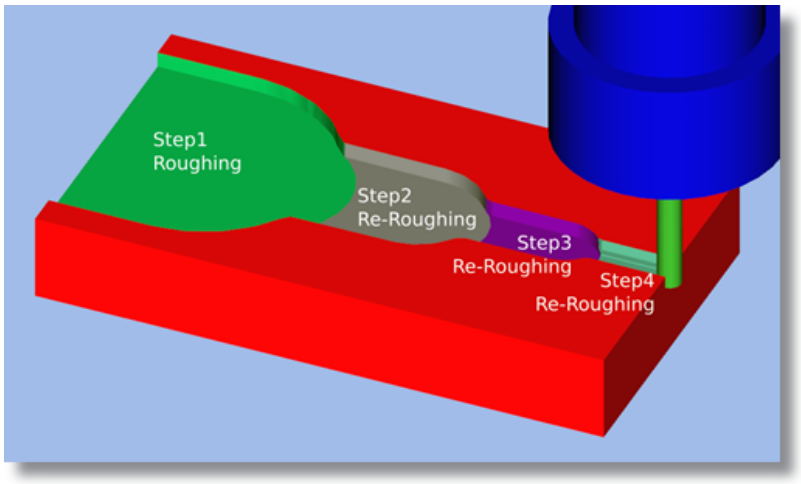
MILL / TURN / EDM – Drag-and-Drop Items From Menus to Toolbars

In EZ-CAM 2018 more customization options have been introduced. Drag-and-drop items from menus to toolbars is now possible. Menu items can also be dragged within the same menu or into other menus. Pop-up menus can be created via right click. All of these can be now achieved when in customization mode.



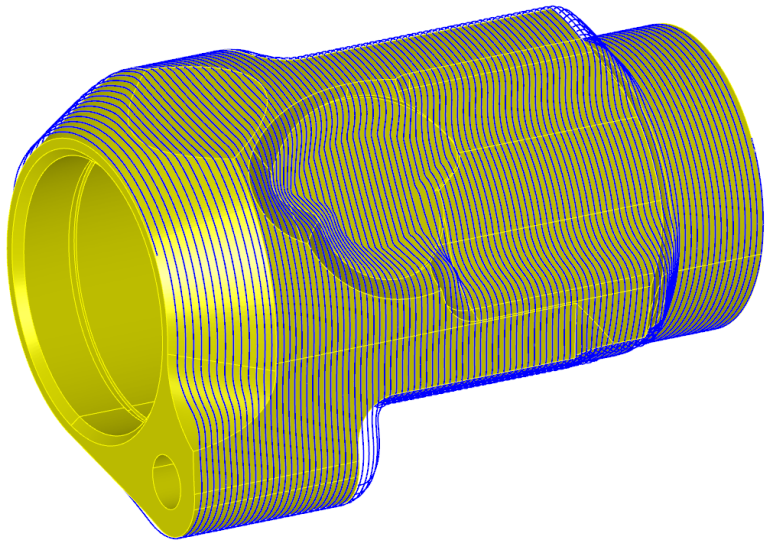
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MILL-Pro – 3D Wizard > Unlimited Number of Re-Roughing



Unlimited number of re-roughing operations can be created for the same 3D roughing workstep. Each re-roughing worksteps references the previous re-roughing workstep in the chain.

MILL / MILL-Pro – 4th Axis Wrapping > Finishing Rotational 3D Models

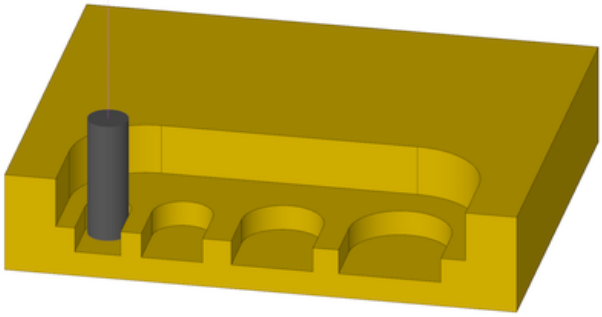


4th axis wrapping function for finishing rotational models can now be performed using contouring cycle with multiple link path curve and machining surfaces. 3D step-over can be specified with curve step parameter or helical option can be activated for continuous rotation

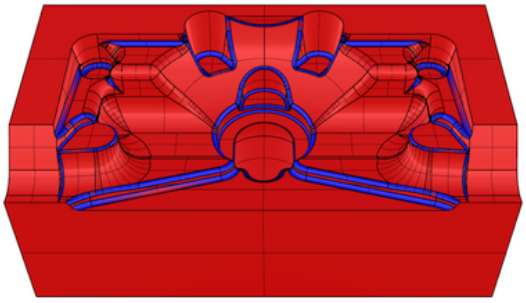
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MILL-Pro – Largest Flat Diameter and Largest Corner Radius Commands

Largest Flat Diameter and Largest Corner Radius commands offer great help in selecting the correct tool size. Both commands apply multi-core processing for better performance.



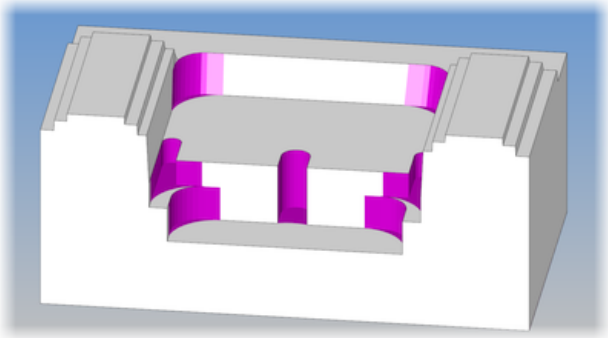
Largest Flat Diameter command finds the largest flat tool size that machines the part with the least rest material possible and reports the corresponding rest material percentage.



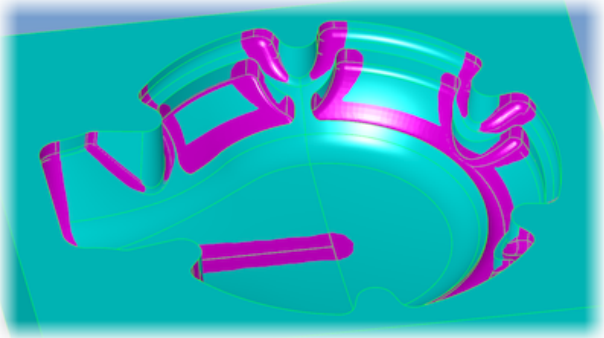
Largest Corner Radius command analyses the complete model and provides the largest tool radius possible and reports the corresponding rest material percentage.

MILL-Pro – Uncut Model Percentage

Uncut Model % shows percentage of total surface area reachable from +Z by the currently selected workstep's tool. This command also creates uncutSrf to display inaccessible regions.



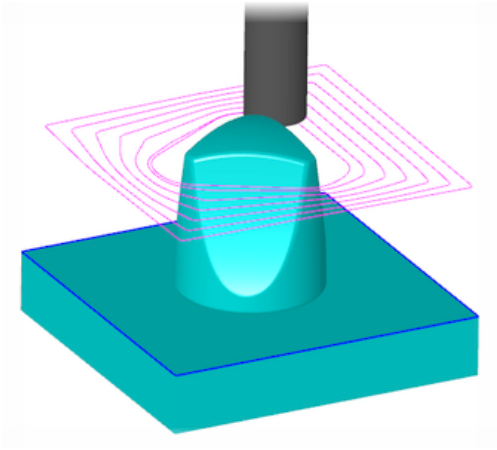
Uncut Model % command marks the inaccessible regions for the selected tool on a part with planar surfaces.



Uncut Model % command marks the inaccessible regions for the selected tool on a part with a complex shape.

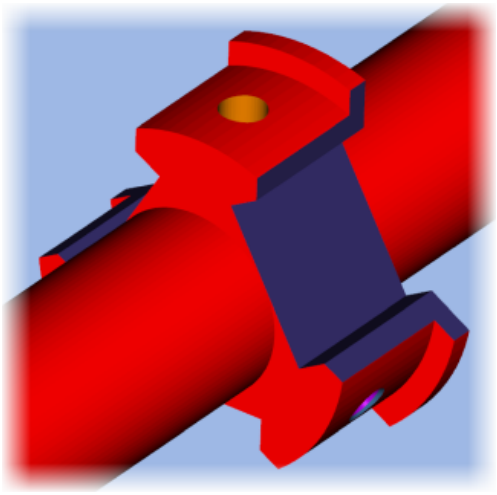
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MILL-Pro – 3D Wizard > 3D Roughing Helical Outside-In Pocketing



Helical outside-in pocketing is now possible in 3d roughing method. This strategy will now skip the first pass if 3d roughing or if 2d face milling is active.

MILL / MILL-Pro – Thread-Milling 4th Axis Index-Repeat Parameters



Index-repeat parameters are supported by thread-milling.

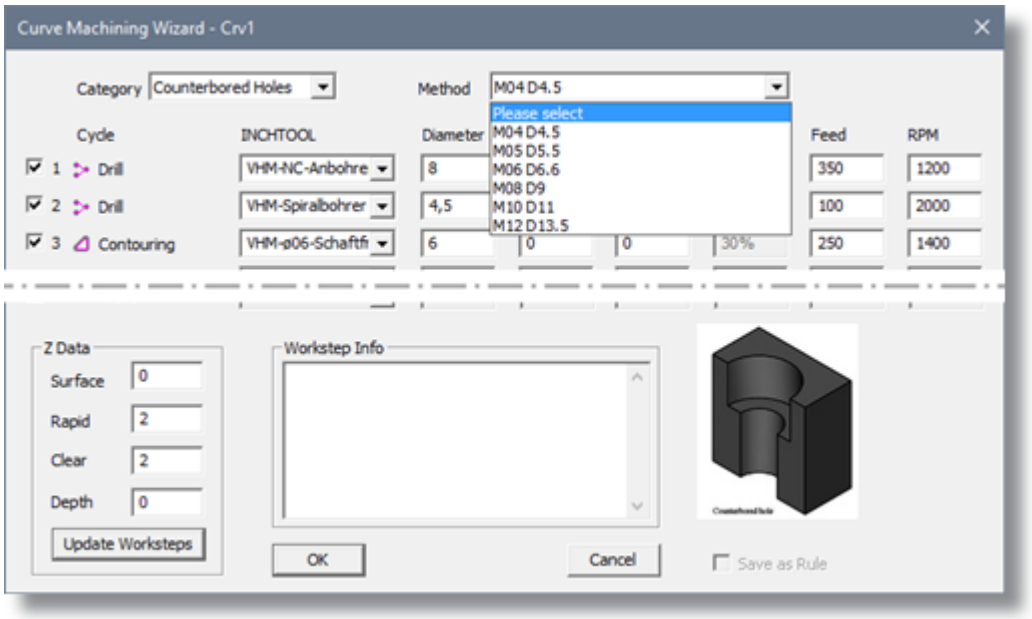
MILL / MILL-Pro – Hole Recognition > Max Limit For Circle Radius

Hole recognition's max limit for circle radius can be customized using [ML3D] maxHoleRadius setting in "ezcam.ini" file.

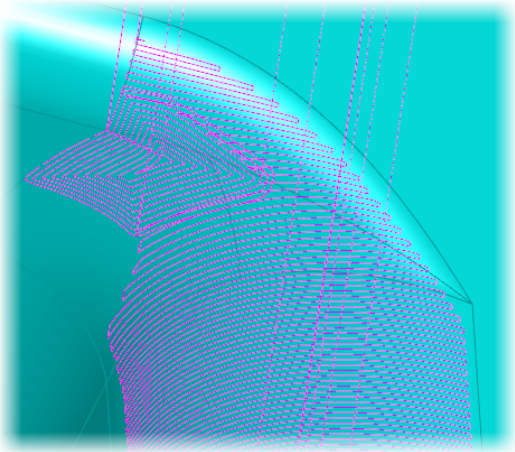
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MILL / MILL-Pro – Hole Detection Function Counter Bore Support

Hole detection command now recognizes cylindrical counter bores (metric M4, M5, M6, M8, M10, M12) which can be then machined using pre-defined methods of Curve Machining Wizard. Furthermore, performance of hole detection has been much improved.



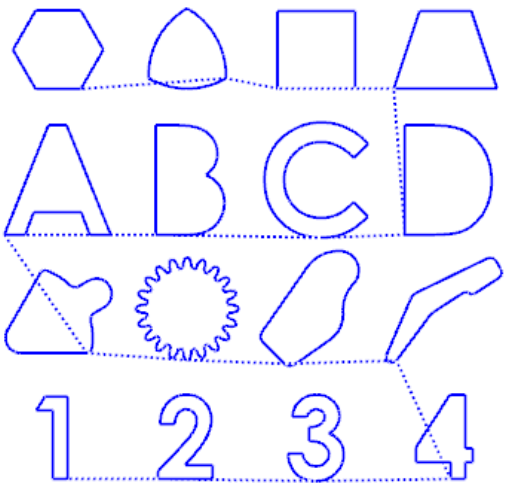
MILL-Pro – Refinishing Toolpath > Constant-Z Section Enhancement



Constant-Z section of refinishing toolpath will now support open surface link type correctly.

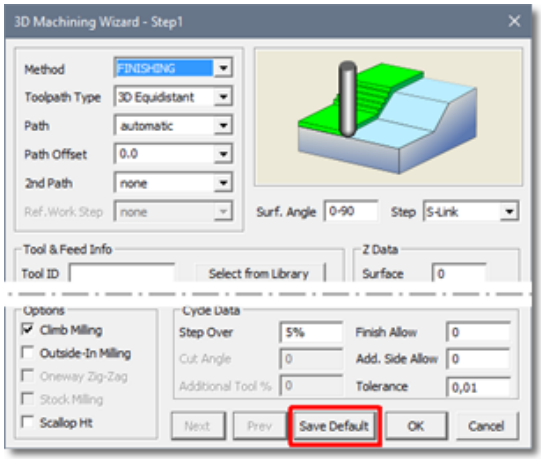
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MILL / TURN / EDM – Chain Type Setting and Auto Chain Function Covers All Figures



Circle Chain option is renamed as Chain Type and can be used for any shape.

MILL-Pro – 3D Wizard > Save Default Button



Save Default button has been added to 3D-Wizard dialog.

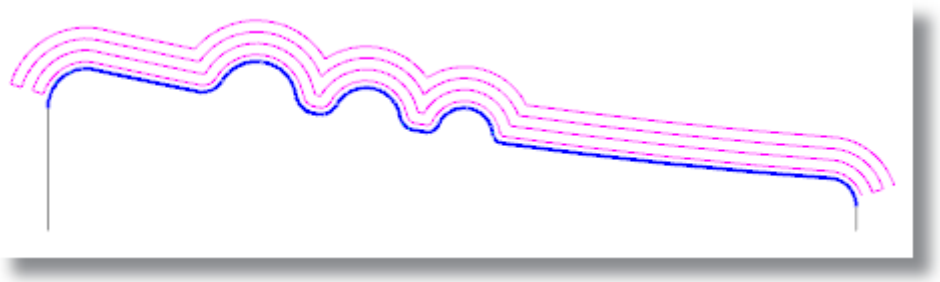
MILL / TURN / EDM – Imported DXF/DWG Spline Profiles > Optimized Arcs

Spline profiles in DXF/DWG files will be imported as optimized arcs.

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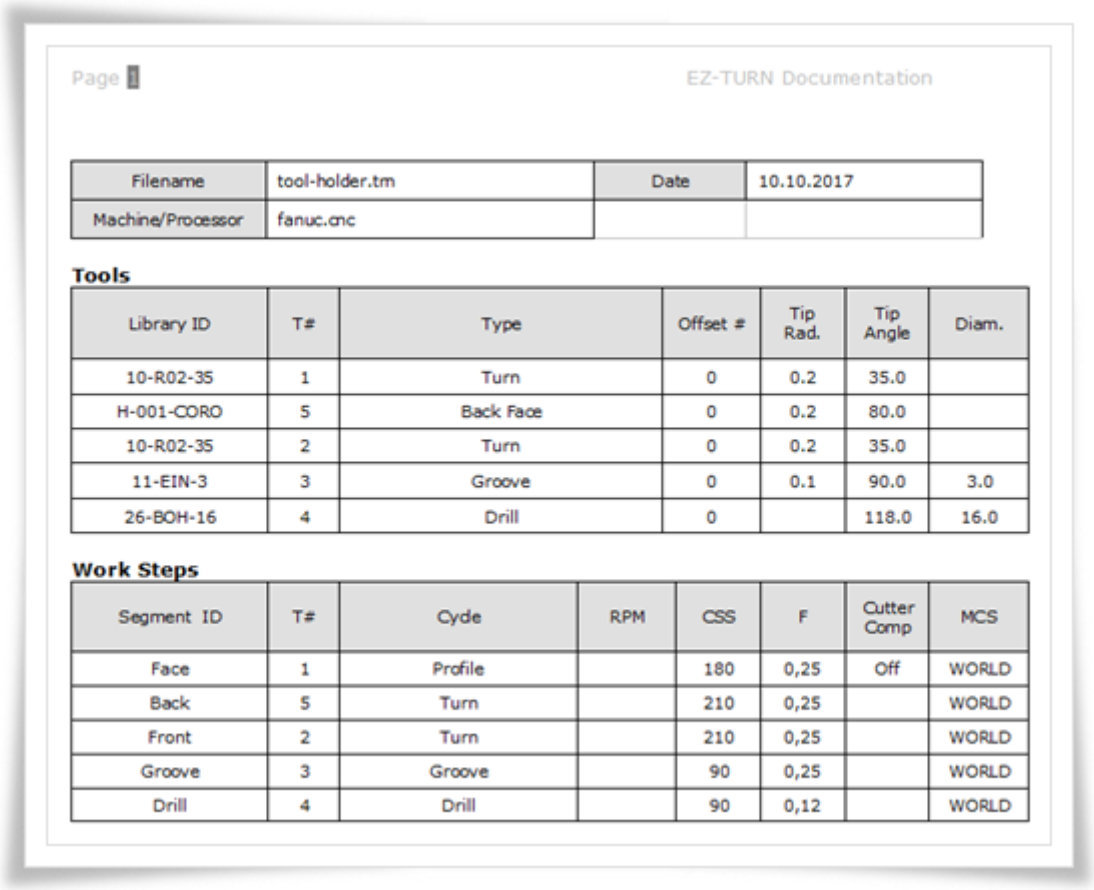
TURN Express / TURN – Bi-Directional Multi-Pass Profile Cycle Support

EZ-Turn multi-pass profile cycle now supports bi-directional option of cycle-data dialog.



TURN Express – "Create Worksheet Document" Feature

Create Worksheet Document has been added to the Help menu of EZ-TURN Express.



Page 1 EZ-TURN Documentation

Filename	tool-holder.tm	Date	10.10.2017
Machine/Processor	fanuc.cnc		

Tools

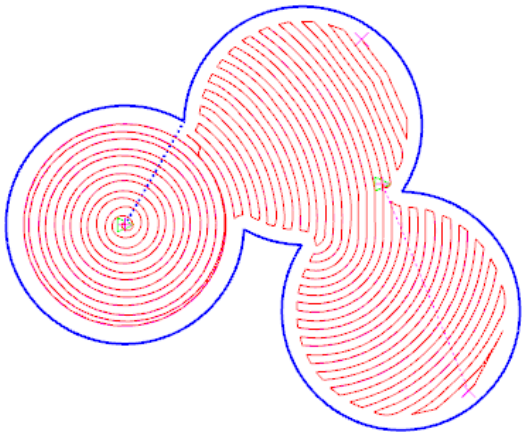
Library ID	T#	Type	Offset #	Tip Rad.	Tip Angle	Diam.
10-R02-35	1	Turn	0	0.2	35.0	
H-001-CORO	5	Back Face	0	0.2	80.0	
10-R02-35	2	Turn	0	0.2	35.0	
11-EIN-3	3	Groove	0	0.1	90.0	3.0
26-BOH-16	4	Drill	0		118.0	16.0

Work Steps

Segment ID	T#	Cycle	RPM	CSS	F	Cutter Comp	MCS
Face	1	Profile		180	0,25	Off	WORLD
Back	5	Turn		210	0,25		WORLD
Front	2	Turn		210	0,25		WORLD
Groove	3	Groove		90	0,25		WORLD
Drill	4	Drill		90	0,12		WORLD

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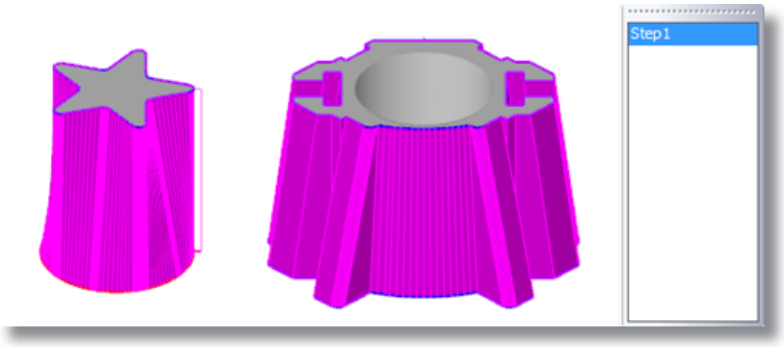
EDM – Pocketing Cycle Trochoidal Strategy



EZ-EDM pocketing cycle utilizes trochoidal strategy for burning out small cavities.

EDM – XYUV Cycle Multiple Shape Support

XYUV cycle supports machining multiple shapes within one workstep. Path curves need to be selected in the following order: crv1Lower, crv1Upper, crv2Lower, crv2Upper, etc.

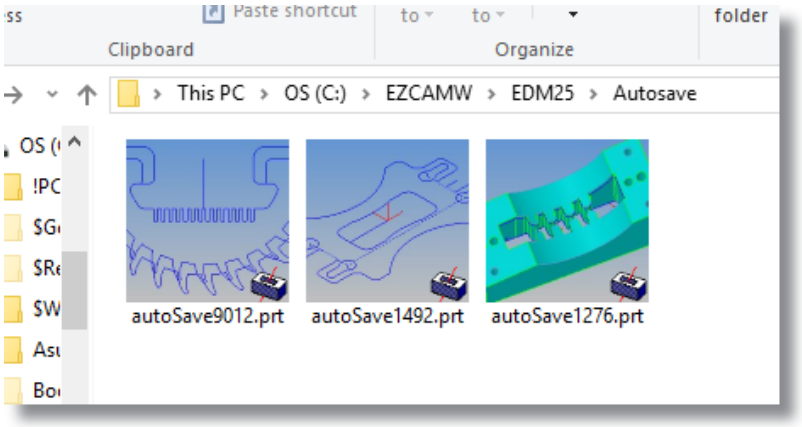


MILL / TURN / EDM – Solidworks 2018 Sldprt Files Can Now Be Imported



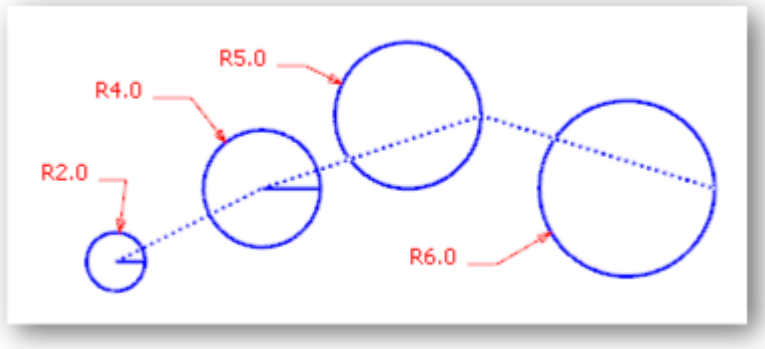
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EDM – Autosave Using Different Filename For Each Session



Autosave function will save part files in the sub-folder named Autosave using different filename for each EZ-EDM session.

EDM – Max. Hole Radius Setting for Skipping Automatic Lead In/Out



[EDM] maxHoleRadius setting in "ezcam.ini" file allows Chain circles command to skip automatic lead in/out from the center point.

MILL / TURN / EDM – Enhanced Overall Graphics Display Performance



Overall graphics display features are fine tuned and the performance is enhanced in EZ-CAM 2018.

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EDM – Select Entities First Option

Select Entities First option has been added to EZ-EDM.

EDM – Copy/Paste Worksteps Between Different Sessions

Copy/Paste worksteps between different sessions is now also available in EZ-EDM.

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