

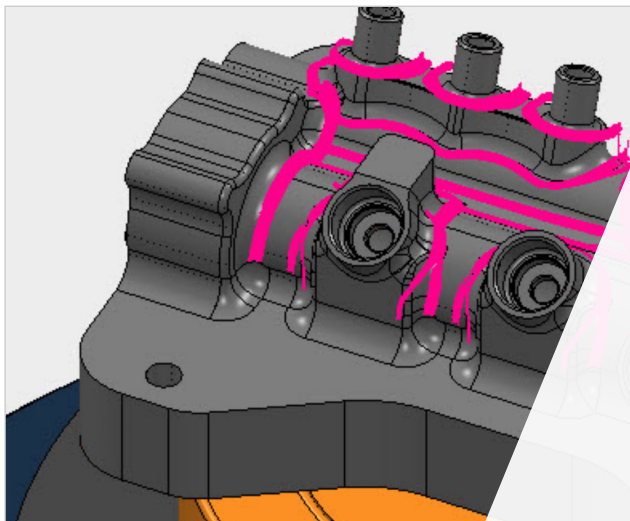
POWERMILL® 2020

The expert high-speed and multi-axis solution

Visit www.powermill.com to find out more

PowerMill 2020.1 offers enhanced programming tools to help meet the demands of the most challenging CNC machining applications

The latest release of PowerMill continues to focus on improving toolpath calculation times, whilst offering enhanced model filleting, more robust automatic collision avoidance, new model export options, and more.

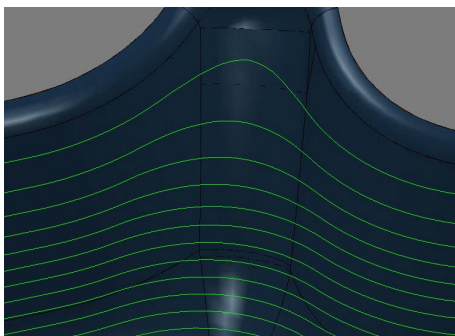


Additional speed improvements

Continuing the speed improvements released in PowerMill 2020.0, this latest update of PowerMill sees considerably faster calculation times for Area Clearance, Corner Finishing, and Rest Finishing toolpath types.

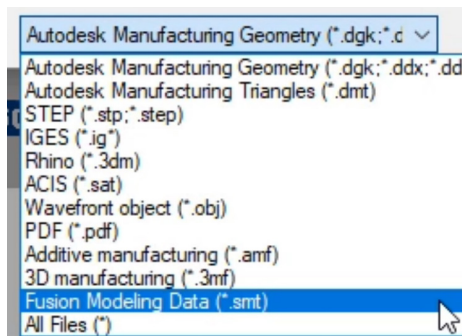
In tests using customer supplied models, typical calculation times were up to 53% faster in PowerMill 2020.1 when compared with 2020.0.

PowerMill continues to focus on speed, usability, and reliability.



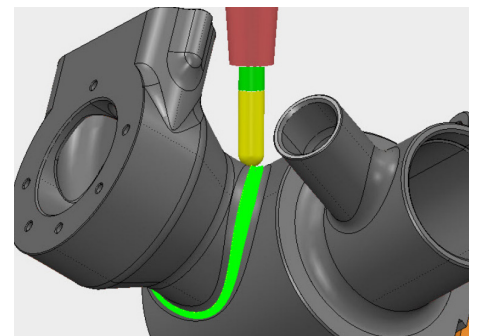
Enhanced model filleting

First introduced in PowerMill 2020.0, Model Filleting automatically adds fillets to 3D CAD models during toolpath calculation. PowerMill 2020.1 expands this to work with all 3-axis finishing toolpaths including; Raster, Constant-Z, 3D-Offset, Flowline, Projection and more.



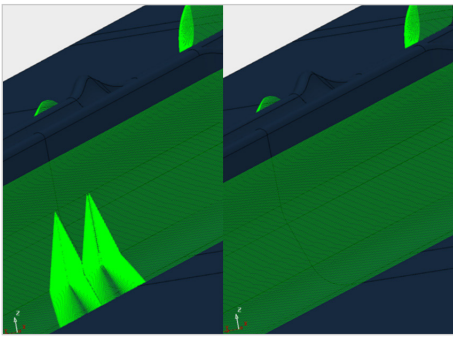
Model export options

In addition to DGK and DMT files, CAD models can now be exported using additional neutral formats, including; STEP, IGES, ACIS, OBJ, and PDF, or native formats suitable for use with 3D Manufacturing and Fusion Modeling systems.



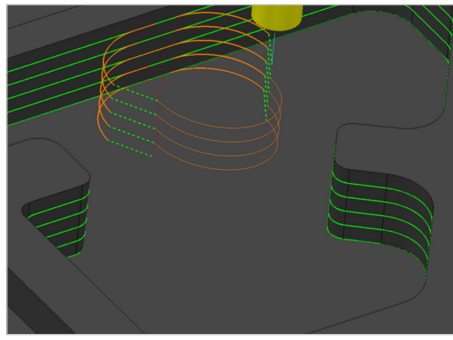
Collision avoidance

Automatic 5-axis collision avoidance now detects and avoids more collisions than the previous releases of PowerMill. Calculation times are considerably quicker - in test cases as much as 70% faster - allowing CAM programming times to be greatly reduced.



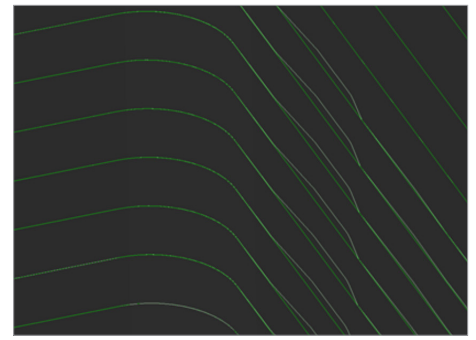
Robust 3D Offset Finishing

PowerMill 2020.1 produces better quality offsets when using 3D Offset finishing. Toolpaths are less likely to contain localized spikes that could compromise surface finish.



Safer cutter compensation

Cutter compensation data is now correctly preserved when; 1) editing toolpath orientation vectors using Dynamic Machine Control, 2) calculating toolpaths with overlapping lead moves, 3) verifying toolpaths.



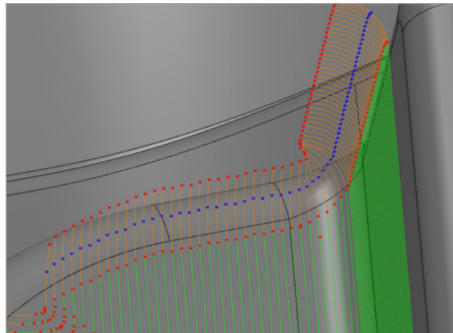
Constant-Z arc-fitting

2D arc-fitting is now more reliable when calculating Constant-Z toolpaths with automatic collision avoidance active. This helps avoid gouges, preserve surface quality, and maintain dimensional accuracy.



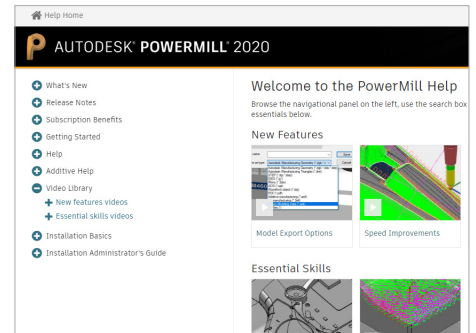
Clearer NC program icons

New color coded icons help differentiate NC programs that are waiting to be post-processed from those that have been exported, or those that may have been edited and need to re-exported.



Enhanced leads and links

PowerMill 2020.1 now avoids (unnecessary) polygonization of arc lead moves when calculating toolpaths that use orientation vectors with a fixed direction.



Access help content

See the latest help and getting started documentation online at <http://help.autodesk.com/view/PWRM/2020/ENU/>.

“I had experienced regular problems with other CAM software so choosing PowerMill was a no-brainer. The 5-axis simulation and verification tools help me sleep at night.”

– **Marius Pantea**
Production Manager
RM Design and Engineering

Make Great Products

Autodesk manufacturing software helps you make better quality products, faster. Machine, print, inspect, and fabricate parts efficiently.

- Complete modular manufacturing solutions – CAM, additive, composites
- Manufacturing expertise to automate, optimize and integrate your manufacturing processes, in addition to your software
- Cloud-connected so you can collaborate and manufacture anytime, anywhere.

Learn more at www.autodesk.com/MAKE.