POWERMILL® 2019

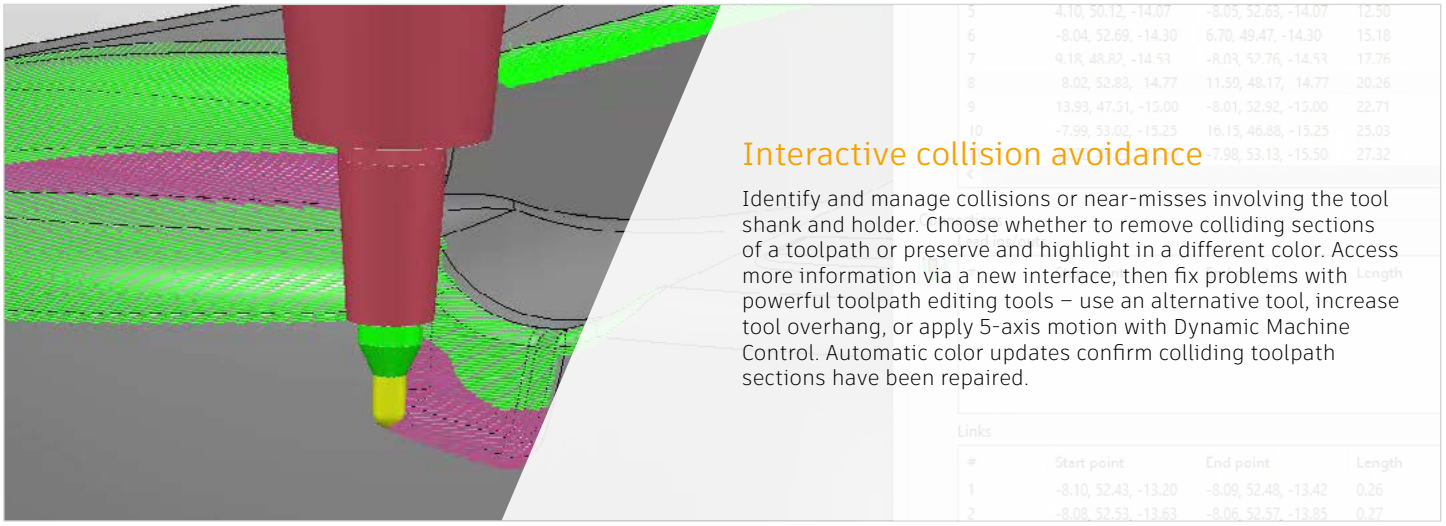
The expert high-speed and multi-axis solution

2019.1 Updates

Visit **www.powermill.com** to find out more

PowerMill 2019.1 offers enhanced programming tools to help meet the demands of the most challenging CNC machining applications.

The latest release of PowerMill provides new tools to interactively manage and avoid collisions involving the workpiece and cutting tool assembly. Manage stock and clamps more efficiently with enhanced machining setups. Improve collaboration within your team with post-processors stored in the cloud. Create new probing toolpaths to validate the quality of machined parts, and so much more.

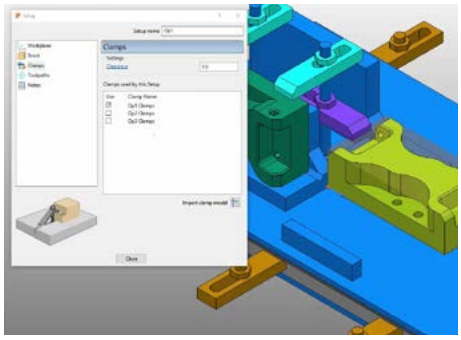


Interactive collision avoidance

Identify and manage collisions or near-misses involving the tool shank and holder. Choose whether to remove colliding sections of a toolpath or preserve and highlight in a different color. Access more information via a new interface, then fix problems with powerful toolpath editing tools – use an alternative tool, increase tool overhang, or apply 5-axis motion with Dynamic Machine Control. Automatic color updates confirm colliding toolpath sections have been repaired.

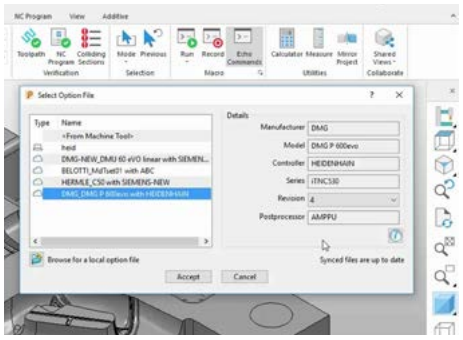
Probing (extra subscriber benefits)

Create probing toolpaths to measure CNC machined parts using spindle mounted probes. PowerMill subscribers can create and share 3D inspection reports with project stakeholders via Autodesk Drive. Monitor part quality, identify non-conformance, and make crucial production decisions quickly.



Enhanced machining setups

Access a new ribbon toolbar and user interface to better control PowerMill's machining setups. Specify the stock and workplane to be used in the setup. Use a new "clamp" entity type to quickly define which fixtures to ignore, or collision check against. Enhanced setups help minimize duplication of effort and reduce the risk of human error.

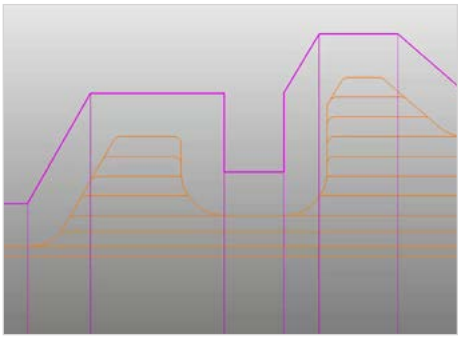


Post-processors in the cloud (subscribers only)

Use a secure, cloud-based platform to store and manage all your machine specific post-processor option files. Improve collaboration by ensuring PowerMill programmers can access the latest versions as soon as they become available. Avoid the risks associated with manually managing post-processors stored on your team's individual hard-drives.

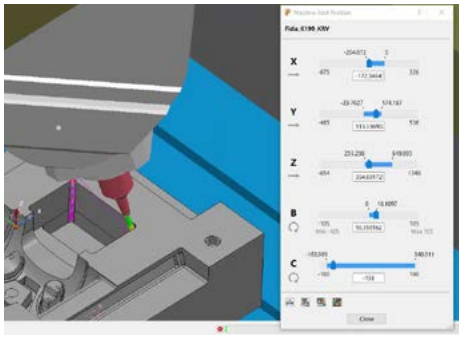
For more information visit **www.autodesk.com/MAKE**

AUTODESK.



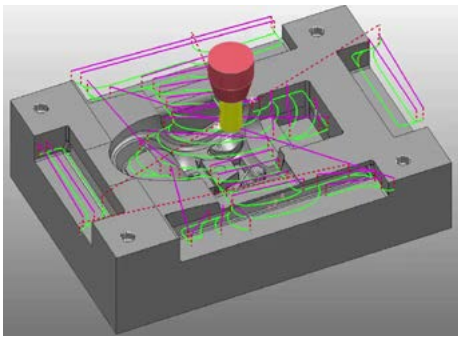
Pattern turning

Gain greater control over turning toolpaths with this flexible new strategy type. Create appropriate 2D pattern geometry and quickly convert into a turning specific toolpath for mill-turn applications. Use to produce turning toolpaths not provided by the standard suite of strategies within PowerMill.



Enhanced auto tool tilting

PowerMill 2019.1 now produces toolpaths with smoother, more stable machine motion when using the “automatic” toolaxis tilting option in combination with collision avoidance. Rotary C-axis motion is minimized for more predictable machining and a reduced likelihood of defects appearing on the machined surface.



Vortex stepover

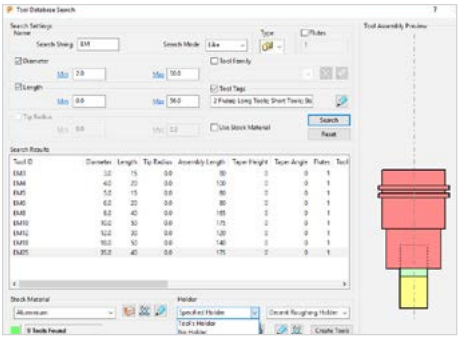
PowerMill’s Vortex high-efficiency roughing strategies now support cutting stepover values up to 99% of the tool diameter. Use with indexable cutting tools to machine larger parts more efficiently.

Improved Fusion Production interface

PowerMill’s interface to Fusion Production now allows tasks to be assigned to workcells and workstations. Previously, only workstations were available. In addition, multiple tasks can now be selected and exported to Fusion Production in a single command.

Better performance

PowerMill’s user interface is now more responsive when handling very large models. 3D offset finishing calculation times are up to 70% faster when compared with 2019.0.



Usability enhancements

Open PowerMill projects faster, especially those containing many toolpaths and model surfaces. Import one PowerMill project into another with the option to treat new models as reference models. Faster searching makes it easier than ever to work with PowerMill tools database.

> “Our customers expect things to be right every single time, the first time. Autodesk PowerMill really helps ensure we’re successful in doing that.”
>
> **– David Krajci**
> Operations Director
> 3-Dimensional Services