

AUTODESK® POWERMILL® 2017

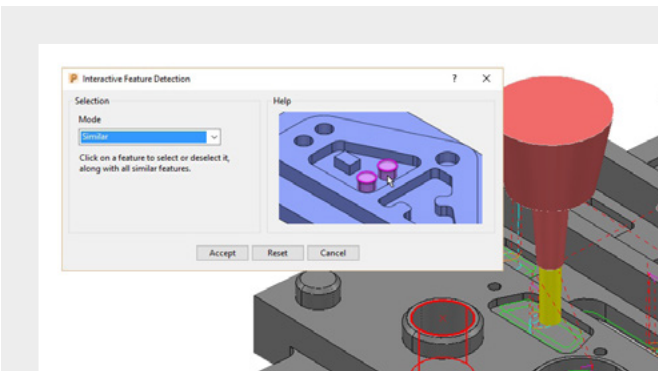
The expert high-speed and multi-axis solution

Visit www.powermill.com to find out more.

What's new

PowerMill 2017 continues to offer CAM programming tools to help manufacturers generate the high quality toolpaths they need to produce their complex parts.

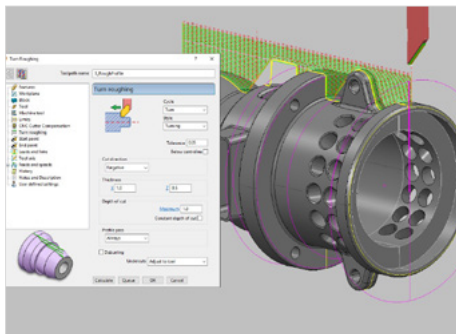
For the first time, PowerMill supports the creation of turning programs for use on mill-turn machines. Building on its reputation as an expert 3- and 5-axis CAM solution, PowerMill 2017 offers greatly improved 2.5D programming.



NEW and improved 2.5D programming

PowerMill 2017 provides an improved workflow for 2.5D programming. New interactive feature detection allows slots, pockets and chamfers to be created, grouped and edited dynamically using simple click and drag commands.

New 2.5D toolpaths offer greater programming control and efficiency.

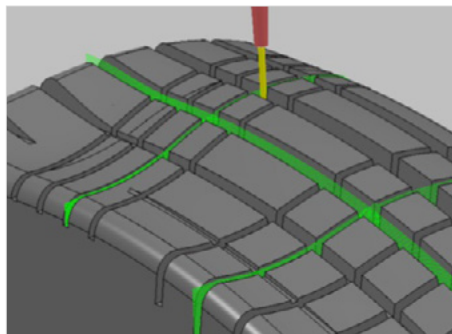


NEW turning for 5-axis Mill-turn

For the first time, PowerMill supports the creation of turning programs for use on 5-axis, mill-turn machines.

Automatically calculate spun profiles from your imported CAD and use to define profiling, grooving, boring and facing features.

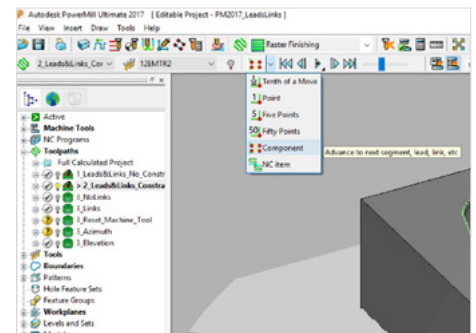
Assemble your turning specific tooling and use to create roughing and finishing toolpaths and NC programs.



More efficient rib machining

PowerMill 2017 includes improved toolpaths for the machining of deep, thin rib and slot features found in molds and dies.

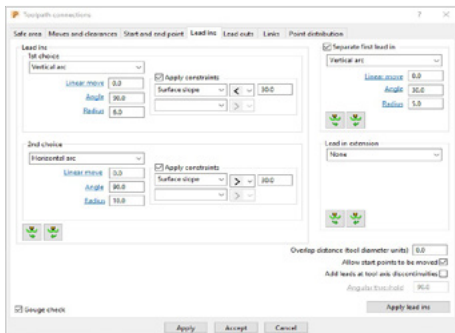
New toolpath offsetting ensures a constant tool load is achieved for prolonged tool life and reduced likelihood of premature tool failure.



Greater simulation control

Gain greater confidence in your CAM programming with improved simulation view controls. Choose to simulate individual toolpath points, links or segments.

Visualize individual toolpaths and connection moves within your NC programs for added peace of mind.

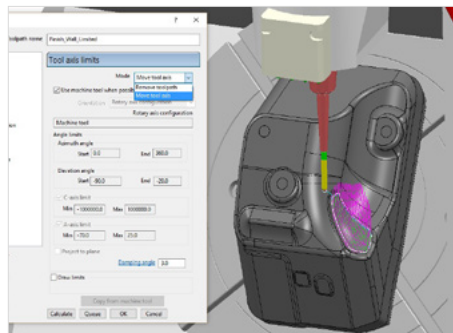


Constrained toolpath leads and links

New logical constraints offer greater control of your toolpath connection moves.

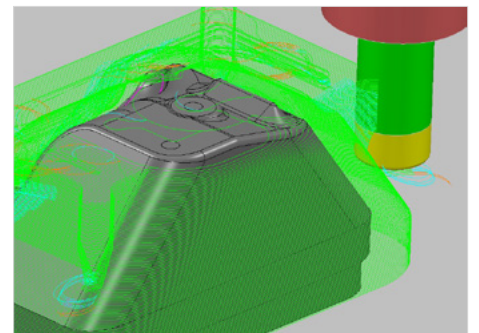
Developed to replace the existing "Short/Long Threshold", PowerMill selects the most appropriate link type based on user-defined constraints including distance, surface slope, angular change, azimuth, and elevation.

Combine up to four constraints together for even greater flexibility.



Automatic machine tool axis limits

PowerMill 2017 now allows toolpaths to be created using the rotary axis limits defined in your virtual machine tool definition (.mtd) file. Choose to delete affected toolpath segments or move the toolaxis to remain within your machine limits.



Prolonged tool life during offset area clearance

Offset area clearance toolpaths now use a variable stepover to produce fewer small upstands during machining. Minimizing the likelihood of upstands being left on your parts increases tool life and reduces the risk of premature tool failure.

"We recently purchased 5-axis machinery. PowerMill helps us do the impossible. It's the bible in the industry now."

— Andrew Gruening, Programmer | Superior Tool & Mold

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