

 AUTODESK.

 POWERMILL®

The expert high-speed and
multi-axis solution



Get expert NC programming tools for 3-axis, high-speed and multi-axis applications.

Autodesk® PowerMill® is expert CAM software for manufacturers of molds, dies and highly complex components wanting to achieve the maximum quality, control, and efficiency from their CNC machines. Access a vast library of toolpath strategies and combine with advanced optimization tools to generate the NC code needed to produce exceptional quality parts. Use powerful simulation tools to validate and enhance the motion of 5-axis machines.

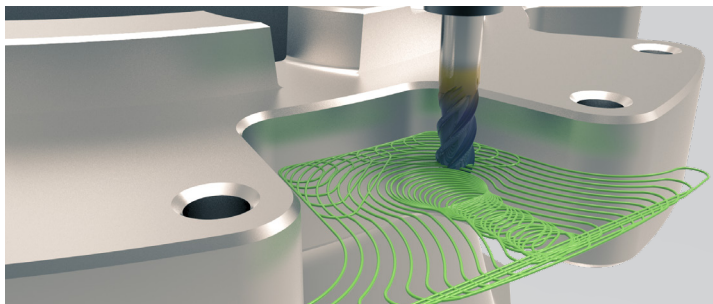
Facing these challenges?

- Reducing the time taken to create efficient NC code.
- Programming extremely large or complex geometry.
- Boosting productivity through process automation.
- Improving the precision and quality of machined parts.
- Making better use of 3- and 5-axis machinery.
- Reducing overall machining cycle times
- Minimizing manual polishing.
- Exploiting the flexibility of industrial robots
- Utilizing additive and hybrid manufacturing



Start making parts faster with expert CAM performance

Whether you're new to CAM programming or a seasoned pro - PowerMill makes it even easier to machine large or complex parts, where quality, accuracy and efficiency are critical. Ultra-efficient algorithms and exceptional levels of customization and control allow you to create, verify and optimize toolpaths to machine the most challenging parts. Boost your productivity by embedding your unique manufacturing expertise into automated templates that can be shared across your engineering team.



Reduce cycle times with high-speed machining

Manufacture parts faster with high-efficiency roughing. Use the full length of solid carbide cutting tools to help increase material removal rates, reduce cycle time and prolong tool life. Alternatively, machine larger parts with indexable tools and ultra-smooth toolpath motion to avoid hazardous cuts, protect tooling and minimize machine maintenance costs. Use intelligent 3D stock models to create efficient roughing and rest-roughing programs to remove stock with minimal air-cutting.



Improve the quality of machined parts

Access a vast library of finishing strategies and combine with a comprehensive suite of tools, including barrel cutters, to achieve exceptional levels of accuracy and surface finish. Optimize toolpaths by making global or localized edits to machine parts the way you want. Trim, reverse, divide and reorder programs without the need for wasteful toolpath recalculation. Control cutting and non-cutting tool movements to help minimize dwell marks and reduce the need for manual polishing.



Drive productivity with 5-axis machining

Use the rotary axes of machines to produce undercuts and other challenging features. Machine parts with shorter tool assemblies for faster, more aggressive milling. Go beyond 3+2 and use full 5-axis to manufacture parts with a single setup. Define a 3D digital twin of your CNC machine and use to identify and avoid collisions, near-misses, axis reversals and machine over-travel. Avoid costly mistakes and build confidence to run CNC machines “lights out” for increased productivity.



Diversify and grow a higher value business

Whether you're looking to improve productivity today or diversify into other industries in future, PowerMill offers specialized tools to help businesses grow and evolve. Use industry focused solutions to gain a competitive edge and offer your customers a higher value service:

- Automated electrode manufacture
- Off-line programming of industrial robotics
- 5-axis machining of blades, blisks and impellers
- Efficient machining of engine ports and manifolds
- High-rate additive & hybrid manufacturing

10 reasons to choose PowerMill

- Rapidly create high quality toolpaths on large, complex parts.
- High efficiency roughing strategies.
- Comprehensive library of finishing toolpaths.
- Gouge and collision free toolpaths.
- Work with surfaces, solids and STL meshes
- Automated programming with macros and templates.
- Extensive library of tool types for use with 3- and 5-axis.
- Flexible toolpath editing and optimization.
- Automatic 5-axis collision avoidance.
- Specialist tools for demanding industries and applications.

“With PowerMill, we’re seeing jobs come in weeks ahead of schedule. Builds that would traditionally take 10 weeks, we’re doing in 4 to 5.”

—**Brian Kerkstra**
Manufacturing Engineer
Paragon D&E

Download free trial at [autodesk.com/powermill-free-trial](https://www.autodesk.com/powermill-free-trial)



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

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