



What's New in GibbsCAM 2022

Simply Powerful. Powerfully Simple.

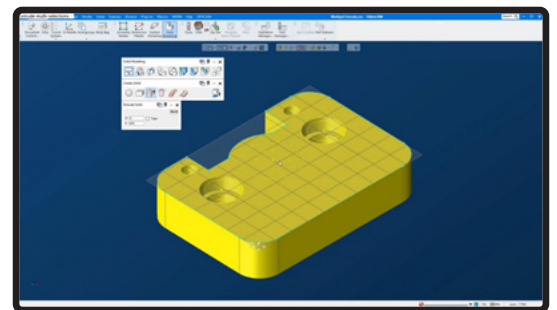
With GibbsCAM, you can easily program, simulate, and control any CNC machine—from 2D to 5-axis milling, turning, multi-task machining (MTM), and wire-EDM. GibbsCAM 2022 is even more powerful with broader surface and solid modeling, improvements such as predrilling, rotary machining, and deburring, as well as faster simulation and extended machine support.

CAD Surface & Solid Modeling

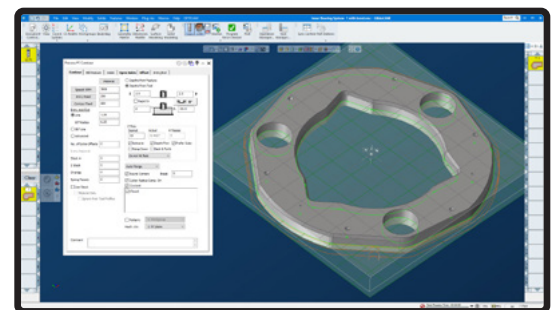
- Users can now extrude multiple bodies with taper, create surfaces as a stitched body directly from closed 2D geometry, and create trimmed planar surfaces at geometry depth instead of the CS plane. Align Edge to CS H lets you select which part edge to align with the working coordinate system for easier machining, and a new sectional view lets you easily view and select internal features of complex parts.

2- to 3-Axis CAM Toolpath

- Automated multi-shape predrilling and extended control for start and end points of profiling toolpaths ease user programming. Lathe operators can now omit radius moves on outside corners for critical diameters and reduced G-code files.
- VoluMill is now up to 60% faster on calculating rest milling operations for complex geometry, and lets users control the starting point to aid chip evacuation and reduce rapid movements for deeper pockets.



Model surfaces with extrusions, taper, and more



Control start/end points of profiling toolpaths

5-Axis CAM Toolpath

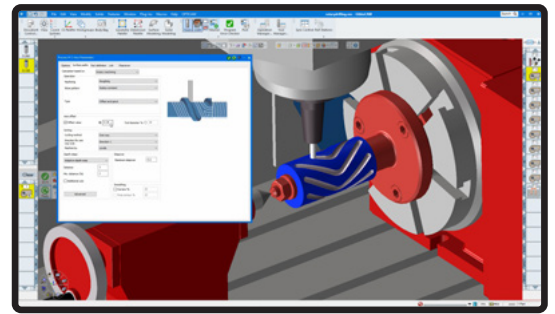
- New rotary machining strategy efficiently cuts parts with cylindrical or conical floors such as feed screws or augers. Advanced control of the tool includes off-centerline roughing, and front or back engagement of the tool point with automatic corner offset.
- New 5-axis deburring enhancements include the ability to generate multiple cuts to approximate a chamfer or fillet on an edge beyond traditional edge breaks. It is also possible to use cylindrical or conical tools for chamfering by selecting a specific contact point to keep a straight tool section. Toolpath quality is also improved for 5-axis Geodesic operations in areas where multiple surface normal instances control the toolpath.
- Other 5-axis updates include automatic tilting for collision avoidance for arc leads, the ability to select automatic tilt limits or set a fixed tilt angle relative to a selected surface normal.

Faster Simulation

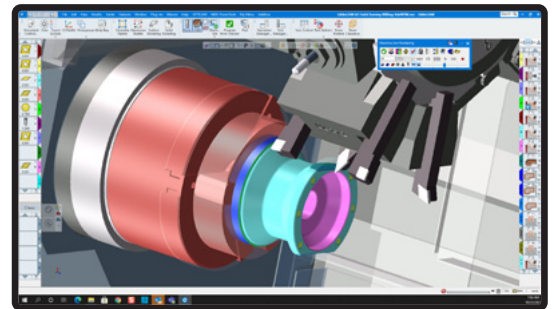
- Hide multipart cutting significantly reduces the verification time based on the number of components being machined. The use of 3D material only stock generation on multi-spindle machines can improve simulation of MTM configurations by up to 25 times. Users can now start simulation part way through a multi-flow MTM or Swiss program.

Machine Support

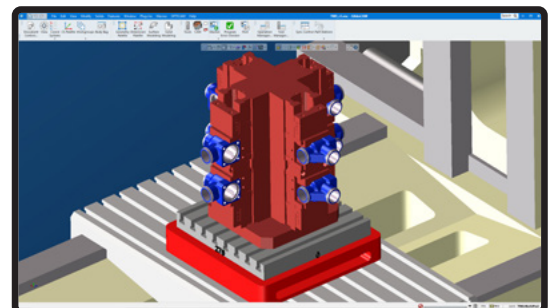
- Multiple kinematic configurations of a CNC machine are now supported within a single post package. This extended flexibility supports machines that can be configured in multiple ways, such as a 3-axis machine with or without a removable rotary table. This technology can also be extended to more complex Swiss configurations to support different parts or tooling arrangements – one part, one post, one MDD, one machine simulation model.



Rotary machining



MTM advanced machining



Multipart cutting simulation



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