GIBBSCAM

GibbsCAM GO

Module Options for Milling, Turning & Mill/Turn

www.gibbscam.com

Milling

GibbsCAM GO Milling Packages

GibbsCAM GO Milling offers simply powerful CAD/CAM software at the level that matches your business.

Choose the right milling package that matches your production needs today:

GO Milling
2.5-Axis and Simple 3-Axis with Wireframe Milling

GO Solid Milling
2.5-Axis and 5-Axis Positional with Powerful Solid Modeling

GO Pro Milling
3-Axis and 5-Axis Positional with Powerful 3D Modeling

	GibbsCAM GO **Pro Milling**	GibbsCAM GO **Solid Milling**	GibbsCAMs GO **Milling**
Basic Milling	☑	☑	☑
CutData	☑	☑	☑
VoluMill Wireframe	☑	☑	☑
Advanced CS	☑	☑	☑
Polar & Cylindrical Interpolation	☑	☑	☑
Utility Operations	☑	☑	☑
2,5D Solids	☑	☑	
Interface Package	☑	☑	
Machine Simulation	☑	☑	
VoluMill Solids	☑	☑	
Radial Milling	☑	☑	
Solid Surfacer	☑		
Additional software options & services (see last page)	☐	☐	☐

Find the description to each software option above on the next page.

Milling

GibbsCAM GO Milling Options

Basic Milling

- 2.5D Wireframe Milling
- Contouring, pocketing, thread and face milling, spiral creation, drilling, tapping, and boring are standard CNC with GibbsCAM GO Milling
- Hole-Making Sub-Routines
- Fully associative toolpaths
- Cleanup Functionality
- IGES-, DXF-Read/Write und DWG-Read
- Toolpath Visualization and Verification
- NC-data transfer to machine via RS 232

CutData

- Over 71,000 machining recommendations for feeds and speeds for use with Material Database.

VoluMill Wireframe

- Adds powerful high speed roughing functionality and controlled material removal rate for GibbsCAM Milling.

Advanced CS

- Multiple coordinate systems for modeling and 4- and 5-axis rotary positioning.

Polar & Cylindrical Interpolation

- Simultaneously drive one rotary axis (A, B, or C), with X. Includes the ability to wrap a geometry shape around a cylinder via rotary axis interpolation, keeping the tool on Y0, and rotary face milling for mill-turn machines. Supports Polar (mill-turn) and Cylindrical (mill or mill-turn) interpolation functions for controls with these functions.

Utility Operations

- Supports single flow operations (multiple spindles, milling and turning utility operations, non-standard axes [i.e. a quill or W-axis], robot, move tool group, pallet changer, bar feeder, parts catcher, steady rest, tailstock).

2,5D Solids

- Directly create or import, edit and machine 2.5D solid parts. Includes automated feature recognition for holes. High-quality toolpath maintains analytic elements.

Interface Package

- Parasolid, ACIS/SAT, STEP und VDA-Import
- Import solid model designs from Parasolid and IGES format CAD files with ability to machine with mill functionality. Also includes the direct read of SolidWorks and Solid Edge model files.

Machine Simulation

- Model machine tool and simulate machine tool motions to verify setup and all milling programs.

VoluMill Solids

- Adds powerful high speed roughing functionality and controlled material removal rate for machining solid models.

Radial Milling

- 4-Axis simultaneously drives one rotary axis (A, B, or C) with X, Y, and/or Z. Supports Y-axis off- center milling for radial prismatic parts defined by solid models or 3D geometry.

Solid Surfacer

- Create and machine 3-axis solid and surface part models. Import Parasolid and IGES CAD files with ability to repair and modify. Generate automated roughing and finishing cycles with Gouge-free toolpaths.

Turning

GibbsCAM GO Turning Packages

GibbsCAM GO Turning offers simply powerful CAD/CAM software at the level that matches your business. Level up to a higher capability solution at any time to take advantage of greater feature set. Choose the right milling package that matches your production needs today:

GO Turning
2-Axis Fulling Functional Wireframe Machining

GO Solid Turning
2-Axis Turning with Powerful Solid Modeling and Simulation

	GibbsCAM GO **Solid Turning**	GibbsCAM GO **Turning**
Basic Turning	☑	☑
CutData	☑	☑
VoluTurn	☑	☑
Advanced CS	☑	☑
Polar & Cylindrical Interpolation	☑	☑
MTM Level 1	☑	☑
2,5D Solids	☑	
Interface Package	☑	
Machine Simulation	☑	
Additional software options & services (see last page)	☐	☐

Find the description to each software option above on the next page.

Turning

GibbsCAM GO Turning Options

Basic Turning

- 2D Wireframe Turning
- Full functionality for contouring, automatic roughing, multiple hills and valleys, plunge roughing, threading, repetitive shape roughing, drilling, tapping and boring.
- Hole-Making Sub-Routines
- Fully associative toolpaths
- IGES-, DXF-Read/Write und DWG-Read
- Toolpath Visualization and Verification
- NC-data transfer to machine via RS 232

CutData

- Over 71,000 machining recommendations for feeds and speeds for use with Material Database.

VoluTurn

- Adds powerful high speed turning solution for GibbsCAM Turning. Ideal for reducing tool wear with round inserts in hard materials and superalloys.

Advanced CS

- Multiple coordinate systems for modeling and 4- and 5-axis rotary positioning.

Polar & Cylindrical Interpolation

- Simultaneously drive one rotary axis (A, B, or C), with X. Includes the ability to wrap a geometry shape around a cylinder via rotary axis interpolation, keeping the tool on Y0, and rotary face milling for mill-turn machines. Supports Polar (mill-turn) and Cylindrical (mill or mill-turn) interpolation functions for controls with these functions.

MTM Level 1

- Supports single flow operations (multiple spindles, milling and turning utility operations, non-standard axes [i.e. a quill or W-axis], robot, move tool group, pallet changer, bar feeder, parts catcher, steady rest, tailstock).

2,5D Solids

- Directly create or import, edit and machine 2.5D solid parts. Includes automated feature recognition for holes. High-quality toolpath maintains analytic elements.

Interface Package

- Parasolid, ACIS/SAT, STEP und VDA-Import
- Import solid model designs from Parasolid and IGES format CAD files with ability to machine with mill functionality. Also includes the direct read of SolidWorks and Solid Edge model files.

Machine Simulation

- Model machine tool and simulate machine tool motions to verify setup and all turning programs.

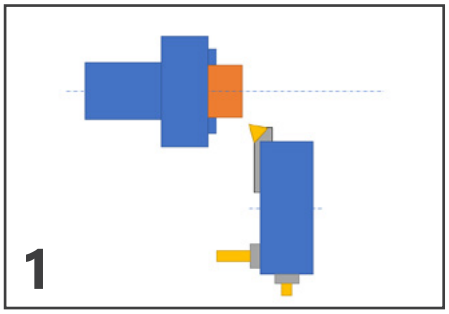
Mill Turn / MTM

GibbsCAM GO MTM

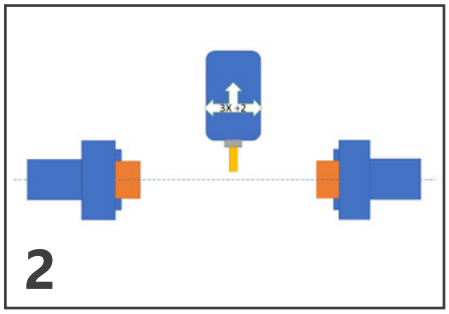
GibbsCAM GO MTM is available by combining GO Turning with the GO Milling Solid or GO Milling Pro package and adding the MTM Advanced module for more complex machine configurations and Swiss Style machines. No matter what features your machine has, we have the right solution for you.

For the 15 different machine configurations show, you will find the modules you need for programming your machine listed here. Additional modules (page 8) can be added.

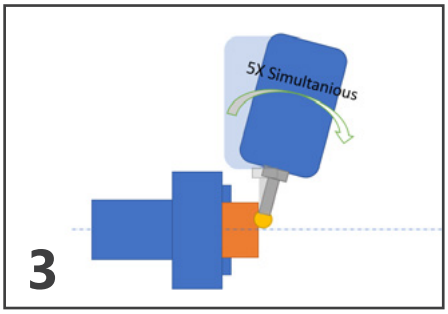
A machine model assembly kinetic is recommended for 3D simulation on each different machine make.



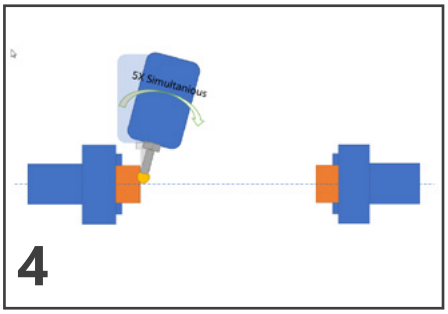
- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- Basic Postprocessor



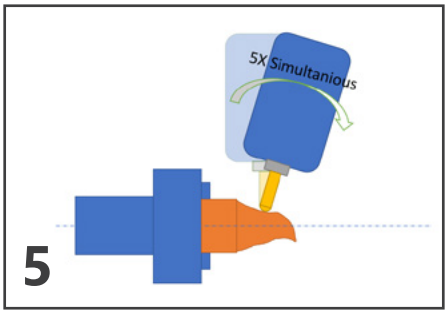
- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- Standard Postprocessor



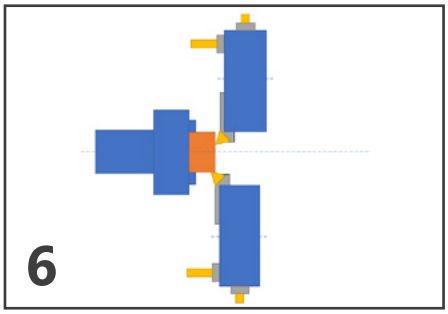
- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- 5-Axis Simultaneous Milling
- Standard Postprocessor



- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- 5-Axis Simultaneous Milling
- Standard Postprocessor

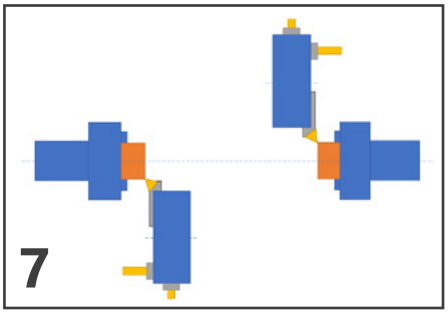


- GibbsCAM GO Turning
- GibbsCAM GO Pro Milling
- 5-Axis Simultaneous Milling
- Standard Postprocessor

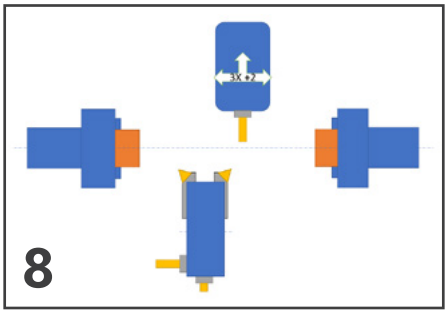


- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- GibbsCAM MTM Advanced
- Standard Postprocessor

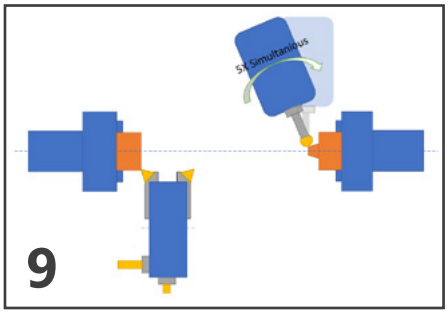
GibbsCAM GO MTM
(continued)



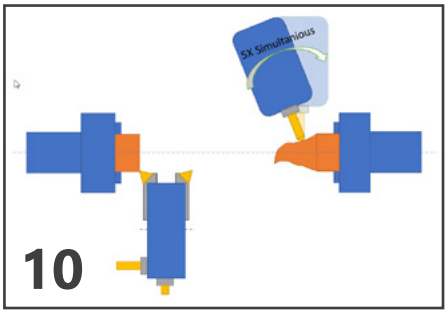
- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- GibbsCAM MTM Advanced
- Advanced Postprocessor



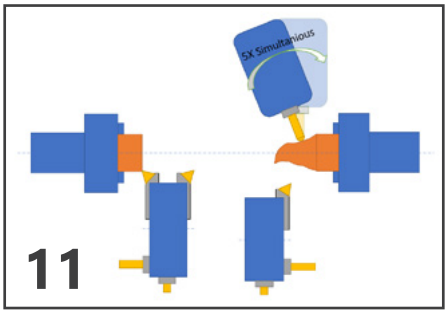
- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- GibbsCAM MTM Advanced
- Advanced Postprocessor



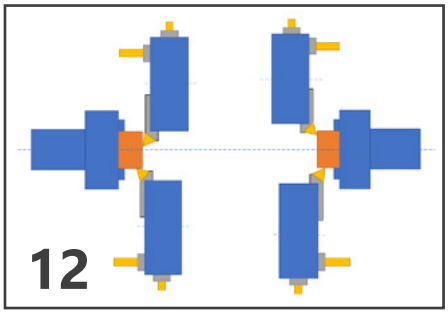
- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- GibbsCAM MTM Advanced
- 5-Axis Simultaneous Milling
- Advanced Postprocessor



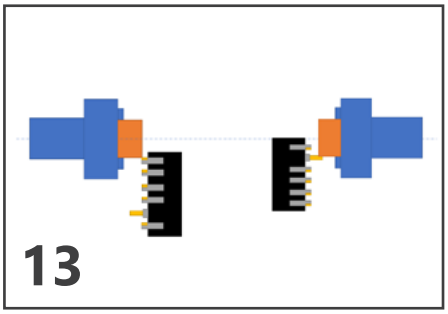
- GibbsCAM GO Turning
- GibbsCAM GO Pro Milling
- GibbsCAM MTM Advanced
- 5-Axis Simultaneous Milling
- Advanced Postprocessor



- GibbsCAM GO Turning
- GibbsCAM GO Pro Milling
- GibbsCAM MTM Advanced
- 5-Axis Simultaneous Milling
- Ultimate Postprocessor



- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- GibbsCAM MTM Advanced
- Ultimate Postprocessor



- GibbsCAM GO Turning
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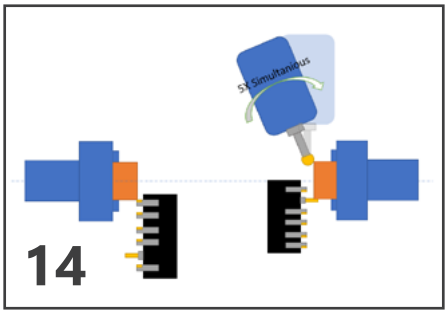
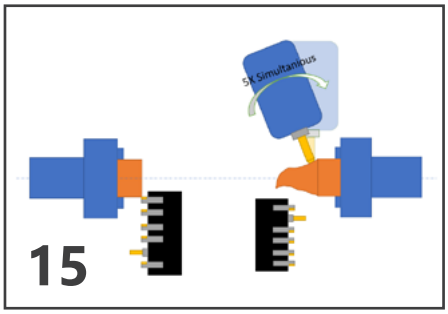
- GibbsCAM MTM Advanced
- Ultimate Postprocessor



- GibbsCAM GO Turning
- GibbsCAM GO Solid Milling
- GibbsCAM MTM Advanced
- 5-Axis Simultaneous Milling
- Ultimate Postprocessor



- GibbsCAM GO Turning
- GibbsCAM GO Pro Milling
- GibbsCAM MTM Advanced
- 5-Axis Simultaneous Milling
- Ultimate Postprocessor

GibbsCAM Enhancements

Additional Options & Services

5-Axis Simultaneous Milling

- 5-Axis simultaneously drives two rotary axes (A, B, and/or C) with X, Y, and/or Z. Supports freeform 3D solids and geometry (impellers, etc.). Requires GO Solid Milling or above and a Standard post.

5-Axis Multi-Blade

- 5-Axis Multi-blade option extension for advanced impeller and turbo machinery applications; adds choices to the 5-Axis Milling process. Requires 5-Axis Milling and a Standard post.

5-Axis Porting

- 5-Axis Milling option extension for machining complex 5-Axis ports and tubular shapes; adds choices to the 5-Axis Milling process. Requires 5-Axis Milling and a Standard post.

MTM Advanced

- Supports multiple flow operations (typically two or more turret CNC machines), multiple tool groups/ turrets, advanced turning and milling capabilities.

Tombstone Management

- Position and program multi-part setups on tombstone fixtures, automatically generating WFOs and rotary moves.

Probing

- Supports on-machine measurement, includes new probe tool types and noncutting probe simulation. Includes Basic, Generic and Custom Probing capabilities.

Optional Direct CAD Interfaces

- CATIA V4, V5, V6 Reader
- Creo Parametric Reader
- NX Reader

Post Processor Modules

- Postprocessors are individually adapted to your machine to make its full power available.
- Machine Model Assembly
- For simulation and collision check under real conditions, you need a CAD model of your machine.

Training

- Good training is the cornerstone for profitable use of a CAM system. Contact your local GibbsCAM partner to discuss your individual training classes.

Implementation Support

- To be productive from day one, you can tackle the first prgramming tasks together with our specialists.

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