



3D SYSTEMS®
GibbsCAM®

2020 Newsletter Spring/Summer

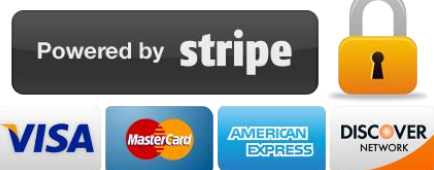
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SolidWorks Add-in for
GibbsCAM

[DOWNLOAD HERE](#)

For more details see page 3

We now accept credit
cards.



Reminder

3D Systems, GibbsCAM, and Midwest CAM Solutions, offer a multi-level team of on-going focus and support resources. You can rest assured that your investment in GibbsCAM software technologies will be secure now and into the future.

From industry leading software development advancements, through sales, support, post, training, consulting and user implementation, you can count on us. We are always here to assist with programming, post edits, or software concerns...”Just let us know!



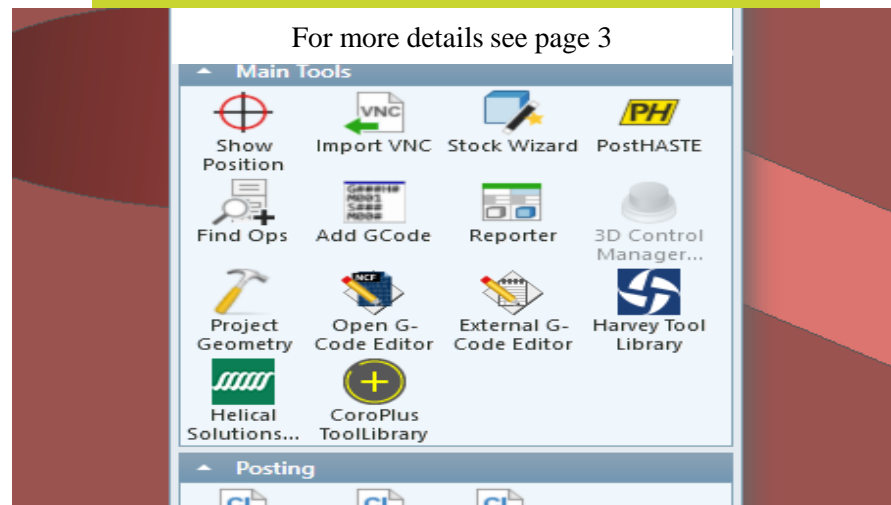
Accelerating into the future GibbsCAM V14 Road Map has arrived.

Every year great news arrives with each new release and V14 has a huge list that will create a lot of excitement for all users. Accomplishments today were only dreams from yesterday. For years we have been using facet bodies (cut part solids) for stock knowledge which has been the way we worked and it had to be managed by user creation. GibbsCAM V14 delivers full stock management for material only cutting and works between milling and turning plus multiple coordinate system usage. This will be a huge surge in productivity and there will be no need to update the facet bodies like in the past. Users can still use a special facet body if needed for any special control. This new enhancement will change the way we work and think. Now in GibbsCAM V14, there are new standard cycles for Variable Peck/Peck Tapping and even Gun Drilling. Added new pull-down menu for standard drill selections, number/letter/fractional sizes. New IPR/MMPR controls and new Parametric Turning Holders for quick easy adjustments as needed. Added new preference to activate CS from selected operations. Added new process comments for more added value plus so much more. All these little things become huge advantages for GibbsCAM users. The Renishaw plug-in has been replaced with native GibbsCAM Probing and now support all probe types. All new Wire EDM with built in high-end technology. For the first time ever newly added first in its class Hybrid Printing from 3D Systems-GibbsCAM. Supports Hybrid printing additive and subtractive machining for all machine types. New 5 axis enhancements, much better automatic contact controls and tilting for taper barrel tangent, etc. Medial axis guide curve for geodesic spiral swarf milling, may support form tools. Open beta projected late spring and official release targeting IMTS time frame which is early September. 3D Systems & Midwest CAM Solutions will be offering GibbsCAM V14 Roll Out sessions as in the past. Watch for our announcement soon! *We look forward to seeing you all there.*

Complete GibbsCAM V14 Road map can be found on page 2

Harvey Tool partners with GibbsCAM

For more details see page 3



GibbsCAM Version 14 Highlights

ALL NEW WIRE EDM OPTION

New Wire EDM option solution based on existing high-end technology
Includes detailed technology database for all major machines

ALL NEW GIBBSCAM PROBING OPTION

New option for on-machine measurement
Includes new probe tool types (supports all probe types) and noncutting probe simulation
Basic probing: "Add G Code on steroids"
Clearances & cycle start point only - no cycle simulation
Simple post upgrade
Custom probing: supports macro language expansion (like custom drill cycles), and plugin extensions for specific machines
Needs custom macro/plugin development *and* extensive post upgrade
Standard packages may be available from 3rd party developers

ALL NEW DEPOSITION ADDITIVE AND HYBRID PRINTING OPTION

Targeting metal deposition machines with traditional kinematics and conventional CNC controls
Generally built by established CNC machine tool manufacturers (Mazak, DMG Mori, Okuma, Mitsui Seiki, etc.)
Special emphasis on hybrid machines capable of BOTH additive and subtractive operations

NEW ENHANCED DIMENSION PALLET

Rework dimensioning UX
Remove annoying modality from Dimension palette
Explicit single/multiple dimension toggle
Commands from Custom UI and palette should behave the same
Preview before completing dimension, with cancellation
Two new dimension types (Angle to H Axis/Angle to V Axis)

MATERIAL ONLY BETWEEN

Mill and Turning operations
Milling ops performed in different coordinate systems (no need for Facet bodies to set as stock)
Non-lathe turning operations performed in different CS

MISCELLANEOUS NEW AND ENHANCED FEATURES

Better fixture control for both IT and workspace fixtures
Clearance visualization
Intermediate Tooling preview in Tool Dialog
Improved clarity of generic Machine Setup
Tool List Editor
Search, sort and import tools from saved tool lists
Add-Remove tools in existing tool list files
New Letter-Number & Standard Drills (Pull down selection)
New Parametric turning toolholders for quick changes
New Process comments now will load in with saved processes
Combinatorial coolant capabilities (Mix Coolant Options)
IPR-MMPR feed rates for milling processes
New standard drill cycles (Variable Peck, Peck Tap, Gun Drill)
New preference added to activate the machining CS when double-clicking operations
GibbsCAM V14 completes the UKM function suite
Added U-Axis Turning motion in simulation
MTM Mill enhancements (mill cutoff, double milling with shared axes, swappable heads)
Stacking of multiple Intermediate Tooling components
UKM will continue to see improvements in future versions of GibbsCAM as the industry evolves

ADDED MATERIAL RECOGNITION FROM

Cylindrical, Radial, and 5-axis milling
Elliptical Turning
3D Milling (Surfacing, Z-Ramp and Bottle Mold Contour, Project 2D Tool Path)

NEW 5 AXIS ENHANCEMENTS

Much better automatic contact point control and tilting for barrel and circle-section (tapered barrel/tangent/etc.) mills.
Medial axis guide curve for geodesic, spiral swarf milling, and maybe even form tool support

NEW CAD TOOLS

Another is a new sketching function called "Mouse Shape" which extends the same basic principle from Mouse Line/Mouse Point to work for circles, rectangles, engraving text, polygons, ellipses, etc. First click sets the anchor location, second click sets the size/direction. Really handy for quickly drawing containment shapes and such

SolidWorks Add-in for GibbsCAM

This installed add-in makes it possible that when a Solidworks file is saved, GibbsCAM can read in all of the feature attributes. Then when a solid is imported into GibbsCAM all the attributes will be saved in the Feature Manager and Hole Manager making it super simple to select any of these features and holes created. Also, hole wizard data for AFR is recognized.

If Solidworks and GibbsCAM are not installed on the same computer you will need to run this Add-In on your SolidWorks seat.

[Click here to go to the Add-in download page.](#)

For GibbsCAM users with Solidworks on the same computer you will need to make sure you check the boxes for all the appropriate cad programs you may want to have supported by GibbsCAM. In this case “SolidWorks”.

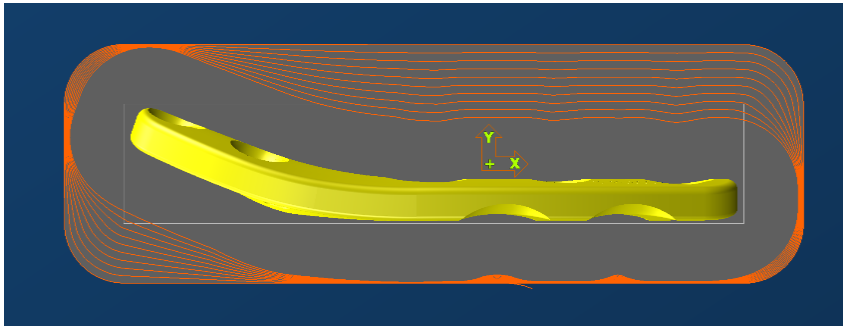
Harvey Performance Company Partners with GibbsCAM

January 7, 2020 (Rowley, MA) – Harvey Performance Company is proud to announce a new partnership with GibbsCAM, a powerful single interface CAM system developed by 3D Systems. GibbsCAM offers solutions ranging from simple 2-axis milling and turning to complex Multi-Task Machining, making them a great partner for the Harvey Performance Company family of brands.

As a result of this new partnership, GibbsCAM users can expect to see new Harvey Tool and Helical Solutions end mill libraries immediately available within GibbsCAM as a new plugin. This plugin will be included with all new releases of GibbsCAM, and will be available once users update their software to the latest version. In the future, users can expect additional tool libraries containing specialty profile tools, hole-making/threading tools, and tooling from Micro 100.

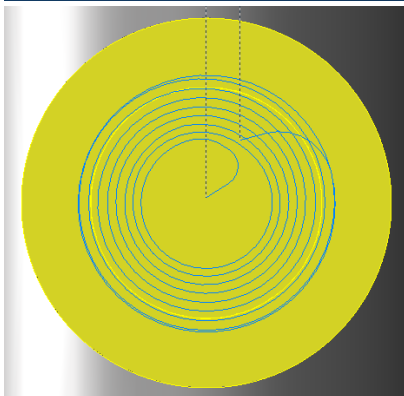
GibbsCAM users interested in accessing these new tool libraries can [visit our FAQ page](#) to learn more.

Training is so important to advance into the future and maximize your profits



GibbsCAM is an Amazing CAM software choice.

Most users can get started by watching a short video or do some basic training or attend one of our basic evening classes 5:00-9:00 offered at Midwest CAM Solutions. Self-teaching is good but do not underestimate the need for real instructions. Since 1994 we have been offering evening training for our customers. It has been great watching our customers grow and learn. We now have 6 great instructors that are experts with GibbsCAM and they help our



customers with each and every class they attend. The Advanced 3D class is a two-day class normally 1-2 weeks apart and offered from 8:00-4:30. You will find 14 different strategies within the Adv-3D option and one of my favorites is Adaptive Roughing. With Adaptive Roughing you will get a perfect spiral style tool path. This is great for all core machining; you can use the same speeds and feeds that you would use in a VoluMill tool path. If you want to plunge into the center of a c-bore and just spiral outward and do a cleanup pass at the end it's all automatic. If the tool is just a couple of thousands smaller it will still feed into the center and work its way outward. The Adaptive feature is a true Trochoidal tool path engine and is very easy to use. It offers micro lifting with high feeds instead of rapid moves. Feel free to sign up for any of the classes offered or sign up for some custom training to focus on your parts, your machines and your people.

Customer Statement

"It's been 8 months since I started using advanced 3D, the thing I have noticed is the time savings (significant at times) in roughing processes in existing programs that I have used the standard roughing process and or VoluMill. Tool paths and a constant feed also have increased tool life."

"Thanks!"

Mike Lessard

Batten Tool & Machine

Midwest CAM Solutions 2020 In-House Training Center New Hope, MN

Basic Mill – Tues evening (24-Hrs, 1-Class per Week, 5-9pm) Cost: \$950

Advanced CS - Monday evening course (24-Hrs, 1-Class per Week, 5-9pm) Cost: \$950

Lathe - Thursday evening course (24-Hrs, 1-Class per Week, 5-9pm) Cost: \$950

Macro Creation - Wed evening course (24-Hrs, 1-Class per Week, 5-9pm) Cost: \$950

*Spring Classes will begin the week of April 6th, 2020 [“Sign up on line”](#)

*Summer Classes will begin the week of July 6th, 2020 [“Sign up on line”](#)

Custom Day Training Options

Advanced 3D Solids 2-Day Course (16-Hours) @ MWC Cost: \$500 per Student [“Sign up on line”](#)

Custom Lab Training @ MWC - \$500/Half-Day or \$1000/Full-Day

Customer Onsite Training - \$650/Half-Day or \$1300/Full-Day

Mobile Training Lab - \$1700/Full-Day (MWC provides up to 7-Laptops + Projector)

**Travel and Expenses may apply, depending on distance and scheduling needs.*

Regional Training with Midwest CAM Solutions Mobile Lab

Our Mobile Lab Training is a perfect way to get you and your team up to speed with GibbsCAM technologies and new user functionalities. We can come onsite and train up to (7) students with our Mobile User Laptop Programming Stations.

**This allows each student a full “hands on” learning experience.*

GibbsCAM On-Demand Training Assistant

Expert GibbsCAM Training at your Fingertips 24/7. This New Online On-Demand GibbsCAM Video Library is accessible with a small Monthly-Annual Subscription Fee. Visit [“gibbscamtraining.com”](#)

GibbsCAM Detailed Programming & Tutorial Manuals

Enhanced Full Color, Illustrated Manuals are Now Available from CAM-Solutions, and can be Purchased Directly from their On-Line Store. These are very well done. There is a Full Set of (5) Manuals available! [“Gibbscamcollege”](#)

“Call to register for your next class (763) 560-6567” or [“Sign up on line”](#)

We at Midwest CAM Solutions are excited to announce the addition of Tom Frye to our support team.

Tom lives and will be working from Wichita Kansas making him and training easily available to your team.

Tom Frye is now available to offer onsite training for you and your team at a reasonable cost.

Please feel free to reach out to Tom with any questions or needs you may have with your GibbsCAM Software.

E-mail: Tom@mwccprogrammingsolutions.com Phone: (316) 207-4302

IT'S PROVEN.

**MIDWEST
CAM SOLUTIONS**
POWER. PERFORMANCE. PURPOSE.

For decades, GibbsCAM has performed like no other, and yet, no other software platform has proven itself to be so **easy to use**, **more robust in it's capability** and more open to customization and creativity.

And now, with the support of **3D Systems** and **Midwest CAM Solutions**, **GibbsCAM** users offer even more positive commentary about this great product.

Is it proven? You bet.

You deserve CAM software that's
“Powerfully Simple and Simply Powerful”[®]

“GibbsCAM has helped me tremendously with programming the Miyano BNX51 machine. Before, we struggled with the modes in correct places; we did not know the machines and programs were not going into the machines if the sync codes were not correct. With GibbsCAM, we have full-simulation set-up, I can easily check for errors and see all the tools in the holders.”

Jake Volk, Precision Tool Technologies, Brainerd, MN

Contact Midwest CAM Solutions today.
No risk **30-Day Guarantee**. Free Demonstrations.
Full team support, service and training.
Call **763-560-6567** or toll free at 877-444-0982.
www.midwestcamsolutions.com

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