What's NEW in Vericut 9.6

IMPORTANT! – Licensing is NOT included with software shipments. See “To Get a License” below for details

June 26, 2025

Dear Vericut® User:

Thank you for your continued investment in Vericut, an important part of your NC programming and machining process!

We're excited to introduce Vericut 9.6 — a major leap forward with faster performance, an enhanced interface, and the debut of the Vericut AI Platform, featuring the new Vericut Assistant (VA) an exciting new feature available directly within Vericut. VA is a cutting-edge, AI-driven solution that acts as a centralized knowledge resource for all Vericut software offerings. To learn more about the Vericut AI platform, including the all new Vericut Intelligence (VI), please visit: Vericut.com and Press Release

This release is packed with enhancements designed to boost performance, increase productivity, and unlock new levels of efficiency.

Maintenance and Licensing Information

NOTE: This software requires Vericut 9.6 licensing

To Get a License – use the link below to submit a License Request:
https://vericut.com/support/request-license

Licensing is sent via email only.

Software maintenance keeps you on the cutting edge - CGTech provides update software to customers with current software maintenance. Your continued maintenance ensures that you have the most advanced verification technology available. If your maintenance has expired, please contact your CGTech representative (https://vericut.com/company/contact-us).

Sincerely,

Ely Wahbeh

CGTech Vericut Product Manager

Vericut 9.6 Release Highlights

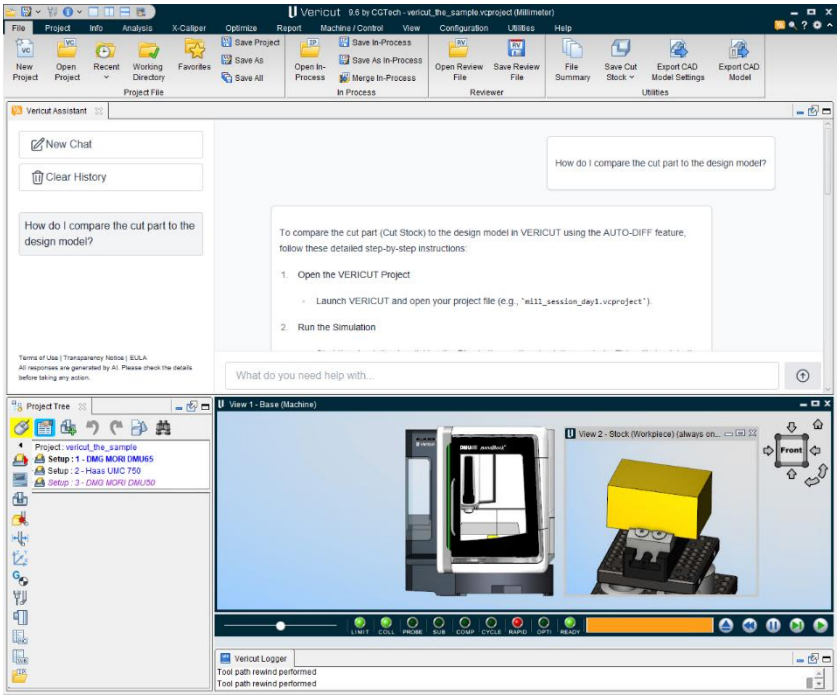
Vericut Assistant: Step-by-step Practical Guidance

Vericut Assistant (VA) focuses on guiding users through practical applications of Vericut's features.

VA provides clear, step-by-step instructions for tasks like:

- How do I compare the cut part to the design model?
- How do I create coordinate systems?
- How do I stop the simulation at each error?

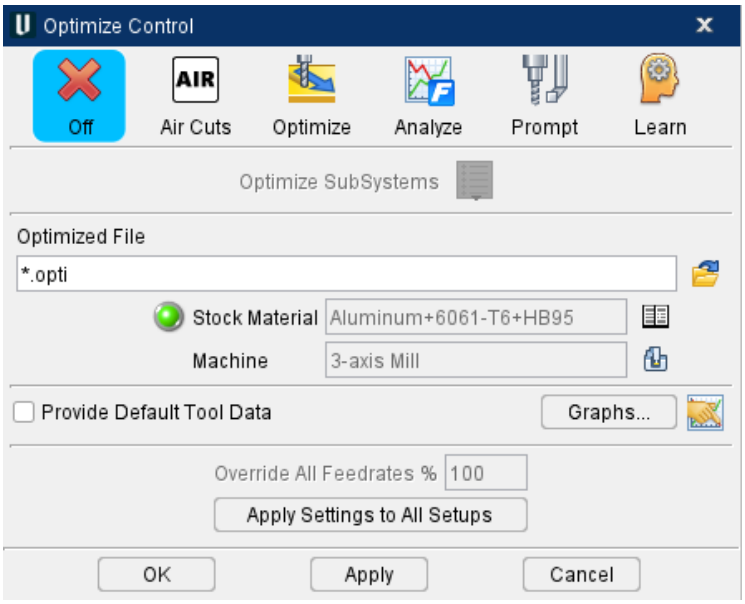
VA will also evolve to interact directly with the software, performing actions such as "Add a tool with these criteria."
This evolution will streamline workflows and empower users with actionable insights.



Optimize Control window

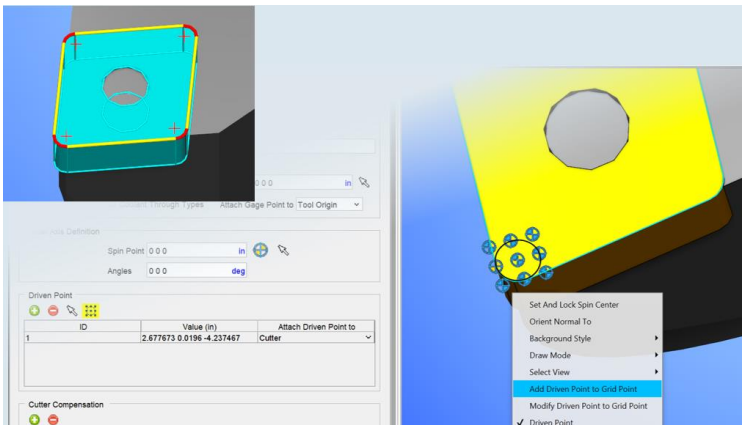
The Optimize Control window has been redesigned with a simpler, cleaner interface:

- Top level icons have replaced the old pulldown options for selecting optimization mode.
- Provide Default Tool Data and Graphs features are visible on every tab.
- Provide Default Tool is set to on by default.
- Static grouping options have replaced pulldown or expandable menu options.



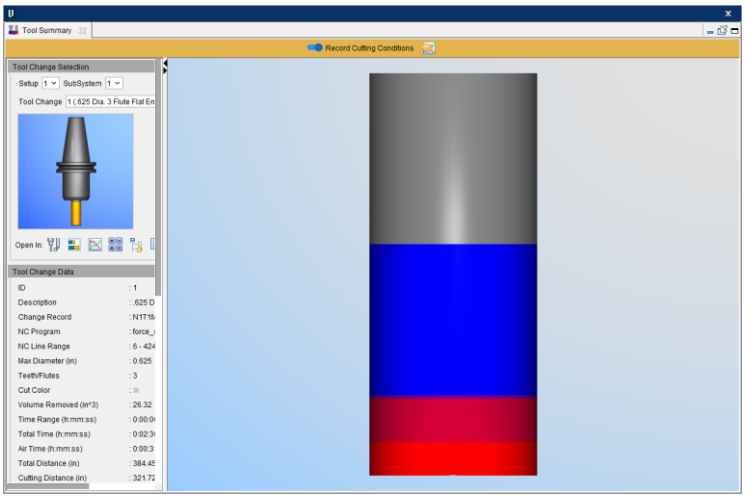
Driven Points and Qualified Dimensions

New Cutting Face display in Tool Manager shows curves and segments on imported turning inserts. New functionality to view and select desired Driven Point from interactive 3x3 point grid that also creates the Qualified Dimension. Includes new option to define Nose Radius with 3 points from Cutting Face.



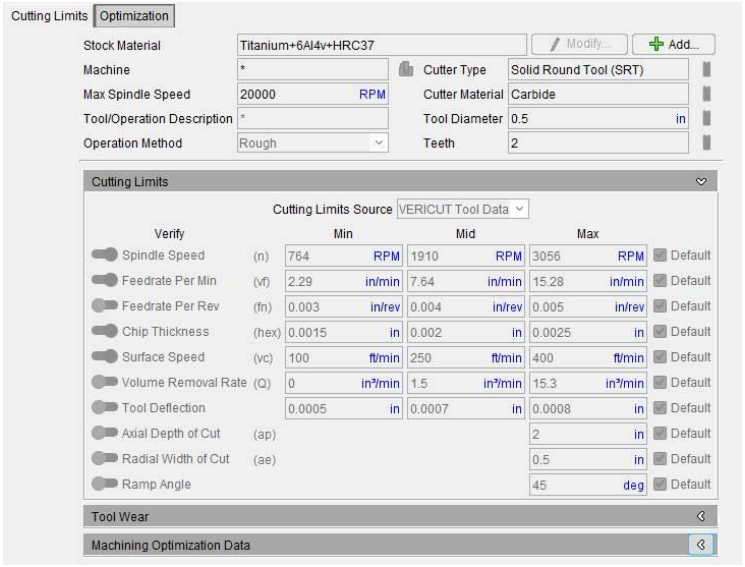
Tool Summary

The Tool Summary panel has been revamped to mimic the Graphs panel in some key ways such as presenting tool change data in the side panel.



Tool Performance Data

Tool Performance Data and Cutting Limit Data have been expanded to include a broader range of cutter types for materials.

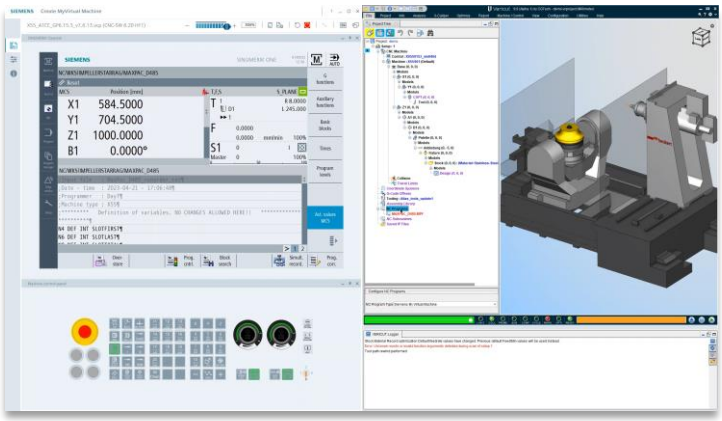


Over 1800 more material/cutter types have been added.

In	SRT	Micro	Rough	Carbide	Straight
mm	IDX	Reg	Finish	HSS	Serrated
		90d		Cobalt	Wave
		45d		Ceramic	
		BUT			
		HF			
		DFR			
		Ball			

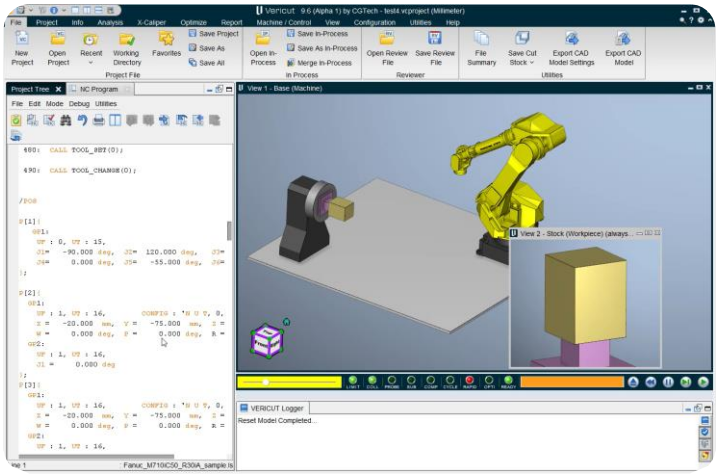
Interfaces
Run My Virtual Machine

Support for Siemens Run My Virtual Machine has been added. This feature reads and translates G-code and PLC commands then drives Vericut to do the material removal and collision checking.



Fanuc TP Language

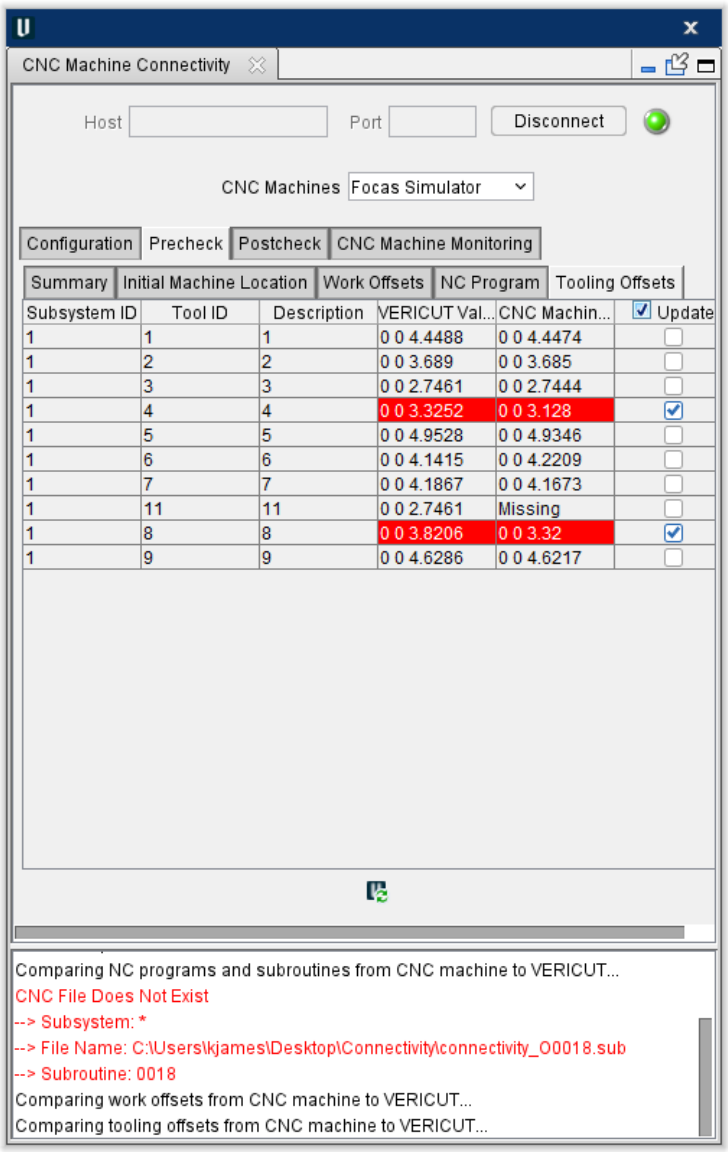
Support for Fanuc robot language Teach Pendent (TP) has been added.



CNC Connectivity

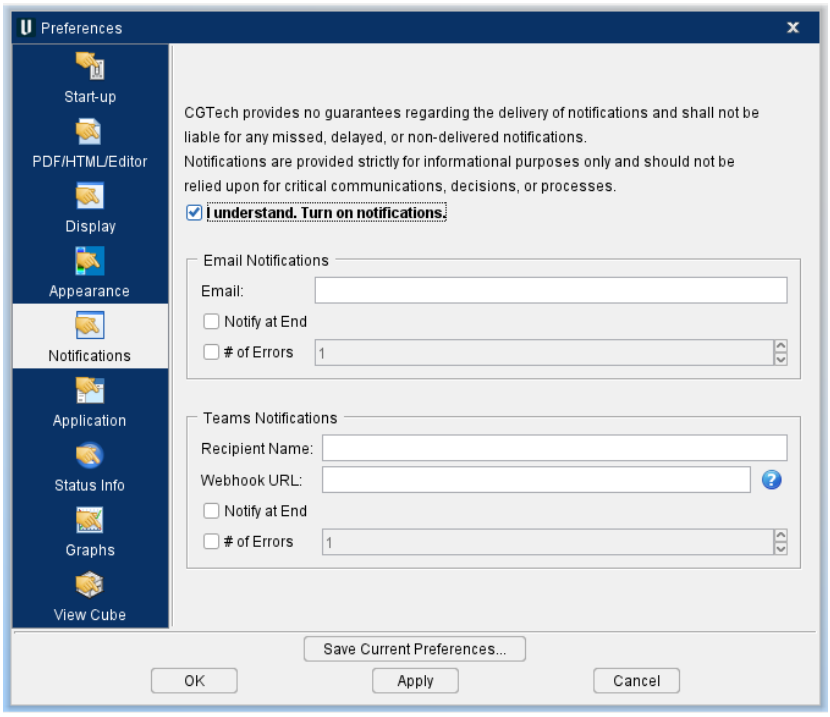
The Machine Connectivity panel (Utilities tab > Machine Connectivity) has been enhanced in various areas:

- Allow CNC Machine Monitoring to work with partial Spindle Mapping.
- If axes are not mapped in the Configuration > Axis Mapping tab, then do not display those axes in the Precheck Initial Machine Location tab.
- If axes are not mapped in the Configuration > Axis Mapping tab, then do not display those axes in the Precheck > Work Offsets tab.
- Precheck for Tooling Offsets now only looks for tools in that .vcproject to reduce the time to run Precheck.
- Specific to Nakamura multi turret multi spindle machines, incorporated special method to calculate Tooling Offsets.



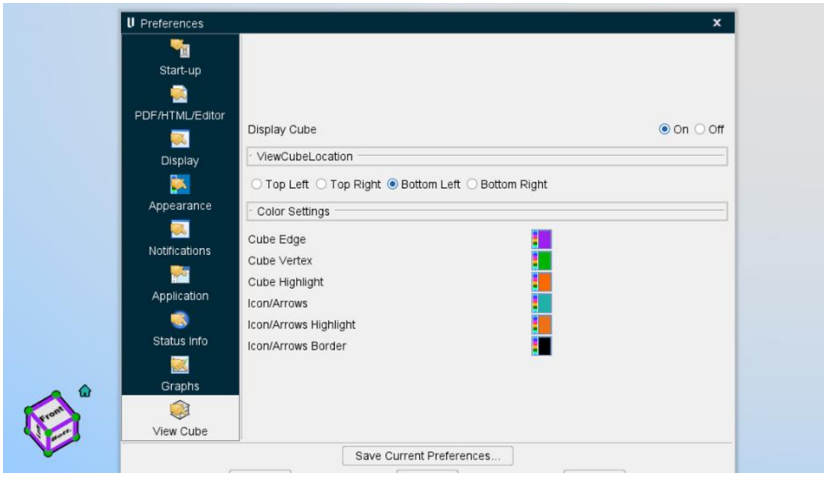
Preferences
Notifications tab

The option to receive notifications can be turned on in the Preferences window. You can choose to receive notifications to Outlook and Teams as well as specifying when you want to receive these notifications and the number of errors that should be logged.



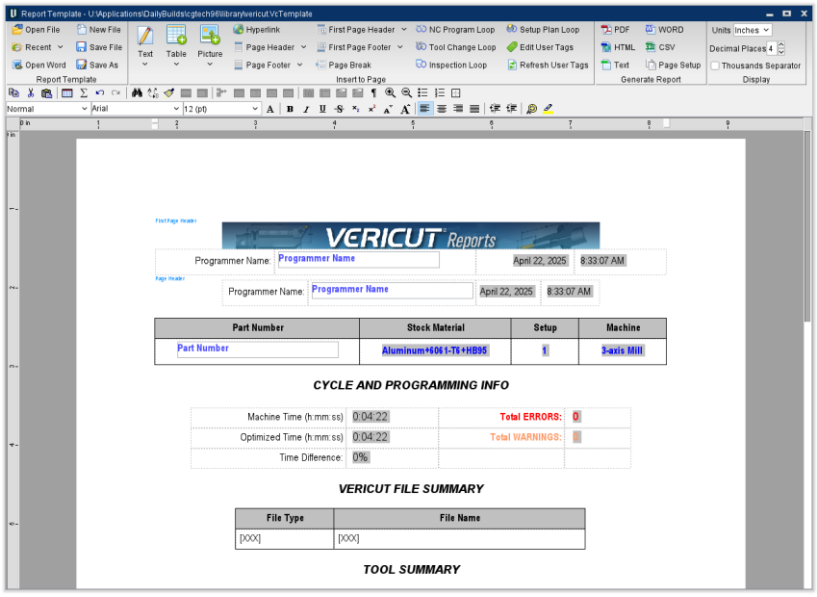
View Cube tab

Users can now position the View Cube in any corner of the graphics area.



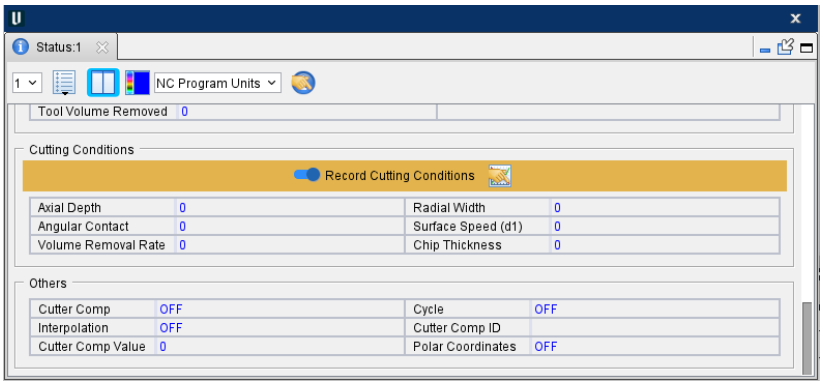
Reports

The Reports tool bar has been revamped and streamlined. The flow is now like Microsoft Word which makes it more intuitive for users and consequently it offers significantly more formatting options than before.



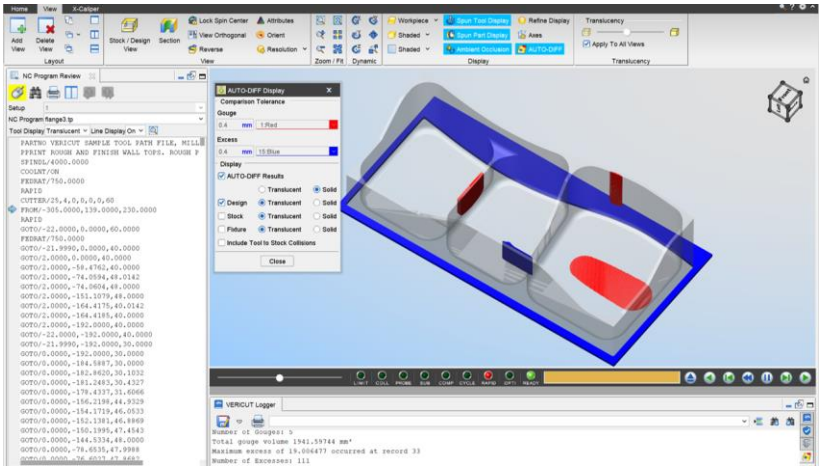
Status panel

The Cutting Conditions section of the Status panel displays more information including Axial Depth of Cut and Angular Contact.



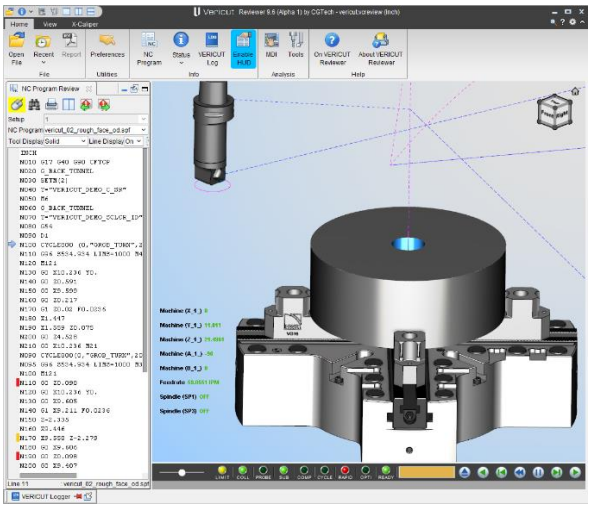
Reviewer
AUTO-DIFF

AUTO-DIFF has been added to Reviewer.



HUD

Heads-Up Display has been added to Reviewer. It can be accessed by Home tab > Enable HUD.



Hot Keys

Reviewer can now be controlled through hot keys. Each key is mapped to an action in Reviewer:

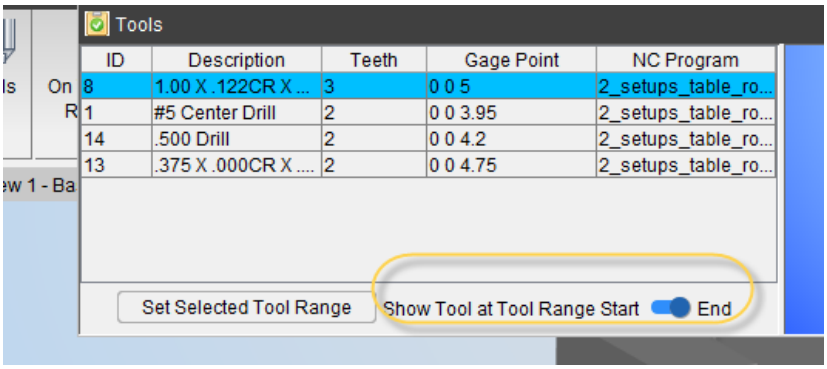
- UP/DOWN Arrow key: Step Forward/Back
- HOME key: Reset
- END key: Set current to the end of program
- Page UP key: Go to the beginning of current tool change
- Page DOWN key: Go to the end of current tool change

Several quick key functions to enhance the interaction:

- S: Set Start at the line where the cursor is
- E: Set End at the line where the cursor is
- C: Set Current at the line where the cursor is

Show Tool at Tool Range Start/End

Added options to show Tool at the beginning or end of tool change range when a Tool Change Range is Set (Through Tool List Window in Reviewer) or selected (Tool combo box in Review Mode) in Reviewer Tool List window.



Enhancements and Changes in V9.6

Verification

Annotated Images identifier feature expanded to 4-digit capacity.

Users can now switch between local and online help after installation.

Inspection range now includes maximum and minimum range features.

Setting color theme to Dark Mode changes displayed text to white to maximize visibility.

Optimization

Force material check now verifies if cutter material and edge type match.

Issues of APT optimization not functioning as desired have been corrected.

Tool Manager

Added counter displays of total number of tools in Tool Manager.

Tool Manager Search Tool has “Include Current Library” feature set to off by default.

Tool Manager now generates a warning message when users attempt to read Tool Library files that were created prior to version 8.2.

Cut, copy, and paste functionality has been added for electrode tools.

The NOVO interface has been deprecated.

Machine Simulation

Cutter compensation now supports interpolated turning which helps with circles processing.

CAD/CAM Interfaces

3DEXPERIENCE

- 3DX now support of turning tools has been enhanced.

CATV5

- Filter for .sub and .spf files been added to CATV5.

EdgeCAM

- Support for EdgeCAM 2024 added.

GibbsCam

- Support added for exporting probe tools.

MasterCam

- MCAMV now supports mesh models.

NXV

- Support added for threadmill tool type.

PROEV

- Support added for threadmill tool type.

G-Code Processing

Support has been added for pecking motion with tapping cycles.

AutosetToolManDiameterVars macro added to generate tool diameters.

SetNCProgramVar macro added to store file paths for NC Program.

NumVarBracketOption macro added to define tables on Num control.

AdditionalWorkCoord macro enhanced to support rotation angles.

CollisionCheckingRequiredOnOff macro added to lock the simulation if machine collision detection is inactive.

AutosetTableAxisVarsMcdUnits macro added to switch between measurement units more easily.

Ijk2AnglesLinearAdjustOption macro enhanced to better control angular motion.

ActiveSpindleSpeedCheck macro enhanced to check spindle speed.

GageSpindleLinearOption macro enhanced to track DPZ more accurately.

X-Caliper

Tool ID has been added to the Feature/History display.

Reports

Sequential Time feature has been added to Reports to display the time of each tool change from the beginning of the simulation when selected.

Gage Length feature has been added to Reports to display output gage lengths.

Reports per Setup has introduced new report naming conventions to make the sequence of saves clearer to users.

Sample Files

Wire EDM samples have been added.

Problems Resolved in V9.6

Verification

Transform menu mistakenly generating circle center messages for intersect 3 plane measurements and vice versa has been corrected.

Issues of slowdown or unexpected termination have been corrected.

As issue of Tool Summary graphics not displaying when the panel is in overlaid mode has been corrected.

An issue of ToolCallAlpha not working as desired has been corrected.

An issue of NC Program Review mode Set Current feature not working as desired has been corrected.

An issue of Batch Mode not working as desired has been corrected.

An issue of save in process files not working as desired has been corrected.

An issue of warning incorrectly generating while Machine Collision Detection is set to Ignore has been resolved.

An issue of Volume Removal Rate in Status window not using the specified number of decimal places has been corrected.

Issues of certain IP files not opening properly have been corrected.

An issue of the Inspection window not functioning as desired has been corrected.

An issue of collision results changing depending on number of channels used has been corrected.

An issue of custom icons lingering after being removed has been corrected.

An issue of AUTO-DIFF saving image before refining it has been corrected.

An issue of animation speed slider affecting collision detection has been corrected.

An issue of certain command line options not working in Batch Wizard has been corrected.

An issue of certain tools not removing stock material correctly has been resolved.

An issue of some files opening without the filename generating has been corrected.

An issue of NC Program Review impacting error highlighting has been corrected.

An issue of revolved cutter STL models displaying the “non-cutting portion of the insert” error has been corrected.

An issue of CSYS position not updating when Transform menu is used in certain contexts has been corrected.

An issue of cutting results different between Profile and Machine/Cut Stock views has been corrected.

An issue of postcheck generating incorrect “Playback does not exist” warning has been resolved.

An issue of turning cycles not activating under certain conditions has been corrected.

An issue of work offsets not working in certain situations has been corrected.

An issue with electrodes not positioning and rotating as desired has been corrected.

An issue of special characters not being recognized has been corrected.

An issue of Graphs tool thumbnails not displaying correctly has been corrected.

An issue of NC Review mode not working with IP files has been corrected.

An issue of being unable to move design models in multistep programs has been corrected.

An issue of Inspection Range window slowdown has been corrected.

Optimization

Issues of Optimization generating extra F code have been corrected.

An issue of Optimize Control not working if Vericut is already in Analyze Mode has been corrected.

An issue of default optimization values generating incorrectly in Stock Material Records has been corrected.

An issue of Optimize Control generating incorrect Java error messages has been resolved.

An issue of cut distance mismatch between optimized results and Vericut Log has been corrected.

An issue of optimization modes graying out after Analyze mode is activated has been corrected.

An issue of Stock Material Records deactivating in multi-setup projects has been corrected.

An issue of clicking in Graphs not jumping to right area of NC Program has been corrected.

An issue of Force creating an incorrect feedrate in certain situations has been resolved.

An issue of Air Cuts Only optimization creating a different cut feedrate than expected has been corrected.

An issue of optimization turning off certain warning messages has been resolved.

An issue of an STL file not cutting correctly has been resolved.

An issue of Air Cuts Only not functioning correctly has been resolved.

An issue of false warning generating during optimization has been corrected.

An issue of force graph not generating when there are multiple program files has been corrected.

An issue of Learn Mode not adjusting cutting limit range values has been corrected.

An issue of optimization not working well with holes has been corrected.

Machine Simulation

An issue of cut stock model incorrectly gaining material has been resolved.

An issue of mirrored models not showing collision colors has been corrected.

An issue of pausing simulation affecting Collision Check results has been corrected.

Issue detecting holder collision have been resolved.

An issue of attach components not resetting properly has been corrected.

An issue of multi-spindle machines not removing material has been corrected.

An issue of tools creating collision warnings despite missing the fixture has been corrected.

Tool Manager

An issue of tool profiles sometimes missing segments during dimensioning has been corrected.

An issue of .tls files not parsing HTML language correctly sometimes has been resolved.

An issue of referenced tools not importing the correct number of teeth has been resolved.

An issue of spin point interfering with collision checking has been corrected.

An issue of Tool Manager X-Caliper Dimensions overlapping has been corrected.

An issue of metric tools causing cutting limit warnings to generate in inch projects has been corrected.

An issue of changing tool types changing the model as well has been corrected.

An issue of Tool Manager license causing errors has been corrected.

An issue of Cut Colors Tool Color feature not working with referenced tools has been corrected.

An issue of the comment box not holding text has been corrected.

An issue of Tool Manager displaying incorrect units when set to millimeter has been resolved.

An issue of Tool Manager not displaying APT 7 type cutters has been corrected.

An issue of tool shank not displaying correctly has been resolved.

An issue of coolant type not being referenced in tool list has been corrected.

An issue of grinder geometry warping after dressing has been corrected.

An issue of step tools not functioning as desired has been corrected.

An issue of Build Tool List feature not populating the Tool Event Setup tab has been corrected.

An issue of the wrong holder collision occurring when the holder is defined as a revolved profile has been corrected.

An issue of .tls file displaying incorrectly has been resolved.

An issue of model file cutters not displaying has been corrected.

An issue of Unit Converter features not working as desired has been corrected.

An issue of Sort Tool By Tool ID not working as desired has been corrected.

CAD/CAM Interfaces

CATV5

- An issue of false null reference errors generating has been corrected.

GibbsCAM

- An issue of measurement units sometimes switching during transfer has been corrected.
- An issue of GibbsV not working with Swiss type machines has been corrected.
- An issue of component colors and tool transfers not working has been corrected.
- An issue of turning inserts not importing correctly has been resolved.

MasterCAM

- An issue of work offsets repopulating on project open has been corrected.
- An issue of MCAMV not launching correctly in certain situations has been resolved.
- Issues of MCAMV trying to use the same .stl file in multiple locations have been corrected.
- Issues of MCAMV not selecting solid models automatically have been corrected.
- An issue of tap tools not outputting correctly has been resolved.
- An issue of Face Mill tool data not transferring correctly has been resolved.
- An issue of slowdown has been corrected.
- Issues of incorrect export have been corrected.
- An issue of incorrect exception errors generating has been corrected.
- An issue of unknown errors generating has been corrected.
- An issue of MCAMV incorrectly generating stock models for setups that have not yet run has been resolved.
- An issue of multi-select not working on stock and design models has been corrected.
- An issue of the window not resizing correctly has been resolved.
- An issue of MCAMV not parsing Japanese has been corrected.
- An issue of MCAMV not exporting certain tools correctly has been resolved.
- An issue of MCAMV struggling to create driven points has been corrected.

NXV

- An issue of ballnose drills not transferring has been corrected.

PowerMILL

- An issue of one .tls file mistakenly being used for separate setups has been corrected.
- An issue of changing template pathway modifying interface preferences has been corrected.

G-Code Processing

An issue of **SetVCMultiTools** macro incorrectly affecting Tool Cutting Distance has been resolved.

An issue of Sin840d generating incorrect time calculations on multi-channel machines has been resolved.

An issue of **AutosetToolManCutComVars2** macro not working as desired has been corrected.

An issue of Syntax Check repeating the same error multiple times has been corrected.

An issue of cutter compensation altering motion plane has been corrected.

An issue of variables created by certain macros saving in the wrong location has been corrected.

An issue of system not processing NC Programs has been resolved.

An issue of cut stock being present on file open before the simulation is run has been corrected.

An issue of the distance value in the Status panel sometimes switching to negative numbers has been corrected.

An issue of syntax errors not displaying correctly has been resolved.

Graphs

An issue of Graphs not opening and generating errors messages has been corrected.

An issue of wrong values generating for Chip Thickness and Total Force has been resolved.

An issue of Mouse Followers feature not functioning properly has been corrected.

X-Caliper

An issue of Dimension label prefixes not working has been resolved.

An issue of X-Caliper Dimensioning tool gathering incorrect measurements has been resolved.

An issue of C-Sink Depth not working with chamfers has been corrected.

Installation

An issue of German version of Vericut missing certain installation descriptions has been corrected.

Reviewer

An issue of pre-9.0 Reviewer files not loading correctly has been resolved.

An issue of stock disappearing upon tool contact has been corrected.

An issue of certain tools not appearing in Reviewer has been corrected.

Reports

An issue of text on Annotated Images generating incorrectly in Reports has been corrected.

An issue of data errors generating in Tool Report has been corrected.

An issue of units not being consistent between columns has been corrected.

An issue of Report not generating has been corrected.

An issue with the page break feature has been corrected.

An issue of View Captures behaving inconsistently has been resolved.

New Macros in V9.6

AutosetTableAxisVarsMcdUnits

CollisionCheckingRequiredOnOff

FanucTPPoint

FanucTPPointDebug

FanucTPPointData

FanucTPPointDataUnits

GetCurrentControlState

IgnoreEqualWithAlpha

Ijk2AnglesTolerance

NumVarBracketOption

OptiHeaderOption

PolarLogic

RapidInterpolationWarningOnOff

SetRobotConfigA1NoSignConstraint

SetRobotConfigA1Positive

SetRobotConfigA1Negative

SetRobotConfigA1PositiveRotation

SetRobotConfigA1NegativeRotation

SetRobotConfigA4NoSignConstraint

SetRobotConfigA4Positive

SetRobotConfigA4Negative

SetRobotConfigA4PositiveRotation

SetRobotConfigA4NegativeRotation

SetRobotConfigA5NoSignConstraint

SetRobotConfigA5Positive

SetRobotConfigA5PositiveRotation

SetRobotConfigA5NegativeRotation

SetRobotConfigA6NoSignConstraint

SetRobotConfigA6Positive

SetRobotConfigA6PositiveRotation

SetRobotConfigA6Negative

SetRobotConfigA6NegativeRotation

SetNCProgramVar

VirtualXAxisBDynamic

VirtualXAxisBRotary