WHAT'S NEW IN

Icam Suite V26

Vericut

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Improved automatic rotary axes clamping and unclamping

A new algorithm is now handling automatic clamping and unclamping of rotary axes before and after indexing. GENER will automatically turn off auto-clamping in operations where all axes are moving simultaneously. New system variables have been added to facilitate macro customisation, if required.

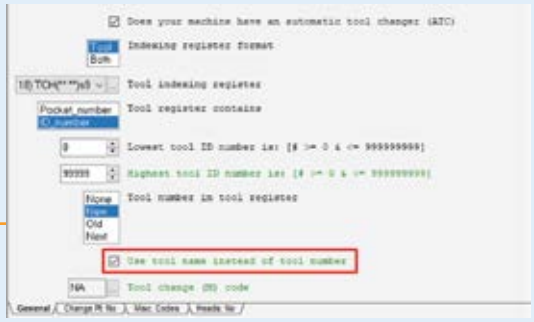
A new question has also been added in the CLAMP section of the Questionnaire to enable a feature that uses look-ahead at the start of each operation to handle automatic clamping and unclamping.

Improved support for tool change names across all Icam products

A new question was added in the Toolchange section of the Questionnaire to support tool change codes that use tool names rather than tool numbers. A special tool indexing register is required to be configured in these cases.

When configuring a CE in QUEST, the same question and register are used to get the name of the tool from the NC program blocks. NC programs can use both tool IDs and tool names by adding a REG_TOOL alias in the CE.

This option also allows Virtual Machine to properly identify tools when defined only by name.



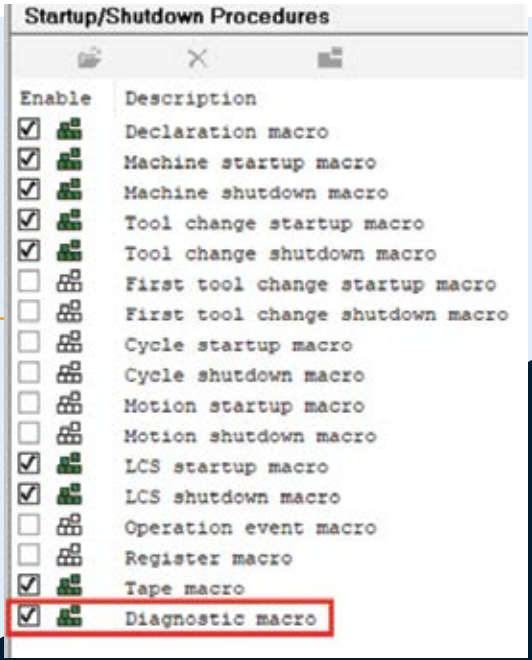
New GENER macro function for fast information look-ahead

A new macro function, $FCLINFO(), is now available to obtain information about upcoming CL data. It is similar to $FINFO(), except it performs a selective look-ahead and therefore executes significantly faster.

New Diagnostic event macro for GENER and CERUN

A new macro is now available in QUEST, in the post-processor Startup / Shutdown section, as well as in the CE Event Macros section. This event macro can be used in post-processors or control emulators to “catch” runtime diagnostics. When running with a Virtual Machine, this macro also catches VM diagnostics.

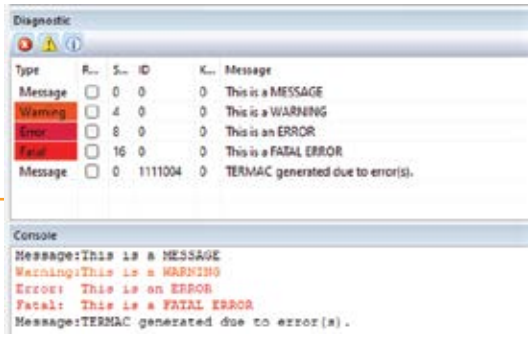
The macro is executed whenever a diagnostic (message, warning, error or fatal) is processed. The macro starts before the diagnostic is generated, allowing for customised handling of specific diagnostics, such as changing the severity level, error number and text, or discarding the diagnostic altogether. It also provides the number of occurrences of the diagnostic.

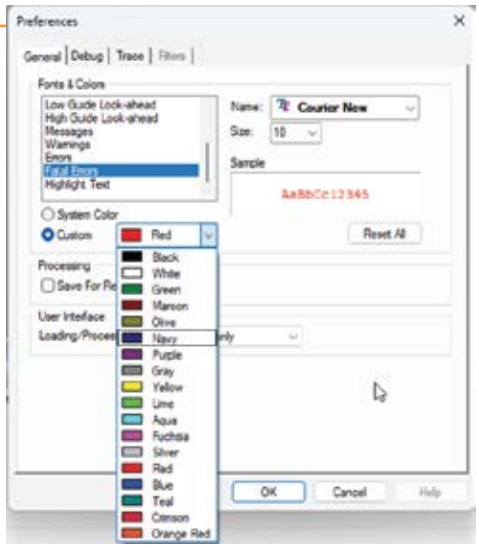


Discrete colors for diagnostic severities in GENER and CERun

The four distinctive diagnostic severities (i.e. messages, warnings, errors or fatal errors) generated by GENER and CERun are now output using discrete colors.

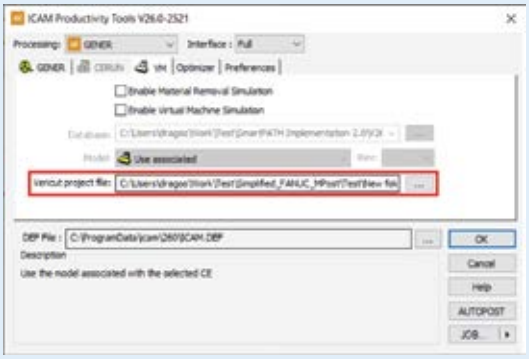
These colors can be modified as desired in the Tools / Preferences dialog of GENER and CERun.





Use a Vericut Project file to set machine limits and tool lengths for post-processing without simulation

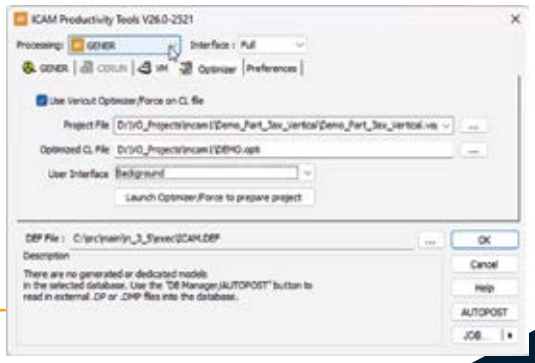
Customers who are using both Icam Post and Vericut can now point the GENER launch panel to a previously-generated Vericut Project file. This will allow GENER to retrieve compensation values to be used during post-processing for a more accurate calculation of travel limits and actual tool lengths.



Optimise Feedrates before Post-Processing with Vericut Optimizer | Force

Customers who are using Icam Post and either Vericut Optimizer (VO) or the Force optimisation module of Vericut are now able to run feedrate optimisation before post-processing (on the cutter location data rather than the G-code).

A new tab in the GENER launch panel, labeled Optimizer, will allow users to browse for a project file previously generated, or to launch Vericut Optimizer if no project file has been created yet.



When the optimisation is completed, GENER will use the resulting optimised cutter location data as an input to the post-processor. This allows for a better integration of the two products using considerably fewer steps and for circumventing a certain limitation of some machine shops where procedures do not allow post-processed NC programs to be modified.

Improved LCS/AUTO for GENER

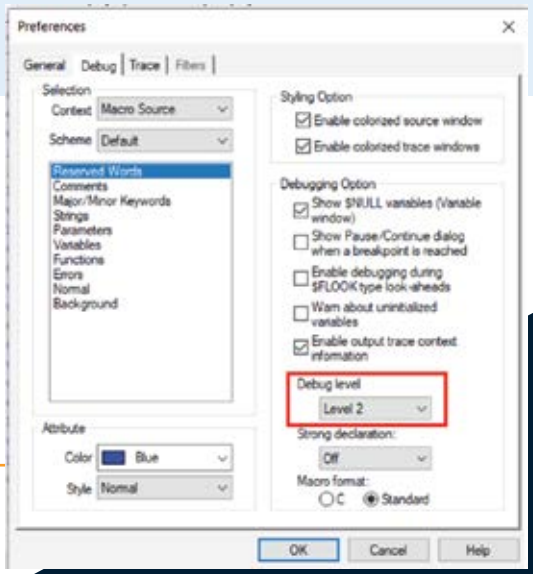
A new algorithm has been developed to improve the automatic generation of tilted plane codes (LCS) during 5-axes holemaking operations with multiple tool axis orientations. LCS/AUTO also works better now with motions generated by optimisation features such as SmartPATH, Path Planning and Rotary Turn-Around.

Improved SmartPATH safe entry and exit computation

A new SMARTP command (SMARTP/SAFPOS) is now available to control the start and end of SmartPATH-generated motion sequences at toolchange or home reference positions. It provides the definition of a bounding geometry to facilitate safe approach to the stock and allows for better control of tool length compensation during these motions.

Detailed multi-level trace during GENER post-processing

The multi-level trace option available in the Debug tab of the GENER Tools / Preferences dialog now offers more useful information to help users understand how GENER takes decisions during post-processing. Setting the debug level to Level 2 will generate debugging information on cycles, circular interpolation, threading and SmartCUT look-ahead.



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System requirements are subject to change.
See the Vericut website for the most up-to-date product information and system requirements.