Vericut OPTIMIZER

RELEASE NOTES

3.0

We're excited to introduce Vericut Optimizer v3.0, a major advancement with all new enhancements to the Vericut Optimizer AI Platform, faster performance, and an enhanced user interface.

Vericut Assistant (VA) is an AI-driven resource built directly into Vericut Optimizer. Whether you're learning how to use a CAD/CAM Interface, creating coordinate systems, or performing other tasks, VA delivers clear, contextual assistance when and where you need it.

Introducing all new F2 Enhanced Tooltips and Guidance, powered by Vericut Assistant (VA).
With a single keystroke, users can access clear, in-context explanations and step-by-step guidance directly within the interface. This integrated AI-driven assistance makes Vericut Optimizer easier to learn, navigate, and take advantage of its powerful features.

The Vericut AI Platform continues to evolve and will further streamline workflows and expand the capabilities available to users. To learn more, including about the new Vericut Intelligence (VI), please visit: vericut.com/ai

Vericut Optimizer v3.0 is packed with enhancements designed to improve performance, increase productivity, and drive greater efficiency. The following pages highlight the latest advancements in optimization to help you get the most from your Vericut Optimizer investment.

Thank you for making Vericut Optimizer an essential part of your NC programming and machining workflow. For more than 35 years, CGTech's technology leadership has helped Vericut evolve with our customer base. CGTech's solutions are deeply trusted and widely adopted today across industries ranging from aerospace to Formula 1 racing. People are at the heart of CGTech's success and have made it what it is today: an innovative software company driven by team spirit and our collaborative customers.

Sincerely,

Ely Wahbeh
Vericut Product Manager

Maintenance and Licensing Information

Note: This software requires Vericut Optimizer Cloud licensing. To Get a License – use the link below to submit a License Request: https://Vericut.com/support/request-license

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 optimization technology available. If your maintenance has expired, please contact your CGTech representative (https://Vericut.com/company/contact-us).

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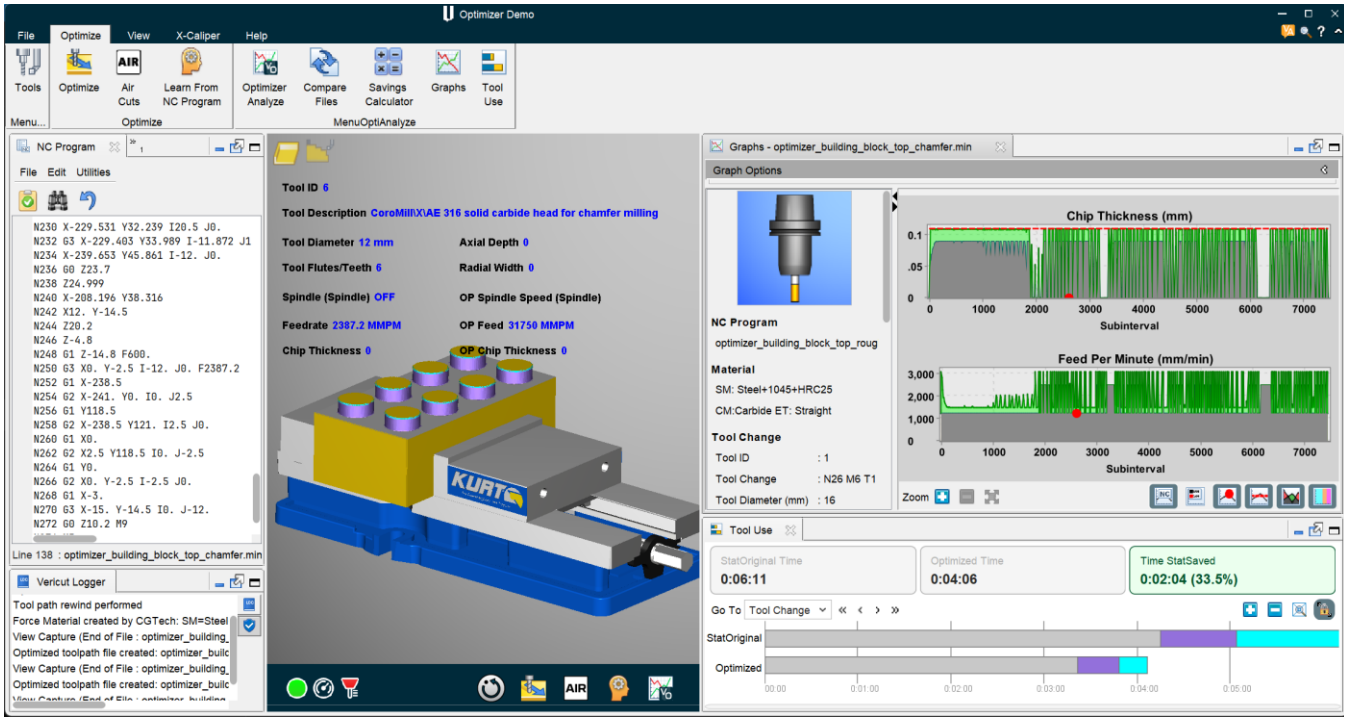
Vericut Optimizer 3.0 Release Highlights

A New Look and Simplified Workflow

Vericut Optimizer 3.0 introduces a refreshed Dark Blue interface, replacing the traditional gold workspace with a cleaner, more modern design. Improved layouts make NC programs, machining data, optimization graphs, and time savings easier to review.

Reorganized menus and toolbars simplify navigation and streamline the workflow from opening a project to optimizing and analyzing results.

The functionality is familiar. The experience is simpler.



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Vericut Assistant: Step-by-step Practical Guidance

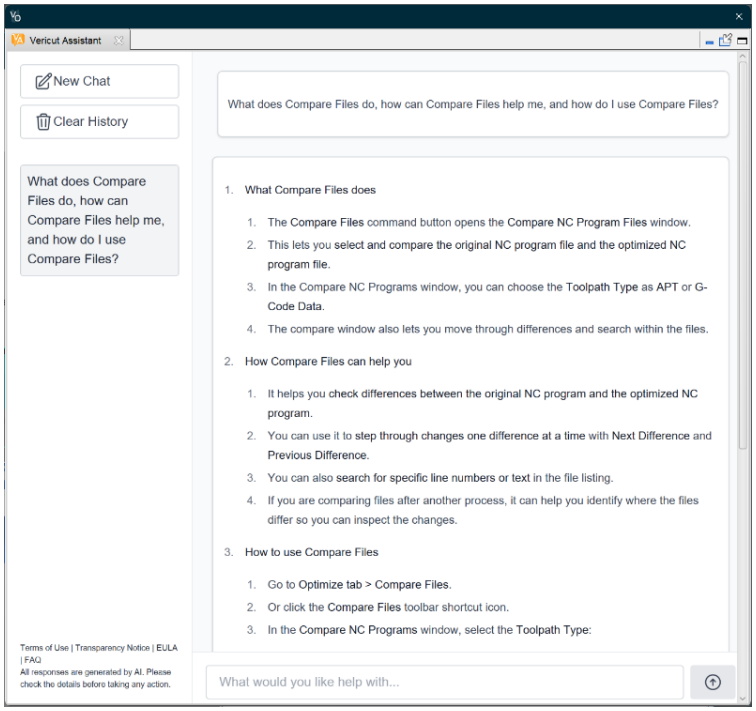
Vericut Optimizer 3.0 introduces **Vericut Assistant (VA)** focuses on guiding users through practical applications of Vericut Optimizer's features.

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

- How do I compare the original to optimized NC Programs?
- How do I create coordinate systems?

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.



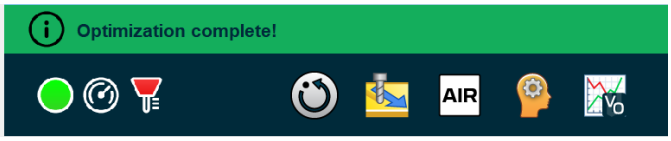
New Optimization Control Bar

Vericut Optimizer 3.0 introduces a new **Optimization Control Bar** that brings frequently used optimization and analysis functions together in one convenient location.

Quick access to Rewind, Optimize (Play/Pause), Aircuts, Learn From NC Program, and Analysis functions simplifies navigation, while integrated status indicators provide immediate feedback.

The result is a cleaner workspace and a faster, more intuitive optimization workflow.

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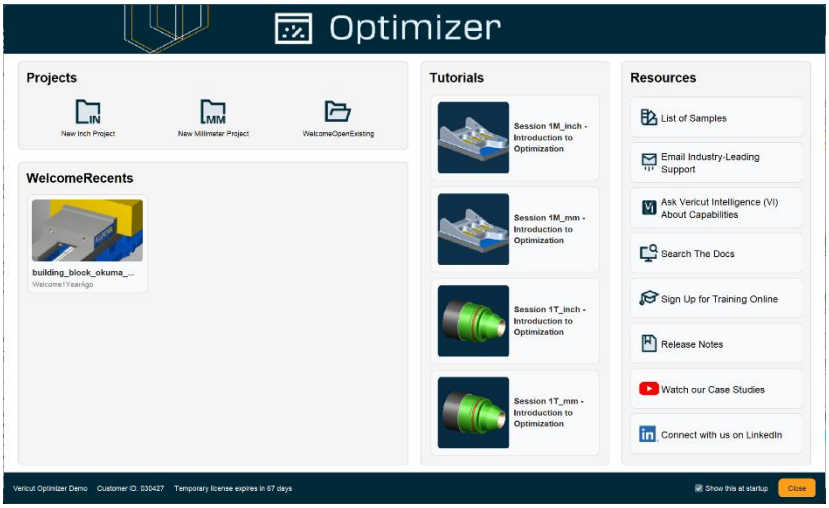
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A New Look and Simplified Welcome screen

Vericut Optimizer 3.0 introduces a redesigned **Welcome Screen** that makes getting started faster and easier. Users can create new projects, open existing projects, or access Recent Projects with image previews and last-modified times.

Built-in Guided Tutorials provide step-by-step training, while the Resources panel offers quick access to sample projects, technical support, documentation, online training, and other helpful resources.

The result is a simpler, more intuitive starting point for every Vericut Optimizer user.



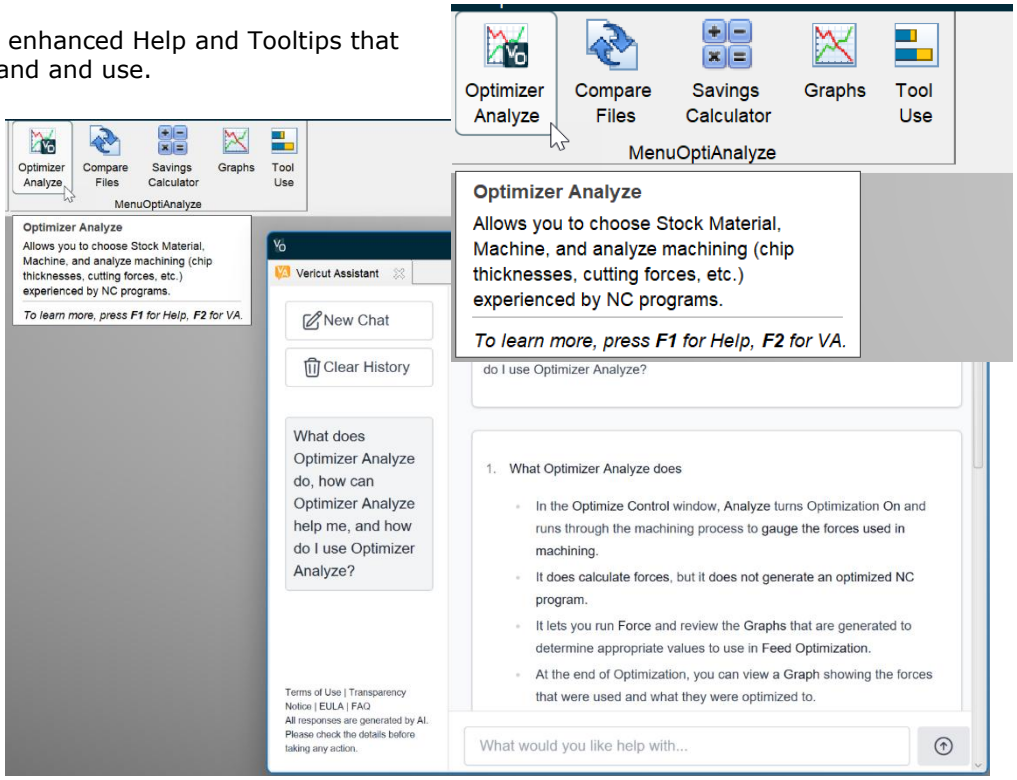
Enhanced Help and Tooltips (F1 and F2)

Vericut Optimizer 3.0 introduces enhanced Help and Tooltips that make features easier to understand and use.

F1 Help provides direct access to the relevant Help page, while **F2** offers enhanced tooltips and in-context guidance.

The integrated Vericut Assistant (VA) provides AI-powered assistance, helping users understand what a feature does, how it can help, and how to use it.

The result is a more intuitive learning experience with helpful guidance available directly within Vericut Optimizer.



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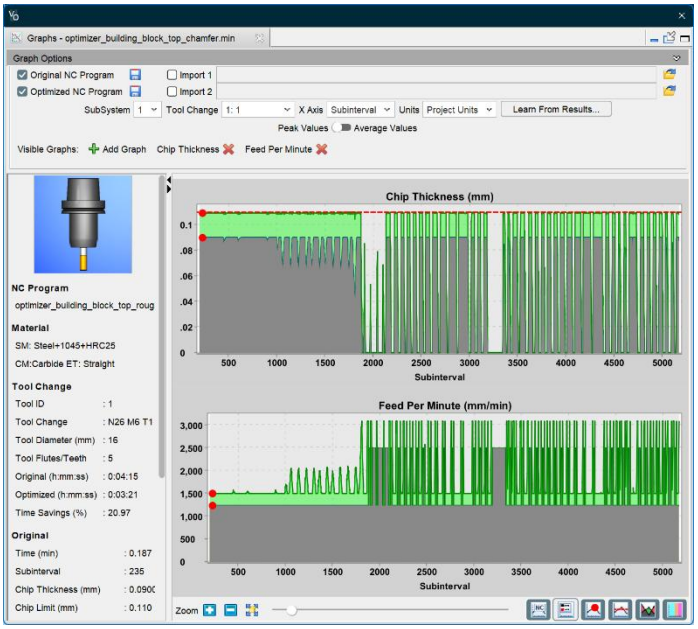
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Improved Graphs panel

Vericut Optimizer 3.0 introduces an enhanced **Graphs** display with a more modern, simplified design that makes optimization results easier to visualize and understand.

Improved graph colors provide clearer visual separation between Original and Optimized results, making it easier to compare machining conditions and identify optimization improvements.

The result is a cleaner, more intuitive way to analyze and compare optimization performance.

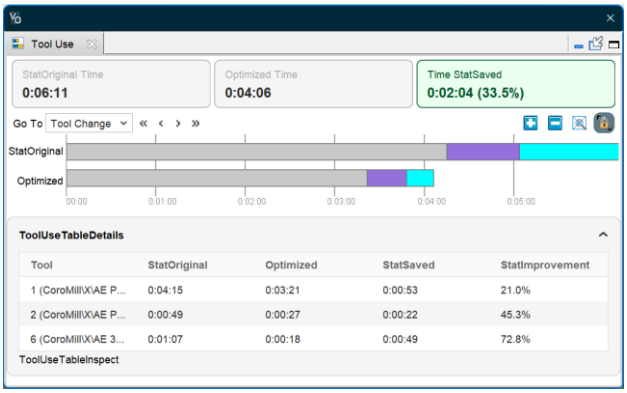


Improved Tool Use Display

Vericut Optimizer 3.0 introduces an improved **Tool Use** display that makes optimization results easier to understand and compare.

A clear summary highlights Original Time, Optimized Time, Time Saved, and percentage improvement. A graphical timeline provides a visual comparison, while navigation controls and expandable Tool Details make it easy to review savings for individual tools and tool changes.

The result is a clearer, faster way to analyze and communicate optimization improvements.



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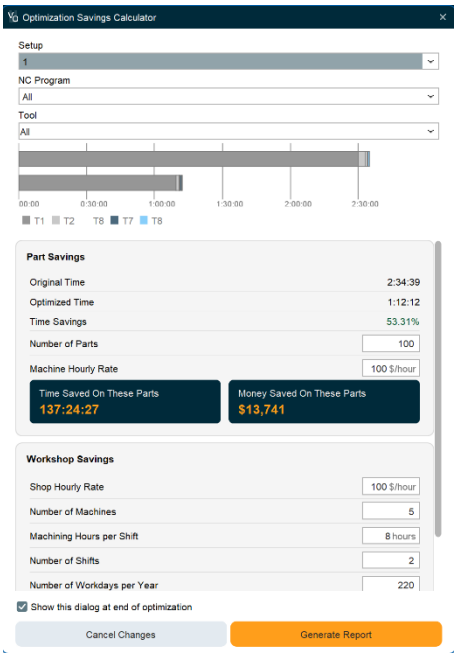
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Enhanced Savings Calculator

Vericut Optimizer 3.0 introduces an enhanced **Optimization Savings Calculator** that makes it easier to measure the financial benefits of NC program optimization.

Users can compare Original Time, Optimized Time, and Time Savings, then calculate machining hours and cost savings based on production quantities and machine rates. Additional workshop settings allow users to project potential annual savings across multiple machines.

Results can be reviewed by Setup, NC Program, and Tool, while the new Generate Report option makes it easier to share and communicate the financial impact of optimization.



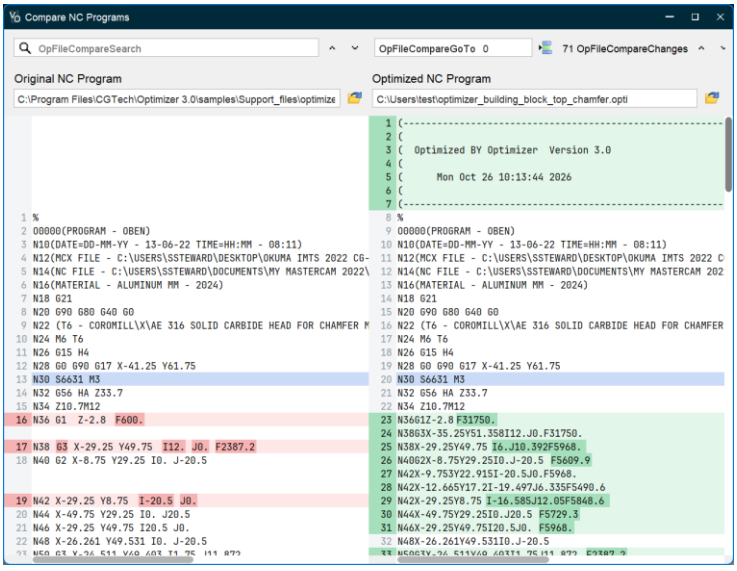
Enhanced Compare NC Programs

Vericut Optimizer 3.0 introduces an improved **Compare NC Programs** window that makes it easier to identify and review changes made during optimization.

Original and Optimized NC Programs are displayed side by side, with color-coded differences highlighting original changes in red and optimized replacements in green. Modified values, such as feedrates, are emphasized, while added lines from split moves are clearly identified.

A change counter, text search, and Go To Line navigation simplify reviewing large programs. The optimized NC program also includes version and timestamp information for traceability.

The result is a clearer, faster way to review and understand exactly what optimization changed.



Enhanced Optimize, Air Cuts, and Learn From NC Program windows

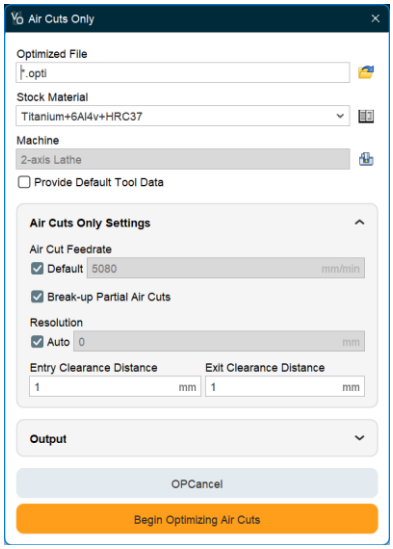
Vericut Optimizer 3.0 introduces redesigned **Optimize**, **Air Cuts Only**, and **Learn From NC Program** windows with a cleaner, more modern layout that simplifies setup and navigation.

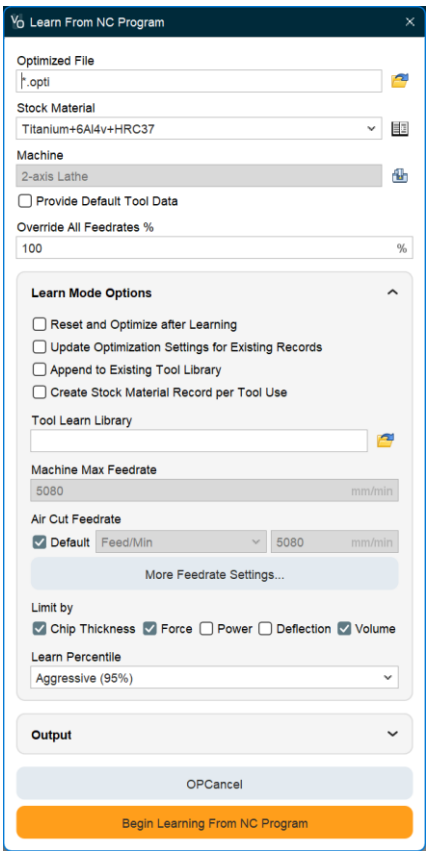
Common settings, including Optimized File, Stock Material, and Machine, are consistently positioned across all three windows. Operation-specific settings are organized into expandable sections, making it easier to configure Optimization, Air Cut, and Learning options without unnecessary clutter.

Collapsible panels keep advanced settings accessible, while prominent action buttons make it easy to start each operation.

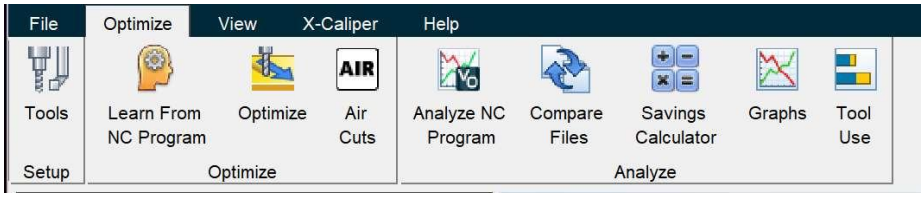
The result is a more consistent, intuitive interface that simplifies the optimization workflow for both new and experienced users.







Simplified Main Toolbar and Menus



Vericut Optimizer 3.0 introduces a simplified Main **Toolbar** and **Menus** layout that makes frequently used optimization commands easier to find and access.

Less frequently used functions have been reorganized to reduce visual clutter, improve navigation, and make the software more intuitive, especially for new users.

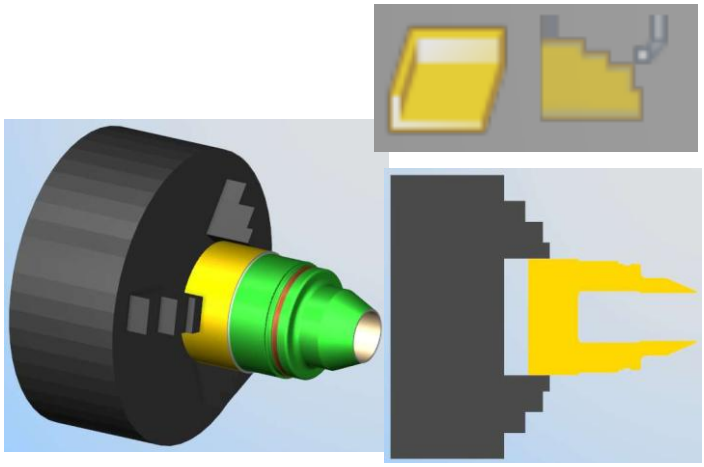
The result is a cleaner workspace and a more efficient optimization workflow.

Enhanced View Controls

Users can now quickly access key view types with new on-screen icons in the graphics area.

Workpiece and **Profile** views are now displayed in the top-left corner of the Graphic Area, making them easy to discover and switch between previously hidden menus.
These commonly used options are now always visible, helping users navigate the interface faster while improving overall workflow efficiency.

By surfacing these controls directly in the workspace, Vericut Optimizer now makes essential functionality immediately visible and accessible.



Training Viewer Panel

The new **Training Viewer** panel displays the active training session's instruction file with built-in navigation features, making it easier to follow along and stay oriented within the workflow.

This dockable Vericut Optimizer panel renders training content directly from the Welcome screen, ensuring a seamless connection between onboarding and execution.

By integrating training materials into the workspace, users can access step-by-step guidance without leaving Vericut Optimizer, improving efficiency and reducing the need for external applications.

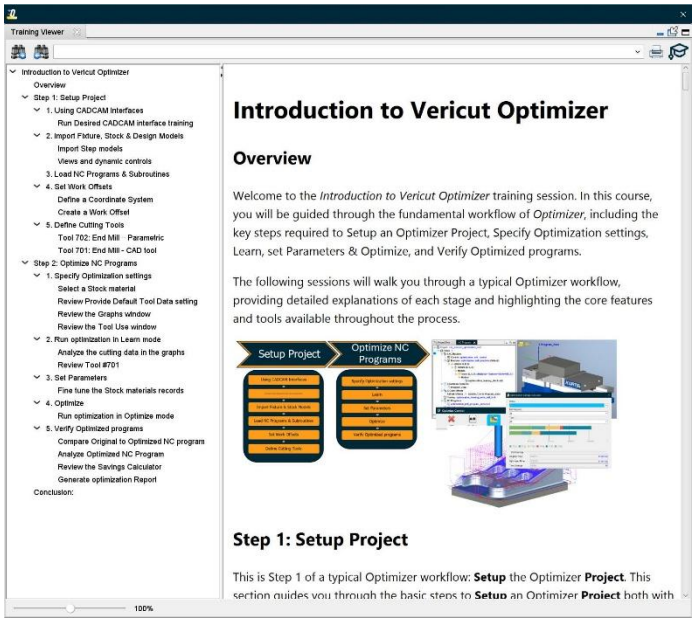
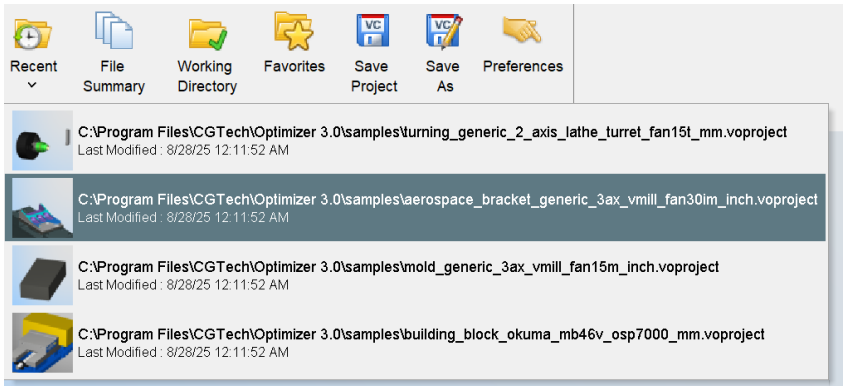


Image Preview in Open Recent

The **Open Recent** menu now includes image previews of Project files, making it easier to quickly identify and reopen projects.

Instead of relying solely on file names, users can visually recognize projects at a glance - saving time and improving workflow efficiency, especially when working with multiple or similarly named files



Problems Resolved in Vericut Optimizer 3.0

Learn Mode Fix - Corrected an issue where *Begin Learning…* prompted users twice to overwrite an existing Tool Library.

Force Turning - Fixed an issue where interrupted cuts were not identified correctly. Logic has been reworked for more accurate detection in Force.

Stock Material Record - Fixed an issue where the operation method wasn't written to the tool file and defaulted to Rough.

Air Optimization and Force Optimization - Fixed an issue where Air Optimization and Force Optimization could produce results that were longer than the original toolpath.

Force Learn Mode Stability - Fixed a software crash that could occur during Force Learn Mode when processing tool deflection calculations.

Optimization Savings Calculator - Fixed an issue where the Optimization Savings Calculator reported an incorrect Optimized Time percentage for drill tool.

Optimized Time Calculation - Fixed an issue where the Optimized Time reported could be higher than in previous releases.

Time Display - Fixed an issue where the completion percentage and time displayed in the status bar were incorrect immediately after opening a Vericut project.

Tap Tool Collision Detection - Fixed an issue where false collision conditions could occur with tap tools due to an error in thread form comparison when determining the minor diameter if its value was zero.

Optimization Savings Calculator - Fixed an issue where an internal error could be reported in the Command window when opening the Optimization Savings Calculator after running an optimization.

Optimize Control Window Size - Fixed an issue where the Optimize Control window resized automatically.

Treat Cutting Portion as Insert - Fixed an issue where the cutter force settings attribute was incorrectly used to determine the Treat Cutting Portion as Insert behavior.

Air Optimization Clean-Up Detection - Fixed an issue where the aircut feedrate could be incorrectly applied during clean-up cuts with stock. Improved clean-up detection to ensure the appropriate feedrate is applied.

MachiningCloud - Optimization Settings - Fixed an issue where Optimization Settings were not correctly imported through the MachiningCloud Interface.

VERICUT-OPTIMIZE ADD_LEARN_SMR - Fixed an issue where ADD_LEARN_SMR did not work when the tool already had an SMR assigned.