GIBBSCAM

Vericut Optimizer

Achieve 15-30% faster cycle time with Optimizer for GibbsCAM

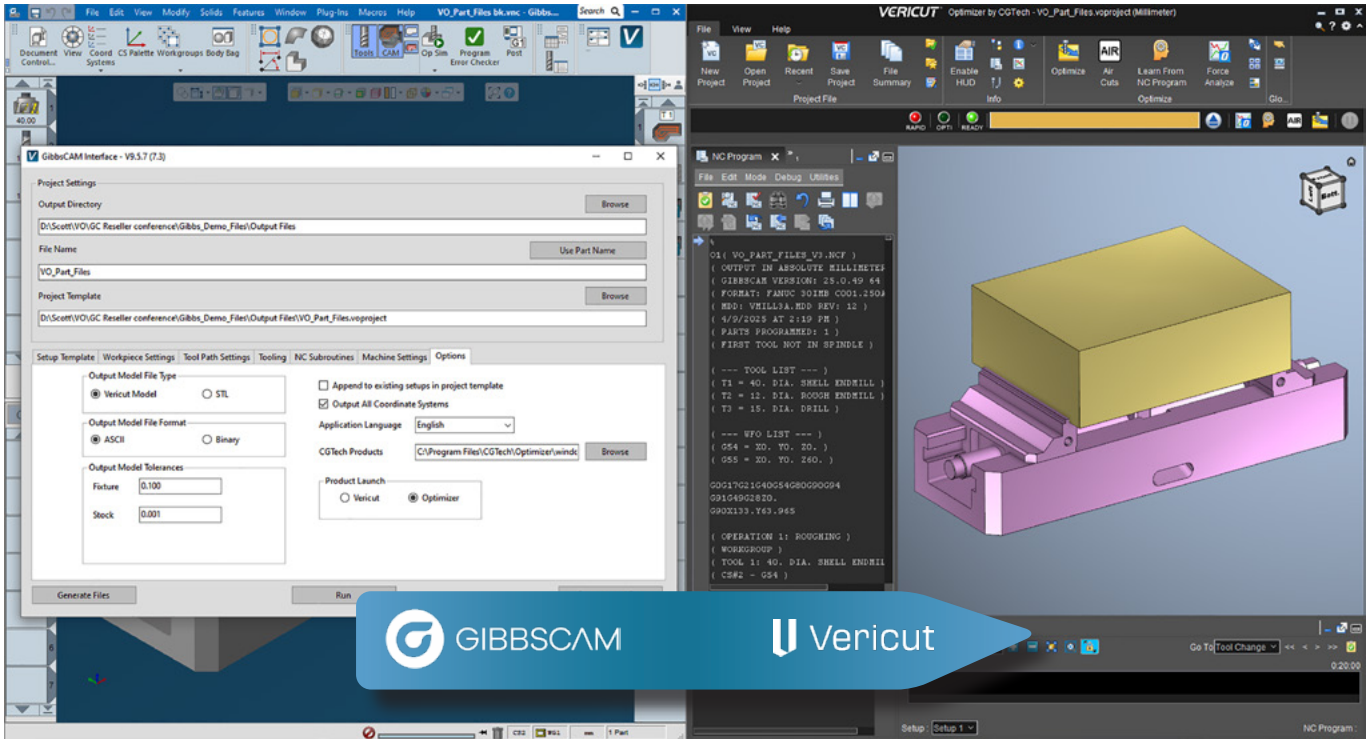
Part of Sandvik Group

Unlock Peak Efficiency in CNC Machining

In today's fast-paced manufacturing landscape, even small inefficiencies in NC programming can lead to costly delays, wasted resources, and lost profits.

Meet Optimizer for GibbsCAM—the breakthrough solution that streamlines your workflow, boosts productivity, extends tool life, and slashes costs. All while safeguarding your machines and parts with unmatched precision.

It's time to transform your CNC operations.



Key Benefits

Reduce Machining Time

Achieve 15-30% cycle time savings by optimizing feed rates and material removal rates.

Improve Part Quality

Eliminate chatter, deflection, and other issues that compromise surface finishes.

Extend Tool Life

Prevent excessive wear, chipping, and breakage by maintaining ideal cutting conditions.

Energy Efficiency

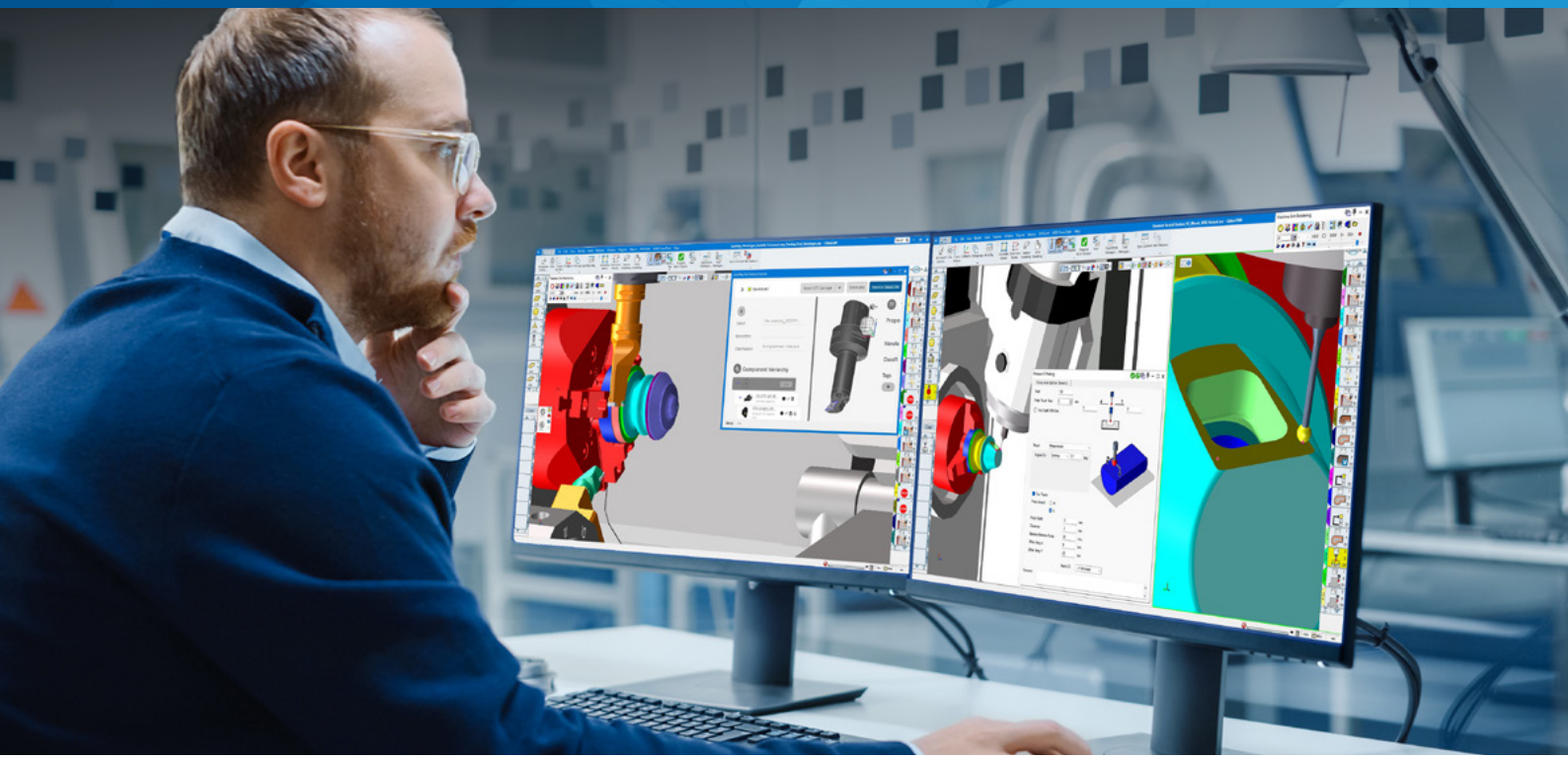
Optimize energy consumption and reduce your environmental footprint.

Protect Your Machines

Smoother cutting conditions reduce excessive forces, torque, and power spikes, extending the life of your CNC equipment.

Rapid ROI

With measurable savings within weeks, Optimizer pays for itself almost immediately.



Comprehensive Features for GibbsCAM Users

Optimizer for GibbsCAM intelligently and continuously adjusts feed rates to maintain the most consistent and optimal chip thickness, maximizing cutting efficiency without compromising safety.

With Optimizer, you retain the trusted, high-performance toolpaths created in GibbsCAM. The result after optimization? Faster cycle times and improved tool life—without the need to rewrite or revalidate your programs.

With Optimizer, you can easily import and create tools, assign stock and NC programs to the project tree, and generate insightful graphs. It gives you powerful optimization strategies and flexible adjustments to make your NC programs run as smoothly as possible.

Optimizer automatically adjusts feed rates to maintain consistent and optimal chip thickness.

Optimizer enables faster cycle times and improved tool life without the need to rewrite your existing programs.

Optimizer for GibbsCAM

Seamlessly bridge GibbsCAM and Optimizer with direct data transfer of Stock Model, Fixture Model, Cutting Tools, NC Program from within the familiar GibbsCAM interface.

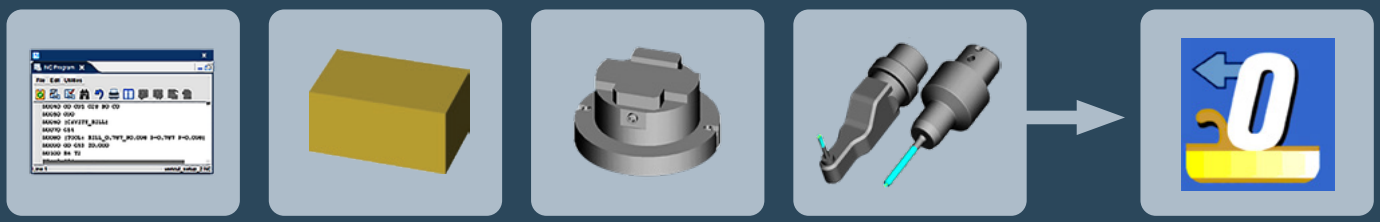
Start Block-by-Block feed rate optimization balancing aggressive cutting with tool protection to ensure constant chip thickness and maximum safety. Optimizer understands the condition of the in-process stock material and optimizes air-cuts. Optimized feed rates for varying stock conditions, such as forgings and castings are controlled optionally.

Retain your GibbsCAM strategies—while enhancing performance

Fully respects your existing GibbsCAM strategies and processes

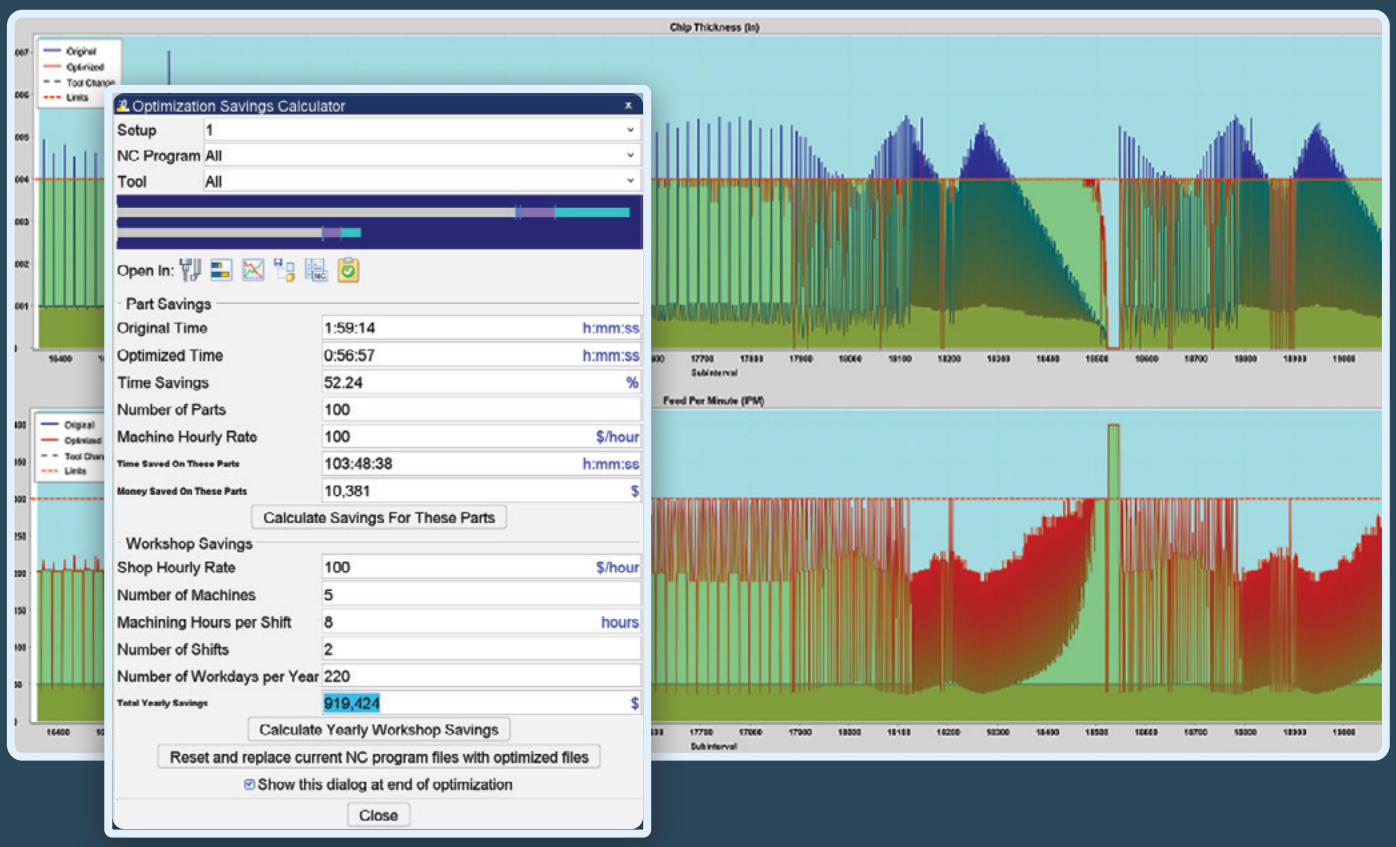
- Optionally imports the exact tools you've used
- Maintains your preset depth and side stepovers
- Does not alter GibbsCAM toolpaths—so no need for renewed collision checks or machine simulation

GIBBSCAM **The *Optimizer for GibbsCAM* data transition process** Vericut



NC program | Stock model | Fixture model | Cutting tools | Optimizer

Powerful Analysis & Insight at Your Fingertips



Compare Original vs. Optimized Program

Easily review and analyze the differences between your original GibbsCAM output and the optimized version to see exactly where improvements were made.

Savings Calculator

Quickly see your gains with a built-in calculator that displays both time saved and cost savings for each optimized operation.

Tool Performance Reports

Generate detailed reports for each tool, highlighting improvements in cutting efficiency and showing where feed rate adjustments made the biggest impact.

Tool Use Graph

Visualize tool engagement and efficiency throughout the program to better understand performance and identify areas for further optimization.

NC Program Review

Step through your NC program block by block, while simultaneously tracking:

- The current line of code
- Tool location in the graphics window
- Position within performance graphs

Optimizer Graphs for NC Program Analysis

Use interactive graphs to evaluate feed rates, chip thickness, and spindle loads—helping you make informed decisions to refine your processes.

In real-world testing, customers achieved **25%** time savings on machined parts and improved **18%** in energy efficiency.

Adopting a balanced approach, Vericut Optimizer accurately calculates the contact between the cutting tool path and the material and adjusts the feed rates for optimal performance. These strategic machining adjustments drastically minimize cutting time and excessive force, meaning less engineer interference and much less downtime. And best of all, it's compatible with most standard 2-5 axis milling and turning machines.

Vericut Optimizer can make your GibbsCAM NC-programs run even more efficient and rapid.

Make your CNC machines work harder and smarter

Choose Your Material

Vericut's Stock Material Catalog contains over 150 machine-tested materials, so you can trust that it's ready for any job.

Gain Helpful Insights

Access charts with cut-by-cut data of Forces, Power/Torque, Chip Thickness, Material Removal Rates, Tool Deflections and Feed Rates.

Compare Files

Get side-by-side comparisons of the original NC program with the optimized NC program.

Measure Savings

Use the Savings Calculator to discover time and revenue savings across your shop floor.

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