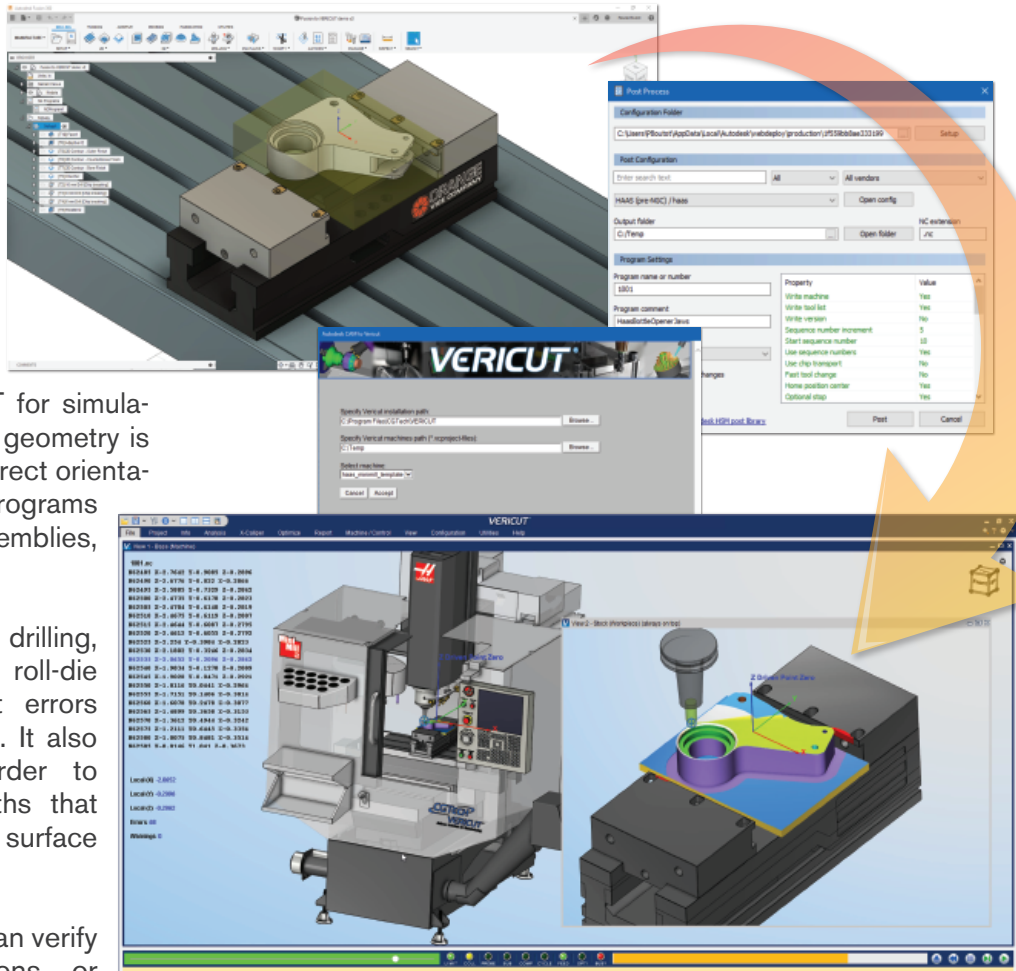# VERICUT®
CNC Machine Simulation Software

Seamless Integration with
Fusion 360

The Fusion 360 cascading VERICUT post-processor integrates the two programs to help you create the most accurate and efficient NC programs possible!

The Fusion 360 cascading post-processor tightly integrates with VERICUT by exporting Fusion 360 manufacturing data necessary to configure VERICUT for simulation. All stock, fixture, and design geometry is transferred to VERICUT in the correct orientation, along with specified N.C. programs and subroutines, cutting tool assemblies, and other simulation settings.

VERICUT verifies NC milling, drilling, turning, EDM, mill/turn, and roll-die machining operations to detect errors without doing a manual proveout. It also optimizes NC programs in order to produce more efficient tool paths that save time, produce higher quality surface finishes, and prolong tool life.

With the cascading post, users can verify individual Fusion 360 operations, or multiple operations defined in Fusion 360. While VERICUT simulates or optimizes their N.C. programs, users can continue working in Fusion 360.

AUTODESK® FUSION 360™

Why Fusion 360 + VERICUT?

Provides access for Fusion 360 manufacturing data in VERICUT

Automates setups on VERICUT digital twin machines

Verifies same G-code programs that run on CNC machines
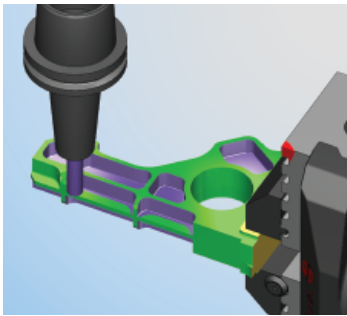
Right the first time. Every time.

9000 Research Dr, Irvine, California 92618
(949) 753-1050 • info@cgtech.com

CGTECH.com

Go ahead...

CRASH YOUR MACHINE

...as long as it's in VERICUT

## NC Program Verification, Inspection & Analysis, CAD Export

VERICUT simulates milling, drilling, turning, multi-tasking mill/turn, and EDM operations. Errors that could ruin the part, damage the fixture, or break the cutting tool are easily identified. VERICUT supports G-codes and native CAM files and includes analysis tools to measure and compare the cut part with the design model. You can model any cutter, fixture, or holder shape. During simulation you create in-process inspection instructions and export a CAD model of the "as-machined" part.

- Eliminate program errors
- Reduce scrap and rework
- Train without using a machine
- Improve documentation and presentations
- Consistently produce perfect first-time programs without manual prove-outs

CNC Machine Simulation

A single crash can be extremely expensive, ruin the machine, and delay the entire production schedule! VERICUT enables you to simulate your CNC machines so you can detect collisions between portions of the machine, the part, fixtures and holders, etc. before any actual cutting occurs. And, because the simulation is driven by the same logic as the machine's control, it behaves exactly like the physical machine and is the most accurate collision-checking available.

- Eliminate crashes & close calls
- Check machine capabilities
- Improve process efficiency
- Speed up machine implementation time
- Enhance documentation
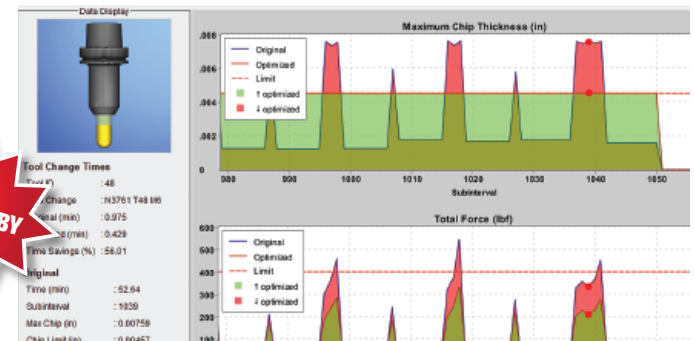- Increase safety and improve training
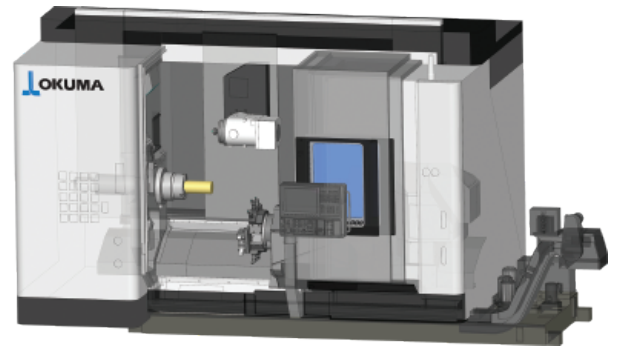
Feed Rate Optimization
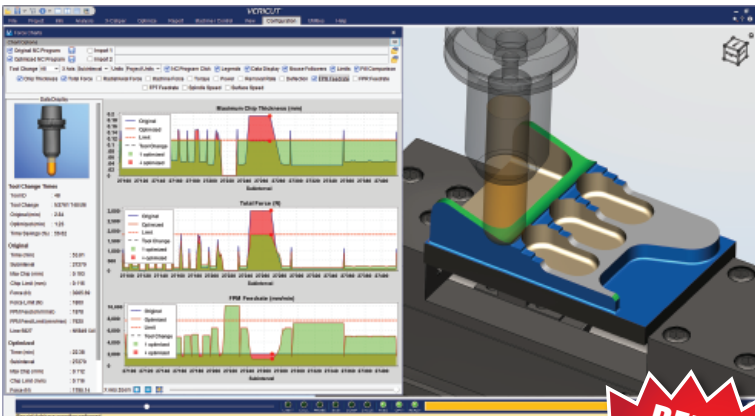
VERICUT is equipped with NC program optimization capabilities. Based on the cutting tool geometry, part material, and programmed cutting conditions, VERICUT automatically determines the optimum safe feed rate for each cut. The VERICUT optimized NC program will greatly improve cutter performance resulting in significant cycle time savings, reduced tool wear, improved tool life, and better finished parts.

REDUCES MACHINING TIME BY 15-25%

- Improve cutting tool performance
- Prevention of undesirable cutting conditions
- Eliminate manual feed adjustments at the machine
- Utilize cutting tool technologies to their full potential
- Maximized and consistent chip thickness throughout the machining process

Right the first time. Every time.

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