# VERICUT ®

Seamless Integration with
TEAMCENTER

VERICUT and the Teamcenter Interface run independently from Teamcenter and NX allowing work to be done simultaneously in two programs.

Teamcenter enables VERICUT's Tool Manager to access 3D cutting tool assemblies directly from Teamcenter PLM (Product Lifecycle Management) software. These 3D cutting tool assemblies can be created in NX with or without Manufacturing Resource Library (MRL). This integration allows users to search for tools in NX CAM project files, or for 3D cutting tool model assemblies, and read them into VERICUT's Tool Manager. There is no need for any modifications and the tools are ready for the simulation.

Integration with Teamcenter avoids the need to export local copies of 3D tool assemblies since they are directly accessed from Teamcenter, and also ensures tools are up to the latest revision available in Teamcenter. This integration is particularly useful for customers who cannot have external, uncontrolled copies of models (including cutting tools) outside of their PLM system due to ISO restrictions. The user's same Teamcenter login credentials are used to log into the Teamcenter Interface.
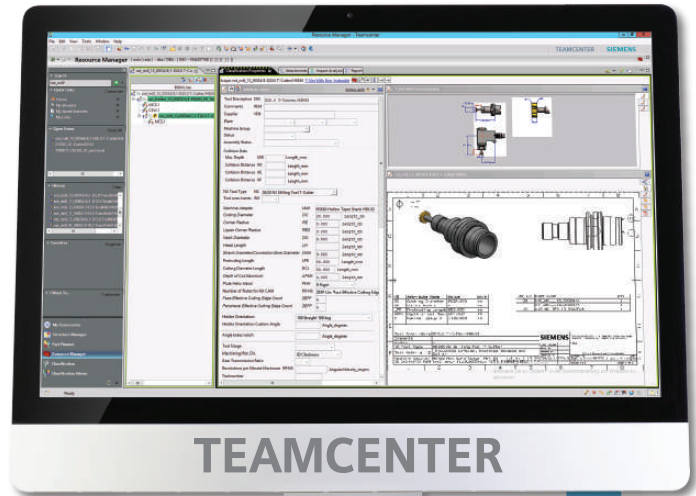
TEAMCENTER

Search Window

Connection
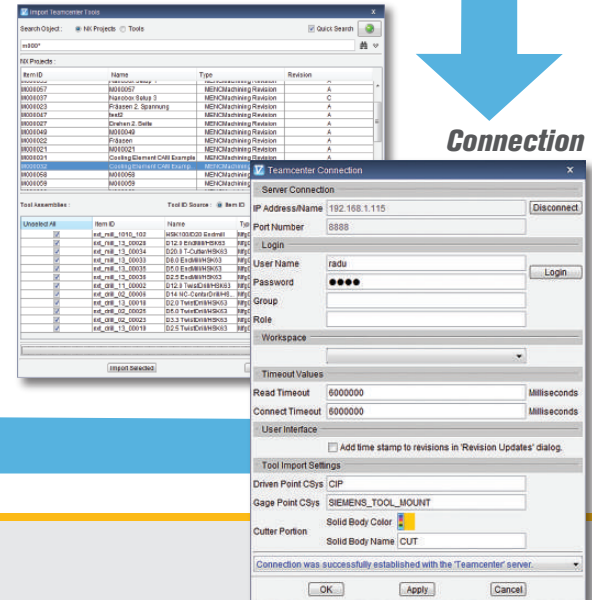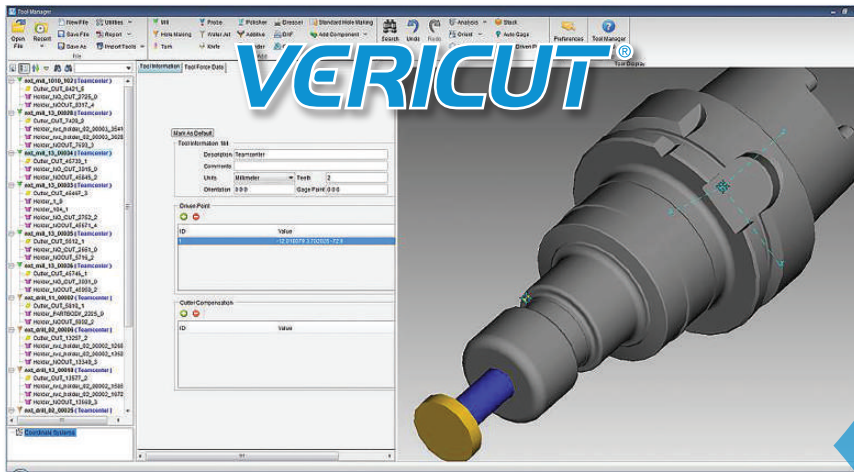
Key Benefits & Features:
- **Uses existing Teamcenter login and password for access.**
- **The integration will work with or without MRL.**
- **Teamcenter performs checks to ensure the user is using the correct revision of the cutting tool assembly.**
- **In the case of an NX CAM project that uses multiple cutting tool assemblies, all 3D models can be read at one time.**
- **Search capability within the Teamcenter Interface allows a user to query for an individual 3D cutting tool assembly or an NX CAM project that references multiple 3D cutting tool assemblies.**
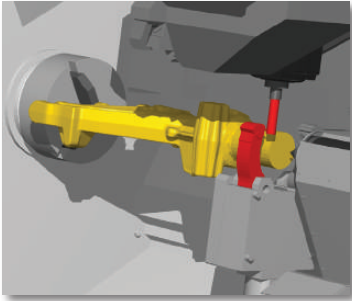
Right the first time. Every time.

CGTECH.com

VERICUT®

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 can create in-process inspection instructions and export a CAD model of the "as-machined" part. You can:

- *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.
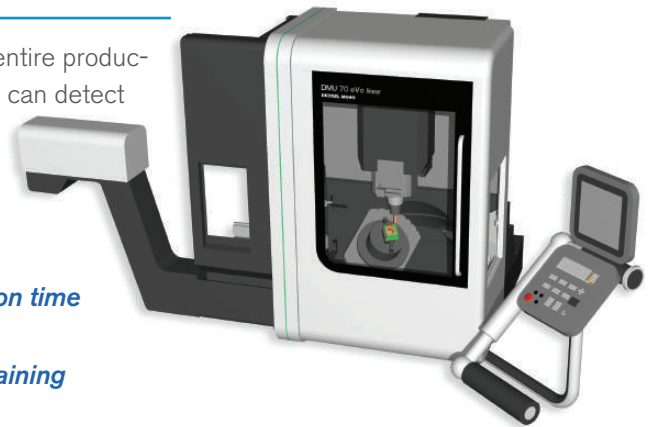
- *Eliminate crashes & close calls*
- *Check machine capabilities*
- *Improve process efficiency*
- *SPEED machine implementation time*
- *ENHANCE documentation*
- *Increase safety and improve training*

Feed Rate Optimization
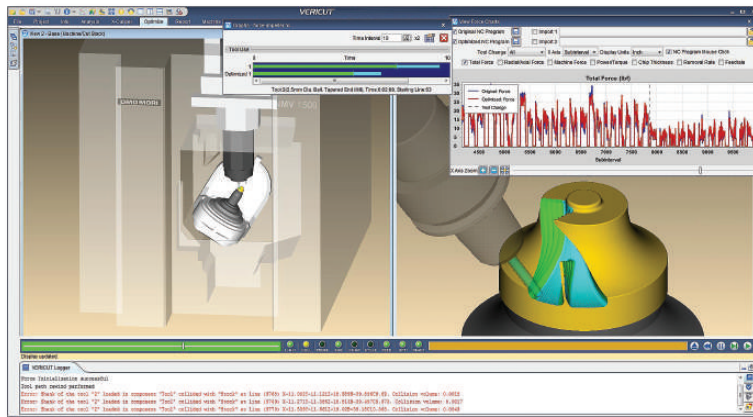
VERICUT is equipped with NC program optimization capabilities. Based on the cutting tool geometry, part material, and programmed cutting conditions, VERICUT automatically determines the optimum safe feed rate for each cut. The VERICUT optimized NC program will greatly improve cutter performance resulting in significant cycle time savings, reduced tool wear, improved tool life, and better finished parts.

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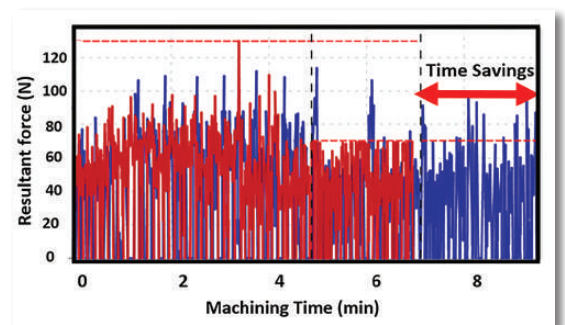
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