VERICUT 8.2 Redefines CNC Simulation

Hove, England – CGTech is pleased to announce the latest release of VERICUT CNC Simulation Software, Version 8.2. With input from thousands of users worldwide from every industry, the focus of VERICUT 8.2 has been to provide features that improve simulation visibility, speed workflow, and streamline each user's verification process.

"CGTech has a strong commitment towards helping customers improve their competitive stance through NC toolpath and process optimisation," says CGTech Ltd. Managing Director, Tony Shrewsbury.

VERICUT is at the heart of the CNC manufacturing process for many of the world's leading engineering businesses in all industry sectors. Machine simulation with VERICUT detects collisions, close calls and detects over-travel errors. Machine movements can even be simulated while stepping or playing backwards in VERlCUT's Review Mode.

Modernised User Interface

A Right-Mouse-Button Ribbon puts favourite VERICUT functions just one click away, and provides convenient access to external applications that programmers find useful. The configurable Head-Up Display (HUD) improves simulation monitoring and visibility by showing the NC program, or machining and cutting status information, overlaid on top of VERICUT's graphical views. HUD provides constant access to important details about the machining process, while keeping simulation views as large as possible for optimal viewing. NC Program Alert symbols and colours highlight errors and warnings found in NC programs, making it faster and easier to identify problem sources.

Force Turning

Force is a physics-based NC program optimisation module that analyses and optimises cutting conditions to achieve ideal chip thicknesses, while managing the cutting forces and spindle power required. VERICUT 8.2 adds Force Turning to optimise lathe turning, and mill-turn operations, when combined with Force Milling. Force Turning makes it easy for anyone to create NC programs for optimal cutting of inside/outside diameters, shoulders, as well as in corners and tight spaces – without the worry of encountering excessive cutting forces or high spindle power demands.

Advancements for Additive Manufacturing

VERICUT 8.2 adds even more realism to additive simulation, and detects many common error conditions programmers face when creating parts additively. Additive material can be applied "as programmed" via the additive path, or projected to the part surface for a more "natural" deposition behaviour. With projection, material build rates vary based on changes in bead overlap, acute corner motions, and starting/stopping at the same location – all of which can cause unpredictable material build-up. Users can verify that laser focal distance stays within the tolerance range required for proper cladding, and that excessive material "overhang" conditions do not exist, which can lead to improper adherence. Warnings are given for non-conforming additive conditions to help programmers determine when additive strategies are likely to fail, or when it may be beneficial to make a milling cut.

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Note to Editors

About CGTech
CGTech's VERICUT® software is the standard for CNC simulation, verification, optimisation, analysis, and additive manufacturing. CGTech also offers programming and simulation software for composites automated fiber-placement, tape-laying, and drilling/fastening CNC machines. VERICUT software is used by companies of different sizes in all industries. Established in 1988, and headquartered in Irvine, California; CGTech has an extensive network of offices and resellers throughout the world. For more information, visit the CGTech website at www.cgtech.co.uk, call +44 (0)1273 773538, or email info.uk@cgtech.com.