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CGTech Releases VERICUT Software Version 8.1

Hove, England – CGTech announces the next major release of VERICUT software. VERICUT CNC machine simulation, verification, and optimisation software simulates all types of CNC machining, additive, and hybrid manufacturing processes. The software operates independently, but can also be integrated with leading CAM systems.

“VERICUT 8.1 includes new modules and enhancements that simplify simulating a CNC machine,” said CGTech Ltd. Managing Director Tony Shrewsbury. “This release is all about various tools that can increase NC programmer efficiency, reduce production time, and detect costly errors before going to the shop floor.”

New Module: Teamcenter Interface

VERICUT Tool Manager imports 3D cutting tools from Siemens Teamcenter® Product Lifecycle Management (PLM) software. VERICUT connects directly to Teamcenter to reference files, avoiding the need to create external uncontrolled copies of models on a local or network drive. In the NX CAM project, all cutting tools used in a given project are listed. In one step, all 3D cutting tools for a job are imported at once.

New Module: Grinder-Dressing

VERICUT enhances support for Grinding and Dressing operations. Users can simulate dressing where a secondary tool is applied to a grinding wheel to freshen the grinding surface, or to change the grinding wheel cutting shape. VERICUT simulates the dynamic compensation needed while the dresser is used, even while the grinder is engaged with the part.

Force™ Optimisation

VERICUT’s Force module is a physics-based NC program optimisation method that maximises chip thickness. Force creates more constant cutting forces resulting in significant machining time savings. Graphs and charts are displayed in real-time, revealing cutting conditions and forces as they are encountered by cutting tools. The data helps NC programmers identify undesirable cutting conditions represented as spikes in the graphs. Spikes display forces, chip loads, tool deflection, and material removal rates above the recommended parameters.

With one click on the chart, the exact location in the NC program is marked. Simultaneously, the actual cut in the graphics window is displayed. By optimising toolpath feed rates, Force reduces machining time, prolongs tool life, and produces a higher quality finished product.

Enhanced Sectioning

VERICUT’s new Section window is easier and faster to see inside a part during simulation. This allows the user to check proper fit, and identify interference between the workpiece and machine components. Sectioning abilities in machine view help with complicated machines where visibility is challenged. Enhancements allow the simulation to be continued while sectioned, and zoomed to achieve unobstructed viewing to pinpoint highlighted errors.

X-Caliper Dimensions

The X-Caliper measuring tool creates a measurement label on the part, and label placement is customisable for optimal viewing. Multiple dimensions can be displayed on the part to quickly

document key measurements, create setup diagrams, or inspection aids. Images with dimensions are easily referenced in VERICUT reports.

Improved Report Template

VERICUT's Report Template editor makes creating a custom report easier. Adding content directly to the report editor is simplified using standard word processing capabilities. The enhancements allow the use of standard HTML objects, and the template editor displays what the report will look like as the template is designed, which also shortens the design process.

VERICUT 8.1 also includes a new Additive module, which simulates both additive and traditional CNC machining capabilities applied in any order.

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 fibre-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.

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