VERISURF 2026
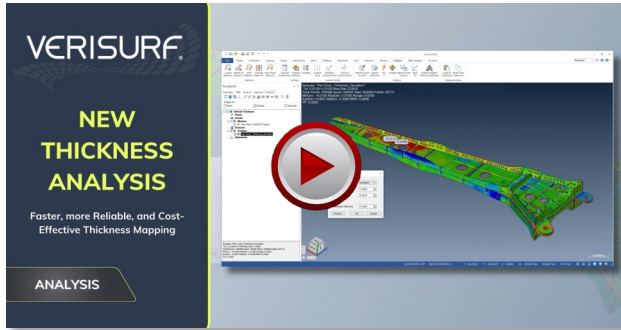
What's New in Verisurf 2026: *Release Highlights*

Where Precision Meets Innovation

ANALYSIS


New Thickness Analysis

Traditional thickness inspection is slow, labor-intensive, and incomplete. Spot checks with hand gauges and point-to-point measurements sample only a fraction of the part. Critical, thin, or thick regions are often overlooked, creating risks in quality control. Verisurf 2026 changes this with a new scan-based Thickness Analysis tool. Verisurf, **patent pending**, Thickness Analysis can report measured and nominal thickness as well as thickness deviation from nominal using a defined thickness tolerance and min/max values to filter the results.

- *Quickly identify critically thin or overly thick regions*
- *Automatic nominal thicknesses from CAD for fast analysis and reporting*
- *Revealing color maps and custom thickness reports communicate part quality*
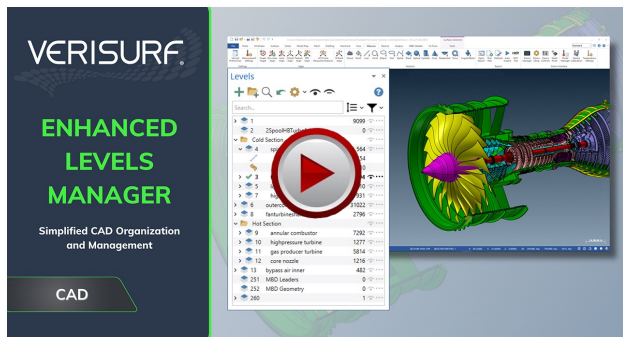
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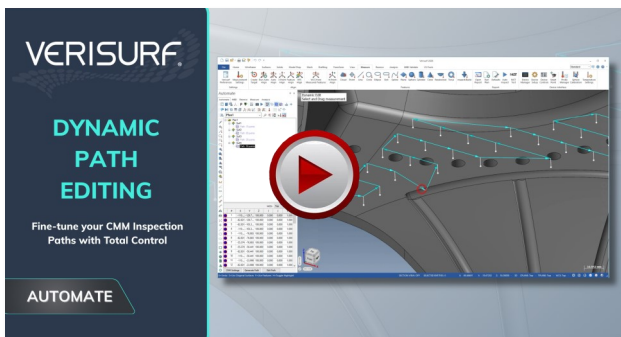
Dynamic Path Editing

Verisurf 2026 introduces a new Dynamic Path Editing tool that lets users fine-tune their CMM inspection paths with total control. Dynamic Path Editing lets you modify individual points within a path interactively, giving complete control over location, order, and strategy, all within the graphical (CAD) interface. Points can be dragged anywhere on the model for grid inspection, or they can be restricted to the parent surface, and changes to the path can be undone with the press of a key.

- *Drag and drop points on CAD model with full control over location, order, and strategy*
- *Restrict modification to the parent surface or drag and drop to other adjacent surfaces*
- *Create, fast collision free inspection paths for parts with access limitations*

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CAD

Enhanced Levels Manager

Verisurf 2026 introduces an enhanced Levels Manager that makes it easier to manage and organize CAD geometry and complex models. The new design features a hierarchical tree structure that organizes CAD geometry by entity type, including count, which makes visualizing and searching through levels more efficient, especially in large, complex models. Interaction between the Levels Manager and CAD entities in the graphics window is live, therefore more interactive.

- *Levels Manager makes it easier to visualize and arrange CAD entities, organizing efficiently and according to the user's preference*
- *Intuitive Search feature finds and displays entities, levels, and groups from the search string*
- *Powerful grouping and organizing with drag-and-drop or cut-and-paste*

Enhanced Planes Manager

Verisurf 2026 introduces an enhanced Planes Manager that streamlines workflows involving assemblies, components and measurement processes that require multiple reference planes. Planes are created using Verisurf's Create WCS functions in the graphics view, or users can create and edit planes dynamically by placing the reference frame on the model. Enhancements for reference systems and working planes improve and reduce the time it takes for reverse engineering, CMM programming, and tool-building tasks.

- *Improved handling of assemblies, components and measurement processes that require multiple reference planes*
- *Expedites reverse engineering and related CAD modeling tasks*
- *Enhancements in coordinate system management save time in tool-building and CMM programming*
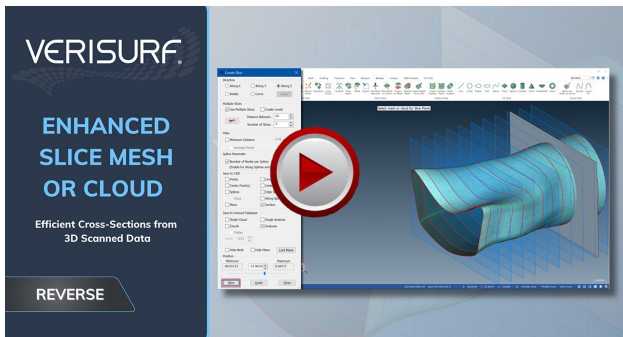
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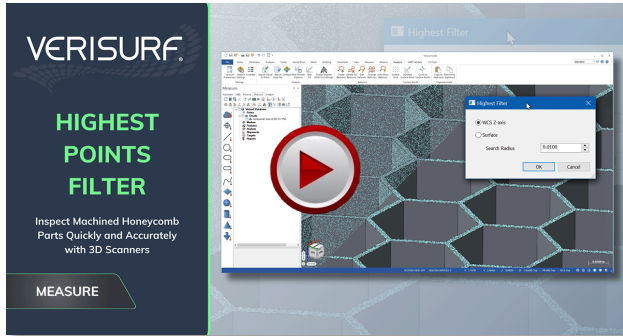
MEASURE

Highest Points Filter

Verisurf 2026 simplifies the inspection of machined honeycomb parts using scan data through the addition of a new highest filter for point clouds. Non-contact scanners provide fast, accurate measurements, but typically scan more of the cell wall than its top edge. The new highest filter in Verisurf 2026 removes this limitation by selecting only the highest point in the direction of a reference vector within a specified search radius.

- *Simplifies the inspection of machined honeycomb parts using scanned cloud or mesh*
- *Filter creates a new cloud of highest points using coordinate system or surface normal height*
- *Additional tools can be used to verify the accuracy of the filtered cloud*

REVERSE

Enhanced Slice Mesh or Cloud

Verisurf 2026 features an enhanced slice tool for meshes and clouds that's easier to use, provides greater support for automation, and expands reporting for applications like blade and surface profile analysis. Used in inspection and reverse engineering workflows to extract 2D profiles from scan data, it allows users to visualize cross-sections, fit splines, generate CAD geometry, and analyze 2D profiles. The Save to CAD group which saves point, line, spline, and surface geometry to CAD now allows the slice plane itself to be saved.

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CAD-MBD

QIF Quality Information Framework Support

Verisurf 2026 provides enhanced inspection capabilities through support for QIF, the emerging Quality Information Framework standard. QIF enables the capture, use, and re-use of metrology-related information such as model-based tolerance, measurement settings, and measured data to make inspections more efficient. The use of QIF eliminates manual data entry errors and standardizes CAD, PMI, and characteristic IDs for end-to-end digital traceability.

- *Meets new industry standard for inspection data interoperability*
- *Complete model-based workflow with inspection automation and digital traceability*
- *Employs semantic, model-based tolerances, measurement parameters, and characteristic (balloon) ID numbers*

VDI-AUTOMATE

Expanded Support for Renishaw Equator

Verisurf 2026 provides expanded support for the Renishaw Equator, improving the accuracy of the machine and providing additional options for high-volume inspection applications. With Golden Compare, the master part is first measured, and the deviations from nominal are used to determine the errors of the machine. Using CMM Compare, the master part is measured on a CMM and analyzed against a CAD model of the part to establish an error model that represents the part's deviations from nominal.

- *Improves the accuracy of the machine and provides additional options for high-volume inspection applications*
- *Golden Compare measures a master part on the machine, then uses the dataset for subsequent parts*
- *CMM Compare uses a calibration file from measurements of a master part on a CMM, which then can be used on any Equator*

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