



What's New in Verisurf 2027: *Release Highlights*

The Next Dimension of Metrology

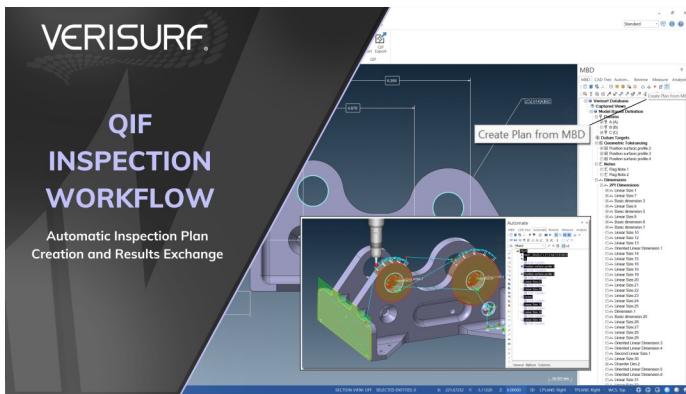
Creating the Intelligent Metrology Ecosystem

QIF Digital Thread Integration



- Connect engineering and manufacturing using standards-based Quality Information Framework (QIF) data while preserving semantic PMI and Persistent IDs
- Exchange engineering intent between CAD, CAM, CAI, CMM, and enterprise quality systems without losing characteristic identity or traceability
- Future-proof your organization by supporting Digital Thread initiatives and open standards that reduce vendor lock-in and improve interoperability

QIF Inspection Workflow

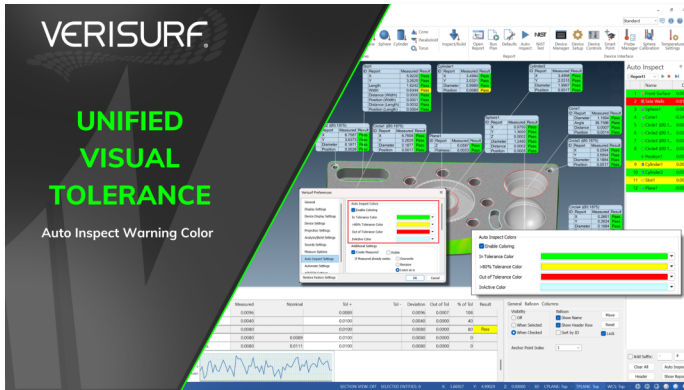


- Automatically generate Inspection Plans directly from engineering-defined QIF data and export standards-based QIF Results upon completion
- Dramatically reduce inspection programming while preserving engineering intent, Persistent IDs, and complete digital traceability from design through inspection
- Streamlines inspection planning, reduces dependence on programmer experience, and supports scalable Model-Based Inspection workflows for years to come



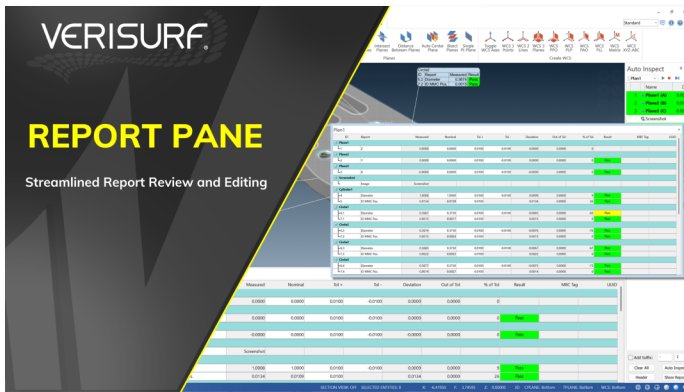
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Unified Visual Tolerance Status



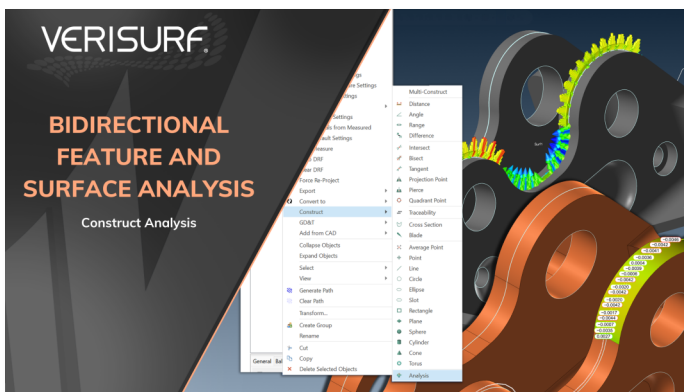
- Instantly understand inspection status through consistent visual feedback across the inspection workflow
- Identify approaching tolerance limits before parts become nonconforming using the new 80% tolerance warning indicator
- Provides a consistent operator experience across inspection, reporting, and future workflow enhancements

Report Pane



- Review, edit, and finalize inspection reports from a centralized Report Pane designed to simplify reporting workflows
- Modify Characteristic IDs, report names, Nominals, and tolerances from a single workspace while maintaining synchronization throughout the Inspection Plan
- Improves reporting efficiency while reducing training time and simplifying report preparation for future software releases

Bidirectional Feature and Surface Analysis

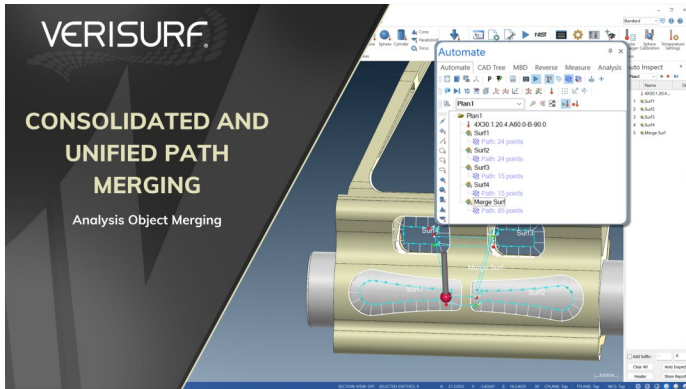


- Measure once and reuse the same dataset to create Features, Surface Profile analyses, and alternate inspection results without remeasuring the part
- Convert between Features and Analysis Objects in either direction to expand reporting and engineering analysis while eliminating duplicate programming and measurements
- Extends the value of every inspection dataset, enabling future engineering analysis and reporting workflows without changing how parts are measured today



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Consolidated and Unified Path Merging



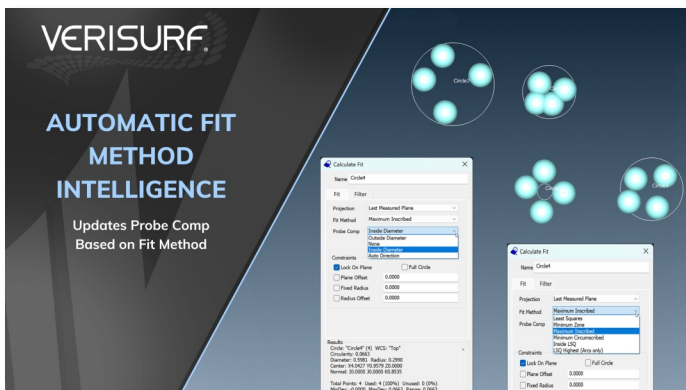
- Simplify complex inspection strategies by combining multiple path segments into a single, unified workflow
- Reduce inspection plan complexity while preserving safe motion, measurement intent, and reporting consistency
- Easier-to-maintain inspection programs reduce long-term programming effort as products and inspection requirements evolve

Dynamic and CAD-Defined GoTo Vector Control



- Program intelligent probe motion using dynamic vectors or CAD-defined directions for safer and more flexible inspection paths
- Reduce manual vector creation while improving approach, clearance, and collision avoidance during inspection programming
- Supports increasingly complex multi-axis inspection applications without requiring extensive program modifications

Automatic Fit Method Intelligence

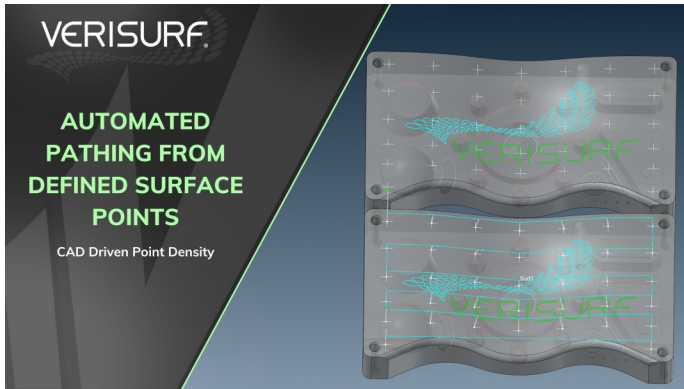


- Simplify standards-based feature evaluation by automatically selecting the appropriate Probe Compensation based on the selected Fit Method
- Reduce setup time and minimize programming errors while improving consistency for functional feature evaluation
- Helps ensure inspection programs remain aligned with ASME best practices and future standards-based enhancements



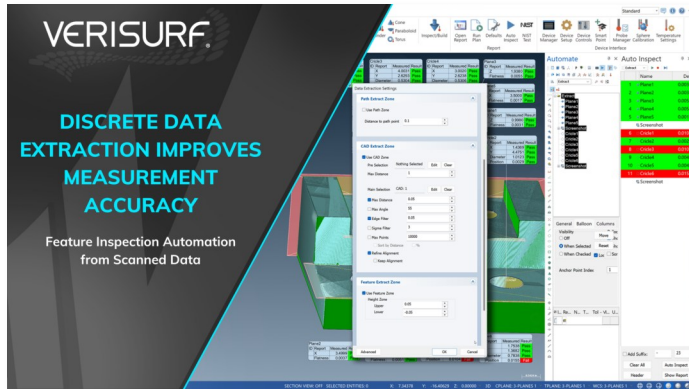
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Automated Pathing from Defined Surface Points



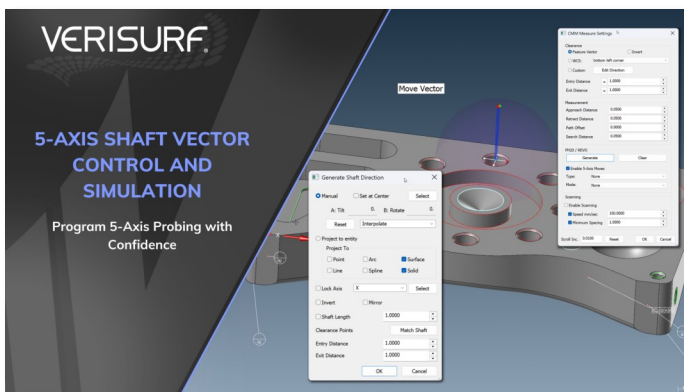
- Automatically generate inspection paths directly from engineering-defined surface points, reducing manual programming effort
- Create consistent inspection paths in seconds while eliminating repetitive programming tasks
- Standardizes inspection programming across users, facilities, and future product revisions

Discrete Data Extraction Improves Measurement Accuracy



- Improve scan-based measurement accuracy by extracting only the data required for inspection rather than entire surfaces
- Reduce high-frequency scan noise, improve R&R, shorten processing time, and produce more meaningful Size, Form, Orientation, and Location results
- Supports OEM specifications, customer quality requirements, and future non-contact inspection technologies while maximizing the value of scan data

5-Axis Shaft Vector Control and Simulation



- Program and validate advanced 5-axis CMM inspection strategies with greater confidence before executing the inspection program
- Visualize shaft motion, optimize machine movement, and reduce setup time for complex 5-axis CMM inspection applications
- Expands Verisurf's advanced automation capabilities to support increasingly sophisticated 5-axis CMM inspection systems and future inspection technologies

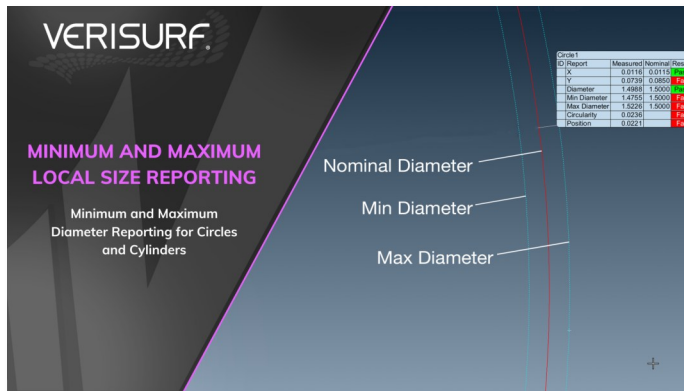
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ASME Y14.5 Rule #1 Reporting Envelope Principle Compliance



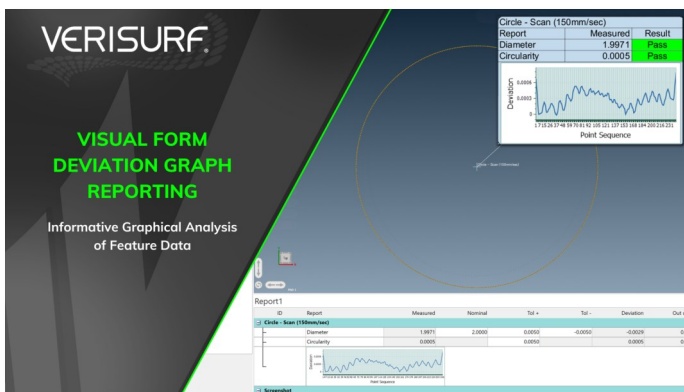
- *Demonstrate standards-based inspection by automatically evaluating and reporting ASME Y14.5 Rule #1 compliance for Circles and Cylinders*
- *Eliminate manual Rule #1 calculations and clearly communicate pass/fail Envelope Principle compliance directly in inspection reports*
- *Stay aligned with evolving customer requirements and industry standards through built-in Rule #1 evaluation and reporting*

Minimum and Maximum Local Size Reporting



- *Report both functional size and measured local size to provide a more complete representation of manufactured features*
- *Gain additional engineering insight by reporting Minimum and Maximum Diameter alongside functional size without creating additional measurements*
- *Supports modern GD&T practices and evolving customer reporting requirements while future-proofing inspection reports*

Visual Form Deviation Graph Reporting



- *Transform complex form error into an intuitive graphical representation that customers and engineers can quickly understand*
- *Add visual Form Deviation Graphs directly to reports and Feature Balloons for faster engineering review and troubleshooting*
- *Deliver more informative inspection reports that improve communication between quality, manufacturing, and engineering*

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