

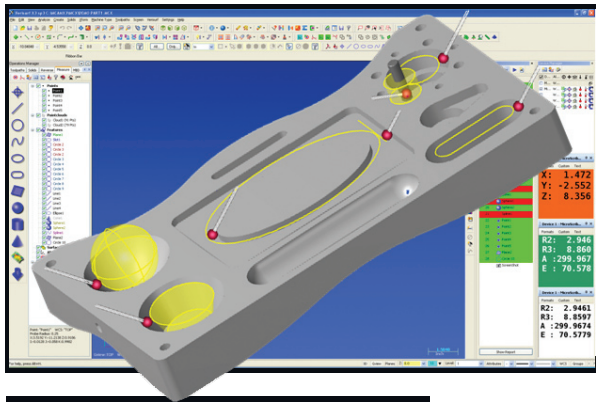
MEASURE

VERISURF^X

REAL-TIME, REAL POWER

Verisurf *Measure* provides a complete set of simple yet flexible tools for print-based feature inspection and part-characteristic analysis. Real-time feature calculation displays shape geometry and form errors to provide the user with 'live' inspection results from virtually any 3D measuring device.

THE METROLOGY TOOL FOR FEATURE-BASED PART INSPECTION



Quickly and easily create reports that automatically associate nominal values to measured features, with unique tolerance values, reporting of individual feature-properties and detailed graphical images for clarity.

View a live, graphical probe-display as you measure in single-point mode for greatest accuracy or in high-volume pointcloud mode for maximum efficiency. Either way, Verisurf *Measure* makes it easy to measure, solve and report feature-results.

Use virtually any 3D digitizer – stationary and portable CMMs, laser trackers, scanners and many other existing and emerging technologies – to measure both simple and complex geometries including points, planes, cylinders and even paraboloids. Verisurf *Measure* supports a wide range of devices out-of-the-box at no additional charge.

Features are automatically solved, projected, probe-compensated and displayed as you measure. Results can be compared to a CAD model or to blueprint dimensions and tolerances, to analyze and report the GD&T tolerance condition.

FEATURES & BENEFITS

- Fast inspection of parts to blueprints
- Real-time inspection geometric primitives
- Online and offline-fitting of geometric shapes from measured points
- Efficient creation of inspection reports
- Scan points with high-volume scanners for surface inspection, color mapping and reverse engineering
- User-defined feature names for labeling tooling locators, etc.
- Supports all popular measuring devices
- NIST - tested fitting of geometric features from points

Flexible, Custom Reporting

Verisurf's Report Manager provides a flexible means of data management with capabilities that extend well beyond static reporting.

Drag-and-drop simplicity combined with speed-menu options make it easy to select datum features for GD&T reporting, to calculate relationships between features, and to organize and format the report.

With numerous data export schemes, Report Manager gives you all the freedom you need to measure, solve and report according to blueprint requirements.

Verisurf Inspection Report

Dwg #: 0
Part ID: 0
Work Order #: 0
Inspector: X

VERISURF
The difference is measurable.

Measurements

ID	Nominal	+Tol	-Tol	Dev	Over	OOT
16	0.48985	0.01000	-0.01000	0.00022	2%	
17	-13.92973	0.01000	-0.01000	-0.00014	-1%	
10	5.21187	0.01000	-0.01000	0.00113	11%	
ID	Nominal	+Tol	-Tol	Dev	Over	OOT
19	0.66617	0.01000	-0.01000	0.00022	2%	
15	-8.93269	0.01000	-0.01000	-0.00066	-7%	
2	5.24094	0.01000	-0.01000	0.00078	8%	
ID	Nominal	+Tol	-Tol	Dev	Over	OOT
17	-2.50691	0.01000	-0.01000	-0.00026	-3%	
17	-13.82400	0.01000	-0.01000	-0.00037	-4%	
15	5.21338	0.01000	-0.01000	0.00057	6%	
ID	Nominal	+Tol	-Tol	Dev	Over	OOT
17	-2.33012	0.01000	-0.01000	-0.00045	-6%	
12	-8.82645	0.01000	-0.01000	-0.00077	-8%	
17	5.24246	0.01000	-0.01000	0.00021	2%	

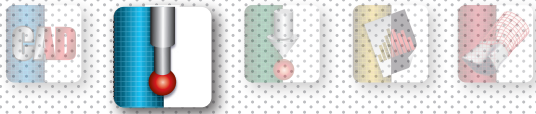
MEASURE

BASIC

BUILD

ANALYSIS

REVERSE

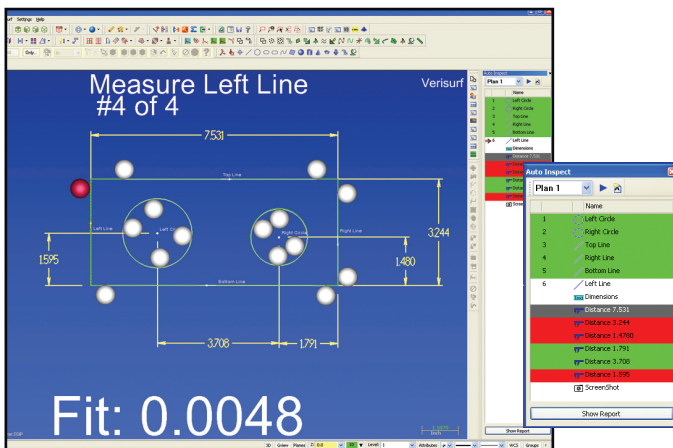


MEASURE VERISURF^X

**THE METROLOGY
TOOL FOR
FEATURE-BASED
PART INSPECTION**

Automating Your Inspection Process

Verisurf **Measure** provides powerful tools for inspection automation. Inspection plans are automatically created from existing measurement/inspection reports, allowing you to convert a first-article inspection into a process plan with minimal effort.



Simply measure the part once. When you create the report, nominal values and tolerances are automatically taken from the CAD model (or input from blueprints). Complete the plan by selecting a format and choosing which properties to report. The next time you want to inspect the same part, just run the plan and print the results.

For even greater efficiency, you can use MBD-enhanced CAD models to automatically create inspection plans. After loading the model, Verisurf **Measure** can extract the nominal features and tolerances to create the plan and the report.

Verisurf's **Automate** is a simple and intuitive model-based, graphical display that guides the user through an inspection, showing real-time tolerance results at each step to improve efficiency and avoid mistakes.

Fast, Accurate Device Alignments

Verisurf **Measure** provides alignment tools that are accurate, powerful and easy-to-use. The novel, industry-leading **AutoAlign** routine uses model-based graphics to guide the user through a series of measurements that align the device (and thereby the part) directly to the CAD model.

Feature Align uses the measured values of datum reference features such as planes, lines and holes, to align the device to the datum reference frame.

AutoAlign increases your productivity and accuracy through the efficiency and repeatability of its automation, improving process control. This streamlined routine is faster, more consistent and more accurate than any other approach, especially when measuring complex contours.



The Leader in Model-Based Metrology Software

Verisurf Software has set the standard for model-based inspection, reverse engineering and tool building in aerospace, automotive and a broad spectrum of other industries. As the common software platform for all type of measuring devices - including stationary CMMs, portable CMM arms, laser trackers and scanners, and many other types of existing and emerging technologies - Verisurf has streamlined the manufacturing process. Our field-proven solutions deliver significant improvements in productivity and cost effectiveness.



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