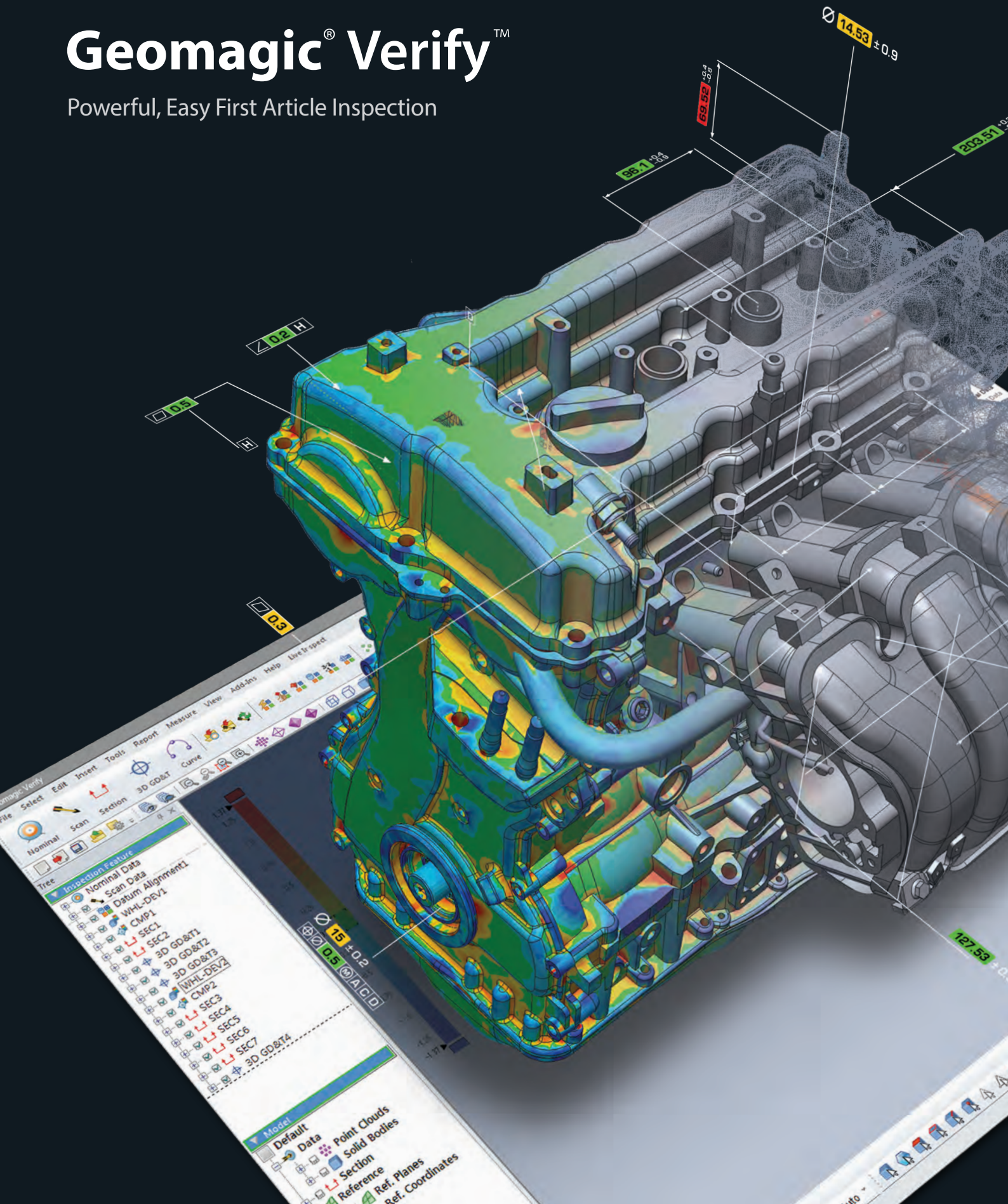# Geomagic® Verify™

Powerful, Easy First Article Inspection

Geomagic® Verify™

Geomagic Verify is powerful, easy first article inspection software for both contact and non-contact 3D measurement devices. It lets you measure and compare parts to CAD models to find and fix manufacturing defects before they become major problems.

Minimize Errors and Save Time

Geomagic Verify lets you reduce the chance for human errors and speeds up the inspection process because it measures directly from your CAD data. Geomagic Verify recognizes features in CAD models and measures them on the fly, so you don't have to set up reference geometry.

Ensure Consistent Results

Reproducibility is critical to every quality control process, and Geomagic Verify makes achieving reproducible results easy. In fact, Geomagic Verify automatically extracts features from measured data based on parameters you set, reducing variability between operators.

Keep a Detailed History of Every Inspection

You don't have to guess why a part passed or failed, because every inspection is recorded by Geomagic Verify. Via a detailed history tree, you can see the date of measurement, reason for pass/fail, conditions of measurement and more.

Verify with Confidence

Top manufacturers around the world trust Geomagic Verify to measure thousands of parts daily, and you can too. Geomagic Verify's geometry calculation algorithms have been tested by America's NIST, Britain's NPL and independently certified by Germany's PTB metrology authority as Class 1 accuracy.
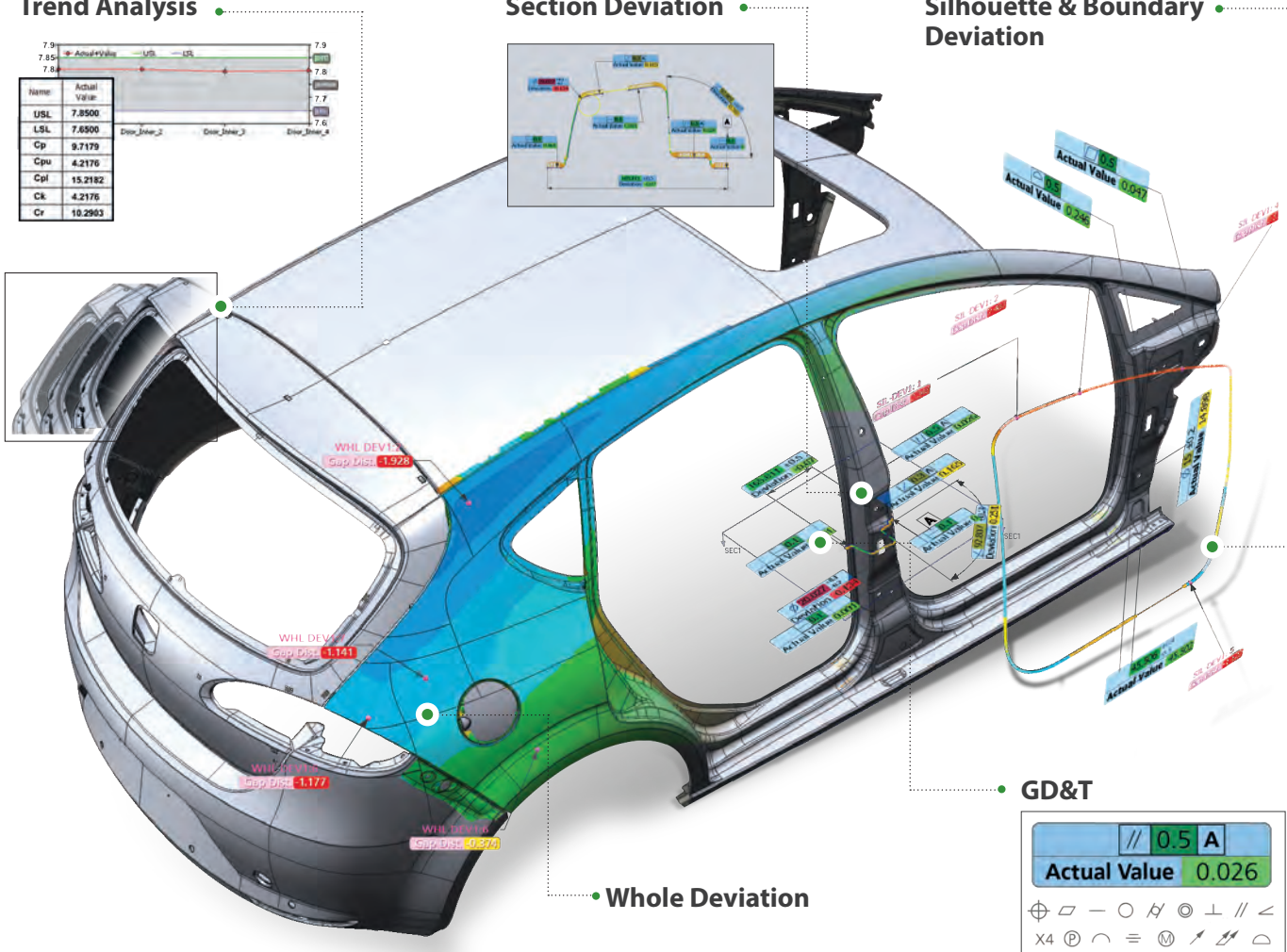
Trend Analysis
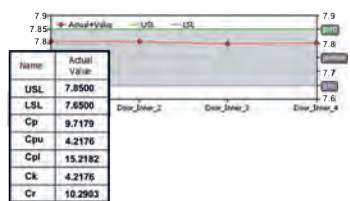
Section Deviation

Silhouette & Boundary Deviation

Whole Deviation

GD&T

Geomagic Verify also supports
curve deviation, thickness plot, virtual edge deviation, comparison points, curvature plot analyses and more.

Accelerate Your Inspection Process
With Your Measurement Device and Geomagic Verify

Built for Point Clouds and Probing

Geomagic Verify is built specifically to handle millions of points from any 3D scanner. It also supports many probe-based devices with LiveInspect, Geomagic's unique scanning/probing interface. Every measurement you take, regardless of the device it was collected with, is saved in Verify's parametric history tree and can be used throughout the inspection process.

Comprehensive GD&T Functionality

Geomagic Verify offers every 2D and 3D GD&T callout in the ASME Y14.5B standard. It supports in-depth GD&T functionality, like material condition modifiers and multiple datum reference frames, allowing you to measure a wide array of features.

Move Seamlessly Between Contact and Non-Contact Inspection

Keep all your data in one place with a single inspection and reporting interface, regardless of the device type. Every measurement you take with a 3D scanner or touch probe device is saved in Verify's parametric history tree.

Easy to Learn and Use

Verify makes inspection simple with an easy-to-use interface and a straightforward, logical workflow. Every measurement is automatically extracted based on rules you set, and Verify ensures reproducibility with its automatic feature extraction algorithms for contact and non- contact devices.

Feature Intelligent Inspection

With CAD intelligence built into Geomagic Verify, defining measurements is as easy as clicking a feature on your CAD model. Verify also recognizes features on the CAD model, so you don't have to extract reference geometry before you define dimensions and tolerances. On parts with hundreds or thousands of dimension/tolerance callouts, this means hours of savings and significantly reduced error risk.

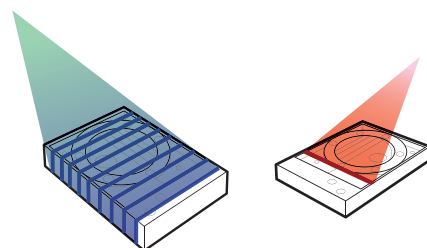# Two Effective Ways to Inspect

Probing-Based Inspection	Scanning-Based Inspection
Contact-based inspection for the most accurate measurement of features	**Non-contact based inspection for fast and comprehensive measurement of form**
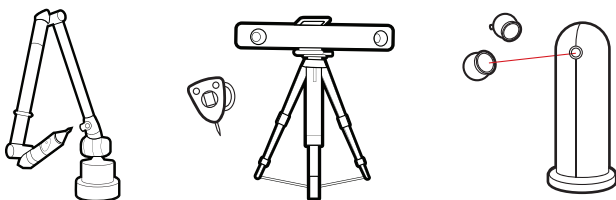
- Compatible with every major probing device
- LiveInspect technology guides you through how to align and measure each part
- Compare to a CAD nominal or measure a part on the fly without CAD
- LiveDimension intelligently measures dimensions on features
- Use Verify's extensive GD&T toolset to verify parts
- Make reports automatically, based on templates that show exactly what you want

- Compatible with all 3D scanners
- Automatically align point clouds to CAD nominals
- Generate detailed deviation color maps showing where a part is in and out of tolerance
- Measure GD&T from a point cloud or mesh
- Repeat inspections completely automatically just by opening a scan file
- Make reports automatically, based on templates that show exactly what you want

Geomagic Quality Inspection Product Comparison

Geomagic® Verify™ is powerful, easy first article inspection software for both contact and non-contact 3D measurement devices, whereas Geomagic® Control™ is a comprehensive inspection automation platform for streamlining in-line and repetitive inspection processes.

Functionality	Verify™	Control™
Direct interfaces for many popular metrology devices	●	●
Intelligent reference geometry recognition	●	●
Point cloud and polygon mesh analysis	●	●
Comprehensive probing support	●	
Airfoil analysis		●
State-of-the-art GD&T functions	●	●
Platform automation and scripting		●
Convenient reporting tools	●	●
Automatic alignment based on feature recognition	●	●
Inspection without a CAD nominal	●	●
Interactive guided inspections	●	
2D and 3D dimensioning	●	●

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About 3D Systems

3D Systems is a leading provider of 3D content-to-print solutions including 3D printers, print materials and on-demand custom parts services for professionals and consumers alike. The company also provides CAD, reverse engineering and inspection software tools and consumer 3D printers, apps and services. Its expertly integrated solutions replace and complement traditional methods and reduce the time and cost of designing new products by printing real parts directly from digital input. These solutions are used to rapidly design, create, communicate, prototype or produce real parts, empowering customers to create and make with confidence.