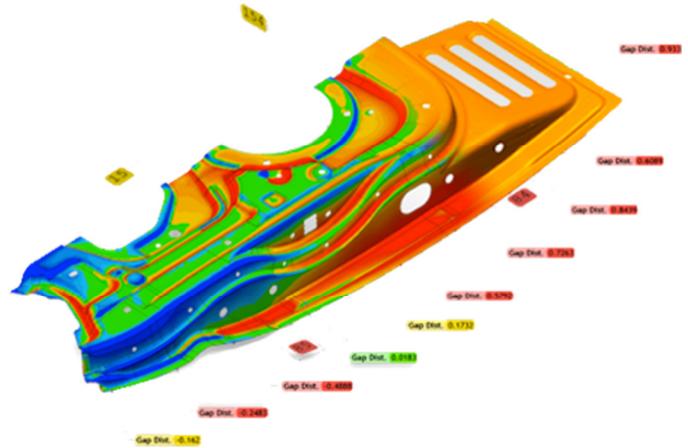


Geomagic Verify Fact Sheet

Geomagic Verify

Get a complete view of your parts, automatically.

Geomagic Verify (formerly known as Rapidform XOV) is the safer, easier inspection software. Combine the power of 3D scanning and CAD to verify parts quickly and thoroughly. Because Geomagic Verify is feature intelligent, a few clicks are all it takes to define alignments, dimensions, tolerances and create reports. Inspect directly from CAD data – skip the interim steps that increase the chance for errors and waste time.



- Accurate, automated part inspection
- Simple, fast and reliable dimension and tolerance (GD&T) setup
- The only native point cloud software that supports every callout in the ASME Y14.5 standard
- Vivid deviation colour maps for quick verification of part quality
- Compatible with every major 3D scanner and probe-based device



Feature Intelligent Inspection



Geomagic Verify has CAD intelligence built in, so defining measurements is as easy as clicking on a feature on a CAD model. It's the only point cloud software that recognizes features, 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 saves hours of setup time, and reduces the risk of error by measuring directly from the CAD model. And if your 3D CAD models include GD&T information, Geomagic Verify can import it all and use it immediately (available for Siemens NX, CATIA V5 and Creo).

Safer & Easier

Geomagic Verify is easy to use. It's straightforward, logical workflow makes setting up inspections simple, and it extracts every measurement automatically. Reproducibility is ensured by its automatic feature extraction algorithms, which reliably extract reference geometry from measurement data without user intervention. Deviation colour maps

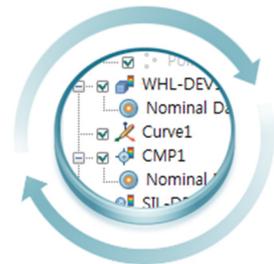
reveal differences between the nominal and measured part with a glance. And editing inspection routines is easy with its patented parametric history tree.

Use Point Clouds and Probe Data Interchangeably

Geomagic Verify is built from the ground up to handle hundreds of millions of points from virtually 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 Geomagic Verify's parametric history tree and can be used throughout the inspection routine.

Automatic Inspection Repetition

Because Geomagic Verify tracks every step of the inspection process, once you've inspected one sample of a part, every subsequent sample can be inspected automatically. XOV recognizes features in the scan data and measures them on the fly without any user interaction needed. So the next part you inspect is just one step from beginning to end. You don't need to write macros to automate your work because Geomagic Verify is history-based just like Geomagic Design X.



Macro-free Inspection Process Automation

In Geomagic Verify, you've got a simple interface similar to popular CAD applications, so running through the inspection process is a breeze. Just import the CAD nominal, open the scans of your part (or use LiveScan to run your 3D scanner inside XOV), and you're ready to go. Every alignment, deviation colour map, dimension and tolerance that you measure is added to the history tree, so you can track exactly what you've done and change anything at any time. No other point cloud metrology software lets you tweak your inspection process so easily. Imagine that you're finishing up an inspection job, only to notice your part isn't properly aligned to the CAD model – no problem! With Geomagic Verify, you simply change the alignment, and the software recalculates every measurement and regenerates an inspection report.

Powerful Capabilities for the Most Demanding Applications

There's a reason Geomagic Verify is used by almost every major automaker and thousands of other companies: it has in-depth functionality to complete the toughest inspection jobs. Sophisticated alignments, ANSI Y14.5b compliant GD&T and extensive deviation analysis capabilities let you perform detailed inspections of your parts. Sheet metal, castings, plastics, tooling and machined parts can all be measured and compared to CAD models in Geomagic Verify.

Supports All 14 GD&T Callouts of the ASME Y14.5B Standard

Geomagic Verify is the only native point cloud software that offers every 2D and 3D GD&T callout. It supports in-depth GD&T functionality like material condition modifiers and multiple datum reference frames.

Proven Accuracy

When it comes to inspection, every calculation counts. That's why Geomagic Verify's geometry calculation algorithms have been tested by America's NIST, Britain's NPL and



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independently certified by Germany's PTB metrology authority as Class 1 accuracy. Top manufacturers around the world trust Geomagic Verify to measure thousands of parts every day.