

## Geomagic for SOLIDWORKS Feature List

Geomagic® for SOLIDWORKS® delivers the seamless ability to 3D scan directly into SOLIDWORKS and use integrated industry proven toolsets to create solid models directly and accurately in your design environment.

<b>Direct Scanner Integration with Geomagic Capture and Other Popular 3D Scanners</b>	<ul style="list-style-type: none"> <li>• Scan directly inside SOLIDWORKS</li> <li>• Probe features and sketches</li> </ul>
<b>Point Cloud Processing</b>	Fast, automated processing
<b>Polygonal Surface Creation</b>	Mesh construction from point cloud or merging of multiple meshes
<b>Polygon Processing Tools</b>	<ul style="list-style-type: none"> <li>• Decimation</li> <li>• Smoothing</li> <li>• Noise reduction</li> <li>• Hole filling</li> </ul>
<b>Powerful Alignment Tools</b>	<ul style="list-style-type: none"> <li>• Scan to alignments</li> <li>• Align your mesh to World Coordinate System</li> <li>• Picked point alignment for multiple scan data sets</li> </ul>
<b>Automatic Surfacing</b>	Automatic conversion of both organic and geometric objects to CAD solid
<b>Mesh Cross Sectioning</b>	Automatic curve and sketch creations
<b>Intuitive Smart Selection Tools from Mesh</b>	<ul style="list-style-type: none"> <li>• Extrude</li> <li>• Revolve</li> <li>• Sweep</li> <li>• Freeform surface</li> <li>• Primitive feature fitting</li> </ul>
<b>Intuitive Smart Selection Tools for Selecting Polygon Groups</b>	<ul style="list-style-type: none"> <li>• Region</li> <li>• Lasso</li> <li>• Box</li> <li>• Polygon</li> </ul>
<b>Region Grouping Tools for Detailed Mesh Segmentation</b>	Pre-processing step for intelligent feature extraction
<b>3D Comparison with Deviation Analysis</b>	Compare any time between mesh object and CAD object

## Contact Information

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## About 3D Systems

3D Systems provides comprehensive 3D products and services, including 3D printers, print materials, on-demand parts services and digital design tools. Its ecosystem supports advanced applications from the product design shop to the factory floor to the operating room. As the originator of 3D printing and a shaper of future 3D solutions, 3D Systems has spent its 30 year history enabling professionals and companies to optimize their designs, transform their workflows, bring innovative products to market and drive new business models.

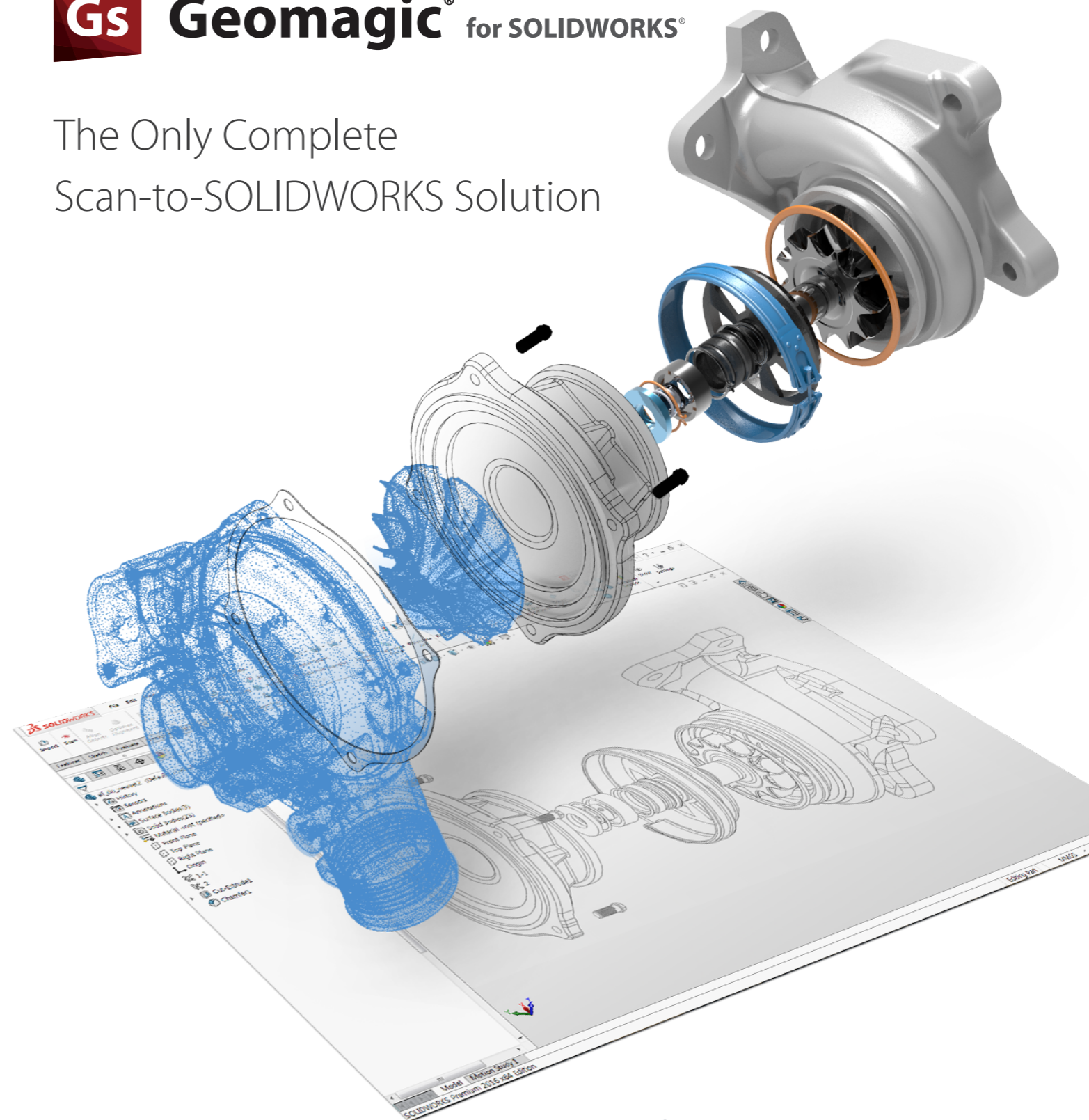
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**Gs** Geomagic® for SOLIDWORKS®

The Only Complete  
Scan-to-SOLIDWORKS Solution



Imagine being able to capture anything in the physical world and have a digital solid model of it in minutes.

**Geomagic® for SOLIDWORKS®** is the industry's most complete integrated Scan-to-SOLIDWORKS model solution. Reduce the time required to build complex 3D models of real world objects by directly scanning or importing scan data into SOLIDWORKS. The advanced, automated wizards quickly and easily create accurate sketches, surfaces or feature-based editable solid parts inside SOLIDWORKS.

Geomagic for SOLIDWORKS is a software toolset that plugs directly into your SOLIDWORKS environment giving you advanced capabilities to make tools point clouds and polygons more usable in your design process. This software supports a range of popular 3D scanners as well as the import of standard point and polygon file formats. You can import data or scan directly in SOLIDWORKS and use the feature extraction wizards to extract CAD sketches, surfaces and solids.

**Effortless design at your fingertips**

Use proven industry-leading tools from Geomagic directly inside your SOLIDWORKS environment. Easily create solid, feature-based parts using the precise scan registration, automated smoothing, mesh editing, auto sketch creation and intelligent extraction of feature tools implemented inside SOLIDWORKS. Make use of deviation analysis tools along-side your modeling process to confidently create CAD bodies that are accurate to your input scan data.

**Rapidly recover lost design data**

Lost design data? Have an old part with no drawings? Have worn or broken molds that need to be recreated? Bring legacy parts into a digital design environment and combine scan-driven modeling with dimension driven processes. Geomagic for SOLIDWORKS lets you quickly and easily create SOLIDWORKS parts for highly complex and broken parts in one seamless scan-based design workflow.

# Open up a world of possibilities with Geomagic for SOLIDWORKS

Geomagic for SOLIDWORKS is a bridge between physical parts and your CAD environment enabling rapid design, engineering, and production. Improve upon, learn from, customize and reuse designs that surround you every day. Bring physical objects into SOLIDWORKS and design around existing parts for perfect fits.

**Do the Impossible**

Create products that cannot be designed without reverse engineering. Build components that integrate perfectly with existing products or customized parts that require a perfect fit with the human body. Use proven industry-leading tools from Geomagic to make organic shapes useful in your SOLIDWORKS environment. Capture the design intent of complex geometry that cannot be measured any other way.

**Powerful and Flexible**

Create solid parts with Geomagic for SOLIDWORKS. The combination of mesh editing and point cloud processing, automatic and guided feature extraction and accurate and fast exact surface fitting to organic 3D scans help create useful feature-based solid models. Now, you can scan virtually anything and create manufacturing-ready designs.

**3D Comparison with Deviation Analysis**

Quickly and easily compare a CAD object and a mesh object. Every wizard in Geomagic for SOLIDWORKS has a deviation analysis tool to check feature accuracy as you model. Get real-time information on your features to help make design decisions and maintain design intent.

**Scanning Freedom**

Geomagic for SOLIDWORKS supports a range of industrial 3D scanners for direct Scan-to-SOLIDWORKS including Creaform, FARO, Hexagon, Nikon, Vialux and the Capture scanner from 3D Systems.

