



geomagic studio® 9



Create accurate digital models from physical parts

Digital reconstruction software for engineering and design professionals. *Geomagic Studio is powerful and easy to use, users can effectively, quickly and automatically produce accurate digital models from 3D scan data.*

Digital Shape Reconstruction Tools

Integrate the digital representation of physical objects into design engineering workflows.

- Increase productivity tenfold by minimizing the default blank-screen starting point found in traditional CAD processes.
- Customize products at the speed of change.
 - Capture existing shapes and construct optimized digital production models for cost-effective, rapid manufacturing and mass customization.
 - Automatically repair surface models.
 - Create new functional components and structures that maintain the properties of the original shape.
 - Send final models directly to digital production equipment to create unique parts.

Computer-Aided Engineering (CAE)

Accelerate digital modeling for analysis to produce better products faster.

- Capture as-built or hand-modified parts for engineering analysis such as computational fluid dynamics (CFD) and finite element analysis (FEA).
- Ensure safety and reduce human or manufacturing error and risk.
- Produce watertight models in hours, not weeks.

Applications

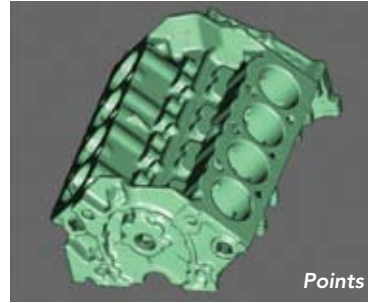
Out-of-the-box productivity and open workflow. Process and model limitless, complex shapes for an infinite variety of applications including:

- Reverse engineering
- Design and analysis
- Mass production of customized devices
- Build-to-order manufacturing
- Digital asset archiving for automatic recreation of legacy parts

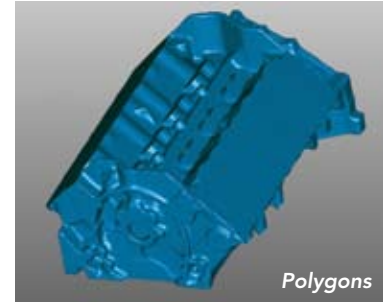
Industries

Combining automation and ease-of-use, the digital shape sampling and processing (DSSP) technology in Geomagic Studio satisfies requirements in virtually any industry where speed and accuracy are important including:

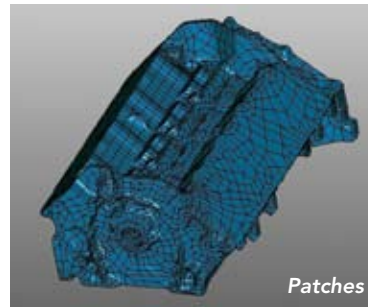
- Automotive
- Aerospace
- Manufacturing
 - Tool and die
 - Casting and molding
- Medical modeling
 - Fuels advances in medical devices and dentistry.
- Art and archaeology
 - Used to preserve, analyze and reconstruct some of the world's greatest art and antiquities.



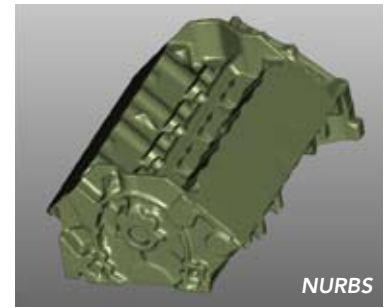
Points



Polygons



Patches



NURBS

Supporting all leading 3D scanners and digitizers, Geomagic Studio captures point clouds, facilitates scan registration and converts polygon models into NURBS models.

Capture. Provides options for fully automated or manual registration, noise reduction and other data refinement. Geomagic Studio Plug-ins allow users to directly control and manage data capture.

Wrap. Eliminates time-consuming surface reconstruction by mathematically wrapping a polygon surface from point cloud data. Automated processing and user controls for fine-tuning create watertight models for rapid prototyping and digital manufacturing.

Shape. Enables conversion of complex polygon models into accurate NURBS models for CAD, CAM and CAE systems — all with just one click. User-defined layout capabilities and interactive surface editing provide complete control over the output surface.

New in Geomagic Studio 9:

Unmatched automation through five major areas of enhancement:

1. Detection of 3D features.
2. Redesigned, powerful macro system: add logic and flow control to automation scripts.
3. System for defining workflow: reduce or eliminate time-intensive tasks.
4. Support for color, textures and image projection.
5. Fast and intuitive manual surfacing.

Multiple Languages

Studio 9 is available from Geomagic and its worldwide distributors in:

- English
- Chinese
- French
- German
- Italian
- Japanese
- Spanish

Visit Us

To learn more about Geomagic Studio, obtain detailed product specifications, download success stories or sign up for a Studio 9 demo, go to www.geomagic.com.

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