PRODUCT WORKFLOWS

GEOMAGIC STUDIO WORKFLOW

SCAN AND PROBE
Collect 3D point cloud and probe data from physical objects to form the basis of the new 3D model.

PROCESS
Use Geomagic Studio’s automated tools to clean the data, create polygons, surfaces and then parametric CAD data for use in precision engineering processes downstream.

USE
Use your 3D model for: design, engineering, analysis (FEA, CFD), testing, prototyping, integration with other 3D CAD data models, retrofit, documentation of parts and more.

GEOMAGIC WRAP WORKFLOW

SCAN AND PROBE
Collect 3D point cloud and probe data from physical objects to form the basis of the new 3D model.

PROCESS
Use Geomagic Wrap’s automated tools to clean the data, create polygon data, or to remesh existing tessellated models.

USE
Use your 3D model for: 3D printing, visual effects, art, design and production, archive and analysis.

Cover and workflow images courtesy of North Star Imaging & Twin Cities Die Casting, and USF-AIST
Geomagic Studio is the industry’s most easy-to-use, intelligent solution for transforming 3D scan data into highly accurate polygon and native CAD models for reverse engineering, product design, rapid prototyping and analysis.

**BENEFITS OF GEOMAGIC STUDIO**
Intelligent, automated and flexible, Geomagic Studio delivers the best experience and the highest quality 3D data from scan and probe data.

- Immediately and rapidly create high quality 3D data from almost any source.
- Increase productivity in design, manufacturing and repair workflows by quickly and accurately testing and redesigning existing parts and objects in 3D.
- Access the fastest path to CAD from point and polygon data.
- Leverage the physical objects you already have into digital assets.
- Deliver and design revolutionary new products and treatments.
- Deliver results quickly.

Geomagic, the industry-leader in 3D imaging, offers high-end technical support, comprehensive online tutorials and Knowledge Base and world-class training.

**LANGUAGES SUPPORTED**
- English
- German
- Chinese (simple and traditional)
- Japanese
- Russian
- Italian
- Spanish
- Portuguese
- French
- Czech

**PRIMARY APPLICATIONS**
- Engineering
- Automotive and Industrial Design
- Aerospace
- Consumer Product Manufacturing
- Heavy Equipment Manufacturing
- Transportation Manufacturing

North American Eagle, the US Landspeed Record contender, built 3D models using Geomagic to test for airflow in the design.

Rapidly build models using exact surfaceing or using original design intent in Geomagic Studio.

Images courtesy of North American Eagle and data courtesy of North Star Imaging & Twin Cities Die Casting
FEATURES OF GEOMAGIC STUDIO

Geomagic Studio delivers the industry’s most comprehensive solution for transforming 3D scan and probe data, and polygon meshes, into accurate surfaced 3D models for engineering, product design, rapid prototyping and manufacturing. Geomagic Studio delivers the fastest way to convert 3D scan data into parametric and 3D CAD models, and provides a wealth of features that revolutionize digital modeling and manufacturing processes.

KEY FEATURES

- The intuitive new Sketch function allows direct creation and editing of cross-section curves from both point clouds and polygon models.
- Robust scripting environment extends, customizes and automates functions with deep access into selected commands in the software.
- Improved editing, navigation and visualization of point clouds from mid- and long-range scanners for scene-level 3D models.
- Enhanced hard probing enables accurate measurement and creation of features using touch probes, portable CMM arms and similar equipment from hardware partners such as Faro, Creaform, Hexagon, Nikon and many others.
- Remeshing tool enables fast, accurate retriangulation of polygon models for cleaner, more usable 3D models for Digital Content Creation (DCC) and 3D printing.
- New ‘Patch’ command delivers superior power for quickly and accurately repairing polygon models.
- Integration with SpaceClaim for direct modeling interactions and designs.

WHAT’S NEXT?

VISIT GEOMAGIC.COM FOR:

- Detailed Feature Sets
- Demo Videos
- Case Studies
- Sample Data
- Free 30-day Trial

USE YOUR MOBILE DEVICE TO FIND OUT MORE
From artists, archeologists, designers to movie-makers, people from every walk of life are creating perfect 3D models from physical objects using Geomagic Wrap.

**BENEFITS OF GEOMAGIC WRAP**

Intelligent, automated and flexible, Geomagic Wrap delivers the best experience and the highest quality 3D data from scan data for high accuracy and productivity.

Supports and exports to all standard 3D formats to enable rapid reuse of high quality 3D in design, visualization, prototyping, archival and other uses.

Offers the best customer experience for ongoing support, comprehensive learning resources and services created and supported by the industry-leader in 3D imaging. Geomagic offers high-end technical support in multiple languages, comprehensive online tutorials and Knowledge Base, world-class training and the ability to easily upgrade to Geomagic Studio for advanced NURBS surfacing and CAD integration.

**LANGUAGES SUPPORTED**

- English
- German
- Chinese (simple and traditional)
- Japanese
- Russian
- Italian
- Spanish
- Portuguese
- French
- Czech

**PRIMARY APPLICATIONS**

- Industrial Design
- Archaeology
- Archive
- Forensics
- Entertainment and Visual Effects

Very rapid 3D model creation for downstream uses such as 3D printing, archive and transfer into visual effects, rendering and other systems.

Images Courtesy of Craig Crane, and Plant Engineering & Geomatic
TOP NEW FEATURES IN GEOMAGIC WRAP 2012

- **New Sketch creation** directly from point clouds or polygon model to enable rapid product development.
- **New Scripting functions** enables more robust automation of repetitive actions and creation of custom commands.
- **Improved navigation and visualization**
- **Enhanced hard probing** enables accurate measurement and creation of features.
- **New Remeshing tool** enables fast, accurate retriangulation of polygon models.
- **New ‘Patch’ command** for accurately repairing 3D model data.

GEOMAGIC WRAP DELIVERS THE MOST EASY-TO-USE, AFFORDABLE, FAST AND ACCURATE PATH FROM POINT CLOUDS TO 3D POLYGONAL MODELS.

Delivering highly competitive pricing and features, Geomagic Wrap leads the market by providing intelligent processing of scan data into polygonal models, which can revolutionize the way digital design, entertainment, archival, analysis, prototyping, 3D printing and engineering are performed.

KEY FEATURES

- The industry’s fastest and most easy-to-use solution delivering automated, intelligent tools for visualizing and transforming point cloud data into usable 3D models.
- Export of high quality 3D data in all major neutral polygonal formats for immediate downstream use, with a new remeshing tool for fast, accurate retriangulation of polygon models imported into the software for immediate usability downstream.
- Sketch creation directly from point clouds and probe data enable rapid product development.
- Comprehensive support, technical help, training, and free trials of the Geomagic products.

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USE YOUR MOBILE DEVICE TO FIND OUT MORE

Roller Seal Image courtesy of USF AIST. Dragonfly image courtesy of Exact Metrology
WE KNOW WHAT IT TAKES
For 14 years, Geomagic has been delivering software products that are the industry’s easiest-to-use and most robust solutions for 3D imaging and inspection. The products deliver the highest quality 3D data which can be used in MCAD, design, visual effects, rapid prototyping, archeology, direct manufacturing operations and more. Geomagic’s 3D inspection tools lead the industry in accuracy, speed and precision.

HIGH QUALITY ENGINEERING
- Geomagic software products are certified by international bodies for accuracy
- Automated software functions allow users to quickly perform complex operations on point cloud and probe data
- Our products have been thoroughly tried, tested and proven by our partners, developers and customers across the years
- Committed to supporting customers’ engineering, design and manufacturing workflows

WORLDWIDE, ESTABLISHED OPERATION
- Key offices in USA, Europe and China
- Geomagic teams in 10 countries
- Hundreds of partners and resellers worldwide
- Thousands of customers in 62 countries worldwide

WORLD CLASS SUPPORT AND TRAINING
Comprehensive Support for all our software customers
- Free online Technical Support web sites, with Knowledge Base information in multiple languages, free tutorial videos, data, instructions and ‘how to’s’
- Telephone technical support in multiple languages (Maintenance customers only)
- Full access to software updates, downloads and plug-ins in all supported languages

World class training on Geomagic Products
- Training classes across the globe in multiple languages
- World class trainers with real-world engineering experience
- On-site classes and consulting

RELY ON GEOMAGIC

GEOMAGIC STUDIO AND QUALIFY BUNDLE
The Geomagic Studio and Qualify Bundle is the best choice for customers requiring powerful and comprehensive software for inspection, reverse engineering, product design, rapid prototyping and analysis workflows.

The Geomagic Studio and Geomagic Qualify Bundle contains two market-leading products: Geomagic Studio 2012 and Geomagic Qualify 2012. The two applications provide a consistent user experience, sharing the same user interface, many common commands and native file format compatibility. The Bundle price offers customers a significant savings over purchasing Geomagic Studio 2012 and Geomagic Qualify 2012 independently.

NOTE
Customers with a standalone license for either product may cross-grade to the full Bundle at a special price.