

Design



Capture Large Products in Short Time



Record Narrow Spaces



Easily Create Accurate 3-D Designs



FARO Design Package

Geomagic Studio

As the first solution for automated reverse engineering, Geomagic Studio is ideal for emerging applications, such as the mass production of customized devices, built-to-order manufacturing, and automatic re-creation of legacy parts. Rapid processing of scan data using Geomagic Wrap brings automation, speed and accuracy to the process of converting point clouds to polygons. Geomagic Shape automatically converts complex polygon models to accurate, high-quality NURBS surfaces for CAD/CAM applications.

Features

- ▶ Watertight NURBS model
- ▶ Productivity increases ten-fold over traditional CAD software when processing complex or free-form shapes
- ▶ Automated features and simplified workflow improves efficiency
- ▶ Integration with all major CAD/CAM software
- ▶ Ability to work as a stand-alone application for rapid prototyping or as a complement to CAD software

Import

Geomagic Studio supports all 3-D digitizers, cameras, and scanners in XYZ / ASCII format and handles ordered and unordered surface and volume data.

Native Scan Data Formats

- FLS - FARO Laser Scanner
- 3PI - ShapeGrabber
- AC - Steinbichler
- ASC - Generic ASCII
- BIN, SWL - Perceptron
- BRE - Breuckmann
- CAM, CDK, VVD - Minolta
- COP - Pulsetech
- CWK - Kreon
- DPI - Dimensional Photonics
- G3D, SURF - GOM
- GPD - Geomagic
- GTI - Genex
- HYM - Hymarc
- ICV - Solutionix
- MET, MTN - Metron
- NET - InSpeck
- OPT - Open Technologies
- PIX - Roland
- PMJ/X - 3D Digital
- SAB2 - 3D Scanners
- SCN, MGP - Laser Design
- XYZ - Opton
- XYZN - Cognitens

Polygon Import/Export

- 3DS
- DXF
- IGS
- LWO
- NAS
- OBJ
- PLY
- STL
- VRML
- WRP

Graphic Views

- IGES
- STEP
- 203/214
- Neutral VDA
- SAT Pro/E
- PRT*
- Parasolid .x_t* and .x_b*
* import only

System Requirements - Geomagic Studio

- Microsoft Windows XP; Windows 2000
- CPU - Pentium® 4 (1GHz or better)
Dual processors recommended for greater performance
- Memory - 1GB minimum/ 2GB recommended
- Disk Space - 10GB or more
- Display - 1280 x 1024 resolution, 24-bit color or above
Open GL 1.1 compliance
- Tested Cards - Intergraph Wildcat series, Fire GL 1/2,
Nvidia Quadro/GeForce

System Requirements - Laser Scanner LS

- Microsoft Windows XP (Professional or Home Edition, SP1 or later);
Windows 2000 (SP2 or later); Windows NT 4.0 (SP6)
- 1 GHz processor (2.5 GHz recommended)
- 1 GB RAM (2 GB recommended)
- Mouse with 2 buttons and wheel
- Graphics Card with 32MB & OpenGL hardware acceleration
- Ethernet card for licensing

ISO 9001

BUREAU VERITAS
Certification



GSA Contract Holder

LABORATORY
ACCREDITATION
BUREAU

ISO-17025 : 2005
ACCREDITED
Certificate # L1147