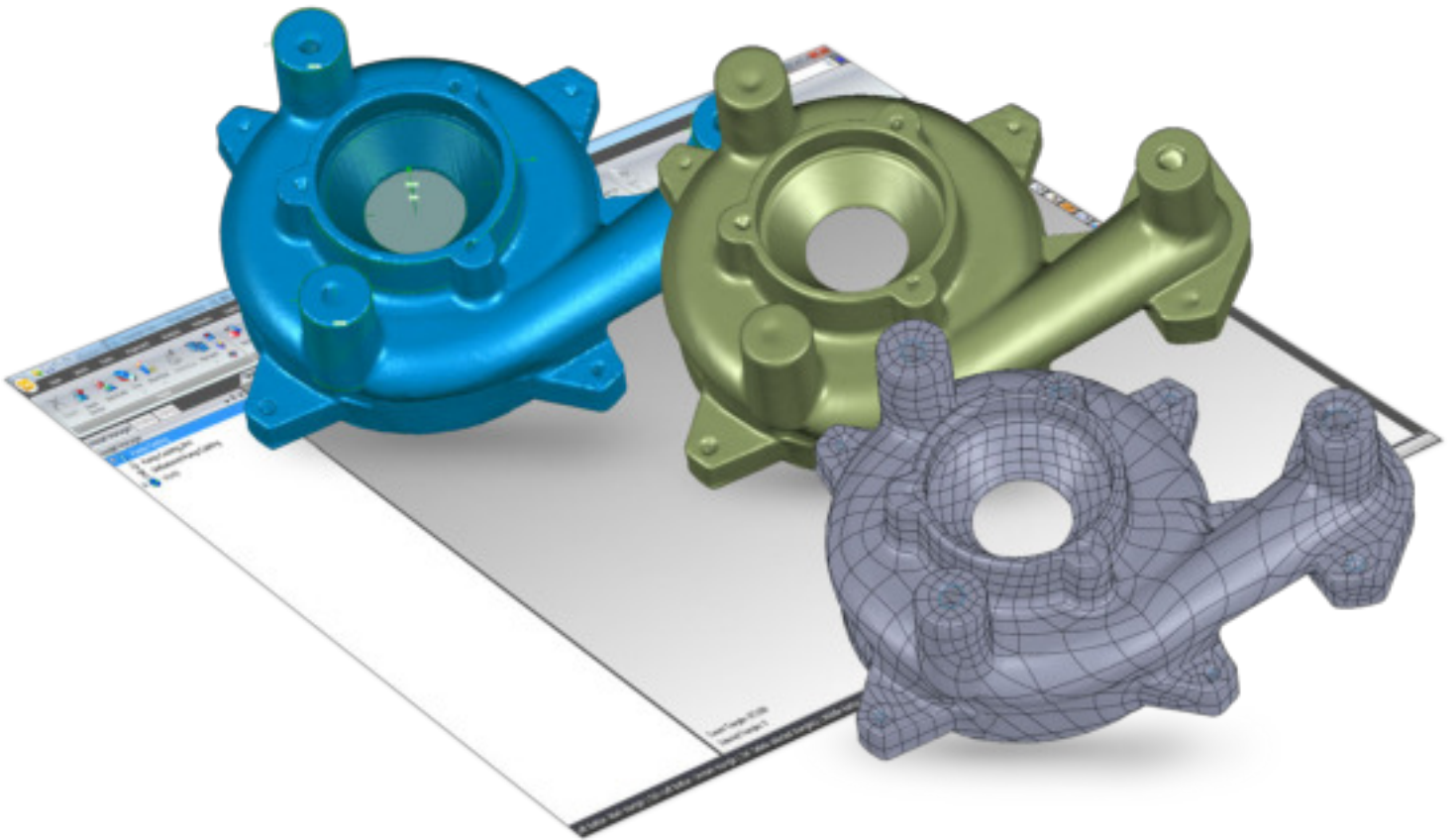


The Essential Bridge Between 3D Scanning and Design

Geomagic Essentials is the simple lightweight solution to move the 3D scanning world to the familiar CAD environment. Take any scan model, extract the feature you want, and create solid models and complex profiles to bring into your design environment.



Scan It

Capture real-world data using scanners

- Make 3D scan data useful in the design environment
- Increase the over-all value of 3D scanner and industry standard software

Process It

Make surfaces from captured data

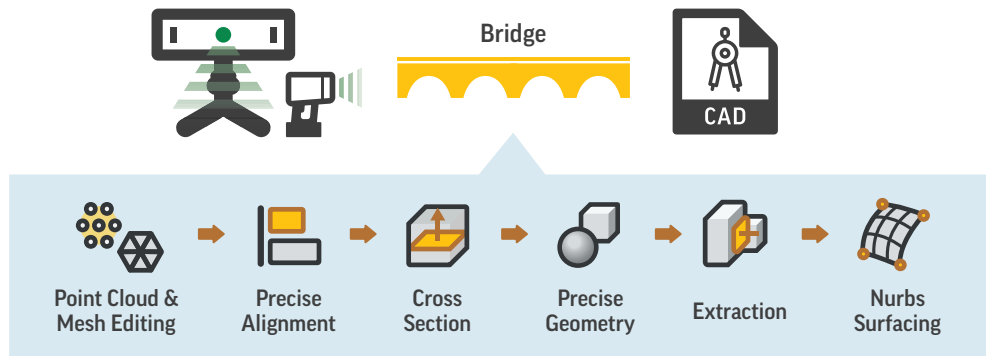
- Simple tools to extract and generate shapes
- Easily edit scan shapes directly without going to CAD

Model It

Transfer 3D model to CAD

- Accurately build 3D models
- Refine the model for direct .stl ready processes

Bridge the Gap with Geomagic Essentials



Scan Processing



Point Cloud & Mesh Editing

- Directly edit and manipulate Scan data
- High quality hole filling for water tight mesh models
- Manage file size through decimation for faster processing
- Refine the model for direct .stl ready processes



Precise Alignment

- Manage multiple scan sessions to easily complete complex projects
- Easily translate the scan to logical CAD orientation
- Edit scan shapes directly with other scans without going to CAD; Making Negatives, Removing Fixtures

Feature Extraction & Modeling



Cross Section / Precise Geometry / Extraction

- Extract CAD perfect Shapes from the Scan data
- Compare design features to reference Scan data for accuracy analysis
- Control extents and constraints on modeling features
- Easily create curve or line-arc cross section for direct CAD usability



Nurbs Surfacing

- Draw and trace complex features to generate curves for reference and modeling aids
- Convert to a solid format to interact with as-is geometry
- Import all geometry into the Native CAD package for a familiar modeling environment

Features:



- Scan-native application (performance, efficiency)
- High Quality Automatic CAD Conversion
- Automatic Mesh Healing
- Industry standard Mesh processing and refinement
- Extensive Select & Feature Fit workflows
- Region Detection
- Feature Extraction
- Cross Sectioning (curves & sketch-like results)

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