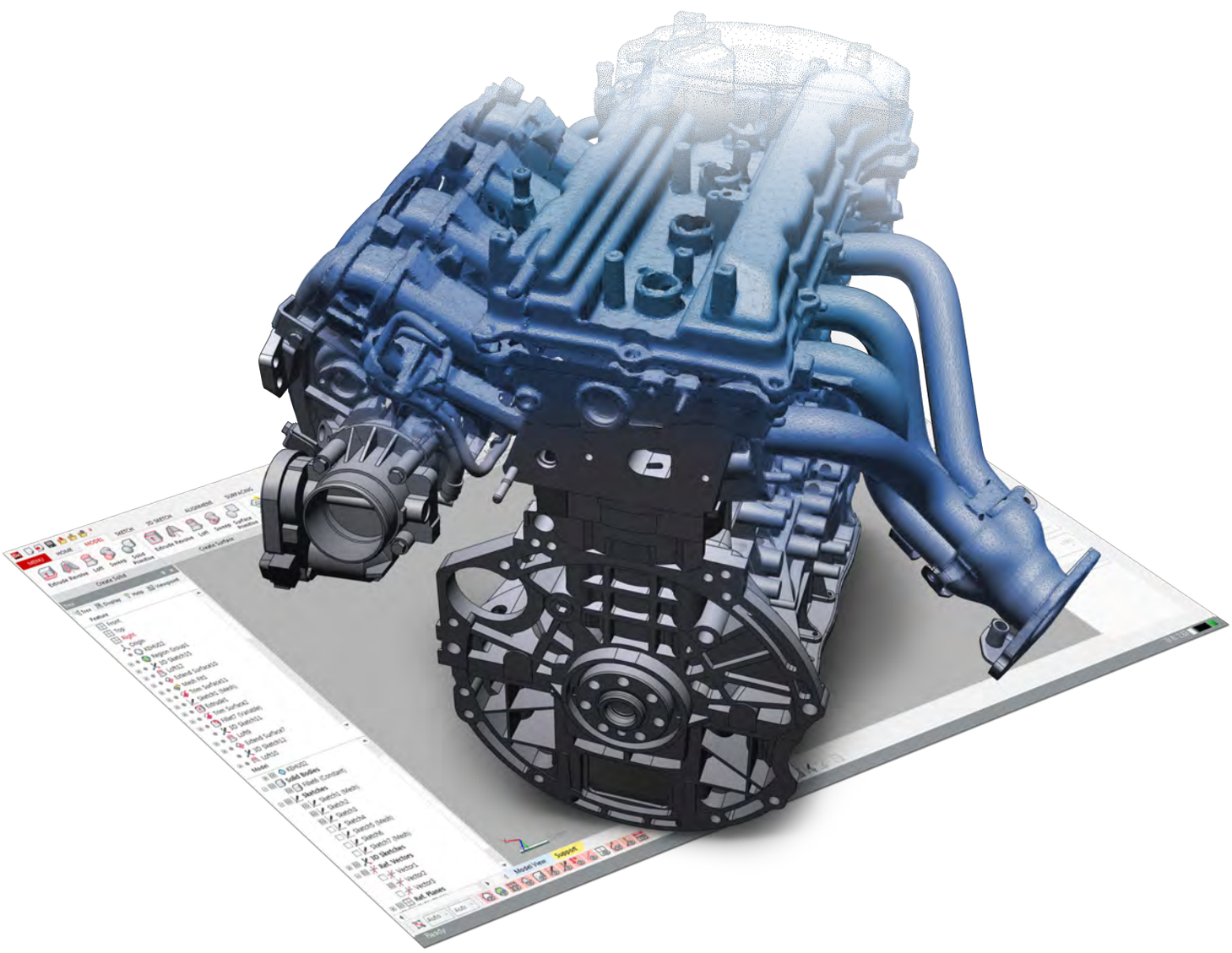
Geomagic Design X Essentials

Accurate and Accessible Scan-to-CAD workflows



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Geomagic Design X Essentials

Geomagic Design X Essentials brings the industry's most comprehensive reverse engineering software to more people. By reducing the barrier to entry for accurate and efficient history-based CAD and 3D scan data processing, Design X Essentials empowers users with limited budgets to create feature-based, editable solid models with their affordable scanners.

Broaden Your Design Capabilities

Instead of starting from a blank screen, start from data created by the real world. Geomagic Design X Essentials is the easiest way to utilise your affordable scanner, to create editable, feature-based CAD models and integrate them into your existing engineering design workflow.

Accelerate Time to Market

Shave days or weeks from product idea to finished design. Scan prototypes, existing parts, tooling or related objects, and create designs in a fraction of the time it would take to manually measure and create CAD models from scratch.

Leverage Existing Assets

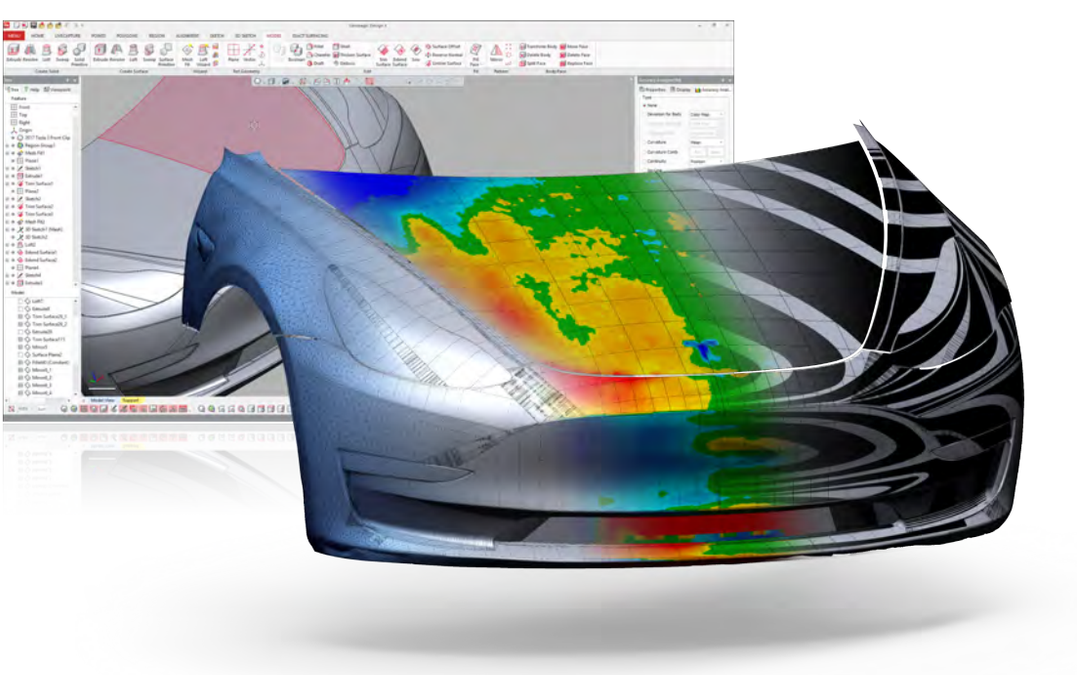
Many designs are inspired by another. Learn from it. Reuse it. Improve on it. Easily rebuild your existing parts into current CAD data, create drawings and production designs.

Do the Impossible

Create products that cannot be designed without reverse engineering, customized parts that require a perfect fit with the human body. Create components that integrate perfectly with existing products. Recreate complex geometry that cannot be measured any other way.

Reduce Costs

Save significant money and time across your reverse engineering workflow. Use the industry's most comprehensive software at an affordable price to accurately achieve yoiur desired CAD designs.



The Fastest Path from 3D Scans to Your CAD Software

Powerful and Flexible

Geomagic Design X Essentials is purpose-built for converting 3D scan data into high-quality feature-based CAD models. It does what no other software can with its combination of solid modeling tools, incredibly accurate surface fitting to organic 3D scans and mesh editing.

Create completely manufacturing-ready designs after scanning virtually anything.

Affordable and Accessible

By lowering the barrier to entry for the industry's leading 3D Scanning toolset, Geomagic Design X Essentials enables you to fully utilise your Entry-Level scanner for Reverse Engineering workflows, at an affordable price point.

Capabilities for Demanding Projects

Geomagic Design X Essential's extensive toolset combines CAD tools, industry-leading scan processing tools, and the firepower you need to take on challenging projects.

It handles billions of scan points and has a host of features to fix data issues, letting you skip scan cleanup and begin creating CAD models immediately.

Works Like Your CAD Software

If you can design in CAD, you can start using Geomagic Design X Essentials right away. It's fully-renewed user interface and workflow tools make it easer than ever before to quickly and accurately create as-designed and as-built 3D CAD and model data.

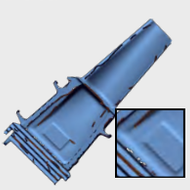
Parametric solid model created in Geomagic Design X Essentials

Workflow

Mesh

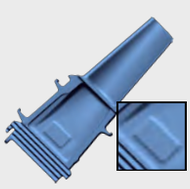
· File Import

Process Mesh Data



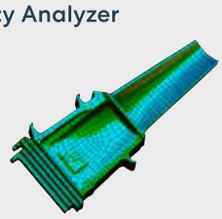
Water Tight Mesh

· Manufacture or Simulation

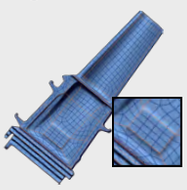


Feature Based CAD Model

Accuracy Analyzer

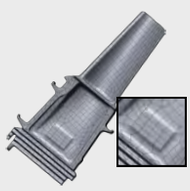


As Built Modeling and Surfacing



Conversion to Neutral CAD formats

· CAD system
· Manufacture or Simulation



Geomagic® Design X™ Essentials Features

- Supports import of over 50 formats including polygons and neutral CAD formats.
- Expertly handles large mesh data alignment, processing and refining, and mesh construction.
- Easy-to-use mesh repair tools deliver rapid hole filling, smoothing, remeshing, defeaturing, decimating and merging meshes.
- Rapidly creates solids or surfaces using 2D/3D sketching and modeling tools, just as you would in your CAD package.
- Automated Accuracy Analyzer tools compare and validate surfaces, solids and sketches against original scan data.
- Surface creation converts organic shapes to precise CAD models.
- Supports comprehensive export of neutral CAD or polygon files.

See just how easy it is to ensure quality everywhere with Geomagic Design X Essentials. Schedule a demo today.

Get In Touch

Contact us for a demo at hello@oqton.com

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