



PointShape™ Design

CGM Kernel "CATIA"

Based Reverse Engineering Software



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PointShape™ Design

Pointshape Design utilises Convergence Geometric Modeler, the same powerful modeling kernel used by CATIA. To meet your visualization needs, we have upgraded to incorporate the best in class graphics engine 'HOOPS Visualize'. PointShape Design can easily create parametric CAD models of practical real-world products and provide users with a familiar design process and user interface.

3D scan data reverse engineering

PointShape™ Design easily creates a CAD model through the scan data acquired with 3D scanner. Scan data processing tools quickly complete time-consuming data processing steps.

Full compatibility with CAD programs

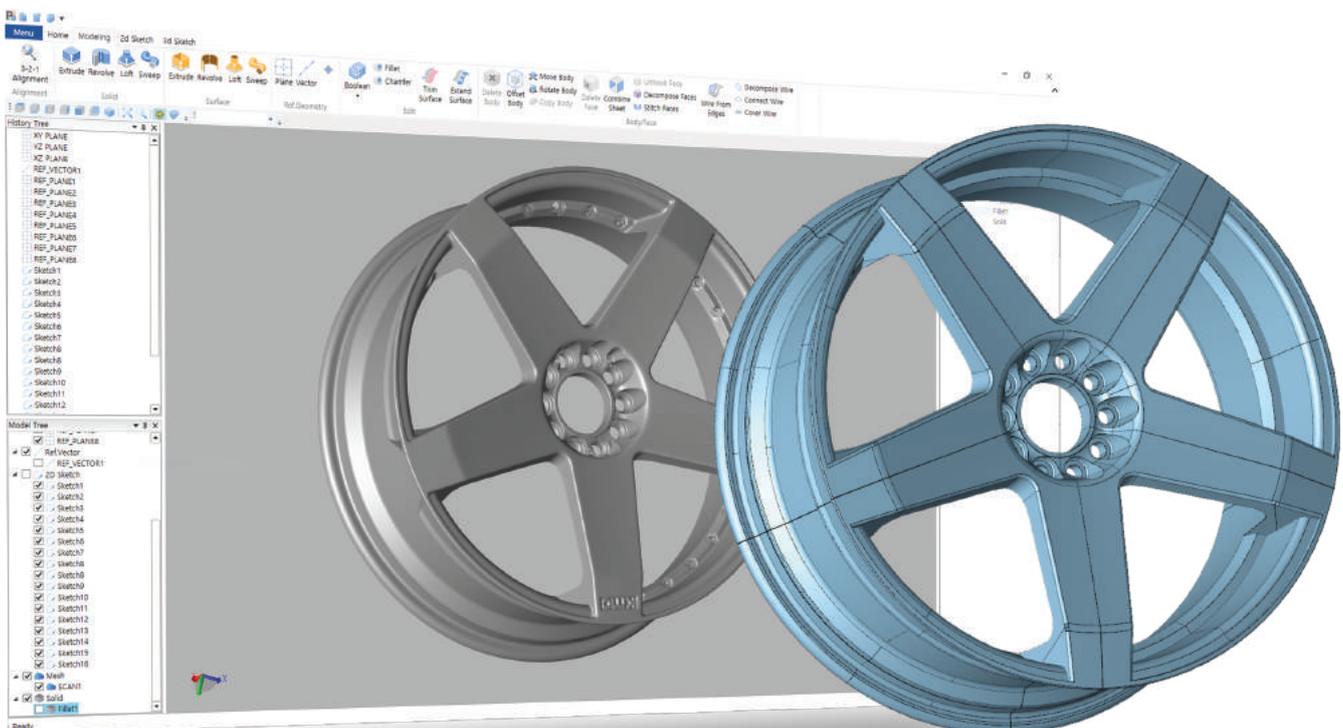
Developed based on the same Modeling kernel as CATIA. PointShape™ Design can reduce modeling work time through 3D scanning technology. The data designed by PointShape™ Design is perfectly compatible with all the CAD programs.

Differentiated software

PointShape™ Design is different from the existing software that simply reverse engineer only the product shape. It can create based on the raw design intent and process and design parameters of a product.

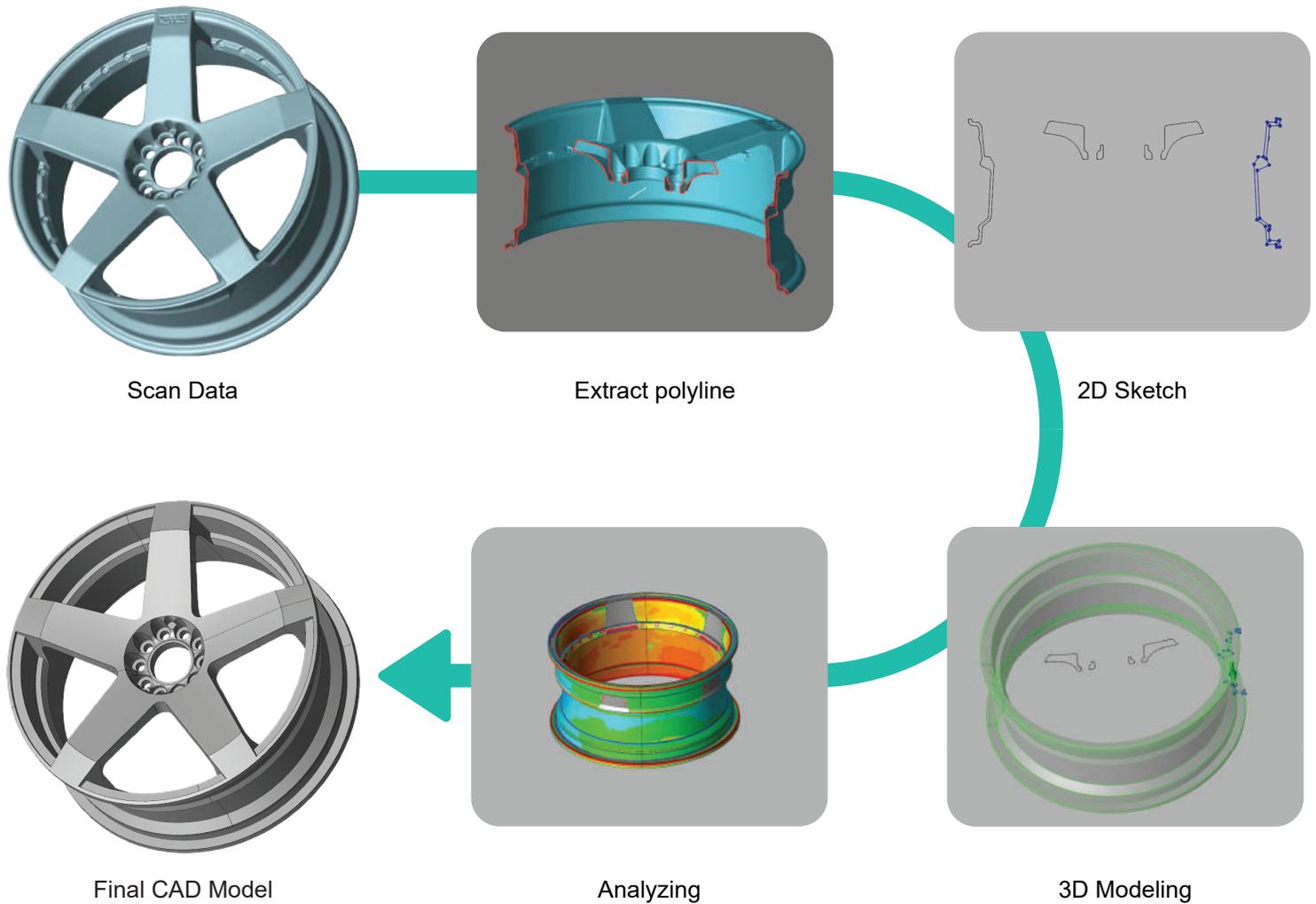
Various applications

It is effectively used in 3D printing, CNC machining, design analysis, and fields utilizing polygon mesh base. It is effectively utilized in various fields in advanced applications that require CAD data.



Reverse-engineered CAD model for Automotive Wheels by PointShape™ Design

Workflows



Easy to Learn

By importing 3D mesh data output from your 3D scanner, you can easily build CAD models without any special training.

All the tools you need for CAD modeling in one place can help you be more productive

Large Data Handling

To meet your visualization needs, we have upgraded to incorporate the best in class graphics engine 'HOOPS Visualize'. HOOPS Visualize facilitates large data handling to meet visualization requirements.

Simple Tools

PointShape™ design provides a basic set of tools for solving a wide range of reverse engineering applications, from basic to complex parts.

Analyzing Tool

The analyze deviations between 3D scan data and the final model in real time and validate the results to create an optimal 3D model within acceptable design tolerances.

Features

Importing

- Supports various file types including native CAD formats, polygon and point cloud data
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Point cloud & Polygon data Processing

- Easy to use point cloud processing tools provide alignment, merge, noise delete and noise filtering.
 - Easy to use polygon editing tools provide quick fill hole, smooth, decimate, subdivide, optimization and healing tools
 - Create optimized mesh for 3D printing by using Tessellation feature
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Editing

- Provides all necessary tools to convert the meshes into editable CAD models
 - Quickly surface & solid model editing capabilities including boolean, fillet, chamfer, trim surface, & extend surface.
 - Easy to handle large data by utilizing HOOPS Visualize
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Modeling

- 2D sketches along with creating standard relationships and constraints including line, point, circle, rectangle, ellipse, spline & slot.
 - Quickly creates solids or surfaces including Sweep, Extrude, Revolve and Loft
 - Quickly creates reference geometry including plane, vector and point
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Analyzing Tool

- The analyze deviation between 3D scan data and final model in real time and validate the result
- To create the best results of an optimal 3D model from 3D scan data within design tolerances
- To check if the final model was made without any problems. [2D sketch, 3D mesh data deviation]
- The analyzing tool can be used at any time during the modeling process if results analysis is required.



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