mesh2surface

for 3S SOLIDWORKS®

The bridge between 3D scanning
and manufacturing!

www.mesh2surface.com

What is Mesh2Surface for SOLIDWORKS®?

Mesh2Surface is a reverse engineering add-in for **SOLIDWORKS** that lets you convert 3D scan meshes into CAD models. It provides efficient tools to generate surfaces and curves to help reconstructing a professional CAD model.

Mesh2Surface allows the user to:

- Import large scan data effectively in **SOLIDWORKS** in seconds, not minutes;
- Extract reference geometries, including symmetry plane;
- Align intuitively in the right position in space, to existing cad model or multiple scans;
- Create reference cross sections for sketching - parallel, rotational and outline;
- Fit precisely line arcs and complex shapes to reference section points
- Approximate free form surfaces with best fit surface;
- Reverse engineering organic and free form shapes in most accurate way;
- Compare the CAD models against the reference data instantly with 3D colour map;
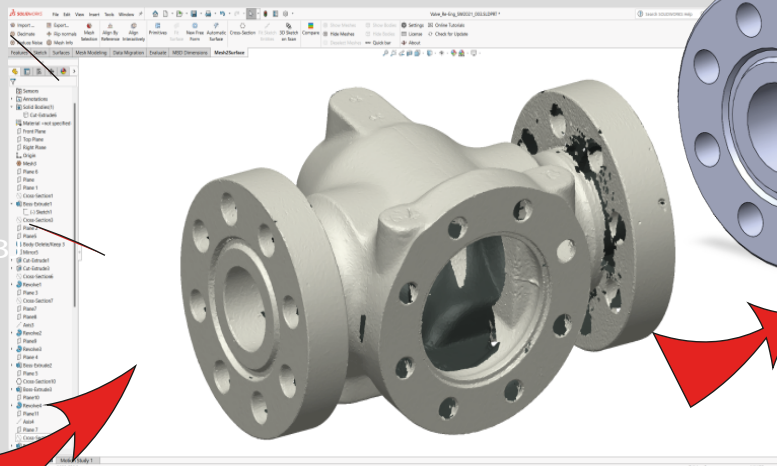- Convert free form organic shapes just with the hit of a button;

And do all this in your favourite CAD package - SOLIDWORKS;.
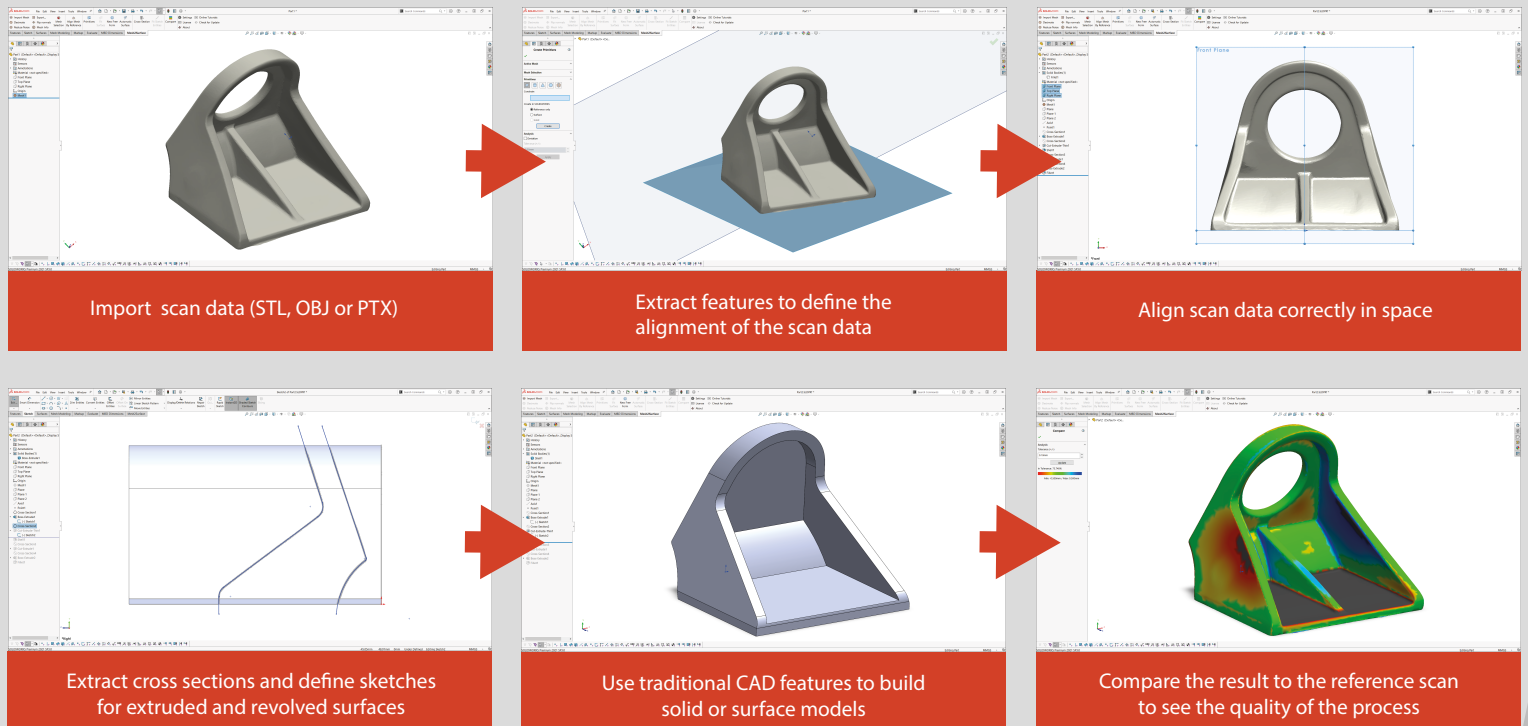
STL

OBJ

PTX

DS SOLIDWORKS

Save more than **50%** on time and efforts over any other approach of doing reverse engineering in **SOLIDWORKS®** by using **Mesh2Surface** add-in.
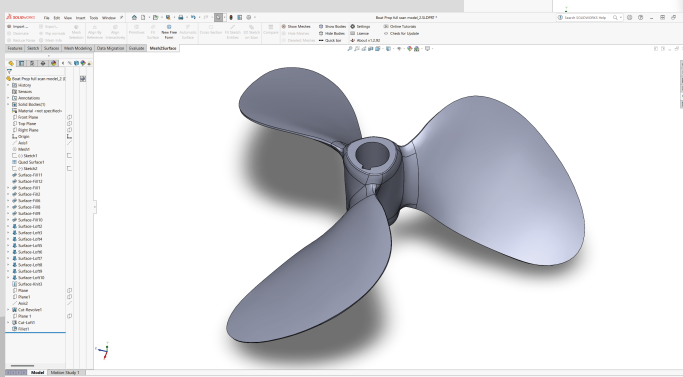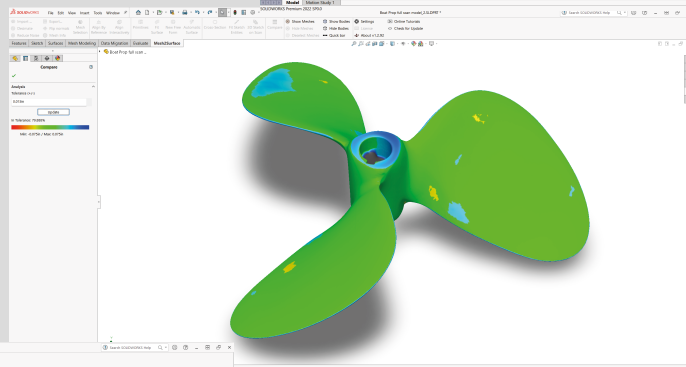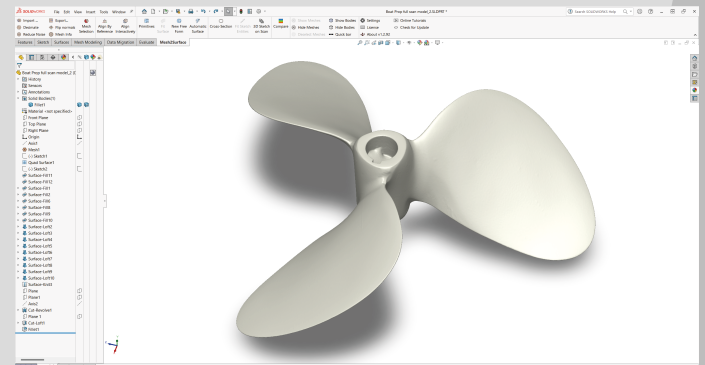
Reverse engineering workflow

Import scan data (STL, OBJ or PTX)

Extract features to define the alignment of the scan data

Align scan data correctly in space

Extract cross sections and define sketches for extruded and revolved surfaces

Use traditional CAD features to build solid or surface models

Compare the result to the reference scan to see the quality of the process

Do it all in **SOLIDWORKS®** environment with simple and easy to use tools of **Mesh2Surface** add-in

Features

- Import scan data as STL, OBJ, PLY or PTX file format
- Mesh simplification and smoothing
- Primitives extraction, including symmetry plane
- Alignment in space or to CAD model
- Cross sections
- 2D shapes recognition
- 3D sketching with toleranced control
- Fit surface
- Deviation analyser
- Free form and hybrid modelling
- Snap to mesh technology
- Automatic surfacing

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for ƎS SOLIDWORKS®

Powerful Reverse Engineering
in SOLIDWORKS®

- Edit and repair CAD data for broken tools and molds
- Use existing assets to reverse engineer new parts
- Transform physical parts into CAD for new designs
- Create new parts to fit with existing parts
- Export remodelled data for 3D printing
- Speed up your time for manufacturing
- Prepare models for manufacturing
- Simplify models for simulation
- Increase design capabilities
- Design bespoke products
- Reduce costs for design
- Packaging Design

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