



## VXmodel™

### SCAN-TO-CAD SOFTWARE MODULE

The simplest path from 3D scans to your computer-aided design or additive manufacturing workflow

Integrated into VXelements, VXmodel™ is post-treatment software module designed to optimize meshes and prepare 3D scans for 3D printing. VXmodel also enables designers and engineers to finalize 3D scan data and use it in their reverse engineering and product development workflows.

With a fast processing time that promptly optimizes the mesh and extracts all needed geometrical information, designers and engineers can quickly go back to the CAD workflow they already know.

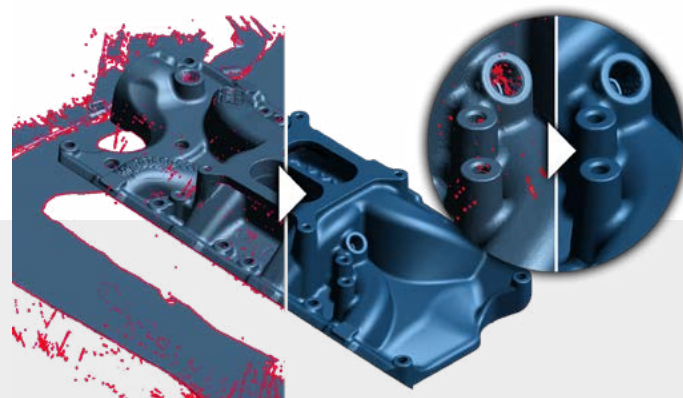
Satisfied with its performance and complete toolset, thousands of users have already endorsed VXmodel, selecting it as their favorite complement to CAD software.

VXmodel is an ingenious assistant, helping you throughout your product development cycle. Thanks to its intuitiveness and efficiency, VXmodel enables you to accelerate your product development process and, thereby, your time-to-market.

#### APPLICATIONS

##### MESH OPTIMIZATION + 3D PRINTING

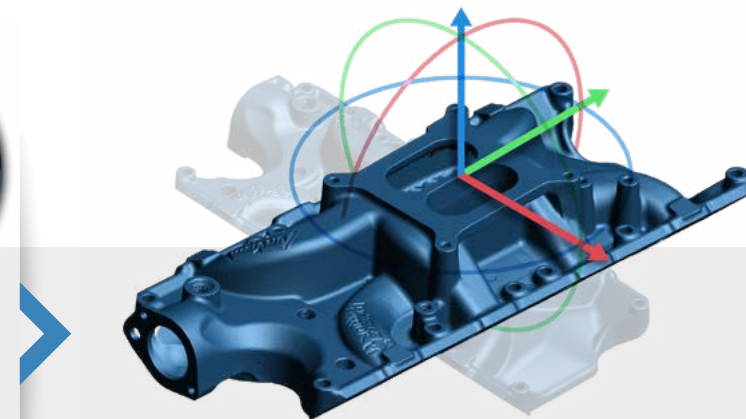
With its powerful preparation and improvement tools, VXmodel enables users to quickly edit the mesh and align 3D scan data. Once the 3D scan has been improved and cleaned, a useable and optimized mesh is ready for 3D printing or any other application.



#### STEP 1 EDIT MESH

VXmodel provides simple, yet efficient tools to prepare the 3D scan mesh for reverse engineering or 3D printing.

- Clean mesh
- Fill holes
- Merge meshes
- Decimate mesh
- Make mesh watertight



#### STEP 2 ALIGN

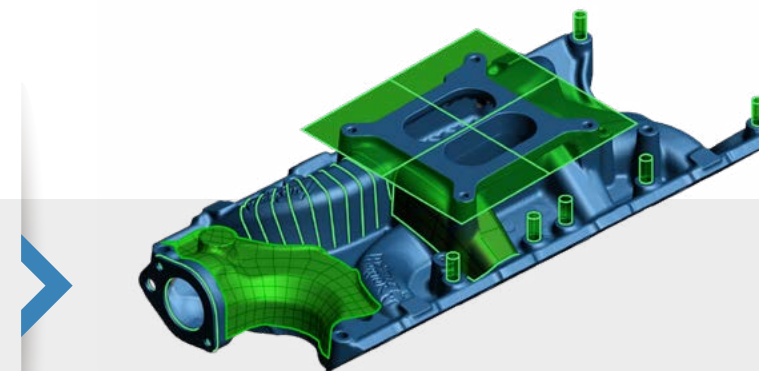
3D scans must be aligned to the coordinate system before exporting, which is a simple but crucial finalization step. The VXmodel alignment tool is highly flexible and straightforward.

- Entity-based alignment
- Best fit alignment

#### APPLICATIONS

##### PRODUCT DEVELOPMENT + REVERSE ENGINEERING

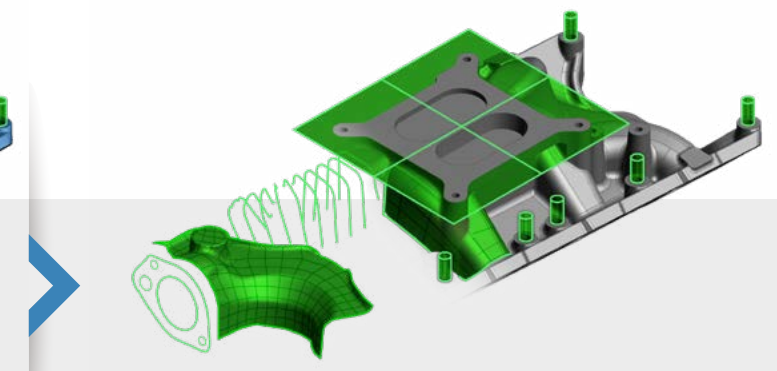
VXmodel only provides the needed tools and features to integrate 3D scan data into your favorite CAD software, where all design and modeling capabilities are already available. With its intuitive functions, you can easily extract the required information from the mesh and transfer it to the CAD platform in order to generate the CAD entities for your 3D modeling.



#### STEP 3 EXTRACT ENTITIES

VXmodel enables users to easily generate NURBS surfaces for characterizing freeform regions. Geometric entities can be easily extracted from the mesh to complete the design in any CAD software.

- Auto surface
- Manual surface
- 2D/3D entities
- Curves
- Cross-sections



#### STEP 4 TRANSFER TO CAD

VXmodel allows users to export 3D data to any CAD platform using standard formats (.iges, .setp, .dxf). With a simple right-click, geometric entities can be transferred directly to the following CAD software:

- SOLIDWORKS
- Autodesk Inventor
- Solid Edge

## What can VXmodel offer you?

### INTUITIVE INTERFACE

Thanks to VXmodel's intuitive interface, users who value simplicity and speed can navigate the software with ease and confidence and without previous learning.

### COMPLETE TOOLBOX

With advanced design and modeling capabilities already included in CAD software, VXmodel offers all the complementary tools and features for mesh optimization and seamless integration into scan-based design and reverse engineering processes.

### WORKFLOW INTEGRATION

VXmodel provides the fastest shortcut to bridge 3D scanning and CAD modeling workflows, giving designers the opportunity to return to their favorite CAD software quickly.