VXmodel™

SCAN-TO-CAD
SOFTWARE MODULE

VXmodel is a post-treatment software that directly integrates into VXelements, Creaform's 3D software platform and application suite, and allows the finalization of 3D scan data to use directly in any CAD or 3D printing software. VXmodel provides the simplest and fastest path from 3D scans to your computer-aided design or additive manufacturing workflow.
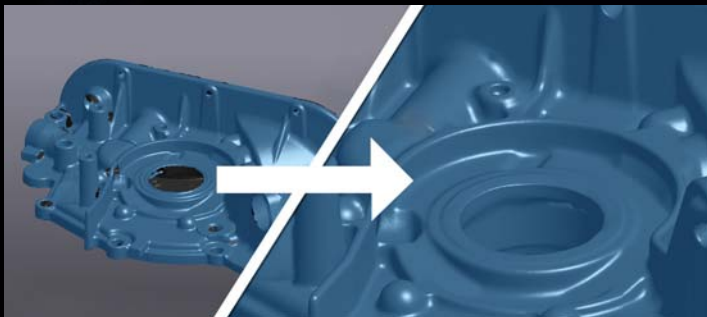
A great addition to the Creaform 3D scanners, VXmodel is simple but powerful, including only the features necessary to complement your CAD software. You already have all the design and modeling capabilities in your CAD software: VXmodel simply provides the tools you need for a quick and seamless integration into your scan-based design process.

FEATURES AND BENEFITS

Since it is fully integrated into VXelements, VXmodel can directly build on its automatically generated mesh. It presents the functionalities you need to finalize your file fast and bring it to your CAD workflow.
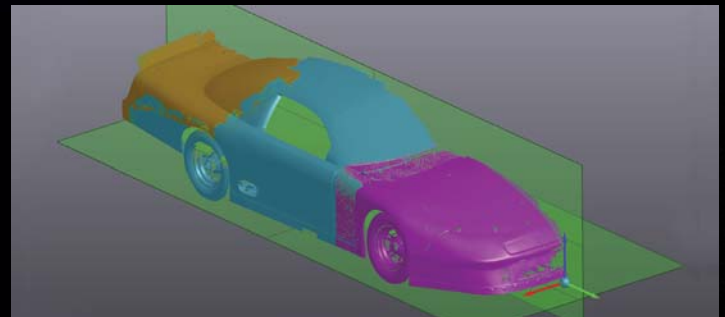
MESH EDITING

VXmodel offers simple, yet powerful, tools required to prepare the 3D scan mesh for reverse engineering or 3D printing.

Available tools: Fill holes | Heal mesh | Decimate/Refine mesh | Smooth mesh | Defeature | Smooth/extrude boundary | Scale mesh | Shell/Offset mesh | Make mesh watertight | Divide/Cut mesh | Combine meshes | And more!
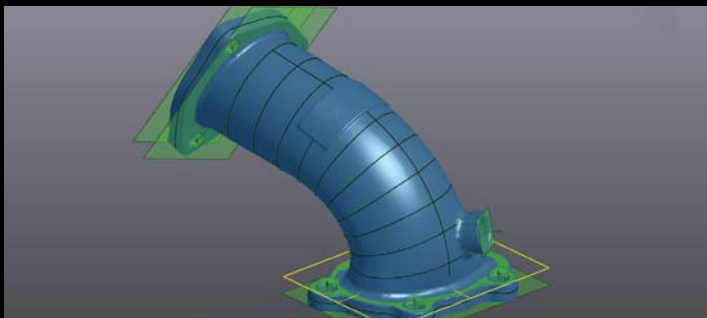
ALIGNMENT

VXmodel features highly flexible tools required to align a 3D file to the coordinate systems using datum/entities suited your design requirements. VXmodel also enables users to align meshes together or a mesh on a CAD model.

Available tools: Align to origin | Best fit | And more!
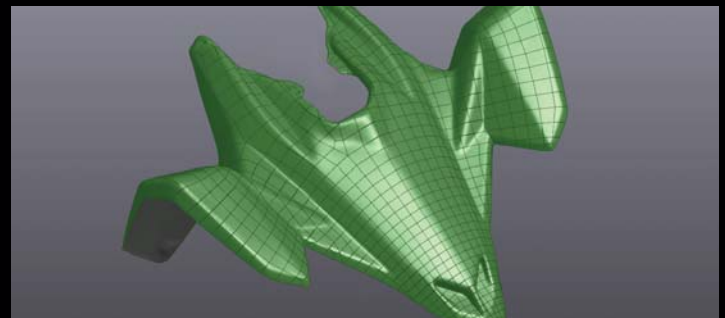
GEOMETRICAL ENTITIES & CROSS-SECTIONS

Use a 3D scan as a reference for a design by extracting all the useful information from the mesh. Segment the mesh into all of the primitive entities required to complete the design in a CAD software with VXmodel's highly flexible and user-friendly interface.

Available tools: Cross-sections | Curves | Polylines | Planes | Circles | Cylinders | And more!
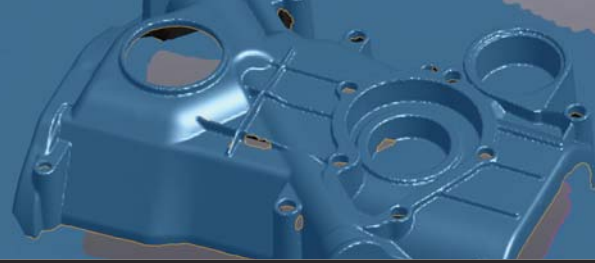
NURBS SURFACE

VXmodel enables you to easily generate NURBS surfaces for characterizing freeform surfaces for later use in your CAD software. With its powerful algorithm and intuitive interface, the auto surface function generates high-quality NURBS surfaces and a well-organized patch network.
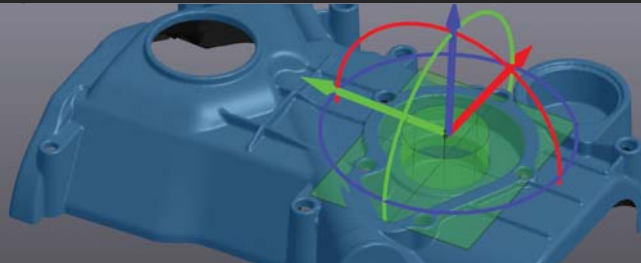
Available tools: Auto surface | Single patch

SIMPLIFIED SCAN-TO-CAD
WORKFLOW WITH VXMODEL

VXmodel fully integrates with Creaform 3D scanners, while providing only what you need and nothing more: the simplest and fastest path from your 3D scans to your CAD or additive manufacturing workflow!
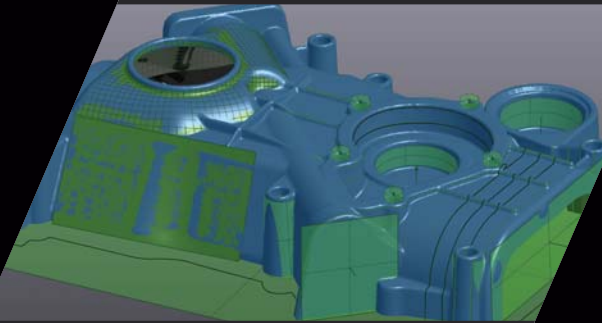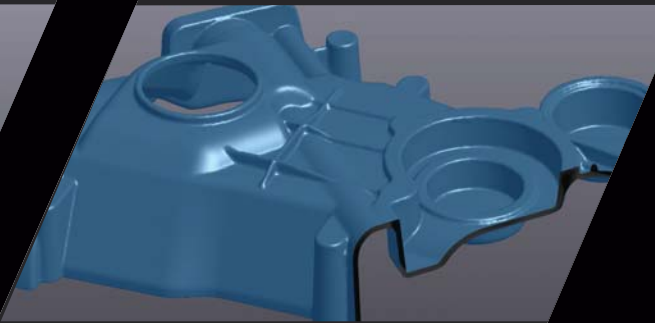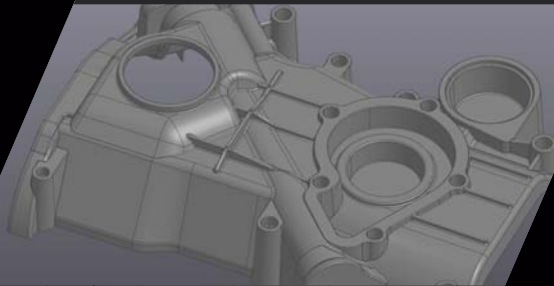
SCAN DATA

CLEAN-UP AND ALIGNMENT

NURBS, CROSS-SECTIONS AND GEOMETRICAL ENTITIES

MESH EDITING

CAD RECONSTRUCTION

3D PRINTING

CAD-TO-3D PRINT

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