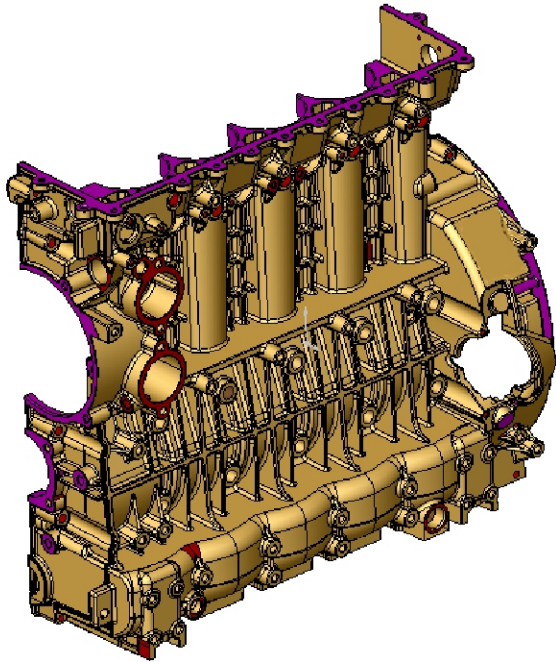


FORMATWORKS

CAD Translator and Repair Add-in for SolidWorks 2006

Proven Technology for Translating and Working with imported Data in SolidWorks™

FormatWorks extends the SolidWorks data translation capability to support native CATIA V4 and V5 data as well as other formats. The technology used in FormatWorks is based on proprietary algorithms developed by Capvidia for the automotive industry to provide automatic, accurate and reliable translation into and out of SolidWorks. FormatWorks simplifies the import process to SolidWorks. Automatic repair and healing ensures that foreign geometries meet the criteria set by SolidWorks to form valid solids. This repair is always performed within the model tolerance while maintaining original model integrity and preventing model deformation.



Translated model into SolidWorks. Solid formed from original 15815 surfaces.

Data Import & Export

FormatWorks solves frustrating data incompatibility problems occurring during the import of 3D models into SolidWorks. It seamlessly imports native data formats and performs necessary repairs to form a valid model in SolidWorks.

Format	Import	Export
CATIAV5	+	+
CATIAV4	+	+
ProE	+	-
Unigraphics	+	-
CAADS	+	-
IGES	+	+
STEP	+	+
ACIS	+	+
VDA-FS	+	+

Automatic Repair

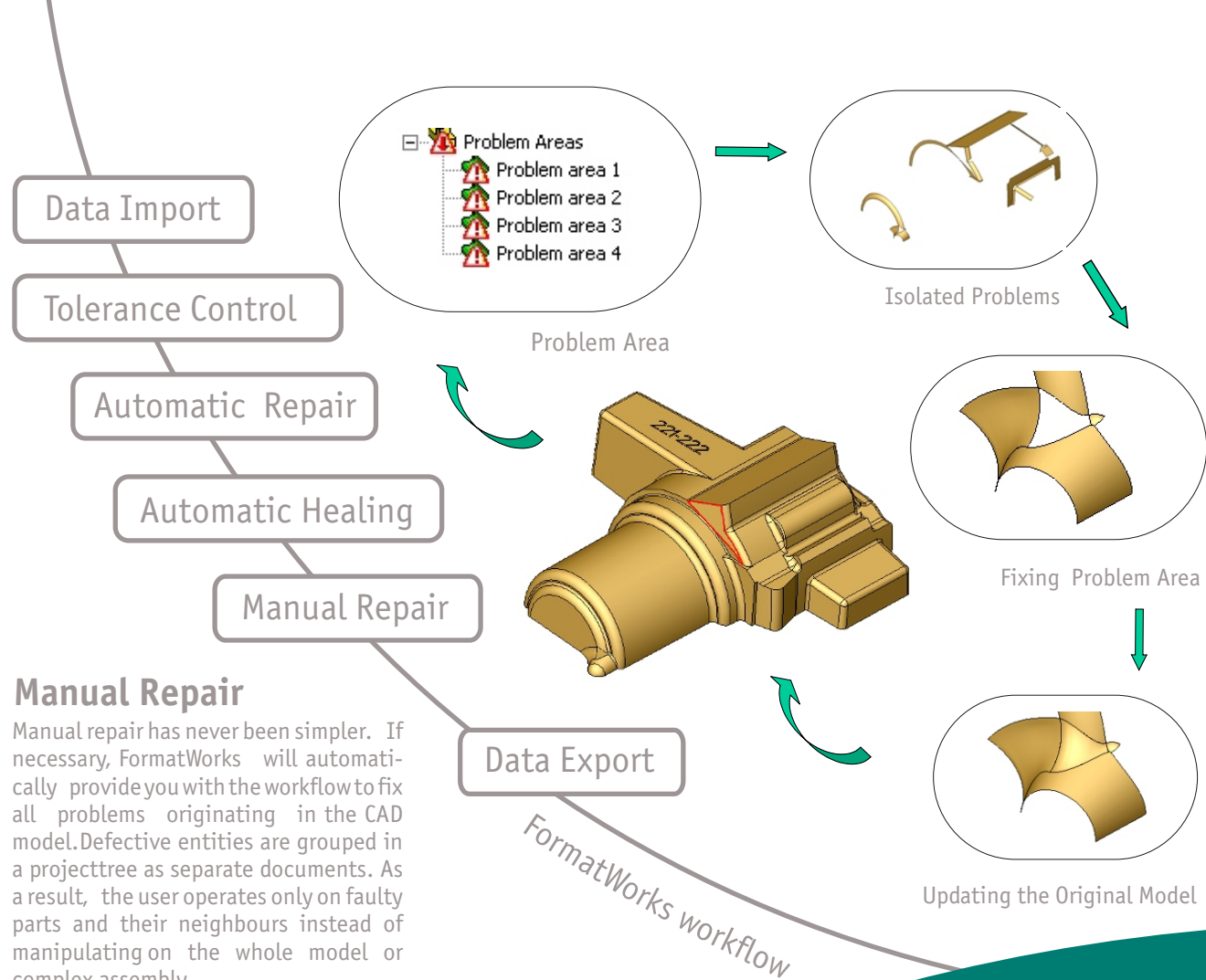
The automatic repair includes identification and repair of over 60 typical data translation errors. FormatWorks repairs both geometry and topology using specialized sewing algorithms. Entities preventing the model to form a watertight solid are automatically detected. The automatic repairs are controlled and always performed within the original model tolerance, which prevents model deformation.

Feature Recognition

Automatic feature detection from NURBS to:

- Cylinder
- Cone
- Plane
- Torus
- Sphere
- Surface creation
- Surface recreation
- Surface merging
- Surface trimming
- Surface splitting

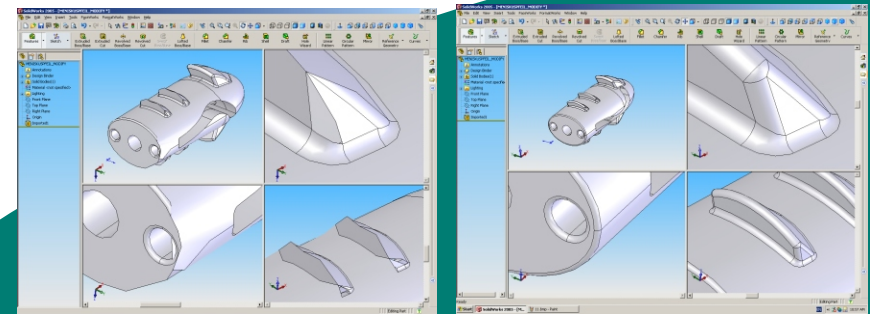
FormatWorks saves engineering time and brings you maximum benefit from your SolidWorks investment.



Manual Repair

Manual repair has never been simpler. If necessary, FormatWorks will automatically provide you with the workflow to fix all problems originating in the CAD model. Defective entities are grouped in a project tree as separate documents. As a result, the user operates only on faulty parts and their neighbours instead of manipulating on the whole model or complex assembly.

FormatWorks provides proprietary functions to resolve geometric and topological problems. All manual repair operations are intuitive and easy to use since they are completely integrated into SolidWorks. FormatWorks includes special surfacing tools making the manual repair operations easy and fast. The surfacing tools give the user possibility to:



Direct import into SolidWorks

Import over FormatWorks



capvidia™

Capvidia Headquarters Phone: +32 (16) 40 27 47
 Research Park Haasrode Fax: +32 (16) 40 32 71
 Technologielaan 3 E-mail: info@capvidia.be
 B-3001 Leuven www.capvidia.com
 BELGIUM