Simplification of Large MCAD Equipment Models for Plant and Process

CADfix PPS

Support

Import

Bundle:
- ACIS SAT
- DWG
- Parasolid
- STEP

Add-on options:
- CATIA
- Creo
- FBX
- Inventor
- JT Open
- NX
- OBJ
- SOLIDWORKS
- STL

Export

Bundle:
- ACIS SAT
- DWG
- Parasolid
- STEP

Add-on options:
- FBX
- JT Open
- OBJ
- STL
- VRML

The CADfix Plant and Process Simplification (PPS) solution automates the simplification of 3D mechanical CAD models of large equipment assemblies. Orders of magnitude in file size reduction can be achieved ahead of integration of the equipment models into 3D plant and process design systems.

Users of process engineering design systems can save days of non-productive geometry handling, increase efficiency and integrate MCAD models more rapidly by employing CADfix PPS automated simplification.

Plant designers with no MCAD modelling experience can quickly and easily:

- Remove unwanted small parts, including nuts, bolts and washers

- Remove unnecessary CAD features such as holes, fillets, logos and text

- Remove invisible internal parts

- Simplify complex parts to basic shapes, such as cylinders and bounding boxes
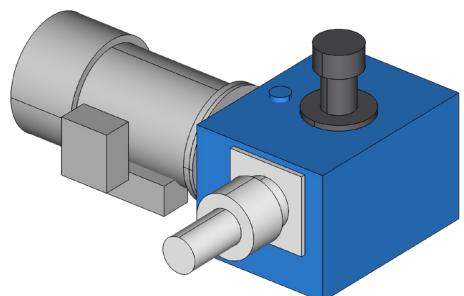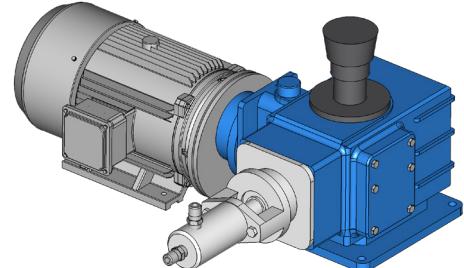
CADfix PPS enables companies to complete projects and get to commissioning faster, realizing commercial bonuses and increased profit margins.

CADfix PPS Benefits:

- Significantly reduce file size
- Eliminate import failures
- Avoid CAD rework
- Produce legible models
- Eliminate system hangs
- Reduce lead time
- Protect intellectual property
- Greater plant design system stability
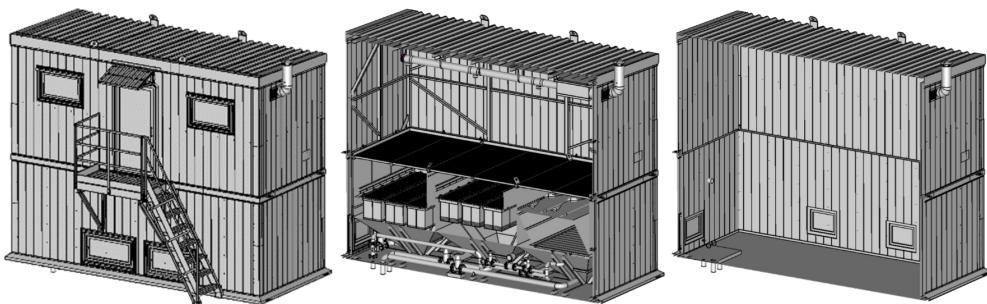
Automatic hidden internal detail removal offers significant data reductions.

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CADfix PPS

Benefits

- Intelligent MCAD model simplification

- File size reduction of up to 70%

- Fast integration of complex equipment assemblies

- Save time and get to commissioning faster

Skid assembly: *96% reduction in 20 minutes*

798MB STEP file
3,115 bodies & 140,916 faces
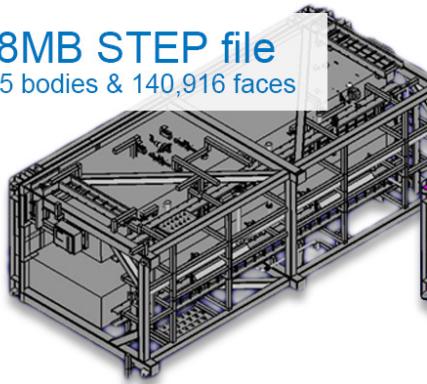
29MB STEP file
589 bodies & 8,471 faces
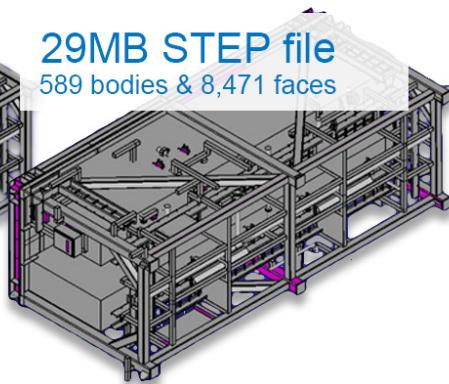
**Stair & floor assembly:** *93% reduction in 20 minutes*

72MB DWG file
26,000 faces

4MB DWG file
4,750 faces

Grated flooring replaced with simple rectangular prisms
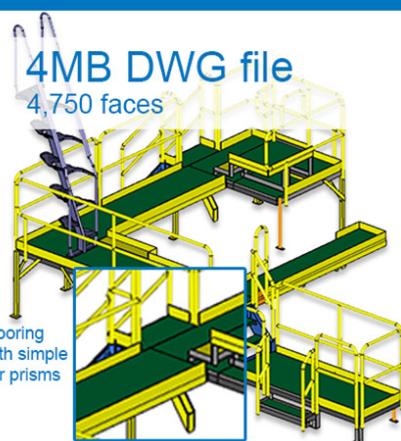
Equipment assembly: *90% reduction in 25 minutes*

37MB DWG file
61,000 faces
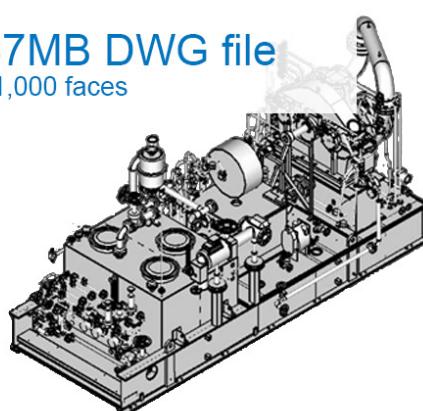
3.7MB DWG file
3,515 faces
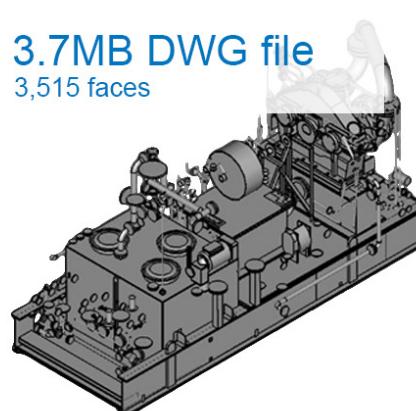
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