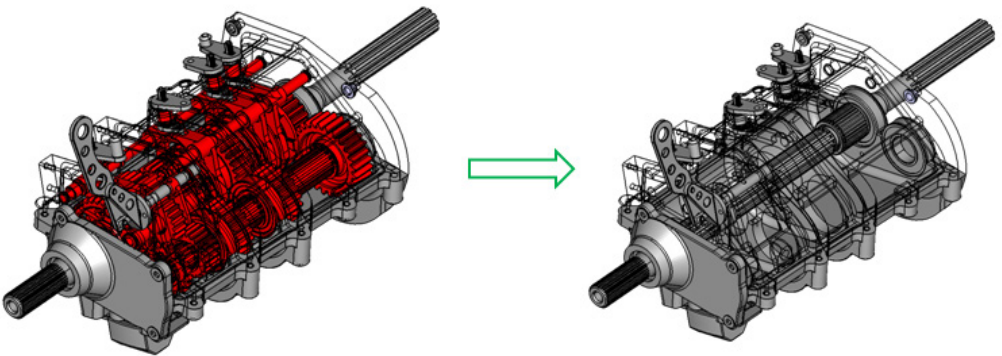
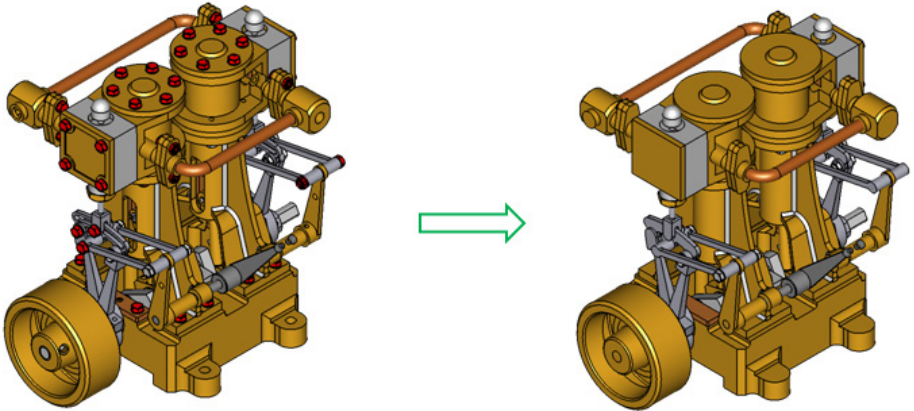


# CADISON® Equipment Simplifier

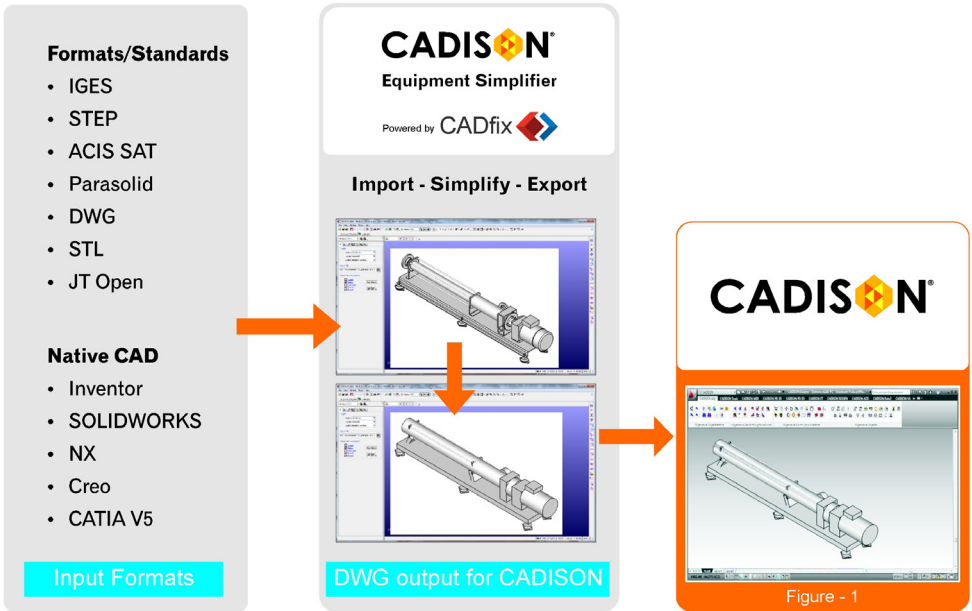
A customised wizard based solution designed for the automatic simplification of large equipment models



**Import | Simplify | Export (to CADISON®)**

***CADISON® Equipment Simplifier reduces the size and complexity of equipment models up to 90%***

**CADISON** Equipment Simplifier is a standalone product to reduce the file size(s) from different CAD formats with (interactive) manual or wizard mode and export the results in DWG format for CADISON®.



## Key Features

### Import:

- Import and export functionality for a variety of CAD formats, solid modeling kernels and data exchange standards (for e.g. DWG, Parasolid, SAT, STEP and JT files.)

### Simplify:

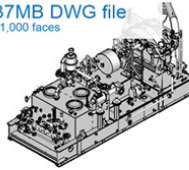
- CADISON® Equipment Simplifier addresses problem areas in plant layouts such as Stairways, Platforms, large equipment installations and skid assemblies.
- The solution reduces or removes unwanted geometry, CAD features, invisible internal, and complex parts. (for e.g. small holes, nuts, bolts, protrusions, fillets, etc.)
- This tool can be run in an (automated) batch process or with manual user interaction for reduction of model size

## Model Simplification Process:

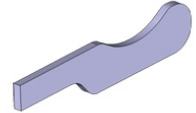
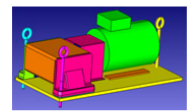
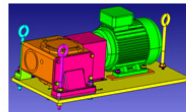
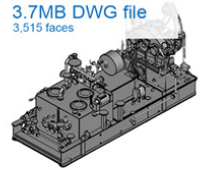
- Automatic removal of small parts based on bounding box size
- Automatic removal of parts of similar shape and size from selected item
- Automatic removal of invisible internal detail
- Simplifying complex parts to minimum volume bounding boxes or cylinders
- Removal of holes, protrusions and internal cavities
- Removal of design features such as fillets, rounds and chamfers
- Joining faces or bodies
- Deleting user-selected entities
- Converting geometry to simplified lightweight forms

Data reduction up to 90% (GB)

37MB DWG file  
61,000 faces

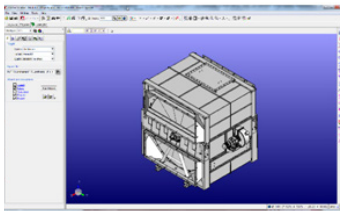


3.7MB DWG file  
3,515 faces

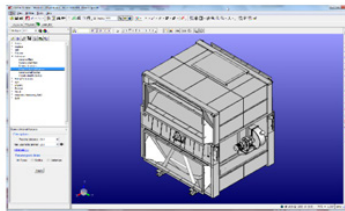


## Export:

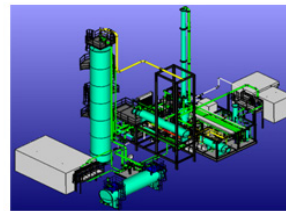
- CADISON® Equipment Simplifier can export a (simplified) model in DWG format, which can be imported by CADISON in 3D Designer for space management and further plant modeling



Original File - 40MB .dwg, 73K CAD faces



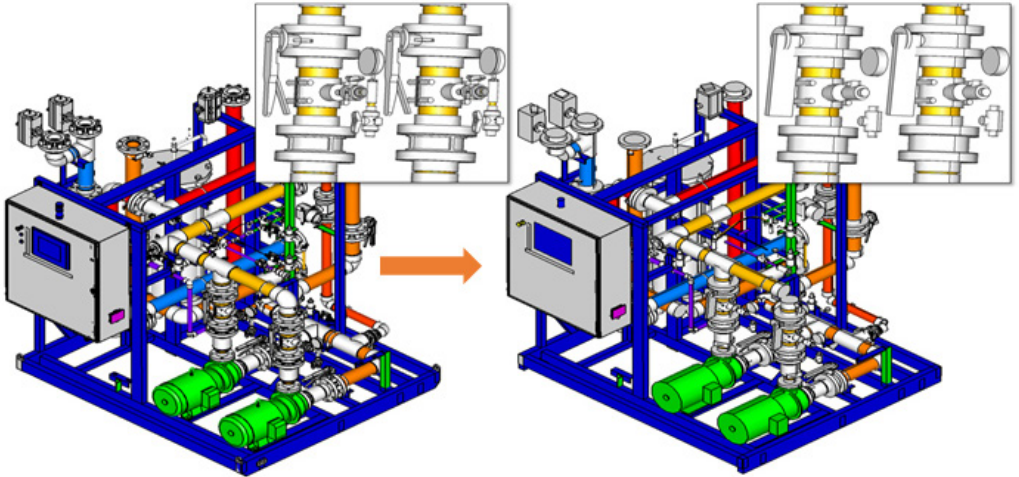
After CADISON ES - 1MB .dwg, 2K CAD faces



CADISON® Equipment Supplier removes the barriers that prevent reuse of solid models by providing an extensive set of geometry manipulation tools for importing, repairing and exporting data

## Implementation:

- CADISON® Equipment Supplier can be implemented as a desktop or server solution, depending upon the end user's source and target systems.
- CADISON® Equipment Simplifier is delivered with two formats selected from a list of Native CAD and Formats/Standards. (Additional formats can be procured on a need basis).



## Benefits

- Improves collaboration with equipment suppliers and avoid CAD rework
- Remove the features that are not required for plant modeling
- Automatic hidden (internal) detail removal leads to significant file size reductions (up to 70%).
- Efficient complexity reduction (up to 90%) of large equipment assembly models, skid assembly, steel assembly
- Improves model legibility
- Improves system response, memory usage and stability by reducing the size of plant model
- Increase profitability by enabling design teams to save labour costs and avoid penalties for project delays
- Saves time and get to commissioning faster