



CASE STUDY

Train Windows Assembly Detailing

for world's leading supplier for the leisure and mobile transportation industries.

Learn how Enventure developed Train Windows Assembly Detailing drawings in SolidWorks, for over 35 assemblies and sub-assemblies.

About the client

A 63 years old family tradition Canada-based Company & listed in Fortune's 100 fastest-growing companies.

Specialized in:

- Recreational Vehicles/Cargo/Horse/Utility Trailers/Heavy Trucking
- Residential Building Products / Construction Equipment/ Schools & Transit Buses
- Marine/ International RVs /UTVs / Material Handling
- Produces 40,000+ Windows and 2,000+ Entry doors daily.

Business Need

The requirement of the project is to support the client to produce the Train Windows Assembly Detailing drawings in **SolidWorks**.

The initial project scope:

- 7 Window assemblies
- 27 Subassemblies

Enventure Approach

Approached with a sample drawing & the assembly drawing of one of the Assemblies was done and verified for meeting the client requirement. Once the drawing is baselined, the same procedure and guidelines are followed for the rest of set. This reduced the turnaround time of the project and **completed the project in 120 Hrs** with one resource.

Challenges

The Project has been with multiple vendors for a 3D modelling task.

- 1** Integrate with multiple 3D data.
- 2** Documents with a wide range of details in French Language.
- 3** The Manufacturing drawings which require great amount of detail due to complexity of profiles and uniqueness. Enventure has encountered these types of challenges before and was able to get approval of drawings at one go with the customer.
- 4** The database customer was having was not upto date and required close look for the correctness of data & customer appreciated the attention to detail.

Benefits

Enventure's partnership with the Client enabled them to complete a critical project efficiently. The key benefits realized by the Client were:

- 1** Zero-defect deliveries
- 2** Quick turnaround time of deliveries
- 3** Responsiveness and effective Coordination to ensure minimum iterations/revisions
- 4** Flexible virtual team that could vary in size and structure based on day to day work requirements

About Product Engineering Services at Enventure

Enventure's Mechanical Product Design services includes following range of services:

- New Product Development (Concept design to detail design)
- Analysis (FEA/CFD)
- Prototyping
- Technical Documentation (Assembly Line Instruction/Animated Instruction)
- Reverse Engineering
- Legacy Conversion
- Tolerance Stack-up and GD&T
- Tool & Fixture Design
- Well versed in global standards such as ISO, ASME, and DIN.

Enventure expertise is in CAD, CAM, and CAE, along with very strong domain knowledge in various industry verticals such as HVAC, Industrial, Automotive, Off-Highway, Electro Mechanical Domain and Manufacturing processes.



Pease International Tradeport, 125, One, New Hampshire Avenue, Portsmouth, NH – 03801

 +1 603 766 4960  info@enventure.com

 www.enventure.com