CASE STUDY – DESIGN & DEVELOPMENT OF CONSOLE & DOOR INNER TRIMS FOR CAB AREA

INDUSTRY - TRANSPORTATION

REGION – UK

CLIENT PROFILE
UK’s leading bus and coach manufacturer with facilities in UK, continental Asia and North America. They are also in manufacturing of specialized agricultural equipment worldwide.

OBJECTIVE
Design & Development of Console & Door Inner Trims for Cab Area.

BUSINESS CHALLENGES
- Precisely managing 2D data conversion to 3D environment
- Communization of parts
- Library creation of purchased items
- Standardization of sheet metal components with respect to:
  - Forming
  - Bending
  - Nesting
- To develop 3D environment from old 2D drawings which merely had handmade mark-ups for general shape
- To develop fully functional 3D CAD for:
  - Front Console
  - Front Console Bottom Area
  - Door Trim & Storage Cover
TECHNOSOFT SOLUTION

- Optimization of Bill of Material with respect to standard parts and use of components across design variants
- Well-structure and sub-assemblies definitions
- Reduced overall model creation time for each frame, by implementing Top-down modeling approach with 'Feature Naming practice'

BUSINESS IMPACT DELIVERED

- 15% decrease in the design and development cost
- Produced new, cost-effective design that consumed half as much material, thus significantly decreasing the client’s exposure to future material costs
- Ability to modify designs to suit manufacturability adding flexibility
- Converted large set of 2D data to 3D CAD in a challenging timeline & process requirements

ABOUT TECHNOSOFT ENGINEERING

Technosoft Engineering is a global provider of engineering design services to various engineering / manufacturing verticals and of EPCM services in the oil and gas industry. Technosoft was formed as a division of Technocraft Group in 1999 in order to leverage the group’s engineering expertise into a services organization that supported clients worldwide. Today, Technosoft has sizable operations in North America (US and Canada) as well as in Europe, serving clients in general engineering, heavy equipment manufacturing, specialty machines and in the oil and gas industry. The company also has a center of excellence in Mumbai, India to provide additional support to its global customers.

Technosoft Engineering has a strong team of over 400+ engineers and designers located worldwide. The broad-based expertise and flexibility of the resources allows Technosoft to offer multi-disciplinary engineering services in its 5 business lines – Engineering, Consulting, Innovation, Resources and Content.

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