

Technical Documentation for Automobile Manufacturer

Enventure provided technical documentation that involved the creation of a part manual with isometric illustrations and BOM details for machine inspection and maintenance.



About the Client

The Client offers end-to-end solutions in the innovation machine and system manufacturing industry. Their services include innovative machine and system design, manufacturing, installation and commissioning of parts for an array of industries. For over 20 years, the Client has provided fully integrated solutions for the Rail, Mining, Construction, Agriculture, Forestry and Tube & Pipe industries.



Business Need

The Client required a catalogue that would ease the process of inspection and maintenance of parts for trained operators in an industrial setup. In most cases, downtime of industrial usage vehicles can have serious implications on the operational efficiency of a complete unit. The Client's need was to maintain a fully functional setup with minimal vehicle downtime, despite any inspection, maintenance or spare-part solution works being undertaken by an operator.



Why Enventure?

Enventure had previously worked on several technical documentation solutions for a variety of industries. With focus on high quality documentation, time optimization and judicious resource allocation, Enventure has been able to offer quality solutions to all its clients. A team of skilled engineers equipped with the relevant expertise in automotive industry also added to the Enventure advantage. An impeccable track record of work complemented by the company's superior engineering capability, worked in Enventure's favor and the project was hence awarded to the team.

The Solution

Enventure put together a team of proficient resources to ensure that the project was completed in time. An expert engineer was also designated to work on the complicated assembly model with more than 700 parts.

The team at Enventure developed part manuals from the 3D models provided by the Client. The technical documentation services offered by Enventure helped create manuals that could easily be read and understood by an operator. The exploded view along with BOM for various parts of the unit provided detailed information such as part name, description, functional specifications etc. The presentation module of Autodesk Inventor was used to show the trajectory line in exploded views, thus enabling clear depiction of individual part details.

The manual also served as a training guide on how a machine could be handled. When used in conjunction with the Operations & Maintenance manual, this model ensured the safe operation of the unit.

Benefits

Enventure's project implementation helped the Client in the following ways:

High Quality: Proficiency in Autodesk Inventor, combined with previous experience in similar projects ensured that the project output was of a superior quality.

Time efficiency: On-time delivery of the part manual ensured minimum vulnerability to automobile dysfunction or downtime, thus avoiding operational losses.



Conclusion

The technical documentation provided by Enventure addressed the Client's concerns in a very systematic and efficient manner. The team worked in a collaborative spirit to deliver a catalogue that could ease the process of inspection and maintenance, thus saving the Client considerable amount of time and overheads. A well-planned approach, quick execution and quality results paved the way for a long-term partnership with the Client.



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