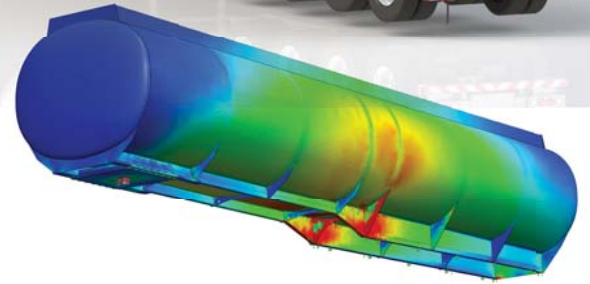


“A trusted company offering one-stop innovative engineering solutions for the oil & gas downstream industry.”



Company Information >>



www.symphony-mfg.com

Industry : Manufacturing, Service & Maintenance, Engineering Solutions

Previous CAD : AutoCAD 2010

Product(s) Used : SolidWorks Premium with Simulation Professional

About Symphony Manufacturing & Services

Incorporated in June 2011, **Symphony Manufacturing & Services Sdn Bhd** is led by a young, dynamic team with 15 years of engineering and fabrication experience in the oil and gas downstream distribution and aluminum industries.

Our strength lies in our talented and diversified professional workforce led by a dedicated management team. We continue to build on our track record of high quality, reliability and experience to deliver results beyond our customers' expectations and requirements.



“Innovation should not only be applied to Engineering Designs; It should also be adopted throughout the product lifecycle, including the design methods and processes. Being Innovative helps us maintain our edginess”

KS Yew,
Technical Design Manager

Key Success:

Accuracy • Speed • Reliability

Accuracy

Analysis – SOLIDWORKS allows engineers to create complex models at ease and with high accuracy. Thorough analysis is carried out to detect any possible faults or interference prior to production, which eliminates reworks and scarp, thus saving development cost.

Detailed Motion Analysis – All mechanisms are studied in detail, such as determining the reaction force acting on cylinder, in order to select a suitable cylinder that is able to lift the handrail correctly.

Simplify Complex Calculations – Volume of the semi-ellipse tank can be derived easily by SOLIDWORKS accurately and easily. Other information that is important for tank calibration can also be generated automatically through SOLIDWORKS.

Speed

Parametric Design – all parameters and relationships of parts are linked and updated simultaneously. This reduces the design time by 50% as changes can be made simply by modifying some variables. Overall design and built time for the first production unit is shorten by 20%. Sheet metal flatten views can also be generated quickly, in just one click.

Automatic BOM generation – tremendous time is saved as a complete BOM including all parts can be generated once the model is finished. The BOM is updated automatically if there was any change in the assembly, which prevents human error.

Enhanced Communication – Communication with Customers is more convincing through 3D as it is easier to interpret than 2D drawings. Exploded and detailed views can also be created easily in the production drawings as well as instruction manuals, making the drawings more comprehensive and easy to understand, which enhance inter-department communications.

Reliability

Safety and Reliability – Products are carefully designed, taking into consideration of the weight and centre of gravity of tank. The capability to automatically determine the correct values helps engineers to calculate the load distribution and safety factors accurately and effectively.

Design Validation and Optimisation – Stress analysis done with SOLIDWORKS Simulation ensures that the designs are proven, yet not over engineered. Reports can also be generated automatically. This allows the company to reassure that parts will not fail within the warranty period, ensuring the safety and confidence of the customers.

Success Metrics:

- Eliminate error 100%
- 50% time reduction in design cycle
- Save design time on repeated order by 50%

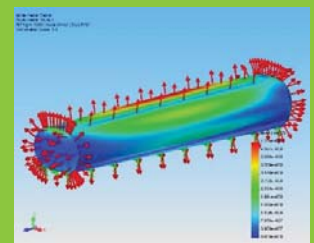
Why IME

With their long establishment and experienced professional service, it gives us the confidence to deal business with.

Adopting Innovation in the design process:

Design Automation – Design templates can be created easily where engineers can customise and pre-define parameters. Tools such as Driveworks Xpress help engineers to automate model and drawing generation of modular designs easily. By defining the parameters such as length, height and width, SOLIDWORKS can generate a complete set of detailed drawings within a few seconds.

All-in-One Solution – Engineers are able to complete the design all in one platform, including stress analysis with SOLIDWORKS Simulation, design complex piping using SOLIDWORKS Routing, automate the modular design with Driveworks Xpress, and also generate presentable 3D images with SOLIDWORKS Photoview.



About IME Technology

IME TECHNOLOGY is Malaysia's leading and #1 Solidworks certified Sales, Training, and Support Centre. With more than 30 years of establishment and experience, we have the most qualified, skilled and specialised technical expertise in the ASEAN region. Our team will ensure that the partnership between IME and our customers will grow, shine, and sustain.

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