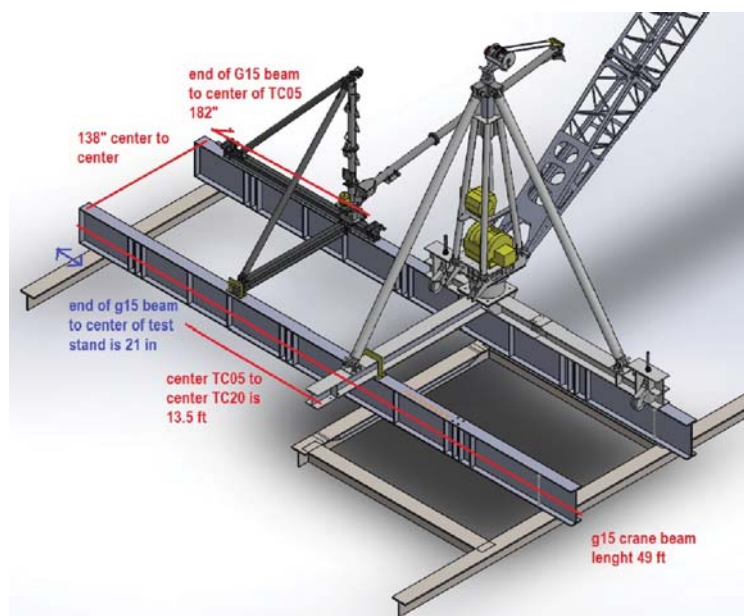


By using SolidWorks on the project, Thunder Cranes have shortened its development cycle by 25 to 30%.

### About Thunder Cranes Sdn Bhd

**Thunder Cranes** owns and operates Asia Pacific's largest fleet of self-lifting offshore rental cranes. Our present fleet consists of a combination of stiff leg and pedestal cranes ranging in size from 2 to 60 dynamic tons lifting capacity. Our inventory is designed to be dynamic and adaptable, providing multiple self-lift packages and on-deck placement scenarios.

**Thunder Cranes** Provides the most knowledgeable and experienced personnel in the business and the best equipment to handle your lifting needs. **Thunder Cranes** crews are led by Superintendents each with 10 years or more experience. Our equipment is continuously being upgraded and maintained to extraordinary standards; we take our customers seriously and thus strive to provide the safest, hardest working personnel and equipment in the business.



### Company Information



**Thunder Cranes  
Sdn. Bhd.**

[www.thundercranes.com/](http://www.thundercranes.com/)

Industry : Energy, Process and Utilities  
Previous CAD : Autocad – 2 years  
Product(s) Used : Solidworks Premium and  
Simulation Professional  
– 2 years

We chose SolidWorks because of its capabilities in 3D, it is very powerful yet easy to learn and use."

**Mohd Fauzy Bin Khamis,**  
Operation Engineer



Thunder Cranes Sdn. Bhd.

### Success Metrics

- Shortened the design and development cycle by 30 – 50%
- Lowered design cost by 30%
- Eliminated Re-design process caused by design error
- Increased manufacturability by 30%
- Improved quality of product by 60%

### The Challenge:-

**Dynamic Modeling Environment:** As the portable offshore crane renting company, Thunder Cranes will need to design various methods and applications in order to suit our crane with our client's structural offshore platform and fulfil their lifting needs.

**Communication and Collaborations:** 2D data was not ideal for communication and collaboration among team member was limited. Unable to show concepts to customers effectively with 2D drawing.

**Design Error:** Lose time and money due to design errors, due to inability to validate manufacturability or other errors prior to production.

### The Solutions:-

**Quality Assurance:** Realistic and reliable design validation and analysis was done in the development stage, producing optimised products that are cost effective, yet having safety and quality as the main priority. Thunder Cranes emphasises on safety, quality and efficiency, and makes sure they are not compromised.

**Shorten Design Cycle:** By using SolidWorks on the project, Thunder Cranes have shortened its development cycle by 25 to 30%. This is achieved by the modular approach for design in SolidWorks, which saves time in 3D Model and Assembly creation.

**Innovation:** A shortened and simplified design cycle also allows Thunder Cranes engineers to focus on innovation of the products, to continue to bring to the market safe, cost effective and innovative lifting solutions to the industry.

**Reduce Cost:** 3D data allows proof of concept as well as design verification and validation in the early stage of product development. The reduction in design errors effectively reduces the cost of error as well as time spent on re-designing after production.

**Enhanced Communication:** 3D allows all stakeholders to be able to understand the design concept and visualise before production takes place, which shortens the sales cycle as well as avoid miscommunications.

### Benefits

- Results
- Collaboration
- 2D/3D Integration
- 2D/3D Transition

### Why IME

IME has dedicated and strong technical support, which are able to resolved our technical issues and provide us with professional guidance. The strong SolidWorks and IME user community also gives us confidence to be a part of it.



### 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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