

COMPANY

Enpro Industries Pvt. Ltd.

LOCATION

India

SOFTWARE

Autodesk® Product Design Suite®

Adopt 3D modelling solutions

Using Autodesk Product Design Suite makes it easier to communicate design concepts across the company because designers can understand 3D models better than 2D drawings. Another benefit is that designing in 3D is more accurate than 2D. Designers can visualize errors in the designs earlier in the design cycle. In addition, the ability to assemble systems virtually onscreen makes it possible to detect and fix interferences before they get to production

– Alka Karkare

MD Enpro Industries

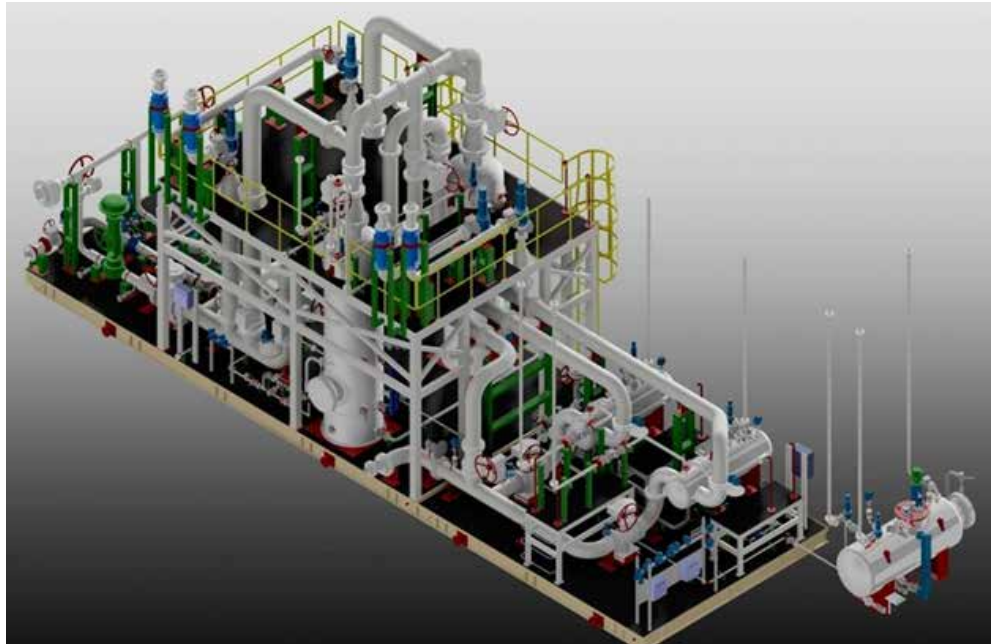


Image courtesy of Enpro Industries

Enpro Industries Pvt. Ltd. started 25 years ago as a consultancy and marketing Firm and soon evolved as a major provider of build-to-order customized and complex solutions for mechanical fluid systems like lube oil systems, chemical injection systems, fuel handling systems, gas handling and filtration skids.

Enpro Industries has established a reputation for providing innovative and comprehensive solutions. Today, company has emerged as a preferred partner for mechanical fluid systems for major petrochemical, refinery, fertilizer, power and offshore projects around the globe. Recently, the company has expanded its manufacturing facility with well equipped resources to carryout high quality fabrication work and thorough testing of all mechanical fluid systems.

Challenges:

Every project the company takes up is unique, the ability to communicate project concepts, both internally and with customers is critical. So is the ability to turn jobs around quickly, as customers require shorter and faster cycle times. These requirements, along with the desire to continue the strong tradition of innovation, led to a decision to adopt 3D modelling solutions.

As company develops entire mechanical fluid systems - from simple parts to complicated systems, there was a need for a single design tool that can meet the following requirements: improve collaboration efficiency across the design, purchase and manufacturing departments, integrate with ERP solution, reduce design and production planning cycle time, improve design quality and efficiency, and reduce the number of manufacturing errors using product visualization prior to production.

Key Benefits:

Realizing the need for 3D modeling and its business value, Enpro created a wish list of features and functionalities for the 3D CAD system. This list included general 3D requirements along with, including ease of implementation, support for international standards and short learning curve for their engineers.

As a long time AutoCAD user, in Dec 2010, Enpro's experts enthusiastically favored Autodesk's Product design Suite, especially after learning that the system is widely used at international enterprises. Autodesk Inventor which is part of the Autodesk Product design suite has a powerful tubing and piping module.

Using Autodesk Design Suite the barriers between departments have been eliminated; information is immediately shared; thus optimizing our product design and manufacturing processes and giving us the measurable advantage of customer responsiveness and market competitiveness.

—Alka Karkare
MD Enpro Industries



Image courtesy of Enpro Industries

With more than a million standard helps in faster design cycle time.

Solutions:

Autodesk Product Design Suite is a complete and integrated package for design, visualization and simulation. The company's mechanical engineers begin doing all of their design work in 3D, starting with their basic design activities from day one of the implementation.

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designing in 3D is more accurate. Designers can visualize errors in the designs earlier in the design cycle. In addition, the ability to assemble systems virtually onscreen makes it possible to detect and fix interferences before they get to production" said Mrs. Alka Karkare, MD Enpro Industries

Result:

Enpro Industries' growing product portfolio provides the best evidence that their decision to move to 3D with Autodesk Product Design Suite, with tight integration with company's ERP saves time and reduces the risk of purchase department with the exact BOMs for the metal structures, pipes, fittings and fasteners for their reference.

With the use of Autodesk Design Suite, design cycle time has been cut by 25 percent. The improved accuracy of a 3D environment reduced the manufacturing costs, assembly errors, part rejection and scrap.

"Using Autodesk Product Design Suite the barriers between departments have been eliminated; information is immediately shared; thus optimizing our product design and manufacturing processes and giving us the measurable advantage of customer responsiveness and market competitiveness" concludes Mrs. Alka Karkare.