

Company overview: A specialist in the domain of engineering solutions, services and technologies. Geometric's portfolio of global engineering services and digital technology solutions for Product Lifecycle Management (PLM) enables companies to formulate, implement, and execute global engineering and manufacturing strategies aimed at achieving greater efficiencies in the product realisation lifecycle. Geometric employs over 3,000 people across 10 global delivery locations in the US, France, Romania, India, and China. Geometric is assessed at SEI CMMI Level 5 for its software services and ISO 9001:2000 certified for engineering operations.

Innovation: Geometric has developed DFMPPro, a tool to capture Design for Manufacturability (DFM) guidelines that help designers to "Get the design right the first time." Designers work with Design for Manufacturability (DFM) rules and guidelines that are given to them in the form of a checklist by the standards or the manufacturing department. DFMPPro was launched in November 2007.

Impact of Innovation

Internal: DFMPPro was created using some of the existing technologies of Geometric. This has amortised the cost of the existing technologies and reduced the overall cost of development of the product. DFMPPro has helped Geometric to gain insights into the problems faced by the sheetmetal, casting and moulding industry in the areas of design and manufacturing. DFMPPro has also helped the company retain talent by opening up a larger market segment for Geometric.

External: Since the tool is integrated within the designer's CAD software, before releasing any design, the designer can run the automated DFM checklist using DFMPPro, which automatically highlights areas in a design that are not standard. The tool enables designers to learn about the guidelines to be followed while designing the product, and is of great help to new designers. DFMPPro provides a framework for users to write and develop their own customised set of rules. This allows educational institutes and industries to contribute to the rule framework and enhance the rule set. The product has helped in the training of the younger design workforce by

capturing the rules from experienced professionals. It has improved the working within the manufacturing teams, as the number of iterations and back and forth between design and manufacturing is reduced significantly, saving both time and money.

Customer speak:

“Using DFMPPro, we were able to reduce our time for checking the product design from the manufacturing feasibility point of view by approximately 90 percent with respect to manual checking. The net reduction in total time using DFMPPro software was approximately 15 %”

Amol Manem Manager, Engineering Department, Sulzer India Limited

