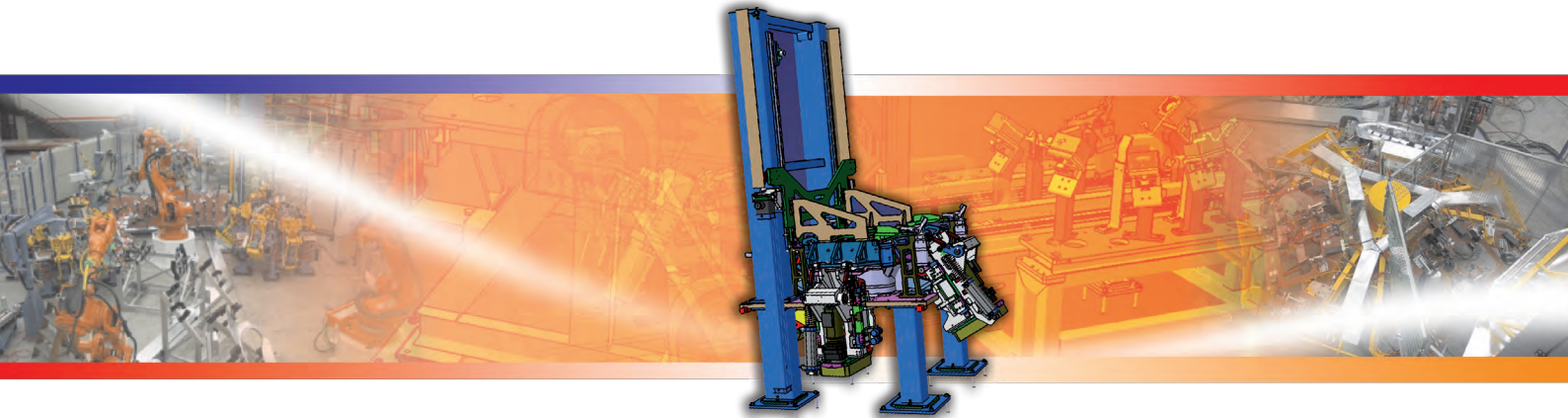


Ingemat

Reducing development costs by 30% with CATIA



Ingemat

Overview

■ Challenge

Ingemat needed to reduce development times and effectively manage design knowledge throughout its development process.

■ Solution

The company uses CATIA for its design needs and optimizes its design process by using CATIA Knowledgeware capabilities.

■ Benefits

Ingemat reduced development costs by up to 30% thanks to automation, design reuse, and design quality improvements.



“Now we automate repetitive tasks and, with just one tool, we can deliver production tools that are of excellent quality, on time, to our various customers.”

Jesús Bahillo
Product Innovation Coordinator
Ingemat

Assembly line leader automates with PLM

Ingemat is a European supplier of outer assembly production systems for vehicles and a leader in hemming technologies for mobile parts like doors, gates, hoods, side panels and sunroofs. It designs, produces and sets up assembly lines for auto body components and final vehicle assembly using resistance welding, arc welding, hemming, and adhesive and sealing applications. Ingemat has proven know-how in the area of both table-top and roller hemming, as well as in new laser joining technologies (CO2 laser, laser disk and laser brazing). With headquarters in Zamudio, Biscay, Spain, the company has 80 employees and an annual turnover of approximately 20 million euros.

Ingemat's experience working with the design departments of major automotive manufacturers enables it to collaborate effectively with its customers from the product definition stage through to the concurrent engineering phase on areas such as manufacturing standards, cost optimization, and space requirements. To this end, the use of 3D simulation and advanced design tools enable Ingemat to adapt to its customers' requirements while minimizing costs and maximizing the quality of its products. Ingemat has used CATIA, the automobile industry standard for 3D product design, for more than ten years starting with CATIA V4.

Ingemat's goal - standardization and automation

Faced with the high level of competition in the automotive sector, the company needed to efficiently manage the knowledge generated throughout its business processes, and thereby shorten development times and increase the reusability of processes and models.



The environment that Ingemat sought had to facilitate strong collaboration, the standardization of methods, and a reduction in manual errors.

Three years ago, Ingemat moved from CATIA V4 to V5 with the goal of increasing automation. "We wanted the capacity to automate without having to be an expert," says Jesús Bahillo, coordinator of Product Innovation, Ingemat. "Now we automate repetitive tasks and, with just one application, we can deliver production tools that are of excellent quality, on time, to our various customers."

One of the most powerful ways Ingemat optimizes its design process is by using the modularization offered by CATIA Knowledgeware. Although welding tools vary from one customer to another, conceptually they are the same. Each of these shared concepts is a module. The parameterization of these modules enables Ingemat to standardize design, simplify solutions (which results in cost savings) and accelerate execution. This way, the company has achieved savings of between 25% and 30% in the design phase.

Along with the numerous possibilities for parameterization and programming, Dassault Systèmes' solutions enable Ingemat to manage large volumes of information in a stable way and with simple interfacing with other softwares. "Choosing CATIA has proven to be a complete success. Some of our competitors opted for other solutions and have failed in their attempt to optimize resources," concludes Jesús Bahillo.

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Jesús Bahillo
Product Innovation Coordinator
Ingemat



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