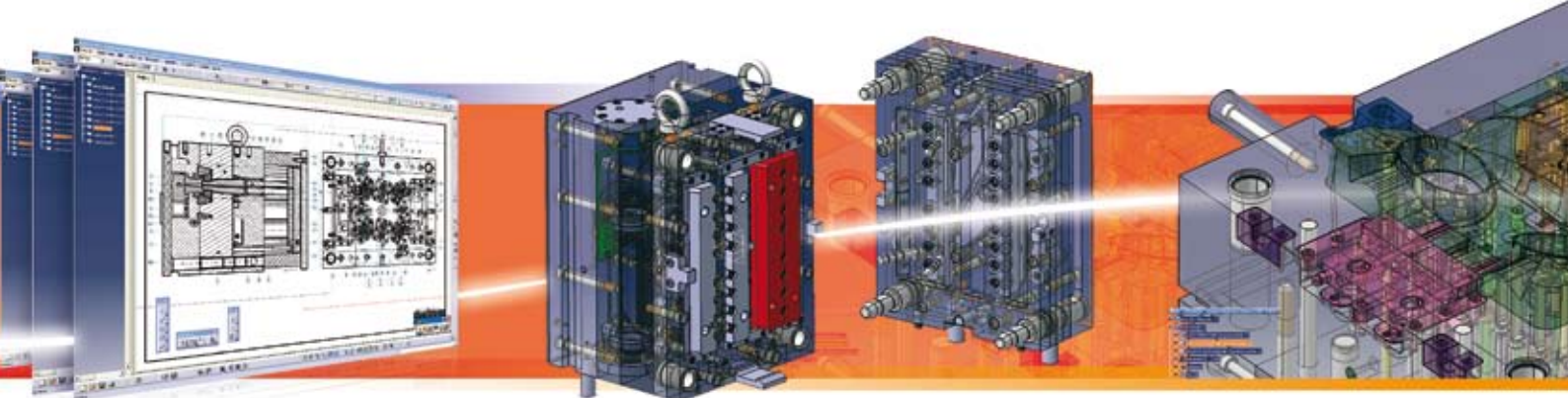


Pro Stampi

Reducing overall design time by 40% with CATIA for Mold & Die Solution



Overview

■ Challenge

Pro Stampi needed to shorten delivery times while producing high quality designs at a competitive price

■ Solution

Pro Stampi chose CATIA for Mold & Die Solution based on CATIA PLM Express to enhance design innovation

■ Benefits

CATIA for Mold & Die Solution has helped Pro Stampi reduce its overall cycle time by 40%



“CATIA has reduced design startup time by 20% since we no longer need to perform a manual 2D design for preliminary feasibility studies. We saved another 20% due to automatic propagation of 3D design modifications. In sum, we’ve reduced our overall cycle time by 40%.”

Davide Cantarini
Owner
Pro Stampi



Small and dynamic company of mold and die experts

Founded in 1998 in Loreto, Italy, Pro Stampi provides high-quality mold-and-die design services to companies in the auto and consumer goods industries. Pro Stampi delivers large mold designs for automotive components, as well as mold designs for household appliances, electronics, musical instruments, lighting, and telecom products.

The company's main challenge is to successfully turn out the most advanced designs while maintaining high quality standards at a competitive price. Pro Stampi provides its customers with designs that illustrate all the technical solutions necessary to produce the optimum result. Ideally, this is a production-ready, problem-free mold that complies with the customer's budget and desired delivery dates.

Innovation is key

For Pro Stampi, one of the critical factors to remaining competitive is innovation. “We always try to be one step ahead of our

competitors,” said Davide Cantarini, owner, Pro Stampi. “To increase our competitive edge, we design our molds entirely in 3D. This translates into quick execution and delivery of the final product.”

This competitive edge, explains Cantarini, is the reason why Asian competition has not had an adverse impact on Pro Stampi's business. “Customers turn to Pro Stampi to obtain maximum quality and to minimize their risks,” he said. “They prefer not to move their production abroad where they would not have the same guarantees. This is especially true for the production of complex molds.”

CATIA: 3D replaces time-consuming design steps

Pro Stampi chose CATIA because it provides stability and easily-customized features. Pro Stampi also developed a library of more than 1500 customized and parameterized components. “Prior to doing everything in 3D with CATIA, we used to perform preliminary studies with a 2D CAD system,” said Cantarini. “Now with 3D, we can design



quickly during the initial stage and don't need to waste our time doing these 2D preliminary studies. This shortens design time."

Providing complete designs to mold manufacturers

A Pro Stampi design project begins with a technical meeting with the customer to define the general guidelines of the project. From this, a general 3D sketch is created around which Pro Stampi and the customer define the key details that are needed to create the 3D master design of the mold and each of its components. Pro Stampi then adds dimensions and tolerancing information to the 3D master design and finally generates all project data and documentation before delivering the final design to the customer.

Reliability when managing large assemblies

Thanks to the flexibility and power of the CATIA for Mold & Die Solution, Pro Stampi has been able to tap the full potential of its creativity in mechanical design thereby streamlining its development projects. CATIA provides reliability when handling large assemblies, often over 2500 parts. Pro Stampi also capitalizes on previous designs by creating custom assemblies based on the different specifications of each customer and adding these items to its library for reuse when designing new molds for the same customer. "By considerably reducing repetitive design work, we have shortened design time and can deliver our mold designs to our customers faster," said Cantarini.

Automatic data repair and a flexible approach to design

With CATIA for Mold & Die Solution Pro Stampi can use almost any data format sent by its customers as input for its mold designs. Although Pro Stampi receives native CATIA V5 files the majority of the time, it may also receive STEP or IGES files. "We are grateful for the automatic stitching and correction features available in the CATIA for Mold & Die Solution, which analyze and repair non-native CATIA data and improve its quality if necessary," said Cantarini.

In addition, CATIA for Mold & Die Solution does not impose a rigid approach to mold design since designers have the flexibility to use any method or design process they choose. This leaves ample room for creativity and originality when creating a design as well as the ability to adapt their work to the specificity of each customer.

40% reduction in cycle time

"CATIA has reduced design startup time by 20% since we no longer need to perform a manual 2D design for preliminary feasibility studies," said Cantarini. "Another 20% reduction was achieved in the 3D mold design stage in part due to automatic propagation of modifications. The use of 3D has also reduced drafting time. In sum, we have reduced our overall cycle time by 40%."

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Davide Cantarini
Owner
Pro Stampi



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