



ATS CUSTOMER STORY

D'Andrea SPA

Tradition powerfull Innovation



D'ANDREA®
TECHNOLOGY FOR HIGH PRECISION

Industry

High-precision mechanics

About Customer

D'ANDREA is an Italian company that is a world leader in the production of high-precision accessories for machine tools. Known worldwide for the quality of its products, the D'ANDREA family now in its third generation, has been engaged since 1951 in the development of technological solutions in step with the times.

Customer's Business

At the headquarters in Lainate (Milan) and Castel Del Giudice (Isernia), the entire production of tool holders and modular systems and CNC heads lines for cutting and boring is developed. The current challenge is the continuous development of products that integrate with the new technologies of the digital era.

Location

Italy



Challenge

Reduce time to market and time to production, errors, costs, and improve collaboration by becoming a digital company.



Approach

Creation of the Digital Twin of entire process from idea to production, implementation of parametric CAD/CAM system with a PLM management software.



Solution

Comprehensive Digital Twin of production with integration of Siemens softwares NX CAD/CAM, Simcenter 3D, Teamcenter.



Results

Thanks to the implementation of Siemens' Teamcenter PLM, Siemens NX CAD & CAM, we achieved a 50% reduction in the time required for production. Additionally, we eliminated errors by having a centralized single source of information.

About ATS

ATS Global is The Independent Solution Provider for Smart Digital Transformation. Since 1986, ATS has been raising the digital maturity of manufacturers through its Smart Manufacturing / Industry 4.0, Industrial Automation, manufacturing IT, Quality and 24/7 support services and solutions. The continuous improvement initiatives delivered by ATS succeed through the targeted achievement of tangible business value for customers world-wide.

Contact Us

Explore how we can accelerate your digitalization journey and much more! Don't miss out – here's how to connect:

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Challenge

Transforming into a digital company while preserving traditional values helps D'Andrea maintain the legacy of Made in Italy and stay competitive globally. Integrating modern technologies like PLM and digital twins optimizes production while preserving craftsmanship and quality. Digital platforms enhance collaboration, improve efficiency, reduce costs, and support continuous innovation.

The adoption of digital platforms facilitates collaboration across various departments and with external partners. This not only enhances operational efficiency but also ensures consistency in the quality and identity of the product, which are fundamental elements of Made in Italy. Digital transformation enables D'Andrea to compete on a global scale by leveraging technologies to improve efficiency, reduce costs, and continuously innovate. This is crucial for maintaining the relevance of Made in Italy in an increasingly competitive market.

Approach

PLM software centralized all product-related data, providing a single source of truth for the entire organization. This reduced the risk of errors and ensured that all teams worked with the most up-to-date information. By integrating data from various departments, PLM software facilitated better communication and collaboration. Teams could easily share information, track changes, and coordinate their efforts, leading

to more efficient and effective product development processes. PLM software managed the entire product lifecycle, from initial concept to end-of-life. This holistic approach ensured that all aspects of product

development, production, and maintenance were optimized for quality, efficiency, and sustainability.

Solution

The integration of Teamcenter has indeed helped ensure data certainty and the validation of information within the company. Teamcenter facilitates collaboration between different departments and users, ensuring that everyone has access to the most up-to-date and validated information. This has reduced the risk of errors and improved operational efficiency while maintaining a high level of quality. NX CAD/CAM systems, which allow designers to create models defined by parameters and constraints PMI. This capability is crucial for maintaining design consistency and efficiency.

Result

Siemens Solutions and the ATS Approach have empowered D'Andrea to transform into a fully digital company, enabling it to compete globally with industry giants. By leveraging these advanced solutions, D'Andrea has achieved remarkable improvements:

50% Reduction in Production Timing: Streamlining processes has cut production time in half.

From CAD to Production in Just 2 Hours: What once took a full day now takes only two hours, significantly accelerating time-to-market.

No Machine Downtime: The integration of digital twins ensures continuous operations without interruptions.

Enhanced Collaboration: Improved communication and collaboration across teams have fostered a more cohesive and efficient workflow. These advancements have positioned D'Andrea as a leader in the market, capable of meeting the demands of a competitive global landscape.

