



CASE STUDY

Enhanced shop floor control with aviation MRO software: Streamlining parts movement & cutting job location time by 30%.

OVERVIEW

This case study showcases the operational transformation of a U.S.-based aviation MRO provider that modernized its shop floor and back-office processes with Impresa™ MRO software. Facing rising complexity, limited visibility, and pressure to scale efficiently, the organization replaced fragmented manual workflows with a unified MRO platform. The result was improved MRO inventory management, stronger compliance, and a foundation for long-term growth in today's demanding aerospace and defense market.

CHALLENGE:

The organization faced growing inefficiencies across its aviation MRO operations due to excessive paperwork, redundant engineering processes, and disconnected workflows. A lack of real-time MRO inventory visibility and fragmented work order management further hindered productivity and increased the risk of costly errors.

SOLUTION:

To modernize operations and scale for future growth, the company deployed Impresa self-hosted, end-to-end MRO software to unify core functions across engineering quality assurance, shop control, and MRO inventory management. The MRO platform enabled real-time visibility into parts and materials, supporting more efficient just-in-time (JIT) inventory strategy. Implementation was completed within nine months, ensuring minimal disruption to daily operations and a fast return on investment.



RESULTS:

Following full deployment of Impresa MRO solutions, the organization achieved a significant reduction in process redundancies across engineering, quality, and inventory management. Improved shop floor control streamlined parts movement and enhanced tracking of work-in-progress, resulting in a 30% decrease in time lost locating customer jobs.

Enhanced MRO inventory visibility increased accuracy, reduced stockouts, and lowered carrying costs. These operational improvements enabled the company to meet FAA compliance more effectively and positioned it to secure a major new aerospace contract. Since go-live, the business has quadrupled in size, demonstrating the scalability and long-term value of the Impresa aircraft MRO software platform.

ABOUT IMPRESA

Impresa Corp delivers next-generation aviation MRO software that unifies people, parts, tools, files, and data into a single, orchestrated platform. Designed by aerospace professionals, Impresa MRO helps airlines, OEMs, and third-party providers reduce turnaround time (TAT), improve compliance, and lower total cost of ownership. With flexible self-hosted deployment and real-time visibility, Impresa enables organizations to meet today's challenges and the future demands of aviation maintenance. Learn more at www.impresa-us.com.

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