



CASE STUDY

Optimizing Parts Brokering & USM Sourcing with Integrated Aircraft MRO Software.



OVERVIEW

This case study highlights how a global aerospace MRO provider and aftermarket parts broker optimized its parts brokering and used serviceable material (USM) sourcing with Impresa™ MRO software. Struggling with fragmented systems, sourcing delays, and rising costs, the organization modernized its procurement and inventory processes by adopting a unified aircraft MRO platform. The result was improved MRO inventory visibility, faster sourcing cycles, stronger FAA/EASA compliance, and greater profitability in the highly competitive aviation aftermarket.

CHALLENGE:

A leading global aerospace maintenance, repair, and overhaul (MRO) provider and aftermarket parts broker struggled with inefficiencies in used serviceable material (USM) sourcing. The organization regularly procured high-value aircraft components, engines, landing gear, and structural assemblies, but lacked visibility within its MRO inventory systems. Reliance on manual spreadsheets and disconnected workflows caused sourcing delays, increased costs, and limited the ability to meet rising customer expectations for faster turnaround times and reduced lifecycle costs.

SOLUTION:

To modernize operations and eliminate inefficiencies, the company deployed Impresa™ MRO, an integrated MRO management software platform purpose-built for aviation and aerospace aftermarket operations. By centralizing procurement, inventory, and repair workflows, Impresa provided real-time visibility into vendor offers, parts availability, and fleet maintenance requirements. Configurable dashboards also enabled faster ROI analysis and smarter supply chain optimization.

In addition, embedded compliance management tools ensured full FAA and EASA traceability, while the unified MRO ERP solution streamlined parts brokering and USM sourcing by reducing reliance on spreadsheets and fragmented processes. This comprehensive aircraft maintenance software empowered teams to operate with the speed, compliance, and precision required in today's highly competitive aerospace aftermarket.



RESULTS:

The adoption of Impresa MRO software delivered measurable benefits across sourcing, cost control, and compliance. The company reduced sourcing delays for mission-critical aircraft components, ensuring availability for fleet maintenance and heavy check schedules. By aligning USM acquisitions with real-time fleet demand, Impresa lowered carrying costs and improved aviation MRO inventory management. In addition, enhanced supplier visibility and stronger vendor negotiations improved margins on resale transactions, boosting profitability in the aerospace aftermarket.

Impresa also strengthened regulatory compliance by embedding FAA and EASA audit readiness into daily workflows and providing complete lifecycle traceability for all components. This digital-first approach to documentation and compliance reduced risk, improved audit performance, and built greater customer confidence. With these improvements, the organization gained the agility, scalability, and compliance assurance needed to compete more effectively and profitably in today's demanding aviation MRO market.

TESTIMONIAL:

We don't typically buy whole airplanes to tear down, but sourcing used serviceable material—engines, landing gear, major assemblies—is a big part of our business. Having better visibility and control makes all the difference in moving faster and more profitably." – Director of IT and Continuous Improvement

ABOUT THE COMPANY

This organization is a well-established aerospace maintenance, repair, and overhaul (MRO) provider with deep expertise in aircraft modifications, conversions, and aftermarket services. Known for its technical precision and operational reliability, the company supports airlines and operators worldwide with cost-effective solutions for extending fleet life, optimizing parts utilization, and maintaining regulatory compliance. By combining decades of industry experience with a strong focus on quality and efficiency, the company has earned a reputation as a trusted partner in the global aviation market.

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 impresa-us.com.

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