



The Dawn of a Smart Connected Enterprise

Leveraging a real-time, unified digital view of operations, an aerospace company overcomes modern industrial challenges, enhances efficiency, and drives profitability.



Navigating a New Era of Innovation

The global aerospace market is a complex landscape marked by significant challenges. Escalating costs for raw materials and energy are squeezing profit margins, while a persistent tight labor market is making it difficult to find and retain the skilled talent needed to operate in a highly-regulated work environment. Simultaneously, a fragile global supply chain, still reeling from recent disruptions, continues to threaten the timely delivery of essential components and materials. In this demanding environment, production teams are under immense pressure to maintain high-quality standards while meeting strict deadlines and staying within budget.

One aerospace maintenance, repair and overhaul (MRO) facility leveraged a sophisticated "smart connected" solution to optimize their operations. The comprehensive platform delivered digital supply chain visibility and process accountability, enabling a more sustainable and efficient approach to production. By intelligently automating tasks such as inventory tracking and the real-time location of work in progress (WIP), the solution delivers a granular, instantaneous view of their entire production floor.

Built to deliver the most impactful results, the solution seamlessly integrates with the MRO's existing IT infrastructure, including warehouse management systems (WMS), manufacturing execution systems (MES), and enterprise resource planning (ERP) systems. Furthermore, the end-to-end integration of automated business analytics and reporting provides a holistic and complete picture of the facility's efficiency. This enhanced insight allows the organization to reduce waste and ultimately improve the profit margins of their products.

CONCLUSION

A Measurable Impact: The Return on Investment for Smart Manufacturing Solution

By embracing the solution, this MRO company achieved significant return on their investment. Some of the demonstrated improvements include:

- **Increased Throughput:** Production efficiency has seen a significant boost, with throughput climbing by an impressive 5-9%. This means more products are moving through the production line in less time.
- **Enhanced Inventory Turnover:** With real-time visibility and automated inventory management, they improved inventory turnover by a substantial 21%, freeing up capital and reducing the costs associated with holding excess stock.
- **Optimized Labor and Reduced Waste:** The automation of manual, non-value-added tasks has led to a 30% reduction in related labor costs, allowing skilled employees to focus on more strategic initiatives.
- **Accelerated Reporting:** The time and effort spent on creating reports has been slashed by 60%, providing leadership with faster, more accurate insights for decision-making.
- **Strengthened Customer Relationships:** Perhaps most importantly, the ability to consistently deliver high-quality products on time and on budget has fundamentally transformed this company's reputation, solidifying customer trust and loyalty—an asset that is, in the end, truly priceless.



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