Solumina Maintenance, Repair and Overhaul (MRO)

Overview

Solumina MRO

Solumina Maintenance, Repair and Overhaul (MRO) by iBase-t enables new levels of visibility, productivity, and reliability in the sustainment of complex assets.
It provides full visibility of work-in-progress component status and locations for each end unit. Work instructions, authoring, and change control processes are standardized, scope management is streamlined, and inspection and signature requirements are enforced.
It also establishes a complete historical record so future traceability actions can be performed with greater ease and efficiency.

Solumina MRO is designed specifically for sustainment service providers in industries like aerospace and defense, electronics, industrial equipment, medical devices, nuclear, and shipbuilding.

What sets Solumina MRO apart?

Solumina radically improves sustainment productivity, quality, and compliance by giving MRO facilities access to real-time digital data and integrated systems.

Designed for complex assets

Solumina MRO was purpose-built for service providers of complex products with multiple levels of teardowns and inspections, frequent engineering changes, and stringent regulatory requirements.
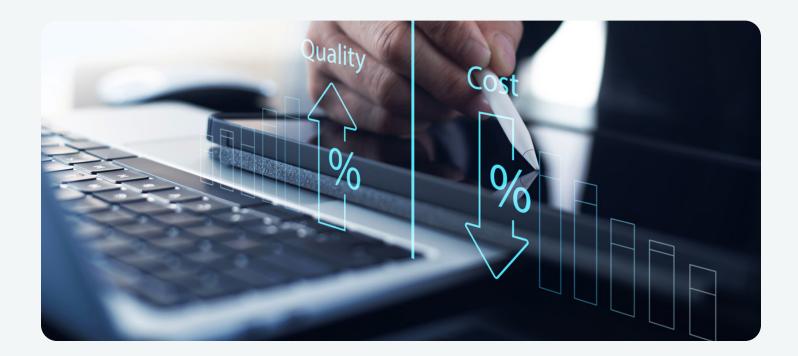
Embedded quality management

Quality is too critical to your operations to be siloed from your MRO. That's why an enterprise quality management system (EQMS) is embedded throughout the Solumina platform to enforce quality throughout your production operations.

Cloud-native architecture

Solumina is a cloud-native solution built on a microservices architecture that offers scalability, reliability, and lower upfront costs than on-premises solutions. Implementation is faster, leading to rapid realization of benefits and return on investment.

Part of a complete manufacturing operations platform

Native integration with Solumina Manufacturing Execution System (MES) and Supplier Quality Management (SQM) creates a seamless flow of data across the entire value chain and product lifecycle.

Benefits of Solumina MRO

Improved Productivity

Streamline planned and non-planned work processes, enhance rotable and supply chain management, and increase throughput.

Greater Reliability

Standardize and enforce best practices, ensuring work is performed exactly to the planned standard-work steps and instructions.

Closed-Loop Quality Control

Record a full history of each step, how it was completed and by whom, and utilize sustainment data to improve the design process.

Enhanced Visibility

Track tooling, parts, labor, and resources, and get real-time insight into performance KPIs, work order status and more.

Integrated Systems

Integration with PLM and ERP syncs design information and business records with your maintenance processes, driving accuracy and efficiency.

Automated Compliance Documentation

Automatically log all required ICA data and approvals into history at every step and integrate CAPA processes.

Feature Highlights

Complex Disassembly & Reassembly

Provides detailed serialized part tracking to streamline disassembly, reconditioning, and reassembly of complex products such as engines, which may have multiple major components and rotable parts.

Digital Work Instructions

Supports the creation of complete digital work orders with illustrated instructions, 3D model animations, specifications, tooling and parts lists, inspection requirements, and links to ICA chapters.

Change Orders

Reduces turnaround time by updating any changes to repair manuals, regulatory body directives or other processes in real time, preventing misguided work.

Inspection Support

Tracks and monitors each customer unit and any removed subassembly, major component, or panels to determine if the unit is ready for reassembly. Enforces inspection requirements and sequence during process execution, so no service task ever falls through the cracks.

Embedded Quality Review

Prompts technicians and inspectors to electronically sign work completion and approvals with required certifications. Corrective Actions can be used to manage investigation, root-cause analysis, and resolution of quality and compliance issues.

Scrapped Parts

Enables traceability of scrapped parts so technicians and management can determine future courses of action around repair vs. replace, updates to tolerances, and more.

Secure Access & Data

Application and database access are controlled by roles, privileges, and user login. Additional IP protection and ITAR security controls can be leveraged.

Regulatory Compliance

Meets the strictest process management and integrity requirements of the industry including ISO9001, AS9100, ISO13485, FAA, and FDA Title 21 CFR Parts 11 and 820.

Solumina Manufacturing Operations Platform

To learn more or book a demo visit **www.iBaset.com**

The Solumina Manufacturing Operations Platform by iBase-t consists of an integrated suite of MES, SQM, and MRO solutions. Designed for complex, highly regulated discrete manufacturers who seek to digitally transform their operations, Solumina connects manufacturing operations, quality, and sustainment management in a seamless flow of data across the value chain and product lifecycle.

The Solumina Manufacturing Operations Platform creates the technology infrastructure manufacturers need to harness advances in model-based functionality like augmented reality guidance for the workforce, IIoT connectivity for equipment, new levels of intelligence for decision making, and higher levels of customer and supply chain collaboration.