

AI-Powered Aviation MRO Services

Modernizing aircraft maintenance with greater efficiency, improve reliability, and faster transformation.

Flyer



Airlines and MRO organizations are under increasing pressure to improve reliability, reduce maintenance costs, meet regulatory compliance, and modernize aging technology landscapes. Hexaware helps organizations address these challenges through industry-focused Aviation MRO Services that combine domain expertise, proven delivery experience, accelerators, and innovative Aviation AI Solutions.

Our Aviation MRO Capabilities

Hexaware supports key MRO functions including:

- Maintenance Engineering
- Technical Records
- Maintenance Planning & Forecasting
- Aircraft Configuration Management
- Line & Heavy Maintenance
- Component Maintenance
- Material & Inventory Management
- Logistics
- Quality Assurance & Compliance

Accelerators for Faster Outcomes

Hexaware's aviation-focused accelerators help organizations reduce risk and accelerate value realization:

Data Migration Accelerator

- Agentic AI Data Platform
- Prebuilt templates and validation frameworks
- Improved data quality and 100% regulatory compliance
- Up to 40% effort savings

MRO Test Automation Suite

- 1,000+ aviation-specific test scenarios
- Faster testing cycles and improved coverage
- Reduced implementation risk

MRO Analytics Dashboards

- 50+ operational KPIs
- Aircraft reliability, planning, inventory, procurement, vendor and maintenance performance insights

With 25+ years of MRO experience, exposure across both narrowbody and widebody aircrafts, and expertise spanning legacy platforms such as ARTOS, MEMIS, and Maxi Merlin as well as modern solutions including TRAX and AMOS, Hexaware brings deep knowledge across the MRO ecosystem.

Service Offerings

- Aviation MRO Consulting
- Application Modernization & Managed Services
- Aviation MRO Data Migration
- System Integration
- Functional & Implementation Testing
- MRO Test Automation
- Data Digitization & Business Process Services
- Analytics & Reporting Solutions

Hexaware AI-Powered Platform offerings aligned with AI world

Our proprietary platforms help accelerate transformation while reducing implementation risk.

rapidX[®]

Modern software engineering powered by Generative AI

amaze[®]

Accelerate cloud and application modernization

tensai[®]

Intelligent automation for IT operations and enterprise platform

agentverse[™]

Enterprise platform for building, deploying, governing, and scaling AI agents

Proven Aviation MRO Transformation Experience

Hexaware has successfully delivered Aviation MRO Transformation programs for leading airlines across North America, the Middle East, and Africa.

Key Success Areas

Customer	Engagement	Business Impact
Leading North American Airline	- Legacy MRO application support and modernization 24x7 application support and enhancements - System integrations - End-to-end SDLC services across complex legacy MRO applications	- Improved system reliability - Reduced operational risk - Significant cost savings - Enhanced business continuity
Leading North American Airline	- Aviation MRO Data Migration from legacy systems to a next-generation MRO platform - Automated migration tools - Reusable migration components - Phased fleet migration approach	- Up to 70% savings on subsequent fleet migrations - Improved data integrity and quality - Reduced migration risk - Minimal disruption to operations
Leading Middle East Airline	- Aviation MRO Data Migration from legacy MEMIS to a next-generation MRO platform - Designed a Big Bang 3 stage process for risk free migration - Eliminated repetitive efforts using proprietary tools - In depth Testing of new MRO platform	- Up to 30% cost savings - Robust and future ready system 10% improved operational efficiency
Leading Middle East Airline	- MRO system integration - Connected business-critical airline applications with the MRO platform - Scalable integration architecture	- Improved operational control - Seamless data exchange - Reduced manual intervention - Faster turnaround times

Why Hexaware

Deep Aviation MRO Domain Expertise

Proven Aviation MRO Consulting Capabilities

Specialized Aviation MRO Data Migration Frameworks

Industry-Focused MRO Test Automation Accelerators

AI-Powered Aviation Solutions

Compliance-Driven Delivery Model

Legacy and Modern MRO Platform Expertise

Strong Aviation Digital Transformation Track Record

Ready to modernize your MRO operations?

Transform legacy maintenance systems with AI-powered Aviation MRO Services that streamline data migration, improve operational efficiency, strengthen compliance, reduce risk, and accelerate Aviation MRO Transformation.

Contact us to start your modernization journey.

About Hexaware

Hexaware is a global technology and business process services company. Every day, Hexawarians wake up with a singular purpose: to create smiles through great people and technology. With offices across the world, we empower enterprises worldwide to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.