



Quantum Control

Year Founded
1992

Headquarters
California, USA

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[Website](#)

Summary

Your Perfect Match for Aviation & MRO Operations Quantum Control is an industry- leading ERP designed specifically for aviation, MROS, and aftermarket service providers. Built for efficiency, compliance, and scalability, it seamlessly integrates with aviation workflows to enhance operational performance, optimize inventory management, and ensure regulatory compliance.

Unique Differentiators vs. Other ERPs:

Aviation & MRO Focused: Unlike generic ERPs, Quantum Control is purpose- built for the aviation industry, ensuring seamless alignment with FAA, EASA, and global regulatory requirements.

End-to-End Solution: From quoting and procurement to maintenance, sales, and invoicing, Quantum provides a fully integrated platform to streamline operations without the need for third-party add-ons.

Industry-Leading Integrations: Quantum Control connects with key aviation platforms like AeroXchange, ILS, and Amazon FedRAMP, ensuring real-time data synchronization and maximizing business opportunities.

Next-Gen Capabilities: With AI-powered analytics, advanced business intelligence tools (MAXA, Quantum Analytics), and cloud-based scalability, Quantum is designed for the future of aviation technology.

Data-Driven Decision Making: Quantum's powerful reporting and analytics empower users with actionable insights, enabling smarter inventory control, maintenance scheduling, and financial forecasting.

ROI-Driven Efficiency: Reduce downtime, improve turnaround times, and maximize profitability with automated workflows tailored for aviation and MRO businesses.

Quantum Control delivers the tools and capabilities required to optimize operations, improve efficiency, and support business growth in the aviation and MRO sectors.

Overview

Company Profile

Company Size
2000 employees

Operating Offices
Global
Americas
Europe
Asia
Middle East
Africa

Industry Standards
GDPR

Typical Deal Size

Subscription Cost per User per Month in \$USD:
Minimum \$99
Average \$500
Maximum \$2,000

Typical Implementation Cost in \$USD:
\$50,000

Typical Implementation Timeline:
6 Months

Customer Base

Existing Customers
1,700+

AJW Group
Pilatus
Embraer
FDH
Unical
Ametek
All Clear

Typical Customer

Company Size in \$ USD:

>\$25M < \$50M USD in revenues
< 800 Employees

Geographic Regions Typically Served:

All
Americas
Europe
Asia
Middle East
Africa

Sectors Typically Served:

Commercial
Business & General Aviation
Helicopter
Military & Defense



Segments this ERP is Designed for:

Manufacturers & OEMs

Airframer
OEM
PMA

MRO

Line & Base
Engine MRO
Component MRO
Airline in-house MRO
Specialized MRO
Teardowns

Fleet Operators

Charter & Fractional Ownership
Ground Handling & Airport Services

About the Product

Hosting

Cloud-Based
On-Premise

Existing Integrations

ILS
PartsBase
Aerexchange
Stock Market.aero
SkySelect
ePlane
Quickbooks
Avalara
B2BAero
GraphQL
ODBC
Microsoft 365

Core Functional Capabilities

- ✓

COTS - Commercial Off the Shelf Solution
- ✓

Employee Training Modules
- ✓

Multi-Currency Rates
- ✓

Billing & Invoicing
- ✓

Standard Reliability
- ✓

Manufacturing Execution
- ☐

Flight Operations
- ✓

People Planning & Scheduling
- ✓

Scrap Management
- ✓

Employee Training Records Management
- ✓

Part Pooling

✓

Data Privacy Compliance

✓

Customer Management

✓

Account Payables & Receivables

✓

Contract Management

✓

Quality Management

✓

Aircraft Maintenance Heavy

✓

Component Maintenance

✓

Labor Recording

✓

Logistics Management - Goods in & Out

✓

Asset Management - Tooling & Equipment

✓

Cost-by-the-Hour (CBH) Management

- | | |
|--|---|
| <input type="checkbox"/> Fixed Pricing for Repairs | <input type="checkbox"/> Marshalling Management |
| ✓ Purchase Orders | ✓ Inventory Management |
| ✓ Vendor Quotes | ✓ RFQ/RFP Management |
| <input type="checkbox"/> AD & SB Management | <input type="checkbox"/> Flexible Solution - Custom Programming |
| ✓ Electronic Record Keeping | <input type="checkbox"/> Payroll |
| ✓ Credit Memos & Claims | ✓ General Accounting |
| ✓ RMA & Warranty Management | ✓ Customs Compliance & Exports |
| ✓ Audit & Compliance Management | ✓ Engineering - New Product Introductions |
| <input type="checkbox"/> Crew Management | ✓ e-Signoff |
| ✓ Repair Orders | ✓ Aircraft Maintenance Light |
| ✓ Task Card Management | ✓ Part Number Capabilities Management |
| ✓ Loan & Borrow | ✓ Warehouse Cycle Count |
| ✓ Tooling Calibration | ✓ Exchange Management |
| ✓ Consignment Management | ✓ Pricing Management |
| ✓ Material Planning | ✓ Sales Orders |
| ✓ Parts Kitting | ✓ Engineering & CAMO |
| ✓ Customer Quotes | ✓ Technical Publication in Order Management |
| ✓ Customer Quotes | ✓ Sales Orders |
| ✓ Technical Publication in Order Management | ✓ Engineering & CAMO |

Other Features

- | | |
|---|---|
| <input type="checkbox"/> PDF Data Extraction | <input type="checkbox"/> Standard/Routine Maintenance Tasks |
| <input type="checkbox"/> Non-Routine Tasks | <input type="checkbox"/> PDF Reader |
| <input type="checkbox"/> Data Cleansing & Standardization | ✓ In-House Software Development |
| <input type="checkbox"/> Outsourced IT & Digital | <input type="checkbox"/> Carbon Optimization Tracker |
| <input type="checkbox"/> Human Resource Management (HRM) | <input type="checkbox"/> Financial Reporting Automation |
| <input type="checkbox"/> Aircraft Fleet View | <input type="checkbox"/> Drone Inspections |
| <input type="checkbox"/> Smart Warehouse Management System (WMS) & Robotics | <input type="checkbox"/> Lead Generation |
| ✓ Customer Relationship Management (CRM) | <input type="checkbox"/> Customer Loyalty Program |
| ✓ Dynamic Pricing Model | ✓ Predictive Maintenance |
| <input type="checkbox"/> Smart Contract Management | ✓ Procurement RFP Automation (RPA) |
| <input type="checkbox"/> Procurement Risk & Resilience | <input type="checkbox"/> 3D Printing |
| <input type="checkbox"/> CAD Drawing & 3PL Software | <input type="checkbox"/> Digital Twin Technology |
| <input type="checkbox"/> Real-Time Gate Reporting | ✓ Mobile Applications |
| <input type="checkbox"/> Device Management Software | ✓ Data Analytics & Reporting |
| <input type="checkbox"/> Cybersecurity & Data Protection | <input type="checkbox"/> Leadership Development Programs |
| <input type="checkbox"/> AR/VR Training | <input type="checkbox"/> Asset Leasing Operations System |
| <input type="checkbox"/> Quality Management Software | <input type="checkbox"/> Electronic Techlog (ETL) |
| <input type="checkbox"/> RFID Asset Tracking | <input type="checkbox"/> Digital Marketing |
| <input type="checkbox"/> Global Active Fleet Tracker | ✓ Customer Service AI Agents |
| ✓ Customer Portal | <input type="checkbox"/> Blockchain for Part Traceability |
| <input type="checkbox"/> Sales & Operations Planning | <input type="checkbox"/> Outsourced Buyers - Desk |

- ☐ Supplier Relationship Management (SRM)
- ☒ Tech Pubs Revision Automation
- ☐ Outsourced Engineering Team
- ☒ Technical Records Digitization
- ☐ Digital Task Card
- ☐ Shopfloor Process Improvement Software
- ☒ Sales RFQ Automation (RPA)
- ☐ Technician CMM AI Assistant
- ☐ Outsourced ERP Selection Process
- ☐ Business Data Mapping
- ☐ ICP Scraper

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We have been struggling to performance manage our shopfloors for ages. Aero NextGen has connected us to solution providers that solved this for us within weeks. We are now capable of tracking capacity, productivity, utilization, and operational efficiency with instantaneously. The level of expertise has made the engagement seamless for our internal teams.



Kenneth Wierzba
IT and Security Director - Safran



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