

# Ramco Engine MRO Solution

Finally, a software that understands engine maintenance from start to finish.



ramco  
aviation  
software v6.0

The future of  
aviation software,  
today.



# 6 benefits.

## #1

### Purpose Built Engine MRO

- Purpose-Built Engine MRO tailored for the aviation industry
- Seamless Engine Configuration Lifecycle Management
- Simplified Workscoping and Managing Iterations
- Enhanced Work Execution Features for Complex Assembly Operations
- Robust Framework for Defining and Tracking Limits of LLP Parts
- Graphical Intuitive Hub for Marshalling and Kitting
- Comprehensive Pricing and Billing for Engine Maintenance

## #2

### Digital Value Chain

- Modern Customer Portal
- Integration with OEMs
- eForms
- Mechanic Anywhere for a Digital MRO / Airline World
- EDI Integrated in Hubs
- One-on-one Chat in Mechanic Anywhere
- Document Hub
- Shipping Carrier Integration

## #3

### Contract-to-Cash

- Enhanced Contracting and Contract Baselines with Downstream Integration
- Contract Parameters Driving Execution
- Automated Engineering Compliance and Controls
- End-to-End Automated M&E MRO Accounting
- Invoicing & Realization



## #4

### Tech Led Optimizations

- Intelligent Aviation MRP
- Production Work Order Scheduling & Optimization
- Discrepancy Clustering and Troubleshooting using AI/ML
- Auto Codification for Supplier Invoices
- Cognitive Discrepancy Reporting & Resolution
- Frequently Requested Parts

## #5

### Advanced Supply Chain

- Intelligent Aviation MRP
- Automated Procurement
- Decision Support and Review
- Digitizing Part Routing Operations
- Enhancements in Repairs, Rentals, & Warranty
- Continuously Enriching Apps for Further Efficiencies
- Extending Eco-System Integration

## #6

### Strengthened Compliance and Controls

- Advanced Control Checks in Planning & Compliance of Engineering Docs
- Task Sign-Offs with Biometrics & Geo-Fencing
- Enhanced Capability and Certification Checks for Parts and Services
- End-to-End Solution for Managing US Defense Contracts
- Trade Compliances for ITAR Parts

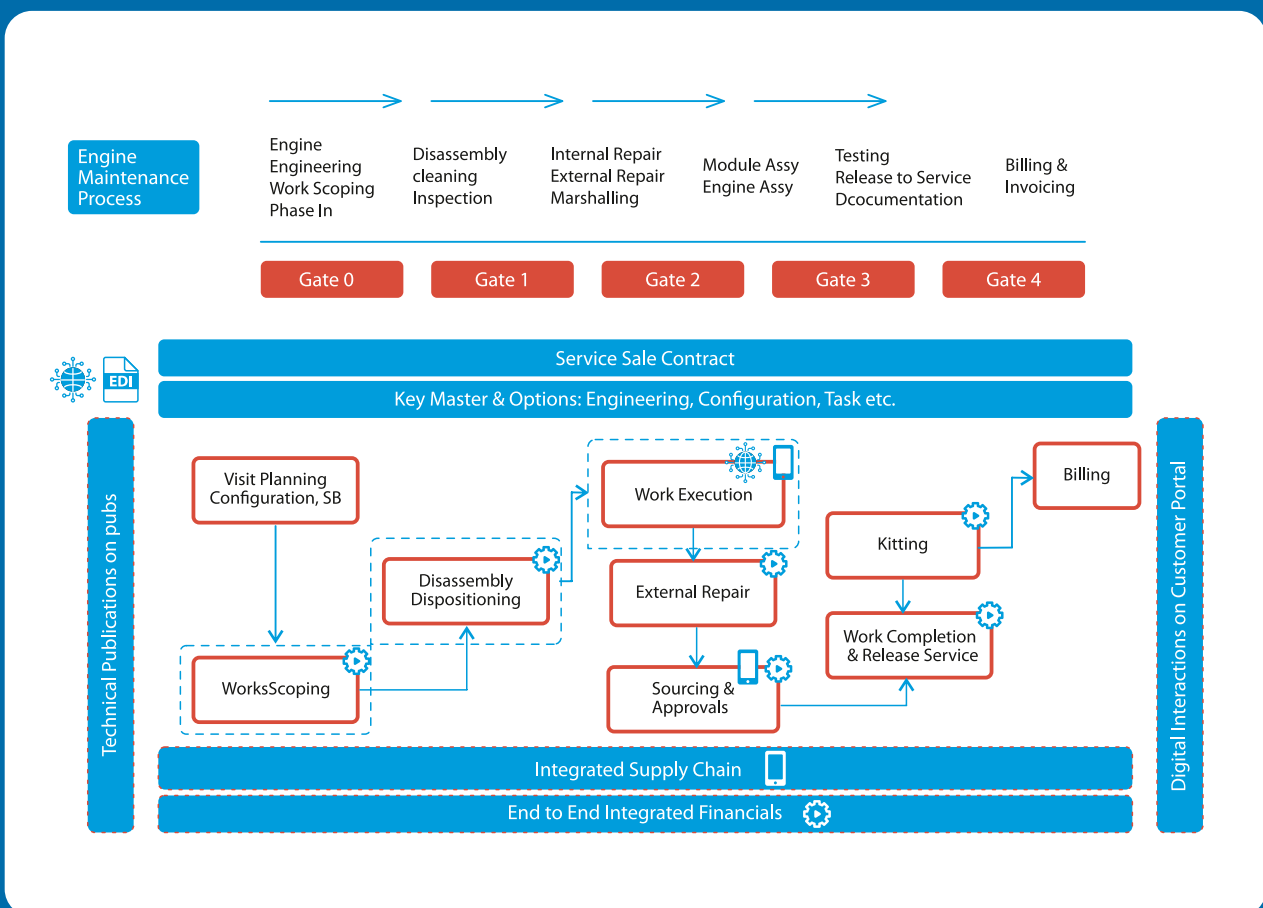
1 solution.

# Meet the industry's most advanced, end-to-end engine MRO solution.

Ramco Engine MRO Software is the industry's best purpose-built, end-to-end solution, designed to conquer the complexities of engine maintenance. From seamless configuration lifecycle management to automated billing, Ramco delivers precision and efficiency at every step.

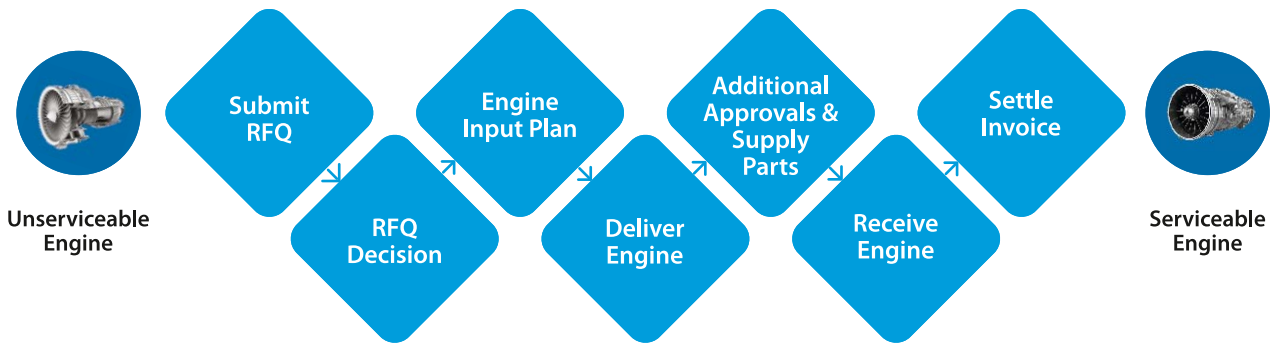
- Comprehensive Engine MRO Framework
- Automation and Digitization for Efficiency
- Integrated, Seamless Operations
- Granular Visibility & Cost Tracking

## Enhanced collaboration across entire customer journey through customer portal apps and edi interfaces

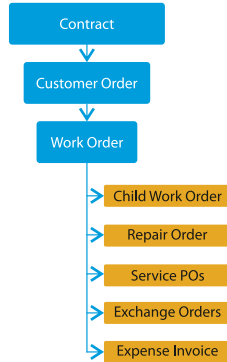


# Aircraft Engine Maintenance Process and Ramco's Value Proposition

## CUSTOMER PROCESS



Multiple Document Holders for Collection of Costs



Tracking of Actual Costs & Revenue to a Task Level

Labor Costs

- Support for Rate @Job/Skill Level

Material Costs

- Support for Multiple Valuation method
- Multiple Expensing Policies

External Services Costs

- Component & Piece Part Quote

Additional Costs posted directly

## Ramco Engine MRO Software Solution Map

Engineering & CAMO	Maintenance	Supply Chain Management		Safety Compliance & Quality	Flight Operation	Employee Records	MRO & Part Sales	Manufacturing	Finance & Accounting
Configuration Mgmt.	Line Maint.	Parts Admin.	Supplier Mgmt.	Compliance Reporting	Journey Log Entry Mgmt.	Employee Information	Customer Mgmt.	Product Data Mgmt.	General Accounting
Maintenance Program Admin	Hanger Maint.	Warehouse Mgmt.	General Procurement	Std. Reliability Analysis	Flight Charter Contracting	Certifications & Qualification	Contract Mgmt.	Planning & Scheduling	Supplier Invoicing
Technical Records	Shop Maint.	Material Planning	Repair & Exchange	Safety/ Occurrence Mgmt.	Flight Sheet Mgmt.	Training	Customer Order Mgmt.	Manufacturing Execution	Accounts Payable
SB/AD Admin.	Engine Mgmt.	Stock Mgmt.	Loan/ Borrow	Quality Audit Mgmt.	Crew Scheduling		Quote & Pricing Mgmt.	Engineering Change	MRO Invoicing
Maintenance Planning	Tool & GSE Mgmt.	Physical Inv & Cycle Counting	Configuration PBH	Adv. Reliability Analysis	EFB Central		Part Exchange & Pool Programs		Accounts Receivable
Task Card Mgmt.	Dent & Buckle	Inventory Analysis	Warranty tracking & Claims Mgmt.		Flight Contract Invoicing		Part Sale Mgmt.		Mgmt. Accounting
Library Mgmt.	Time Tracking	Scrap Mgmt.	Goods Receiving				Customer Portal		Fixed Assets
E-Publication	E-Signature	Shipping	Part Certification & Hazmat				MRO Warranty		Financial Posting Engine

Mobile Apps				Ecosystem		Hubs		Hubs	
Mechanic Anywhere	Warehouse Anywhere	Offline Mx Line Anywhere	EFB-Fly Anywhere	Aerexchange/OneAero Connector	FedEx	Tech Record Hub	Procurement Hub	AI/ML	Integration Gateway (iRS)
Approval Anywhere	Tool Anywhere	Customer Anywhere	Crew Anywhere	Technical Data Replications	OEM Data Connector	Configuration Mgmt. Hub	Inventory Hub	Dashboard Framework	MALIT
Digitization		In-Memory Planning & Optimization (IPO)		Alerts, Notifications and Action (ANA)		Configuration Mgmt.	Accounts Payable Hub	Workflow	BOTS
Digital Task Card	OCR Connector	Resource Optimization	Inventory Optimization	Smart Watch	Phone/ablet	Configuration Mgmt.	Fixed Asset Hub	Report Writer	I-Extension Development Kit

## Conquer the complexities of engine MRO. Easily.

Engine MRO is no small feat. Tight Turnaround Times, capacity constraints, and supply chain bottlenecks are just the tip of the iceberg. Ramco Engine MRO Software tackles these challenges head-on, streamlining processes and ensuring reliability.

- Manual Documentation
- Turnaround Time (TAT) Pressure
- Capacity Constraints & Supply Chain Bottlenecks
- Narrow Profit Margins
- Complex Billing Processes

## Ace the pre-induction and configuration management processes.

Ramco Engine MRO Software centralizes the pre-induction process, ensuring accurate and efficient management of every configuration aspect during engine visits. This is precision, right from the start.

- Centralized Configuration Hub
- End Lifecycle Management of an Engine Visit
- Registering Previous Engineering Compliances
- Managing Configuration Exceptions
- Dispositioning LLP Parts



## Align your entire workscoping process with everything it needs.

Ramco Engine MRO Software's automated workscoping process aligns repair schemes and task effectivities with maintenance manuals, ensuring seamless task management and integrated approvals.

- Managing Master Repair Schemes
- Complex and Iterative Workscoping
- Managing Workscope Baselines with Approvals
- Upgrades & Workscope Amendments with Impact Assessment
- Parts Replacement / Scrap Assessment & Control

## Execute with precision.

With Ramco Engine MRO Software's digital work instructions and the MechanicAnywhere app, every aspect of engine maintenance is executed with unmatched efficiency. From configuration previews to bulk part removals, every task is handled with precision.

- Mechanic Anywhere App with Digital Work Instructions
- Collaboration on Configuration Adjustments
- Bulk Actions for Part Removals
- Parts Disposition – Exchanges, Repairs, Scraps
- Machine Bottlenecks and Queuing
- Repair Routing Changes
- Employee Productivity & Exception Management\



## Streamline Kitting and Sourcing for maximum efficiency.

Ramco's Marshalling and Kitting Hub ensures timely mitigation of delays and efficient planning and clearing of assemblies. Collaborative approvals and engineering conformance are integrated into the inspection process for flawless execution.

- Marshalling and Kitting Hub
- Built-in Kitting Validations and Inspections
- Delay Tracking and Mitigation
- Collaboration Across Multiple Functions
- Tracking Parts and Delays
- Form Fit / Alternate Sourcing Options
- TAT Management
- Approvals and Exceptions

## Take the guesswork (and errors) out of billing.

Ramco Engine MRO Software takes the complexity out of billing with configurable contract pricing models. Automate billing execution, ensure accurate pricing, and accelerate revenue realization.

- Configurable Contracts for Dynamic Pricing Models
- NTE, Caps, Repair, and Scrap Limits Management
- Automated Billing and Invoicing





## Stay ahead of compliance and regulations.

Compliance is non-negotiable with Ramco Engine MRO Software. Advanced control checks are integrated throughout the engine MRO process, ensuring adherence to industry standards and regulations.

- Facial Recognition-Based Task Sign-Offs
- Capability and Certification Checks
- Task Effectivity Effects
- Enhanced Security with Facial Recognition
- Certification and Compliance Tracking

## Get every part of your business to speak the same truth.

Ramco Engine MRO Software takes the complexity out of billing with configurable contract pricing models. Automate billing execution, ensure accurate pricing, and accelerate revenue realization.

- Integrated Engine MRO Operations
- Real-Time Data and Analytics
- Granular Visibility Across Processes
- Contract Management
- Customer Portal



# Ramco Systems - Aviation, Aerospace and Defense Overview

Part of USD 1 billion Ramco group


over  
90 Customers

across  
29 Countries

24 Global offices



  
4000+ Aircraft

  
24000+ Users

Serving



MROs



Defense



Heli Ops



OEMs



Airlines



Charters



Drones

25+ years of Implementations Experience

# Ramco's Key Customers Worldwide



**KOREAN AIR**



**Panasonic**



**DRAKEN**  
International



**AIRBUS**



**TOP ACES**



**Patria**  
Helicopters AB



الإتحاد  
**ETIHAD**  
ENGINEERING



**AIA ASIA**  
Company Limited



**NETJETS**

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aviation software,  
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