

RMCI



RMCI, Inc.

Innovative technology for
aviation vehicle health &
advanced data analysis

RMCI, Inc. is a Service-Disabled Veteran-Owned Small Business in Huntsville, Alabama.

We have an agile, talented team of 20 engineers, scientists, and support personnel. Our capabilities allow us to quickly develop innovative solutions.



History

Founded in 2005, RMCI is at the forefront of aircraft vehicle health monitoring and data analysis. RMCI has a broad range of experience working with government and private industry, including 10 years of experience monitoring the condition of more than 3,000 helicopters in support of the U.S. Army. Based on our expertise in vehicle health monitoring, RMCI has developed technology and products to reduce the cost of aviation operations and improve safety. We provide unparalleled capability at a uniquely low cost and weight.

Core Competencies

- RMCI's data analysis techniques reduce the time and effort needed to collect and interpret data, while maintaining accuracy and performance.
- We provide leading diagnostics and health monitoring of dynamic mechanical systems.
- We can support a variety of platforms through design, instrumentation, and data analysis.
- We provide advanced statistical analysis of data to measure program success through the design, development, and evaluation of operating metrics.

Differentiators

- Agile, multi-disciplined team with a unique ability to quickly and responsively address a wide variety of technical challenges
- Broad base of experience analyzing HUMS data from multiple vendor systems in support of the U.S. Army's helicopter fleet



Products

XRDS

XRDS™ is RMCI's Expandable Rotorcraft Diagnostic System, an embedded system for rotorcraft vehicle health management and flight data recording.

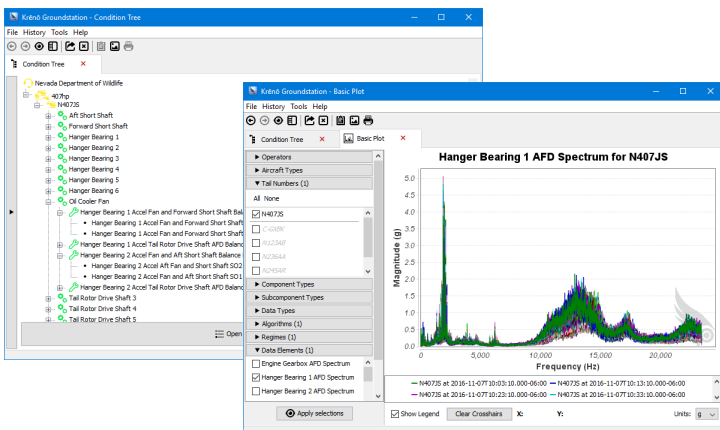
- Fully integrated, lightweight, low-power, low-cost, single system solution
- Enables FOQA, vibration health monitoring, flight data monitoring, and rotor smoothing
- Monitors gearboxes, bearings, shafts, engines and rotor systems



Krēnō

Krēnō™ is RMCI's software system for displaying, analyzing, and managing health monitoring and flight operations data in a user-friendly form.

- Supports decisions for fleet management, mission planning, maintenance, and engineering
- Features include streamlined interface, cloud and local databases, universal accessibility, automatic backups, third-party data support, and automatic notifications

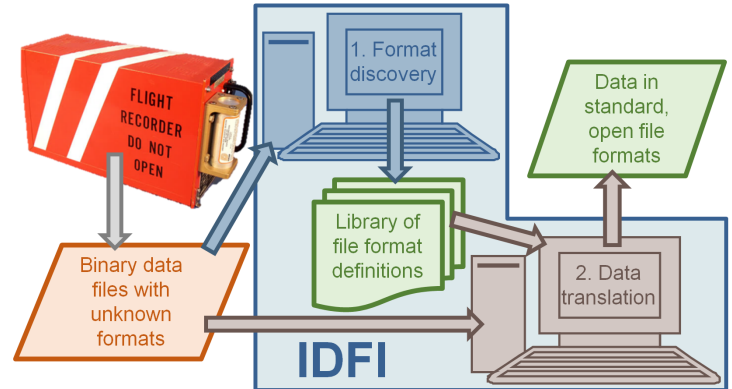


Services

- Expert vibration analysis, diagnostic analysis, and health monitoring for a wide range of dynamic systems.
- Flight data analysis for operational monitoring and improvement.
- Custom hardware and software development for measurement, diagnostics, and data analysis.
- Modernization, updates, and maintenance of aerospace standards, handbooks, and manuals for both DoD and commercial industry

Research & Development

- RMCI has developed our IDFI™ technology under a Navy SBIR to perform binary file format discovery and translation.



- RMCI is conducting research in advanced vibration analysis and development of algorithms for diagnostics and prognostics. These efforts have yielded cutting-edge techniques that are more effective than legacy approaches.



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Customers

***NAVAIR**: SBIR Phase I & II for Universal Decoder for Airborne Generated Data

U.S. Army, Coast Guard, Air Force: Direct engineering support with a focus on Condition Based Maintenance

***Aerospace Industries Association**: Maintenance and updates for National Aerospace Standards

***Civil helicopter operators**: Sales and installation of XRDS with supporting data analysis

***NASA**: Custom data processing and analysis software for test stand

***Department of Energy**: SBIR Phase I for Health Management for Marine Power

***WheelTug**: Develop and supply sensor modules for airliner system

* Prime contracts

Contract Vehicles

- AMCOM EXPRESS BPA
- D3I Domain 1
- OASIS
- U.S. Army Logistics Support Facility contract
- Navy SBIR Phase II

Contact

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