



Rexnord Innovation Center Services Overview

- Independent, ISO/IEC 17025:2005, A2LA accredited test and analysis laboratory
- More than 40 years of product testing and application expertise
- Experience in mechanical, materials, chemical and metallurgical engineering
- Component testing
- Product performance test to industry standards
- State-of-the-art equipment and processes
- Failure & metallurgical analysis

Aerospace Testing Applications Include:

- Landing gear components
- Flight control surface bearings
- Track roller bearings
- Vibration testing of electronic components per RCTA DO-160E
- Environmental chamber testing of various airframe components
- Flight spectrum simulation testing

Contact one of our experts to schedule a complimentary consultation and learn more about our capabilities.

Contact Information

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Rexnord Innovation Center Aerospace Overview

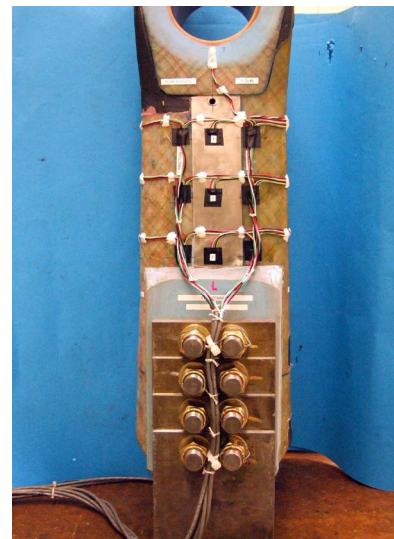
At the Rexnord Innovation Center, we want to ensure that your test programs run smoothly. With over 40 years of aerospace component testing experience, we know what it takes to qualify parts under the stringent requirements needed for approval.

The design and fabrication of tooling and fixtures is done on site, which shortens the time to test, reduces project costs, and allows for rapid modifications or repairs. Our facility is ITAR compliant and all test articles and documents are held secure.

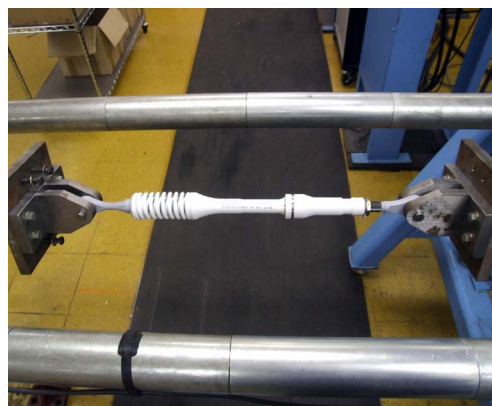
Fatigue Test of a Drag Brace



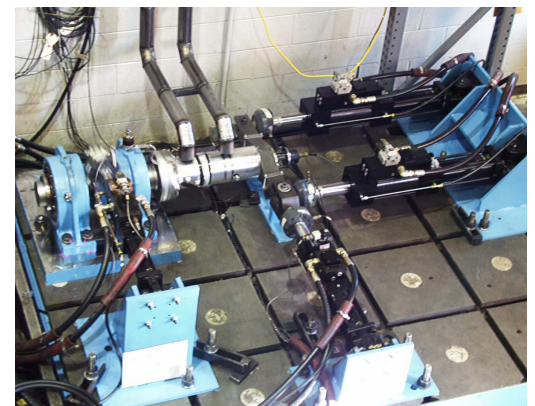
Helicopter Rotor Blade Strain Gauging



Component Qualification Testing



Custom Built Multi-Axis Endurance Test Rig

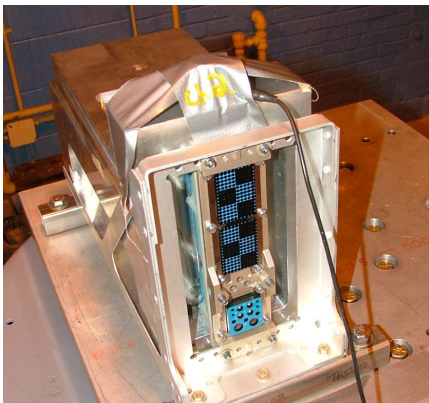




Flight Spectrum Simulation

Five testers capable of applying constant, variable or programmed sequences of load and motion are available at the Innovation Center facility. Push-pull loading up to 100kips can be accommodated with oscillation angles varying from 1° to 60° within temperature ranges from -50° to 1,000°F.

These testers can perform complex load motion spectra for qualification testing of components and to simulate actual 'in service' conditions.



Vibration Testing of In-Flight Electronic Entertainment Modules

The Innovation Center has five electro-dynamic shakers, each capable of generating up to 6,000 lbf. Random, 'shock and drop' and wind milling tests are typical. We can also perform 'at altitude' tests in the environmental chamber while the shaker is running.



Metallurgical/Failure Analysis of a Rod End Bearing Housing

The Innovation Center routinely examines aircraft components to determine the root cause of the failure. Sometimes the metallurgy is suspect, other times we may uncover a manufacturing defect which caused a mechanical notch.

This type of work can be performed in conjunction with a test program, or as a stand alone project.