Testing, Analysis & Engineering Services

As an independent, accredited laboratory, the Rexnord Innovation Center specializes in technology-driven product development and process validation. Our Rexnord Technical Services (RTS®) offering includes confidential testing, analysis and engineering services that customers across a broad range of industries have relied on for more than 30 years.

Our highly-skilled engineers, technicians and scientists have a broad range of experience in the fields of mechanical, chemical, metallurgical and materials engineering. Our team of industry experts uses innovative processes and state-of-the-art equipment to research, design, prototype, test and develop new and improved products.

**Components Expertise**
- Chains
- Couplings
- Gearboxes
- Valves
- Crankshafts
- Connecting Rods
- Airframe Control Bearings
- Other Industrial Components

**Industries Served**
- Aerospace
- Automotive
- Energy
- Food & Beverage
- Mining
- Water Management
- Transportation & Shipping
- Manufacturing

**Capabilities**
- Mechanical Testing - Load Fatigue & Durability, Shock & Vibration, Strength of Materials
- Material Analysis - Metallic, Polymer & Composite Material Analysis, Metrology & Precision Measurements, Environmental/Accelerated Aging

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

**Contact Information**
Rexnord Innovation Center
5101 West Beloit Road
Milwaukee, WI 53214

P 414.643.3067
F 414.643.3200

www.rexnord.com/InnovationCenter
Innovationcenter@rexnord.com

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with the laboratory’s terms of accreditation unless stated otherwise in this report.
Mechanical Testing
Our mechanical engineering services include load fatigue and durability, shock and vibration testing, strength of materials and reliability analysis. We use classical methods of statics, dynamics, thermodynamics, fluid mechanics, as well as experimental and computational tools to understand components and systems. Our test and analysis laboratory is equipped with load frames, servo-hydraulic actuators and controls, open architecture test beds, environmental chambers, electrodynamic shakers, and other state-of-the-art equipment to meet your test requirements.

Material Analysis
Material analysis applications range from research and development of new materials for new products and applications to continuous improvement and corrective action through forensic engineering and failure analysis. The Rexnord Innovation Center has a long history of providing metallurgical services for ferrous and non-ferrous materials, alloy steels, polymers, and composites.

Additionally, our Scanning Electron Microscope (SEM) allows our analysts to not only take a closer look at the problem areas by examining the fracture surface, but also the local composition through Energy Dispersive Spectroscopy (EDS).

Engineering Services
Our engineering services include on-site testing and analysis, custom test fixtures, competitive product evaluation, design and structures engineering, and litigation support.

The on-site testing and analysis services bring the science to your site. Our experts will travel to your location to understand and observe your unique situation, acquire and evaluate data and implement improvements. We have performed on-site testing and analysis around the world including locations with extreme cold, heat and humidity.

We have the ability to design and fabricate custom test fixtures to meet specifications or to simulate service environments.

In addition, we also offer unbiased, competitive product evaluation services. Our design and structure engineers can work independently or as part of your team to provide design ideas.

Our highly qualified, licensed engineers and PhD level scientists can be at your side to serve as expert witnesses, if litigation support is needed.