



STRESS AEROSPACE AND DEFENSE, LLC

a STRESS ENGINEERING SERVICES company

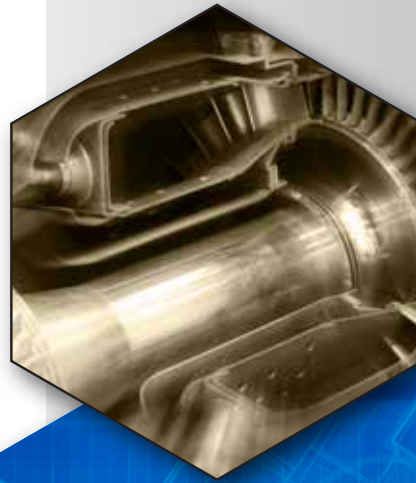
DESIGN • TESTING • ANALYSIS

The aerospace and defense industries employ advanced equipment and cutting-edge technology. It is vital that devices and structures in these demanding applications perform as expected. Our comprehensive testing services help verify these high-profile components every day. The highly skilled engineers and technicians at our multiple locations bring decades of expertise to each project, ensuring accurate and reliable results.

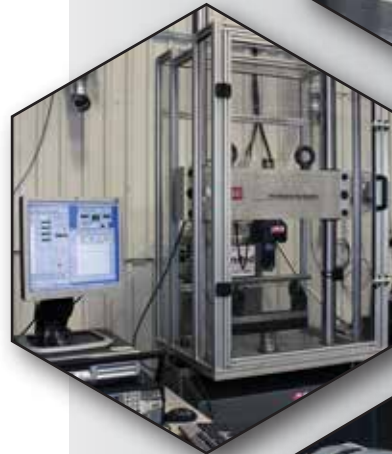
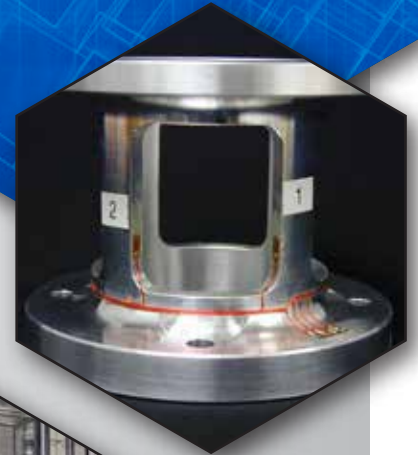
We leverage advanced testing equipment to simulate real-world conditions to assess mechanical performance. Our state-of-the-art facilities boast a diverse array of testing capabilities for materials, components, and full-scale structures. We conduct a wide range of tests incorporating all possible combinations of tension, compression, bending, torque, articulation, fatigue, impact, temperature, pressure, flow, noise, and vibration.

In addition, we have the expertise to design custom tests to your specifications, or work with you to develop those specifications. We utilize our in-house design, analysis and metallurgy capabilities to help you discover and solve potential problems. We can also perform or monitor tests at a location of your choice, or we can help you design, build and calibrate test equipment of your own.

Always at technology's leading edge, Stress Aerospace and Defense sets the standard in technical excellence by providing the aerospace and defense industries with the right answers - on time.



Aerospace and Defense Testing Capabilities



Custom Load Frame Design and Build
Controls and Data Acquisition Systems
In-house or On-site Testing Available



Composite Testing
Stewart Table Testing
Electronics Reliability Testing
**Electromagnetic Interference
(EMI) Testing**



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Test and Structural Monitoring

- Strain Gages
 - Installation at Our Facility or On-site
 - Wired or Wireless Monitoring
 - Analysis
- Digital Image Correlation System
 - Optical Measurement of Surface Strains and Displacements
- Acoustic Emissions Monitoring
- Metallurgical Laboratory with Optical Microscopy and SEM

Structural Testing

- Tension, Compression, Bending and Shear Loading
 - Combined and Multi-Axial Load Conditions
 - Static and Dynamic
- Axial and Multi-Axial Fatigue
- Vibration, Impact and Shock
- Bolt and Fastener Testing
- Custom Test Setups and Hardware
- Bearing Wear and Friction Testing

Environmental Testing

- Cryogenic and Elevated Temperatures
- Harsh Environments
 - Humidity, Salt Fog, Flammability, and Corrosive Fluids
- Thermal Cycling
- Fluid Susceptibility and Icing
- Sand and Dust Testing
- Standard Tests: DO-160, MIL STD 810, etc.

Pressure Testing

- Gas and Fluid Pressure Testing
- Rapid Decompression
- Internal Pressures up to 60,000 psi
- External Pressure from Below Atmospheric (vacuum) to 30,000 psi
- Cyclic and Burst Testing
- Pressure Vessel Design and Testing

Sensor Calibration

- NIST Traceable Load Cell Calibrations
- Pressure and Displacement Transducers
- Electronic and Specialty Test Equipment