

About Mechanical Solutions, Inc.

Mechanical Solutions, Inc. has the unique capabilities and advanced tools required to solve today's difficult engineering problems. The MSI staff has experience analyzing all types of mechanical components including biomechanical, surface-mount electronics, and armaments, as well as turbomachinery and reciprocating equipment such as pumps, compressors, gas turbines, steam turbines, industrial fans, spark ignition engines and diesels. Whether you're in the design stage or are having problems with installed equipment, MSI provides solutions to aide you in solving your problems.

Industries Served:

- Aerospace
- Biomedical
- Defense
- Electronic
- Military
- Rotating Machinery
- Static Structure

MSI provides you with internationally best-in-class service and value, by delivering practical and effective solutions rather than simply analysis and test results. Our primary goals are to determine practical and effective solutions for you, our customer, by delivering results within or under your budget, on time or ahead of schedule, while maintaining an open and supportive relationship with you.

Analysis:

- Computational Fluid Dynamics (CFD)
- Finite Element Analysis (FEA)
- Model Analysis
- Rotordynamic
- Tribological Component Analysis

Field Testing & Troubleshooting:

- Extreme Environment Testing
- Modal Testing
- Vibration and Noise Testing

Other Engineering Capabilities:

- 3D Solids, CAD & Meshing
- Test Loops & Rigs
- Lubrication Engineering
- Predictive Maintenance
- Condition Monitoring
- Training Courses
- Software

MSI is a member or past member of the following Societies and Standards Organizations:

- Chair of ASME Predictive Maintenance Technology Committee
- Chair (past) of STLE Oil Monitoring Analysis Committee
- Chair of STLE Seal Technical Committee
- Chairman of Society for Machinery Failure Prevention Technology (MFPT) association
- Corporate Member of National Defense Industrial Association ([NDIA](#))
- Member of ASME Fans Standards Committee
- Member of ASTM Fatigue & Wear Standards Committees
- Member of ISO Machinery Vibration & Noise Diagnostics Committee
- Society of Tribologists & Lubrication Engineers ([STLE](#)) – “Friction and Wear” - two past presidents

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