

Spacecraft

- Vacuum-compatible soft suspension systems for ground testing of large spacecraft structures
- Vibration isolation system design for earth-observing sensors
- Passive damping of components on spacecraft and launch vehicles
- Vibration dampers for Hubble Space Telescope solar arrays
- Modeling of structural dynamics and control system for solar power structure

Space Launch

- Whole-spacecraft vibration isolation systems for expendable launch vehicles (ELVs)
- Passive vibration isolation system using eddy current damping for Hubble servicing missions
- Thermally conductive isolation systems for launch vehicle components
- Secondary payload adapters for ELVs.

Aircraft

- Development of an advanced vibration isolation system for airborne optics applications
- JSF angle-of-attack probe damper
- Vibration isolation systems for advanced sensors
- Passive and active vibration suppression on the F/A-18 vertical tail
- Development of devices for UAV control surface actuation
- Particle damping for high-temperature and rotating environments
- High frequency motion simulator for missile seekers
- Active damping for fin structures

Semiconductor Manufacturing

- Testing services for troubleshooting and mitigation of vibration and related problems
- Vibration suppression and analysis of wafer processing equipment
- Acoustic enclosure for precision manufacturing equipment
- Microprecision vibration isolation workstation for wafer test and inspection
- Custom control subsystems for wafer and device processing

Other Industries

- Noise suppression measures for an implantable mechanical medical device
- Viscous tuned-mass dampers for mining equipment
- Active suppression system for automotive vibration
- Test and characterization of sporting goods
- Magnetorheological (MR) devices for vehicle applications
- Vibration control for large power generations

Product and Technology Department

- Large payload pneumatic/electromagnetic low-frequency suspension and isolation systems
- Hybrid smart material/hydraulic actuators
- Tuned-mass dampers using passive magnetic, viscous, and viscoelastic damping technologies
- DSP- and microcontroller-based embedded control hardware and software
- Magnetorheological (MR) devices for motion management
- Hexapod-based flight motion simulators

Partial Customer List

Aerojet	Engineering Design Optimization, Inc.	NASA/Langley Research Center
Air Force Armament Laboratory	Exxon Enterprises	NASA/Marshall Space Flight Center
Air Force Flight Dynamics Laboratory	Fairchild Space	National Reconnaissance Office
Air Force Materials Laboratory	Ford Aerospace	National Science Foundation
Air Force Office of Scientific Research	Ford Motor Co.	Naval Air Warfare Center
Air Force Phillips Laboratory	General Electric	Naval Air Systems Command
Air Force Research Laboratory	General Dynamics	Naval Postgraduate School
Allied-Signal Aerospace Company	Goodrich Corp.	Naval Surface Warfare Center
Ametek Dynamics	Harris Corp.	Newport Corp.
Analog Devices	Hercules	NexStar Automation
Applied Aerospace Structures Corp.	Honeywell, Inc.	NextGen Aeronautics
Applied Komatsu	Hughes	Nike, Inc.
Applied Materials	Hutchinson	Northrop-Grumman
Applied Technology Associates	IBM	Obsidian
Archive Corp.	Innovative Devices	Orbital Sciences
Army Aviation	Integrated Micromachines	Office of Naval Research
Army Space & Strategic Defense Command	Intel Corp.	Oxide Electronics Tech.
Arnold Engineering Development Center	Island Pyrochemical Industries	Rocketdyne
ATK	Itek Optical Systems	Roush Anatrol
Avantek, Inc.	ITT Industries	Sandia National Laboratory
Avery Dennison	Jackson and Tull	Schafer Corp.
BASF Corp.	Jet Propulsion Laboratory	Science Applications International Corp.
Baker Hughes	K2 Co.	Space Sciences Laboratory
Ball Aerospace	Kaptron, Inc.	Spar Aerospace Limited
Ballistic Missile Defense Organization	Kenetech Windpower	Sparta, Inc.
Baxter Healthcare Corp.	KLA/Tencor	State of California
BMW	L3 Communications	Stirling Dynamics, Ltd.
Boeing Aerospace Co.	Lawrence Livermore National Laboratory	Technology Applications
Boeing North America	Lockheed Martin	Toshiba America MRI
Boeing Satellite Systems	Lockheed Skunk Works	Trinity Flywheel Power
Boeing-SVS	Lord Corp.	TruSi Technologies
Bridgestone-Firestone	Los Alamos National Laboratory	TRW
California Institute of Technology	LTV Aerospace and Defense Co.	Ultratech Stepper, Inc.
Composite Optics Inc.	MacNeal-Schwendler Corp.	United Technologies
CoorsTek	Manitoba Research Council	University of California
Create Inc.	Martin Marietta Aerospace	University of Dayton Research Institute
Daimler-Benz	Mascotech Automotive Systems Group	University of Kentucky
DARPA	McDonnell Douglas Corp.	University of New Mexico
Department of Transportation	Metro Laser	Varian Associates, Inc.
Dynacs	Microscience International Corp.	Warner Lambert
Earthwatch, Inc.	Missile Defense Agency	Watkins-Johnson Company
Eastman Kodak Co.	NASA/Ames Research Center	Western Digital
Eaton Corp.	NASA/Dryden	Westinghouse Electric Corp.
EIMCO	NASA/Glenn Research Center	Xerox Corp.
Engineered Plastics Design	NASA/Goddard Space Flight Center	Zygo Corp.