

AIRCRAFT AND AEROSPACE INDUSTRIES

Aerospatiale	France	Commercial Aircraft GVT
Agusta	Italy	Helicopter gear box testing
Aircraft Braking Systems Corporation	USA	Aircraft anti-skid braking system evaluation
Allied Signal - Aircraft Landing Systems	USA	Braking system dynamic model verification
Ball Aerospace Corporation	USA	Braking system dynamic evaluation
Boeing Aerospace	USA	Military aircraft ground vibration testing
Boeing Shared Services Group	USA	Machine tool chatter and stability studies
Boeing Vertol	USA	Helicopter active damper testing
British Aerospace	England	Missile system dynamic testing
General Electric - Evendale	USA	Aircraft engine turbine blade fatigue testing
Goodyear Aerospace Corporation	USA	Aircraft braking system dynamic evaluation
Martin Marietta	USA	Missile system dynamic load testing
MBB	Germany	Airframe dynamic evaluation
MBB Helicopter of Canada, Ltd.	Canada	Helicopter rotor dynamic studies
Pratt & Whitney	USA	Turbine engine bearing evaluation
Rockwell International	USA	Missile delivery system GVT
Solar Turbines Incorporated	USA	Turbine engine bearing evaluation

AUTOMOTIVE

A.O. Smith Corporation	USA	Automotive frame modal analysis
B.F. Goodrich	USA	Truck tire dynamic testing
Bayrische Motoren Werke	Germany	Vehicle Noise/ Vibration/ Harshness testing
Blue Bird Body Company	USA	School bus dynamic response studies
Borg Warner Automotive	USA	Anti-lock brake dynamic testing
Bridgestone Tires	Japan	Automotive tire noise reduction
Bridgestone/ Firestone, Inc.	USA	Vehicle tire tread vibration comparisons
British Leyland	England	Vehicle Noise/ Vibration/ Harshness testing
Changchung Automotive Research Institute	China	Linear and Torsional drive train NVH studies
Fiat	Italy	Modal Model damping correlation studies
Ford Motor Company	Australia	Automotive Noise/ Vibration/ Harshness
Ford Motor Company	England	Automotive Noise/ Vibration/ Harshness
Ford Motor Company	Germany	Automotive Noise/ Vibration/ Harshness
Ford Motor Company	USA	Automotive Noise/ Vibration/ Harshness
Freightliner Test Center	USA	Truck cab vibration isolation studies
G.M. Powertrain Division	USA	Truck transmission dynamics testing
General Motors Corporation	England	Automotive Noise/ Vibration/ Harshness
General Motors Corporation	USA	Advanced manufacturing research
General Motors - Cadillac Division	USA	Automotive Noise/ Vibration/ Harshness
General Motors - Milford Proving Grounds	USA	Dual channel Noise/ Vibration/ Harshness

General Motors - Milford Proving Grounds	USA	Torsional drive train Noise/ Vibration
General Motors Corporation - Opel	Germany	Advanced manufacturing research
GKN	England	Automotive axle torsional dynamics testing
Goodyear Tire & Rubber	USA	Tire Noise/ Vibration testing
Hankook Tire	USA	Tire modal characterization
Harley Davidson Motor Company	USA	Three channel motorcycle ride simulation
Hino Motors	Japan	Truck Noise/ Vibration/ Harshness
Honda Motors Corporation	USA	Vehicle Noise/ Vibration/ Harshness testing
Honda Motors	Japan	Gasoline engine torsional dynamics
Isuzu Motors	Japan	Vehicle Noise/ Vibration/ Harshness testing
Kenworth Truck Company	USA	Truck frame modal correlation
Kia Motors	Korea	Automotive Noise/ Vibration/ Harshness
Kochi	Japan	Automotive component testing
Mazda	Japan	Vehicle noise reduction
Millbrook Proving Ground, Ltd.	England	Automotive component testing
Mitsubishi Motors	Japan	Truck engine mount testing
Nissan Diesel	Japan	Diesel engine torsional dynamics and damping studies
Nissan	Japan	Truck Noise/ Vibration/ Harshness
NKK	Japan	Automotive component testing
SAGA - Pirelli Tires	Italy	Diesel engine torsional damper testing
Peterbilt Motors Company	USA	Truck frame modal correlation
Suzuki	Japan	Motorcycle vibration reduction
Toyota	Japan	Automotive Noise/ Vibration/ Harshness
Volkswagen	Germany	Exhaust system fatigue studies
Yamaha	Japan	Motorcycle vibration reduction

CONSULTANTS AND TEST LABORATORIES

CSA Engineering	USA	Satellite vibration testing
CSA Engineering	USA	Three channel high frequency motion simulator
Datasyst Engineering and Testing Services	USA	Construction equipment load testing
Delta Acoustics	Denmark	Torsion excitation of wind turbines
Det Norske Veritas	Norway	Offshore platform vibration testing
Good Samaritan Hospital	USA	Building vibration isolation testing
International Technegroup, Inc.	USA	Industrial vibration consulting
Manitoba Research Council	Canada	Power generation consulting projects
Manta Corporation	USA	Off road vehicle vibration testing
Materials Characterization Laboratory	USA	Jet engine ceramic bearing wear studies
National Engineering Laboratories	England	Vibration qualification studies
National Institute of Standards & Technology	USA	Residential dwelling earthquakes studies
Ontario Research Foundation	Canada	Oil exploration equipment evaluation
Rush Engineering	USA	General industrial vibration consulting
Sandia National Laboratories	USA	Nuclear system dynamic testing
SDRC	England	Automotive suspension test consulting
SDRC	USA	Steel mill ventilation fan testing
SES Technical, Inc.	USA	Trouble shooting of steel mill vibration problems
Southwest Research Institute	USA	Oil field structural evaluations
Toronto General Hospital	Canada	Human ear response to rotational motion
U.S. Army Corps of Engineers	USA	Minuteman missile silo nuclear near miss studies

Yard Ltd., Consulting Engineers	Scotland	Submarine structure borne noise evaluation
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DEFENSE INDUSTRY

Agency for Defense Development	Korea	Classified
AMTE	England	Military vehicle dynamic studies
FMC Corporation, Ordnance Division Engineering	USA	Ordnance systems vibration isolation
Hamilton Standard Division of United Technologies	USA	Satellite active vibration isolation studies
Naval Construction Research	England	Ship hull modal studies
Naval Engineering Test Establishment	Canada	Weapon systems modal characterization
Naval Underwater Systems Center	USA	Submarine structure borne noise isolation systems
Naval Weapons Center	USA	Torpedo vibration characterization
U.S. Army Corpus Christi Army Depot	USA	Army ordnance delivery system vibration testing

MACHINE TOOLS

Bryant Grinder	USA	Chatter evaluation of grinding machines
China National Machinery & Equipment Corp.	China	Dynamic studies of aerospace composites
Cincinnati Milacron	USA	Chatter troubleshooting of milling machines
Ingersol Milling Machine	USA	Dynamic load simulation of vertical mills
Pratt & Whitney	USA	Cutting tool chatter correlation with machine dynamics
The Geason Works	USA	Dynamic investigations into gear tooth cutting chatter
Warner & Swasey Company	USA	Chatter studies in vertical boring mills
White Sundstrand	USA	Chatter excitation of turning mills

OFF ROAD AND CONSTRUCTION EQUIPMENT

Caterpillar Technology Center	USA	Vehicle simulation correlation studies
Fiat Allis	Italy	Roll over structure dynamic testing
Fiat Allis	USA	Structure borne noise simulation
International Harvester	USA	Combine vehicle dynamics
J.I. Case	USA	Tractor modal excitation
John Deere	USA	Tractor suspension simulation
John Deere Technical Center	USA	Component testing and simulation
Komatsu	Japan	Bulldozer steering vibration evaluation

POWER GENERATION EQUIPMENT

Atomic Energy of Canada	Canada	Inertial mass excitation of generators
Babcock & Wilcox	USA	Steam piping dynamics troubleshooting
Detroit Edison	USA	Foundation and bearing pad modal studies
Electricite de France	France	Four channel modal excitation of turbine foundations
GE Knolls Atomic Power Laboratory	USA	Modal analysis of recirculating pumps
General Electric Power Systems	USA	Continuous torsional excitation of turbine rotors
Hitachi	Japan	Inertial mass excitation of turbines and generators
KWU	Germany	Excitation of power plant piping systems
Mcgraw Edison	USA	Modal studies of gear reduction systems
Mitsubishi Electric	Japan	Modal analysis of turbine rotors
Ontario Hydro	Canada	Inertial excitation of dams and switch gear foundations
Pacific Gas and Electric Company	USA	Generating plant auxiliary equipment trouble shooting

Prairie Island Nuclear Generating Plant	USA	Bearing pedestal dynamic studies
South Africa Power Authority	South Africa	Inertial excitation of foundations and bearing pads
Tennessee Valley Authority	USA	Modal evaluation of power distribution towers
Toshiba	Japan	Torsional excitation of turbine rotors
Turbo Research	USA	Troubleshooting in power plants
Westinghouse Electric Corporation	USA	Continuous rotational excitation of turbine rotors
Wisconsin Electric Power Company	USA	Vibrational cleaning of slag deposits on heat exchangers

PROCESS AND INDUSTRIAL PRODUCT INDUSTRIES

AGIP	Italy	Oil field equipment structural evaluation
Bailey Controls Company	USA	Industrial control equipment vibration screening
Beloit Corporation	Italy	Paper machine vibration damping systems
Beloit Corporation	Poland	Paper machine vibration damping systems
Beloit Corporation	USA	Diesel engine noise and vibration control
Bendix - Industrial Group, Warner & Swasey	USA	Industrial gear box gear noise studies
Conoco, Inc.	USA	Petroleum process vibration trouble shooting
Defiance - Noise & Vibration	USA	Industrial vibration reduction
e.i. Dupont de Nemours & Co., Inc.	USA	Chemical plant piping vibration studies
Erving Paper	USA	Paper machine vibration damping systems
ITT Grinnell Corporation	USA	Industrial valve vibration and fatigue studies
Kusters	Germany	Paper machine vibration damping systems
Lucky Goldstar Industrial Systems Co.	Korea	Process machinery vibration control
Mitsubishi Heavy Industries	Japan	Heavy industrial equipment modal analysis
Nuovo Pignone	Italy	Industrial gear box gear noise studies
Pacific Pumps Division	USA	Industrial pumping systems vibration analysis
Phoenix Products	USA	Offshore platform lighting systems vibration screening
Reliance Electric Company	USA	Electric motor dynamics
The Procter & Gamble Paper Products Company	Canada	Paper machine vibration damping systems
The Procter & Gamble Paper Products Company	Italy	Paper machine vibration damping systems
The Procter & Gamble Paper Products Company	USA	Paper machine vibration damping systems
Timken Company	USA	Roller bearing non-linear loading studies
Valmet-Karlstad AB	Sweden	Paper machine and food processing vibration damping
Whirlpool Corporation	USA	Appliance vibration control studies

RAILROAD EQUIPMENT

Association of American Railroads	USA	Development of dynamic models of rail cars
British Rail	England	Modal analysis of rolling stock
General Motors Corporation	USA	Vibration and noise reduction of diesel locomotives
Pullman Standard	USA	Ride quality studies of suspension systems

SHIPBUILDING INDUSTRIES

Japan Shipbuilding	Japan	Hull dynamics correlation studies
Mitsui Shipbuilding	Japan	Underwater inertial excitation of ship propellers
Sumitomo Shipbuilding	Japan	Superstructure inertial excitation

STEEL INDUSTRIES

British Steel Plc.	England	Rolling mill torsional dynamics troubleshooting
Kobe Steel	Japan	Steel handling machinery dynamic studies
U.S. Steel	USA	Cold rolling mill vibration reduction

UNIVERSITIES AND RESEARCH INSTITUTES

Chuoh University	Japan	Machine tool dynamics research
Dartmund University	Germany	Automotive suspension simulation
Eindhoven Technical High School	Netherlands	Tool chatter research
Georgia Institute of Technology	USA	Helicopter bearing load simulation
Katholieke Universiteit Leuven	Belgium	Machine tool chatter research
Korea Standards Research Institute	Korea	Industrial vibration reduction research
Lehigh University	USA	Power transmission structures and equipment
Mechanical Engineering Research Laboratory	Japan	Aircraft bearing dynamic loading
Michigan Tech	USA	Automotive suspension dynamics and damping simulation
Ohkuma	Japan	Machine tool research
Purdue University	USA	Machine tool chatter research
Rijksuniversiteit Groningen	Netherlands	General modal analysis research
Southeastern University	China	Inertial excitation of turbine bearings
Tennessee Technological University	USA	Bearing dynamics
Texas A&M University	USA	Jet engine bearing dynamics
Tjing Ling Industrial Research Institute	Taiwan	Power generation equipment
University of Cincinnati	USA	Machine tool troubleshooting and dynamics education
University of Dayton	USA	Automotive braking systems research
University of Manchester	England	Machine tool research
University of Saskatchewan	Canada	Oil exploration vehicle dynamics
University of Sheffield	England	Machine tool chatter research
University of Southampton	England	Industrial vibration reduction research
University of Wisconsin	USA	Power distribution equipment dynamics