



DAVALL
An MTI Company

MTI's Davall Gears is a world-renowned precision gear, gearbox, and universal joint designer and manufacturer for demanding aerospace, defense, medical, and industrial custom applications.



- > Gears
 - High Precision
 - Custom
 - Helical
- Aerospace
- Internal
- Miniature
- > Bevel/Spiral
- > Spiradrives
- > Universal Joints
- > Torque Tubes
- > Custom Gearboxes

TORQUE SYSTEMS
An MTI Company

MTI's Torque Systems specializes in the design and manufacture of high-performance servo motors and integrated assemblies. With performance characteristics such as fast response with accurate control, high torque to inertia, full range speed, and smaller package size, these products can be used in a wide variety of industries. These motion control and automation solutions are also recognized as providing high-efficiency, application flexibility, and long, reliable service life.

PST
An MTI Company

MTI's PST is a custom thread forming manufacturer that specializes in engineering, manufacturing, and repairs. With over 60 years of expertise, PST has a reputation for providing high-quality solutions (parts and services) to technical and business concerns.



- > AC Motors BLDC
- > AC Induction Motors
- > DC Motors BDC/BLDC
- > Legacy Servo Motors
- > Direct Drive Sets
- > Custom Windings
- > Custom Electromechanical Assemblies

- > Custom Solutions
 - Ball Screw Assemblies
 - Acme Screws
 - Actuator Ball Screws
- Rolled Worms
- Threaded Rods
- Custom Ball Nuts
- > Services & Capabilities
 - Thread Forming
 - Thread Grinding
 - Heat Treating
 - Design Optimization
 - Repairs & Rebuilds



MTI
A STEEL PARTNERS COMPANY

8201 109th Street, Suite 500
Pleasant Prairie, WI 53158
262.764.6495
www.MTIemotion.com



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Customized Motion Control Solutions
for the World's Most Demanding Applications



THE FUTURE IN MOTION



AEROSPACE/SPACE

MTI specializes in custom motors and higher-level assemblies for the aerospace and space markets. These products are manufactured in AS9100 REV D certified, state-of-the-art facilities and have gained a strong reputation over the past 60 years. Not only are these solutions known for their long life, low maintenance, and high efficiency, but also for having the highest torque-to-size weight ratio available.

Aerospace Applications

- > Windshield Wipers
- > Cargo Power Drive Units
- > Environmental Control Systems
- > Auxiliary Power Unit Components
- > Cargo Winches and Hoists
- > Cabin Pressurization/Recirculation Fans
- > Electric Brakes
- > Backup Flight Controls
- > Starters/Generators
- > Control Surface Motor Pumps
- > Actuation
 - Flight Lock Door
 - Flight Deck Power Seat
 - Landing Light
 - Auxiliary/Utility Accessory



DEFENSE

MTI designs and manufactures robust offerings that solve customer challenges. These solutions meet the stringent performance and environmental requirements of defense applications. Through the use of Six Sigma tools (ex. lean initiatives, kaizen events, single piece flow, etc.), design-for-manufacturability (DFM) and design-to-cost (DTC) products are consistently delivered.

Defense Applications

- > Unmanned Vehicles (Aerial, Sub-sea, and Ground)
- > Defense Robotics
- > Smart Munitions and Rounds
- > Cooling and Exhaust Blowers
- > Scanners
- > Gyro Electro/Mechanical Components
- > Drones
- > Alternators/Generators
- > Fuel Control
- > Actuation
 - Locking/Triggering
 - Turret Servo
 - Flight Control
 - Brake
 - Landing Brake
 - Fin



INDUSTRIAL

MTI manufactures innovative custom designs and built-to-print system solutions for a variety of markets including EV and HEV, robotics, medical, transportation, oil and gas, and factory automation. These robust offerings, from components to higher-level assemblies, are used when maximized reliability, accuracy, and performance are an absolute must. As an ISO-certified manufacturer, MTI focuses on continuous improvement while providing quality products that meet customer demands.

Industrial Applications

- > Downhole Drilling and Measurement
- > EV/HEV (ISG/ACTM, EM, MG, and Controls)
- > Robotics
- > Medical/Surgical Tools (Patient Hoists)
- > Gas and Fluid Pumps
- > Generators
- > Traction Units
- > ROV/UUV
- > Factory Automation
- > Transportation
- > Food/Pharmaceutical Equipment
- > Measurement and Machine Tools
- > Medical Imaging Equipment
- > Antenna Positioners

