Services & Capabilities

515 Willow Springs Lane, York, PA 17406 | 717.266.4045 | motortechnologyinc.com

The Home of Electro-Mechanical Repairs.

Services We Offer

In House Services

- AC and DC Electric Motor Repair
- Stator Rewinding
- Pump Repair
- Gearbox Repair
- Roll Repair
- Fan Repair
- Shaft Repair
- Custom Machine Shop Services and Repair
- Custom Welding and Fabrication

Customer On-Site Services

- Predictive Maintenance
- Laser Alignment
- Custom Field Balancing
- Electronics Control Repair
- System Upgrades
- Equipment Removal and Installation
- Complete Electrical Testing
- Power Monitoring
- Wireless Vibration and Condition Monitoring

New Drive Sales / Distribution

- Yaskawa
- WEG
- Benshaw
- Bardac

New Motor / Gearbox Sales Distribution

- WEG
- TECO-Westinghouse
- Siemens
- US Motors
- Leeson
- Sterling
- Marathon
- SEW Eurodrive
- Motovario

Authorized Service Repair Center

- TECO-Westinghouse
- WEG
- Siemens
- US Motors
- Leeson
- Sterling
- Marathon
- ABB / Baldor / Reliance

Shop Capabilities

Electrical Test Stations

- Phenix High Power Test Set – Model MTS 1000R 800
  1000 KVA; 7,200 VAC Maximum AC Voltage; 1200 Max Amperage @ 460 VAC;
  Maximum DC ARM V: 750, 1067 A;
  Maximum DC FLD V: 800, 125 A;
  Maximum HP @ each voltage for NO-LOAD run testing;
  Limits to Full Load Currents: 1200 A AC @ 480 VAC; 1067 A DC @ 750 VDC;
  Bearing Temperature Monitoring during Run Testing; Stator Temperature Monitoring.

- Phenix High Power Test Set – Model MTS 200R 150
  200 KVA; 600 VAC Maximum AC Voltage; 192 Max Amperage @ 460 VAC, 400 Max Amperage @ 120 VAC;
  Maximum DC ARM V: 550, 270 A;
  Maximum DC FLD V: 300, 10 A

- BEM Electrical Apparatus Test Center
  60 to 460 VAC; 150 Max Amperage
  0 to 300 VDC; 10 Max Amperage

Machine Shop Equipment

- Lathe 63" (76" Swing) X 19' Between Centers
- Lathe 30" Swing X 196" Between Centers
- Lathe 25" x 132" Between Centers
- Lathe 17" Swing X 60" Between Centers
- Lathe 14" x 36" Between Centers
- Horizontal Boring Mill 55" X 47" Rotary Table; 48" Vertical Travel, X = 56", Y = 42"
- Vertical Lathe 66" Swing, 56" Table Dia., 5' Height
- Sharp Vertical Knee Mill 20" x 87" Bed
- Summit FVS Vertical Mill 10"x 54" Bed
- Lagoon Vertical Mill 11" x 58" Bed
- Key Seater – 1 ¼" Max
- Surface Grinder
- Portable Key Cutter
- Miller Millermatic 350P MIG Welder
- Miller Dimension 650 Multi-Purpose Welder
- Hypertherm Powermax 1250 Plasma Cutter G3 Series, Max Cut – 1 ¼" Thick Steel (Carbon)

Crane Capabilities

- Bay 1 – (1) 10 Ton Bridge Crane with (2) 5 Ton Cranes, All 21' Lift
- Bay 2 – (1) 25 Ton Crane with 22'-4" Lift, (1) 5 Ton Crane with 21' Lift
- Bay 3 – (2) 5 Ton Cranes with 21' Lift
- Rewind – (1) 10 Ton Crane with 18'-2" Lift, (1) 5 Ton Crane with 21' Lift
- Stripping Room – (1) 3 Ton Crane with 13'-8" Lift

Cleaning Equipment

- MART Tornado Parts Washer
- Pressure Washing for Windings and Large Parts
- Media Blasting – Corn Cob, Walnut Shell, Glass Bead, and Aluminum Oxide

Burn Out Ovens

- Steelman 8' x 9' x 8'
- Steelman 43" x 42" x 36"
- Temperature Controlled with Chart Recording

Curing Ovens

- Steelman 8'x 12' x 10'
- Steelman 4' x 4' x 4'
- Temperature Controlled with Chart Recording

Shop Capabilities

Bake Oven
- Steelman 8' x 10' x 8'
- Temperature Controlled with Chart Recording

VPI Tank
- 8' x 8' x 8' VPI System using Epoxy, Solventless Thixotropic Resin VR74035
- 38" x 38" x 36" Dip Tank using Elanguard EN59-60MR

Stator Rewinding
- Class H Insulation and Inverter Duty Magnet Wire
- (1) Computerized and (2) Standard Coil Winding Machines

Thermal Imaging with Recording
- FLIR T530

Ultrasonic Testing
- Ludeca SDT 200

Megger Testing
- Fluke 1507 Insulation Tester 1000V
- Fluke 1550C / 1555 5kV

DC Hipot Testing
- Baker AWA IV, 12kV
- Hipotronics HV10, 10kV
- Phenix 470-5, 70kV
- SKF Baker PP30, 30kV

AC Hipot Testing
- Phenix AC Hipot Model 6A510-20, 10kV 2A 20kVA

Balancing Equipment
- Dyna-Bal 7' Swing 25K Lbs, Soft Bearing Machine
- Dyna-Bal 6' Swing 10K Lbs, Soft Bearing Machine
- Dyna-Bal 15" Swing 75 Lbs, Soft Bearing Machine

Stator Core Testing
- Phenix CL60 Computerized Core Loss Tester

Vibration and Data Collection
- Comtest Vb7 Data Collectors (10 Units)

Dynamometer Testing
- 900 HP @ 3600 RPM Dynamometer
- 100 HP @ 3600 RPM Dynamometer

Transportation
- 6 Vehicles, 39,820 LB Payload
- Licensed in Continental US, DOT # 370028

Equipment Certifications
- All Test Equipment is calibrated and Certified annually by Electrical Test Equipment Company.

Industry Certifications
- EASA AR-100 Accredited Service Center
- SKF Certified Bearing Specialists
- Level 2 Vibration Specialists
- Timken Bearing Certified

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We provide reliable repair solutions and so much more.

About Us

With over 40 years of experience, our staff stands ready to tackle any of your electro-mechanical repair needs. We offer unmatched expertise, innovative services, and state-of-the-art testing equipment. Our staff is well equipped to build, service, and sell industrial motors, controls, gearboxes, and any other related equipment for advanced electric motor systems. In addition, you'll find our experience and knowledge are well able to manage your electro-mechanical needs.

Whether we're leveraging our innovative Wireless Monitoring Services on behalf of our customers or we're repairing motors, our goal is simple—to provide cost-effective options with a diversity of services and supplies for anything that drives, rolls, or rotates. And with multiple accreditations, including the coveted EASA Accreditation, your business can trust us for a job well done.

Our History

Throughout our history, we've created a company we're proud of. As one of the last family-owned and operated businesses in the industry, we are dedicated to serving not only our customers but also our staff. What started with just five employees has grown into a company of over 100 employees. Our growth as a company is based on the loyalty of our own employees, and our dedication to them. That mutual commitment has enabled us to earn the trust of countless clients and a reputation for excellence with decades of exceptional service.

Thomas J. Ryan, our former CEO and the founder of MTI, began his journey as an electro-mechanical technician in the United States Navy. Once he completed his service, Tom returned to Central Pennsylvania and started working in a motor repair facility as a rewinder and technician. For the next 25 years, he would lead and manage in the motor repair industry before he moved on to start his own motor repair company in January of 1981.

For the past four decades, Tom and his family have dedicated their time and energy to growing Motor Technology into the leading electro-mechanical repair facility in Central PA.

We're proud of where we've been, and we're excited about where we're going.

We hope you'll join us.

Our Mission

MTI is on a mission to offer exceptional electro-mechanical repair services and innovative products that exceed our customer's expectations. We aim to continue to be an integral part of keeping industries running smoothly and efficiently.

Our Vision

Our sights are set on becoming the leader in offering superior quality and value in electro-mechanical repairs and services. To do this, we'll continue to innovate and look for new ways to provide significant value to our customers.