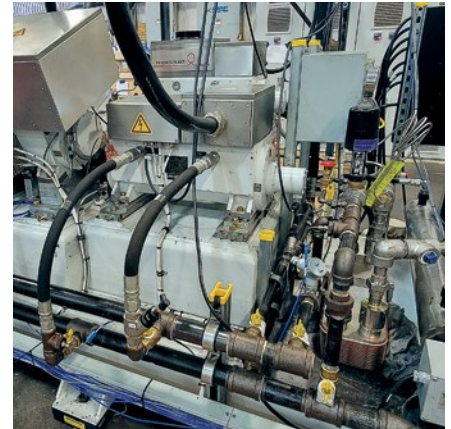
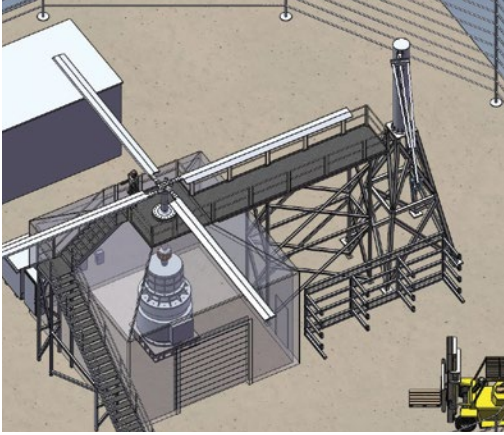


Aviation and Rotorcraft Testing Solutions

MAE is Your Complete Rotorcraft and Helicopter Testing Solution


ADVANCED ENGINEERING
Fearless Innovation™

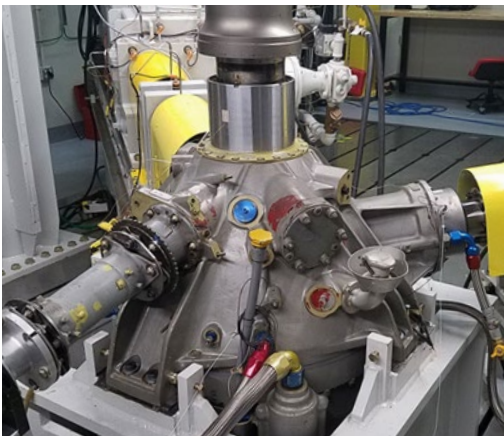




Whirl Tower Test Stand



Whirl Tower Test Stand



Military Helicopter Transmission Test Stand

From a Leader in Testing Solutions

Mustang Advanced Engineering (MAE) delivers complete rotorcraft and helicopter testing solutions for both OEM and military applications. From large powertrain components to small subsystems, MAE designs and builds flexible test stands that support current and future transmissions, gearboxes.

For many of these projects, international to domestic, the customer needed a single partner to provide test stands, project management, full system integration, and turnkey installation. MAE was selected based on decades of experience designing powertrain test systems and our proven success supporting the largest U.S. military helicopter maintenance and repair operations.

MAE also developed the dynamic component testing software and led system integration, delivering test systems with exceptional flexibility, data quality, safety, and energy efficiency.

The MAE Advantage:

- Turnkey test stands: design, build, and integration
- Accurate, repeatable data for advanced analysis
- Flexible designs supporting multiple test articles on one stand
- Common subsystems to reduce costs and simplify training
- Patented geared cartridge spindles for high-speed gearbox testing
- Electrical or mechanical regeneration for improved efficiency
- Proven technologies and established components
- Future-ready designs with minimal retooling
- Ergonomic, operator-focused safety features
- Consistent HMI and data interfaces across systems
- Custom-Engineered Gearboxes.

Test Equipment ***for Aerospace Manufacturing and Assembly***

MAE supports some of the world's largest aerospace companies and military bases with solutions ranging from process engineering to fully turnkey manufacturing, assembly, and test systems.

Transmission and high-speed gearbox testing applications have long been a specialty and an area of technical expertise for the team of testing and applications engineers of Mustang Advanced Engineering. Regardless of the unique challenges of your application, MAE has a complete systems solution to meet your helicopter transmission testing needs.

MAE is widely regarded as a leading global provider of dynamometer systems for a wide range of applications that require accurate and repeatable inertia simulation, speed control, force control or acceleration control. Mustang's line-up of dynamometer and test systems have evolved and acquired techniques and capabilities resulting from decades of experience in developing "high accuracy" simulation and test systems.

MAE's experience and expertise with sophisticated end-of-line systems stems from having supplied a host of fully-integrated, automated testing solutions for a wide range of EOL testing applications. MAE offers completely customized end-of-line testing solutions for your specific production validation applications.

MAE can easily customize an automated EOL test sequence to meet your EOL testing requirements.

Test Stands for Components Include:

- Main Transmission/Gearbox
- Rotor Mast
- Clutch/Freewheeling unit
- Drive Shafts
- Tail Rotor Gearbox
- Swashplate
- Whirl Towers

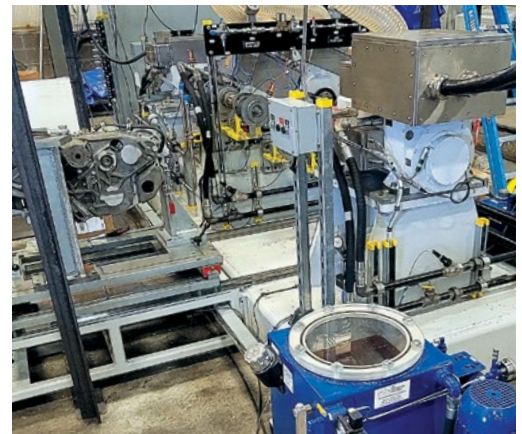
When performance, reliability, and experience matter, choose Mustang Advanced Engineering.



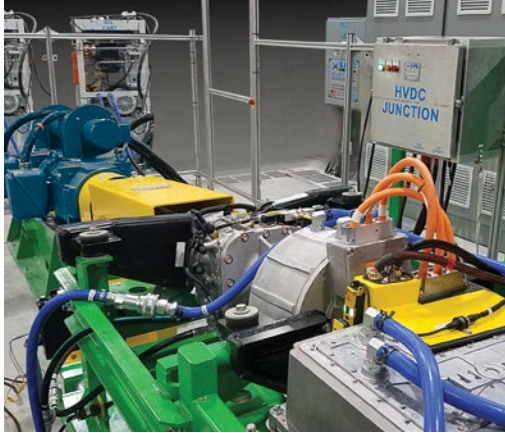
Helicopter Gearbox Coupler



Military Helicopter Transmission Test Stand



High Speed Gear Box Test Stand for Aviation Projects



End-of-Line EV Power-train Test Cell



Test Stands Available for eVTOL Vehicles



Mustang Advanced Engineering

2300 Pinnacle Parkway

Twinsburg, OH 44087

Phone: (330) 963-5400

Fax: (330) 425-3310

Email: Sales@MustangAE.com

MustangAE.com

End-of-Line Testing

MAE is a test cell system integrator capable of supplying turnkey, fully functional, integrated test cell solutions. MAE draws on more than 35 years of equipment production and test cell integration experience to provide customers the perfect test cell for their requirements. MAE leverages our vast test cell experience and our safety minded engineers to develop test cells that are safe and meet local and national safety requirements. Safety is achieved through physical barriers, electrically lockable access barriers monitored until conditions are safe to unlock, guards, dual hand touch pads, light curtains, electrical lockable doors/covers, pressure pads, lights, lamps and sound. Safety is also designed into the high-power electrical systems with lock-out/tag-out requirements, arc flash analysis and facility interface design.

Additional EV Test Articles

MAE is poised to serve the Electric Vehicle markets (EV, BEV, HEV, PHEV, FCEV) and its current and future testing needs. Additional test stands MAE has designed and created include:

- Electric Power-train
- Electric Motors
- Electric Motor Control Units
- Electric DC/DC Converters
- Battery Simulators
- Components and accessories
- Climate controller interfaces
- Inverters
- Fuel Cells
- Gearboxes
- Batteries
- Coolant conditioning systems
- Hydrogen fuel supply systems
- Test article interfaces

About MAE

Mustang Advanced Engineering is a leading supplier of advanced, custom engineered testing and measurement systems. Located in Twinsburg, Ohio since 1986, MAE delivers world-class testing solutions, custom design support, technical assistance, backed by a dedicated factory service team, making them a trusted source of expertise for the global industrial market. Visit MustangAE.com for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram

