

Mileage Accumulation Testing





All-Wheel Drive Chassis Dynamometer



Robotic pedal-throttle actuators for automatic driving



Control all four dynamometers within one room



High-Load, Low-Speed Tow Dynamometer

Chassis Dynamometers

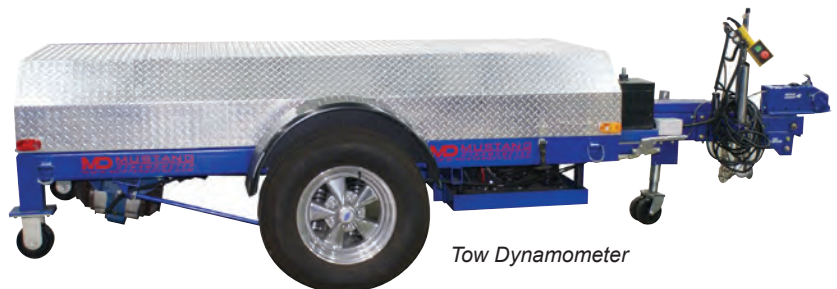
Mileage Accumulation requires extreme durability from a Chassis Dynamometer and related testing components. Many times mileage accumulation is performed in a limited covered outdoor environment which produces a harsh environment for the equipment. MAE has designed our world class Chassis Dynamometers and support equipment to exceed the perform requirements under these demanding conditions while having the durability to last for many years of mileage accumulation testing.

- Safe, experienced vehicle testing
- Supported by the validation testing on the only private autonomous test track in the USA
- 50" All-wheel drive or two wheel drive dynamometers with the capabilities of testing up to 250 MPH and 12,000 lbs axle weight
- Robot/automatic actuators drive the vehicles for 24/7 automatic testing
- SAE 1634 for EV and full CFR 1066 compliance for vehicle evaporative emissions
- SAEJ2264 Compliant
- AWD dynamometer has light duty transient drive cycle capabilities including: WLTP, FTP 75 (Light Duty), EPA US06 Supplemental FTP Driving Schedule (Light Duty), SC03 Test Cycle

Tow Dynamometers

MAE offers the largest and most complete lineup of tow dynamometers available for test engineers in the industry. Using advanced controls and air-cooled eddy current power absorbers, tow dynamometers are capable of testing vehicles and simulating road profiles taken from pre-recorded data of road grades, hills and mountains without ever having to leave the safe and controlled confines of the flat test track. MAE's advanced control system allows for grade control, speed control, drawbar control, manual control, polynomial drawbar control as a function of velocity, mountain climbing test as a function of distance, cycle testing as function of distance or time and engine speed control. MAE was the first company to offer a heavy-duty, Class 8, 5th-wheel-style tow dynamometer with auto-shift capability.

- Max Speed: 80 MPH
- Maximum force: 1,798 lbs (8,000 N)
- Testing Modes: Manual, Constant Torque, Constant Speed, Constant Power, Vehicle Simulation, Grade Simulation, Trailer Weight
- Easy to use data acquisition and graphing capabilities, convent wireless operation



Tow Dynamometer

Additional Capabilities

Mustang Advanced Engineering serves many industries and has more testing capabilities, more than what is mentioned here. Contact MAE and ask how we can help you!

- Easy to do business with - No red tape
- Self check-in, flexible scheduling - Open 24 hours per day
- Test track validation
- Confidential and “off-grid”
- Safety and security, on-site gate security officers
- 3 vehicle support garages
- Multiple test labs with material handling equipment



2WD Chassis Dynamometers



Contained control room from the rest of the cell

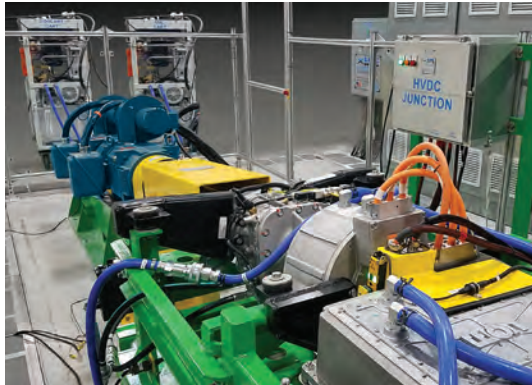


Validation on a private autonomous test track



Mustang Advanced Engineering

EV Powertrain Test Cell



EV e-Axle Test Stand



Global Leaders in 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, arch flash analysis and facility interface design.

Test Articles

- Electric Powertrain
- Electric Motors
- Electric Motor Control Units
- Electric DC/DC Converters
- Inverters
- Fuel Cell
- Gearboxes
- Batteries

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



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