

Advanced Engineering

Testing Solutions

Universal Fleet Maintenance Dynamometers



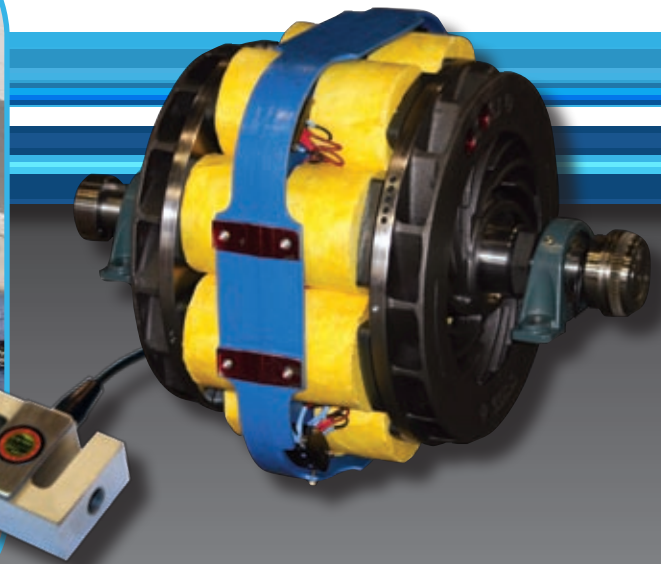
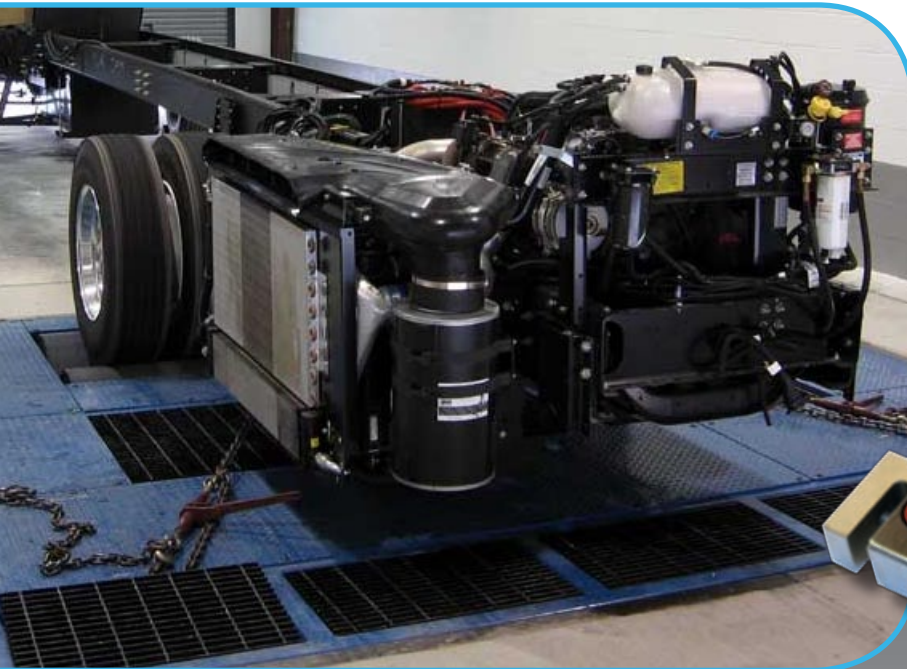
Testing Solutions for Fleet Managers

Today's Fleet Managers are faced with many challenges – most important of which is maintaining a healthy bottom line. With fuel costs at an all-time high, these challenges have become increasingly difficult. To help combat these problems and others facing fleet managers today, MAE offers the MD-7500 Series Chassis Dynamometer – which features the most advanced diagnostic capabilities in the industry.

Now every vehicle in your fleet can be tested and validated before and after a repair to insure proper diagnostics and repairs have been performed. In addition to testing repaired vehicles, the MD-7500 can be used to test vehicles on a regular basis as a preventative maintenance measure; which decreases unexpected breakdowns, and allows fleet management to control fuel costs while reducing repair costs. Periodic testing keeps fuel consumption to a minimum and helps technicians identify suspect components before they fail. A proactive approach to Fleet Service can prevent unexpected engine and or drivetrain failure; which saves fleets thousands of dollars in lost fair revenues.



The MD-7500 is designed to simulate the driving conditions that fleet vehicles encounter on the road everyday in a safe and controlled shop floor environment so that critical engine and drivetrain systems can be evaluated to insure vehicles are performing properly and at maximum efficiency. What's more, the MD-7500 offers several levels of testing capabilities in a modular, compact package and with capabilities that can be upgraded in the future as your needs change.



At the heart of the MD-7500 is a set of three air-cooled eddy current power absorbers. Each absorber, or brake, can hold up to 600-hp (total power of 1,800-hp) – more than enough to simulate a fully loaded transit or school bus. As the systems PAUs (brakes) are air-cooled, no water is required to or from the dyno - eliminating the high cost of water consumption and/or the cost of an expensive water recovery system - which can sometimes exceed the cost of the dynamometer system itself. Mustang is the only company that offers a Universal Fleet Dynamometer without water supply requirements. All that is required to run the system is 208-240VAC, three-phase, 40-Amp power.

Each of the MD-7500's rollers measures 19.75-inches in diameter, which increases tire-roller contact area and decreasing tire wear and tire temperature. Each roller surface is knurled for maximum traction, while a belt-drive connects the primary roller set to the secondary roller set – minimizing “rocking” on the rollers and keeping wheels safely centered between the two sturdy roller sets. The MD-7500's stout frame is fabricated from structural steel for maximum life and durability, while the bearings, couplings, and related mechanical components are machined and over-engineered to insure years of trouble-free operation. Every MD-7500 series dynamometer is individually tested and inspected to insure the highest degree of quality and performance.

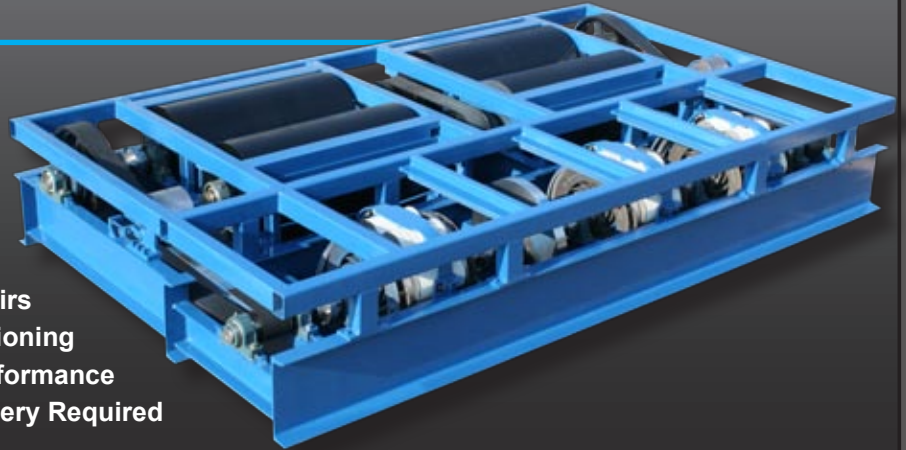
Mustang's Vehicle Simulation capabilities are made possible by using powerful eddy current power absorbers and torque sensing load cells that provide an ultra-fast closed loop signal to the dyne controller. Mustang's dynamometer control technology is recognized around the world as the industry's best.

MD-7500 Series Dynamometer



KEY FEATURES & BENEFITS

- Low Maintenance Operation
- Precise Load Control
- Highly Accurate & Repeatability
- Safe & Easy to Operate
- User Friendly Windows Software
- Accurate Road Load Simulation
- Quickly Diagnose Drivability & Repairs
- Validate Repairs Before Recommissioning
- Optimize Fuel Efficiency & Fleet Performance
- Air-cooled System - No Water Recovery Required



The MD-7500 Series is considered the ideal diesel truck fleet maintenance dynamometer because it incorporates three air-cooled eddy current brakes and a large 19.75" roller set to provide an optimal combination of power and tractive roller surface to handle the higher torque of today's diesel trucks and buses.

Specifications

Load Control Type:	Air-Cooled Eddy Current Power Absorbers
Roll Diameter:	19.75", precision balanced
Roll Surface:	Knurled for superior traction
Maximum Speed:	100 MPH
Maximum Wheel Horsepower:	1,800 HP
Base System Inertia:	12,000 lbs base mechanical inertia
Shop Air Requirements:	80-100 PSI, Dry, Reg. oil free
Power Requirements:	230 VAC Single Phase, 60 AMPs
Axle Weight Capacity:	24,000 lbs. Maximum
Dynamometer Shipping Weight:	18,000 Lbs.



User Freindly Test Software

Mustang's powerful yet intuitive Inspection Software is the user's primary interface to the dynamometer's many advanced testing capabilities. Using a hand-held pendant from the driver's seat allows the user to place primary commands to the computer controller from the cab of the bus during testing.

A Windows Based Software Program, Mustang's Inspection Software contains several layers of testing capabilities designed to help the modern fleet technician correctly diagnose and repair today's modern Fleet Vehicles.

Inspection System - [Current User: Operator01]

Current Speed (MPH)	30	Current Time (Seconds)	17	Current Temp (Degrees F)	125
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**Full Power Acceleration To Governed Speed Test.
Apply Full Throttle.**

0 100

47.5 52.5

OK / Test Complete
Cancel / Fail / Continue
Backup
Abort Testing

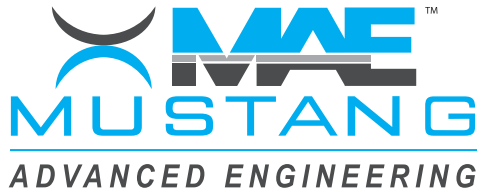
Safe RPM Pressure			Cooling Temperature			Fan Turn-On Temperature			Fan Turn-Off Temperature			Fan RPM		
Min	Actual	Max	Min	Actual	Max	Min	Actual	Max	Min	Actual	Max	Min	Actual	Max
20	N/A	90	130	N/A	160	160	20.0	160	140	27.0	160	400	84.0	2000

Safe Engine RPM: Min: 800, Actual: 110, Max: 2650

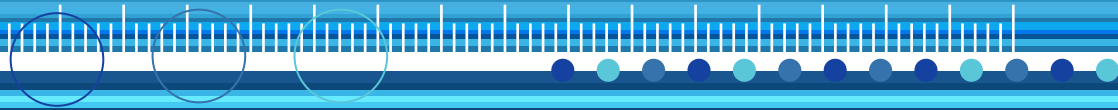
VIN: **12345678909876543**

Vehicle Type ID: **01**

Flexible Leasing Options Available



www.mustangae.com



About MAE

Mustang Advanced Engineering is widely regarded as a leading global provider of chassis dynamometer systems for a wide range of applications that require accurate and repeatable road load simulation, speed control, force control or acceleration control. Mustang offers variable speed AC motor dynamometers, eddy current, and hybrid AC/EC systems in various sizes and configurations for vehicles ranging from 4x2, 4x4, to multi-axle off-road vehicles.

ISO 9001:2000 Certified

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