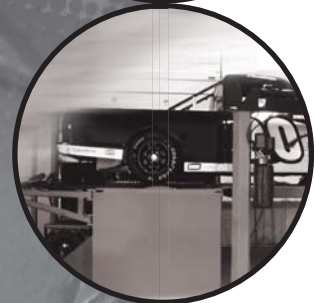
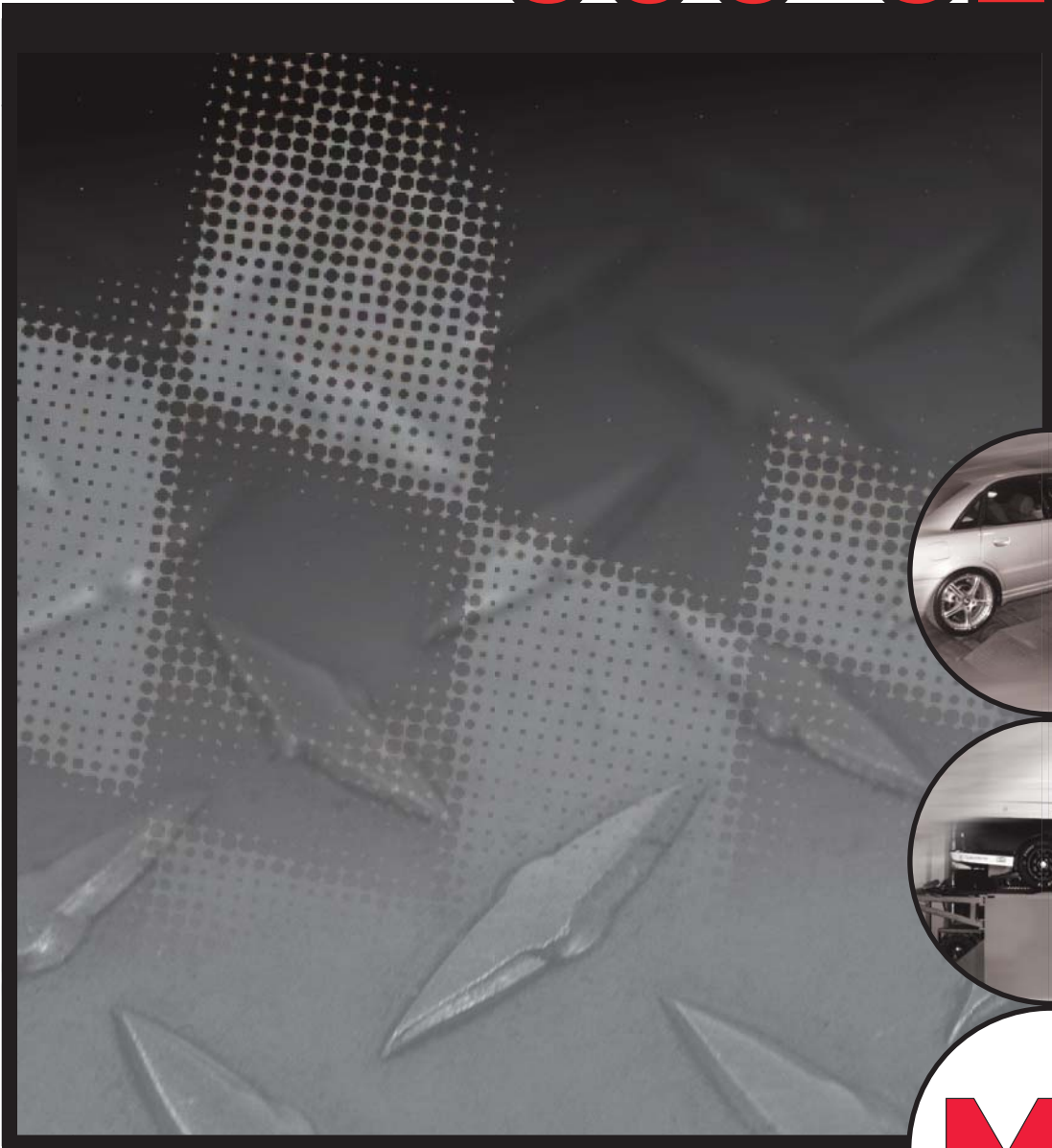


# MD-AWD- 500-SE



**MD**<sup>®</sup>  
**MUSTANG**  
**DYNAMOMETER**

# MD-AWD-500-SE

The **SE model** comes with a single Eddy Current Power Absorption Unit (PAU), but is completely upgradable to the DE model, which provides for an additional PAU and a maximum load absorption increase in AWD Mode to 2,500 hp.



**HORSEPOWER:** 900 hp peak absorption AWD mode (1,800 hp optional, 50-50 SPLIT)  
2,500 hp peak measurement capacity AWD mode (50-50 SPLIT)  
900 hp peak absorption 2WD mode  
1,500 hp peak measurement capacity 2WD mode

**LOADING:** Air-cooled eddy current power absorber (model MDK-250)

**INERTIA:** 2,152 lbs / 1,190 lbs (nominal)

**MAXIMUM SPEED:** 175 mph (2WD)  
150 mph (AWD)

**CONTROLS:** Closed Loop Digital Controller with Microsoft WindowsXP™ based software. Includes Patented Virtual Road Simulation Technology (RST)

**HAND CONTROL:** Wireless in-car controls available

**ROLLS/WHEELBASE:** Allows vehicle deceleration without use of vehicle brakes  
Eddy Current PAU used to decelerate rollers

**TRANSMISSION:** Heavy-duty, industrial-fiber belt drive with mechanical disconnect

**FRAME:** Heavy-duty structural steel frame

**ROLL DECELERATOR:** Allows vehicle deceleration without use of vehicle brakes  
Eddy Current PAU used to decelerate rollers

**AIR REQUIREMENTS:** 80 PSI, dry, regulated, oil free

**POWER REQUIREMENTS:** 115 VAC, single phase, 60 Hz, 15 Amps (computer)  
130 VAC, single phase, 60 Hz, 40 Amps (dynamometer)

**AXLE WEIGHT:** 6,000 lbs (2,727 kg) maximum 1 axle

**SHIPPING WEIGHT:** 9,000 lbs (4,090 kg) (dynamometer weight only)

**OPTIONS:**

- DE Upgrade - 1,800 hp absorption
- SmartTach Engine RPM
- Pressure Sensors
- Air to Fuel Modules
- Optical RPM Pick-up
- Computer System with monitor
- Above Ground Kit
- Above Ground Ramps
- Integrated Xmas Tree
- Wireless Touchscreen Interface
- Vehicle Cooling Fan
- Temperature Sensors
- Weather Station
- 5 Gas Analyzer
- On-Site Training
- OBD Interface
- Vehicle Pull Down Kit
- Motorcycle Kit
- 89" Outer Track

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The MD-AWD-500-SE tests both axles of the test vehicle under the same imposed load; while at the same time providing for front-to-rear axle speed synchronization. Front-to-back roller speed synchronization protects AWD center differentials, provides for a means to safely test vehicles with traction control, and allows for testing to be performed under real-world load conditions. Without a transmission, an AWD dynamometer can only be used in steady state or ramp control mode - limiting its usefulness as a real-world testing tool.

With a maximum power measurement of 2,500 hp the MD-AWD-500-SE is designed to handle a broad range of performance race car testing to diagnostics and emissions repair on every day drivers.

The MD-AWD-500-SE accommodates wheelbases from 88 to 118 inches without moving parts. A breakable coupling allows for a means to disengage the system from AWD mode. An optional air-clutch accomplishes the same feat with the push of a button.