



With a maximum power absorption of 1,500-hp in AWD mode, the MD-AWD-500-DE is designed to handle a broad range of tests, from performance testing to diagnostics and emissions repair.

All-wheel-drive transmissions are more common than they were five-years ago, and many of the newer high performance vehicles are equipped with sophisticated traction control systems that prohibit testing on single axle chassis dynamometers. The MD-AWD-500-DE 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.

The MD-AWD-500-DE accommodates wheelbases from 84 to 126 inches without moving parts. An adjustable, or 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.

A complete Pentium-III computer package with color monitor accompanies every system. This microcomputer based control system provides for real-time data logging of torque, horsepower and speed parameters, while optional modules provide for air-fuel ratio, engine RPM, boost, exhaust gas temperatures, and complete five-gas concentration readings under load.



MD-AWD-500-DE

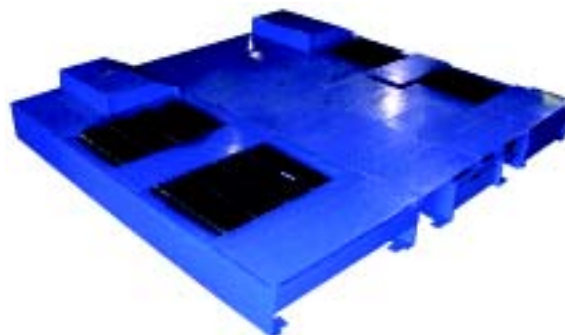
ALL-WHEEL-DRIVE CHASSIS DYNAMOMETER

Horsepower:	1,500-hp peak absorption AWD mode (50/50 Split) 2,400-hp peak measurement capacity AWD mode (50/50 Split) 1,500-hp peak absorption 2WD mode 1,200-hp peak measurement capacity 2WD mode
Loading:	Two Air-cooled eddy current power absorber (model MDK-250)
Inertia:	3,700-lb. equivalent base mechanical inertia, AWD mode 1,975-lb. equivalent base mechanical inertia, 2WD mode
Controls:	DAC based Controller with Microsoft Windows™ based Software. Ethernet based communications between personal computer (optional) and controller. Includes Patented Virtual Road Simulation Technology (RST)
Hand Control:	Infrared, for remote operation
Rolls:	Precision machined & dynamically balanced Belted for bi-directional capability 12.625" (320.68 mm) diameter balanced rolls 37" (939.8 mm) face length 24" (609.6 mm) inner track width 98" (2,489.2 mm) outer track width
Wheelbase:	84" - 126" (2,134 - 3,200mm) standard 84" - 140" (2,134 - 3,556 mm) optional
Maximum Speed:	150 mph (241 kph) intermittent 110 mph (177 kph) continuous
Lift:	Primary roll set between roll lift with integrated roll lock
Air Requirements:	80 PSI, dry, regulated, oil free
Power Requirements:	115 VAC single phase, 60 Hz, 15 Amps (Computer) 230 VAC three phase, 60 Hz, 40 Amps (Dynamometer)
Axle Weight:	6,000 lbs (2,727 kg) maximum
Shipping Weight:	9,800 lbs (4,454 kg)
Options:	<ul style="list-style-type: none"> • Advanced Data Acquisition • Engine Speed/RPM Module • Pressure Sensors • 5 Gas Analyzer • Above-ground ramp package • EGT Sensors • Air/Fuel Meter • Weather Station • Air-Clutch • Cooling Fan



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• Specifications subject to change without notice
• Maximum power rating based on proper tire to roll contact and correctly restrained vehicle

