

AWD All Wheel Drive ASM Centralized Chassis Dynamometer

The MD-AWD-150-M 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 2WD 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.



The MD-AWD-150-M accommodates wheelbases from 96 to 122 inches (244-310 cm) without moving parts. An air actuated coupling allows for a means to disengage the system from AWD mode with the push of a button. This important feature will allow the operator to use only the roll sets required and increase the life of the system.



MD-ASM-150-M AWD (MD-AWD-100-M) Chassis Dynamometer

<i>Horsepower:</i>	<i>300 hp peak absorption</i>
<i>Loading:</i>	<i>Air-cooled eddy current power absorber (model MDK-70)</i>
<i>Motor:</i>	<i>15 hp calibration motor</i>
<i>Rolls/Wheelbase:</i>	<i>Precision machined & dynamically balanced knurled finish rollers Belted for bi-directional capability 8.575" (218 mm) diameter balanced rolls 35" face length 18" inner track width 88" outer track width 96" - 122" standard wheelbase accommodation</i>
<i>Transmission:</i>	<i>Heavy-duty, industrial-fiber belt drive with mechanical disconnect</i>
<i>Air Clutch:</i>	<i>Automatic air clutch to disengage the front roll set from rear</i>
<i>Frame:</i>	<i>Heavy-duty structural steel frame Height: 12"</i>
<i>Roll Decelerator:</i>	<i>Allows vehicle deceleration without use of vehicle brakes Eddy Current PAU used to decelerate rollers</i>
<i>Air Requirements:</i>	<i>80 PSI, dry, regulated, oil free</i>
<i>Power Requirements:</i>	<i>115 VAC, single phase, 50/60 Hz, 15 Amps (computer) 230 VAC, single phase, 50/60 Hz, 30 Amps (dynamometer) 230 VAC, three phase, 50/60 Hz, 30 Amps (motor drive)</i>
<i>Axle Weight:</i>	<i>7,720 lbs (3,500 kg) maximum 1 axle</i>
<i>Shipping Weight:</i>	<i>9,000 lbs (4,090 kg) (dynamometer weight only)</i>