



Mustang's MD-AWD-IMP Series Chassis Dynamometer gives you the ability to conduct a wide range of sophisticated tests on 2-wheel and all-wheel-drive vehicles without ever having to leave your facility.

The MD-AWD-IMP Series chassis dynamometer is the first of its kind - offering all of the benefits of an AWD eddy current dynamometer in a large roller configuration. Like all ImportDyne™ Series dynamometers, the MD-AWD-IMP features a low inertia design – which allows for precision tuning on lightweight AWD vehicles and accurate ET testing for cars with modified chassis characteristics. For applications that demand high horsepower measurement capability, the MD-AWD-IMP delivers with a capacity of 1,200-hp in AWD Mode and up to 1,000-hp in 2WD Mode.

Mustang has designed the MD-AWD-IMP to simulate dry road conditions when in AWD Mode, whereby the dynamometer applies a real-world load to the engine and drivetrain assemblies. Load synchronization eliminates the occurrence of abnormal strain on differentials. This real-world load is made possible by the mechanical connection between front and back roller sets. Unlike independent roller sets with inertial or electronic load synchronization, mechanical synchronization allows for accurate ET testing and does not apply unnatural load splits to the front and rear axle assemblies – which can damage or destroy expensive drivetrain components.

The MD-AWD-IMP Series is currently available in inertia-only mode or with our eddy current feature, which is available in the SE format (400-hp brake) or the DE format (800-hp brake) for tuning applications.



MD-AWD-IMP-SE ALL-WHEEL-DRIVE CHASSIS DYNAMOMETER

<i>Horsepower:</i>	400-hp peak absorption - AWD mode 1,200-hp peak measurement capacity - AWD mode 400-hp peak absorption - 2WD mode 1,000-hp peak measurement capacity - 2WD mode
<i>Loading:</i>	Air-cooled eddy current power absorber (model MDK-250)
<i>Inertia:</i>	4,200-lb. equivalent base mechanical inertia, AWD mode 2,000 lb. equivalent base mechanical inertia, 2WD mode
<i>Maximum Speed:</i>	200 mph
<i>Controls:</i>	Computer based control system with MD-7000 Microsoft-Windows™ Based Software Package. Base System includes computer package and instrumentation console.
<i>Hand Control:</i>	Infrared, for remote operation
<i>Rolls:</i>	Precision machined & dynamically balanced Belted for bi-directional capability 42" diameter balanced rolls 25" face length 30" inner track width 80" outer track width
<i>Wheelbase Range:</i>	87" - 119"
<i>Roll lock:</i>	Industrial brake pad in contact with O.D. of roll
<i>Roll Decelerator:</i>	Allows vehicle deceleration without use of vehicle brakes Eddy Current PAU also used to decelerate rollers
<i>Air Requirements:</i>	80 PSI, dry, regulated, oil free
<i>Power Requirements:</i>	115 VAC single phase, 60 Hz, 15 Amps (computer) 230 VAC single phase, 60 Hz, 40 Amps (dynamometer)
<i>Axle Weight:</i>	6,000 lbs maximum
<i>Shipping Weight:</i>	18,000 lbs (dynamometer weight only)
<i>Options:</i>	<ul style="list-style-type: none"> • Dual PAUs • Advanced Data Acquisition • Engine RPM Module • Pressure Sensors • Air/Fuel Meter • EGT Sensors • 5 Gas Analyzer • Weather Station • Above Ground Package • Engine Cooling Fan • Color Printer



MD
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D Y N A M O M E T E R

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



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