

MD-1750-DE

Dynamometer

MD[®]
MUSTANG
DYNAMOMETER



No speed limits



The eddy current absorption feature allows for loaded mode testing at various speed and torque outputs, making the MD-1750 a dynamometer in the truest sense.

With 50-inch rolls, a maximum speed of 225-mph and a horsepower measurement rating of 1,750-hp, the MD-1750 is by far the fastest and most powerful dynamometer available on the market today.

While acceleration-based testing capability uses a fixed inertia to gauge vehicle performance, Mustang's eddy current absorption capability features a highly accurate load cell for testing infinite speed and torque values. The torque value read from the load cell is combined with the roll-speed picked up magnetically at the roll shaft to calculate the exact force being applied at the vehicle's wheels at any time throughout the test sequence. Our sophisticated closed-loop computer control system uses the signals from the dynamometer and custom software to mimic nearly any drive cycle. What's more, the MD-1750 can be used to apply various loads to the vehicle under test while you carefully monitor torque output. The MD-1750 makes it easy to tune a vehicle to its maximum potential.



A look at Mustang's Dual Eddy Current PAUs - photo shows dynamometer with PAU cover removed

MD-1750-DE

CHASSIS DYNAMOMETER - (DUAL PAUs)

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| <i>Horsepower:</i> | <i>1,750 hp maximum measurement capability 800 hp peak absorption</i> |
| <i>Loading:</i> | <i>Dual air cooled eddy current power absorbers (MDK-250)</i> |
| <i>Maximum Speed:</i> | <i>225 mph</i> |
| <i>Inertia:</i> | <i>2,700 lbs equivalent base mechanical inertia</i> |
| <i>Controls:</i> | <i>DAC based Controller with Microsoft Windows™ based Software. Ethernet based communications between personal computer (optional) and controller. Includes Patented virtual Road Simulation Technology (RST)</i> |
| <i>Hand Control:</i> | <i>Wireless in-car controls available</i> |
| <i>Rolls:</i> | <i>Precision machined & dynamically balanced 50" diameter roller per wheel 28" face length (26" knurled) 28" inner track width 84" outer track width</i> |
| <i>Frame:</i> | <i>Heavy-duty structural steel frame</i> |
| <i>Roll lock:</i> | <i>Industrial brake pad in contact with O.D. of roll</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, 60 Hz, 15 Amps (computer) 230 VAC, three phase, 60 Hz, 40 Amps (dynamometer)</i> |
| <i>Axle Weight:</i> | <i>10,000 lbs maximum</i> |
| <i>Shipping Weight:</i> | <i>11,500 lbs (dynamometer weight only)</i> |
| <i>Options:</i> | <ul style="list-style-type: none"> • Sprint Car Starter Motor • SmartTach Engine RPM • Pressure Sensors • Air to Fuel Ratio Modules • Optical RPM Pick-up • Computer System with monitor • Above Ground Kit • Aboveground Lift • Integrated Xmas Tree • Wireless Touchscreen Interface • Vehicle Cooling Fan • Temperature Sensors • Weather Station • 5 Gas Analyzer • On-site Training • OBD Interface • Opacity Meter • Vehicle Pull Down Kit |

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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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