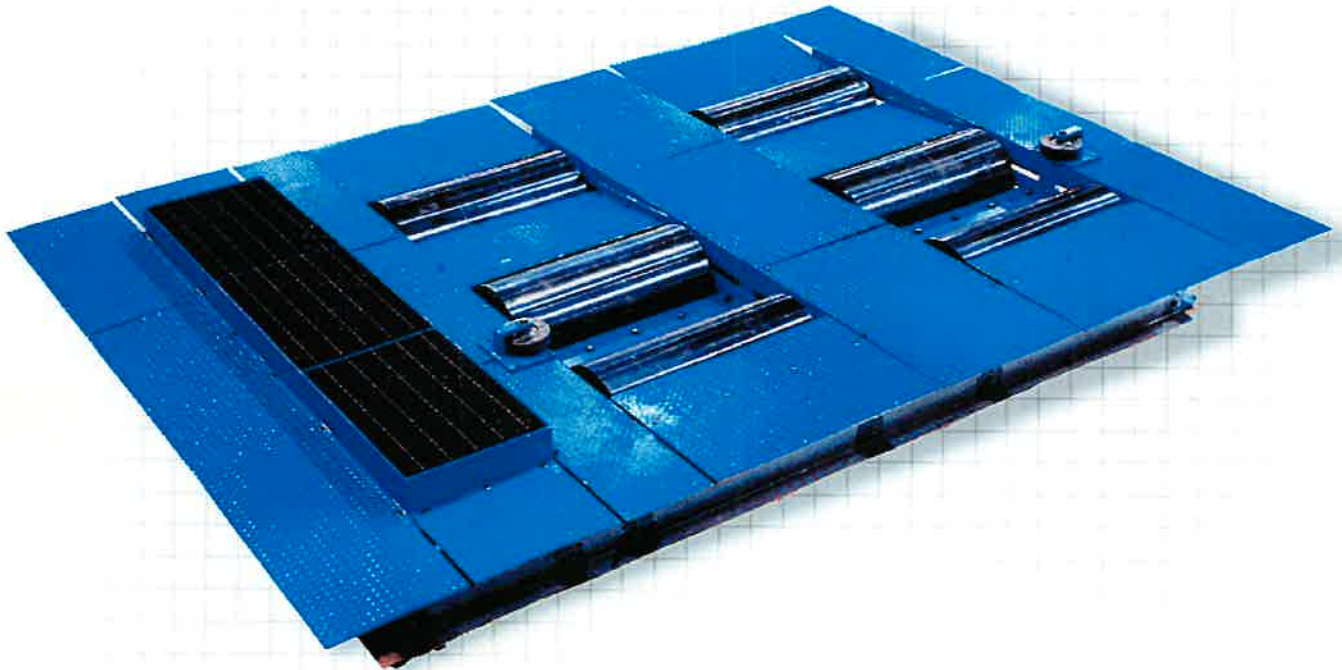


MD-1000 SERIES

CHASSIS DYNAMOMETER

Maintenance & Service Manual



Driving Excellence
f u r t h e r

MD[®]
MUSTANG
DYNAMOMETER

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MD-1000 OVERVIEW

MD-1000 – THE INDUSTRY STANDARD FOR TANDEM-AXLE HEAVY DUTY TRUCK CHASSIS DYNAMOMETERS

The MD-1000 Series heavy duty truck dynamometer has a standard peak horsepower measurement capacity of 2,000 hp, enough to handle most standard trucks, including tandem axle Class Eight tractors, as well as buses, class 6 delivery vehicles, pick-up trucks and refuse trucks. MD-1000's are used at truck manufacturing



plants around the world for quality testing at the end of the production line and they are also used for most government mandated smog testing programs. Repair shops have used the MD-1000 for diagnosing problems. The standard MD-1000 includes two large MDK-400 air-cooled eddy current power absorbers that give the 1000 the ability to absorb up to 1,200-hp intermittently. Additional power absorbing units are available to increase the loading capabilities of the MD-1000. In fact, the MD-1000 is available in multiple design configurations to meet virtually every possible testing scenario and to cover the vast majority of heavy duty vehicles including AWD trucks. Other features include a rugged, unitary frame and flexible tandem axle spacing. The precision machined rollers mean you can conduct sustained tests at highway speeds. With Mustang's sophisticated software, you can design a wide range of tests. Additional options available include PAU cooling fans to help keep the air-cooled PAU's cool, additional axle sets, variable speed engine cooling fans, and integrated diesel opacity meters.



MD-1000 SPECIFICATIONS



Max Horsepower: 2,000 hp peak
measurement capacity

Max Absorption: 1200 hp peak absorption
dual PAU

Loading Device: Two Air-cooled eddy current
power absorbers

Inertia: 3,000 lbs. base mechanical inertia,
nominal

Max Speed: 125 mph

Controls: Closed Loop Digital Controller with
web based Holeshoot Software. Includes
Patented Virtual Road Simulation
Technology.

Rolls/Wheelbase:

Precision machined & dynamically balanced
Knurled surface finish
17.7" (450 mm) diameter balanced rolls



38" (965 mm) face length
32" (813 mm) inner track width
108" (2,743 mm) outer track width
30" (762 mm) roll spacing
Tandem Spacing 46" – 60" (1,168 mm –
1,524 mm) – extended tandem spacing
available as an option. Call Mustang for
details.

Roll Lock: Between roll lift with integrated
roll lock

Roll Decelerator: Allows vehicle
deceleration without use of vehicle brakes.
Eddy Current PAU used to decelerate rollers.

Air Requirements: 120 PSI, dry, regulated,
oil free

Power Requirements:

115 VAC, single phase, 60 Hz, 20 Amps
(instrumentation)

230 VAC, single phase, 60 Hz, 50 Amps
(dynamometer)

Axle Weight: 24,000 lbs. (10,872 kg)
maximum

Shipping Weight: 15,000 lbs. (6,795 kg)



dynamometer weight only

Upgradeable to AWD: Yes, as long as it is ordered in the optional AWD upgradeable frame

MD-1000 DOWNLOADS



MD-1000 PHOTO GALLERY



PRODUCTS AND SERVICES

Chassis Dynamometers

Hardware and Accessories

Hole Shot Software

Promotional Goods

Mustang Advanced Engineering

REQUEST AN ESTIMATE

We will respond with a quote within
1 - 2 business days

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2300 Pinnacle Parkway
Twinsburg, OH 44087

(330) 963-5400

sales@mustangdyne.com

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