

*Performance Chassis Dynamometers*

**MD MUSTANG**



*2022 Catalog*

**MD<sup>®</sup>**  
**MUSTANG**  
DYNAMOMETER



### ***Known As The Best By The Best!***

For over 45 years, Mustang Dynamometers has been a leading manufacturer and designer of the highest quality, most accurate chassis dynamometers for the performance market and emission testing programs worldwide. Mustang dynos are better because they help make our customers more successful. Mustang has perfected the art and science of vehicle loading and dynamometer control and has a complete lineup of performance tuning products. For the best tuning results, you need a dyno that applies an accurate load, like the car would see on the road or track. Some other dynos might give higher horsepower readings to try to impress, but if those readings are not based on actual real-world loading, and chances are that horsepower won't be there when you need it at the track. Mustang Dynamometer is the most accurate and reliable dyno because it provides real-world loading and precise control. That's why Mustang is known as the best by the best.

### ***Philosophy***

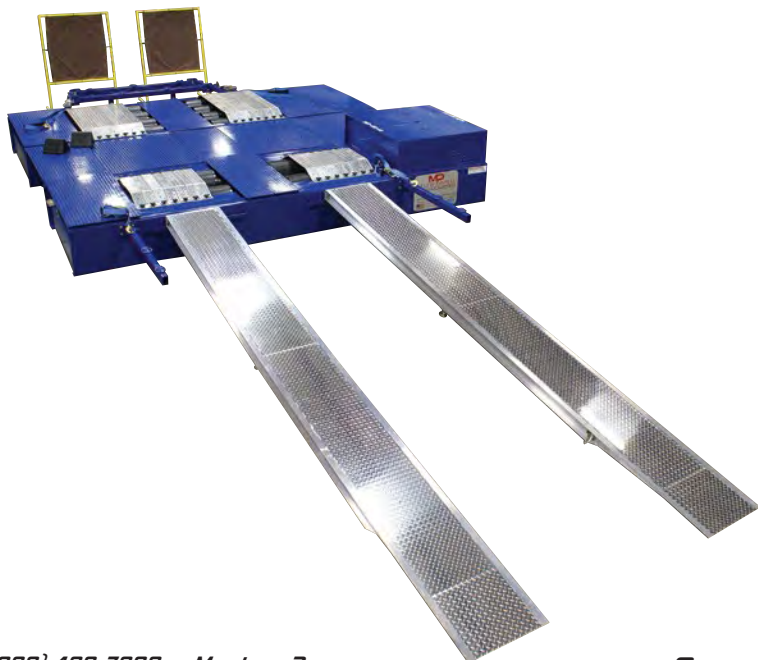
Mustang Dynamometer has always focused on our guiding principles: build the best equipment, deliver the best service and help our customers become the best in their field.

### ***Flexibility***

From engine dynamometers, transmission dynamometers, chassis dynamometers, from heavy equipment manufacturers to arenas such as NASCAR and the Indy Racing League, Mustang delivers accurate, high-performance testing and tuning abilities that professionals demand. Also we have developed custom applications for clients such as NASA, Caterpillar, Harley-Davidson, and The U.S. Military.

### ***Quality***

Mustang Dynamometer is the only dyno manufacturer in the industry to attain ISO 9001:2015 quality certification. All of Mustang's research and development, software design, manufacturing, electrical, and fabrication operations are done in-house to ensure that the dynamometers we produce are state-of-the-art and deliver on our promise to be the best dynamometers in the industry.



*"The accurate loading and repeatability of our Mustang Dyno gives us the confidence to know that vehicles will perform on the race track or street exactly as they do on the dyno."*

*- CobbTuning.com*

| <b>2WD Model</b>     | <b>Upgradeable to AWD</b> | <b>Max. HP</b> | <b>Inertia</b> | <b>Max. Speed</b> | <b>Roll Dia.</b> | <b>Maximum Axle Weight</b> |
|----------------------|---------------------------|----------------|----------------|-------------------|------------------|----------------------------|
| MD-ROADMASTER        | -                         | 450 HP         | 600 lbs.       | 120 mph           | 8.575"           | 6,000 lbs.                 |
| MD-100-SE            | -                         | 900 HP         | 2,000 lbs.     | 165 mph           | 8.575"           | 6,000 lbs.                 |
| MD-150-SE            | -                         | 1,200 HP       | 630 lbs.       | 175 mph           | 8.575"           | 6,000 lbs.                 |
| MD-250-SE            | -                         | 1,500 HP       | 2,000 lbs.     | 175 mph           | 10.7"            | 12,000 lbs.                |
| MD-500-SE-XL         | YES                       | 1,500 HP       | 2,000 lbs.     | 190 mph           | 12.625"          | 6,000 lbs.*                |
| MD-500-SE 80-inch OT | YES                       | 1,500 HP       | 1,190 lbs.     | 190 mph           | 12.625"          | 6,000 lbs.*                |
| MD-600-SE            | -                         | 2,000 HP       | 2,000 lbs.     | 200 mph           | 19.75"           | 6,000 lbs.                 |
| MD-800-SE            | YES                       | 2,000 HP       | 1,555 lbs.     | 200 mph           | 24"              | 10,000 lbs.                |
| MD-1000-SE           | YES**                     | 2,000 HP       | 3,000 lbs.     | 125 mph           | 17.7"            | 24,000 lbs.                |
| MD-1100              | YES                       | 2,500 HP       | 1,500 lbs.     | 200 mph           | 30"              | 10,000 lbs.                |
| MD-1750-SE           | YES                       | 3,000 HP       | 2,530 lbs.     | 250 mph           | 50"              | 10,000 lbs.                |



| <b>AWD Model</b>  | <b>Max. HP AWD/2WD</b> | <b>Inertia AWD/2WD</b> | <b>Max. Speed AWD/2WD</b> | <b>Roll Dia.</b> | <b>Maximum Axle Weight</b> |
|-------------------|------------------------|------------------------|---------------------------|------------------|----------------------------|
| MD-AWD-150-SE-V8  | 2,000 / 1,200 HP       | 1,260 / 630 lbs.       | 155 / 165 mph             | 8.575"           | 6,000 lbs.                 |
| MD-AWD-500-SE-XL  | 3,000 / 1,500 HP       | 3,625 / 2,000 lbs.     | 175 / 190 mph             | 12.625"          | 6,000 lbs.                 |
| MD-AWD-800-DE 24X | 3,000 / 2,000 HP       | 1,800 / 900 lbs.       | 175 / 200 mph             | 24"              | 10,000 lbs.                |
| MD-AWD-1100-SE    | 3,500 / 2,500 HP       | 3,300 / 1,500 lbs.     | 175 / 225 mph             | 30" & 12.625"    | 10,000 lbs.                |
| MD-AWD-1750-SE    | 3,500 / 3,000 HP       | 3,300 / 2,530 lbs.     | 150 / 250 mph             | 50" & 12.625"    | 10,000 lbs.                |



| <b>Powersport Model</b> | <b>Max. HP</b> | <b>Inertia</b> | <b>Max. Speed</b> | <b>Roll Dia.</b> | <b>Maximum Axle Weight</b> |
|-------------------------|----------------|----------------|-------------------|------------------|----------------------------|
| MD-SXS/UTV              | 850 HP         | 671 lbs.       | 200 mph           | 12.625"          | 6,000 lbs.                 |
| MD-EC997 Series         | 1,000 HP       | 233 lbs.       | 225 mph           | 12.625"          | 6,000 lbs.*                |



## NOTES:

\* 12,000 lbs. Available

\*\* Only if ordered with special frame

Note: All specifications for max absorption assume single-eddy-current configuration. Dual-eddy-current upgrades are available and will double the dyno's max absorption. Max Speeds on AWD models are for AWD mode. Higher max speeds can be achieved while the dyno is in 2WD mode (reference the equivalent 2WD model). All standard products can be customized to fit your needs. Call us for a quote on a standard product with any variations.

## Included (except Trailer):

Structural Steel Frame  
Gen3 Control System Surface Mount Rack  
with Companion Jbox  
Router with power cord  
Set of Harnesses  
Jbox with Standard Power Cord and USB  
Communication Cable  
Eddy Current PAU Power Cord (Mounted on  
Dynamometer)  
Load cell and Speed Sensor (Sensor Mounted  
on the dynamometer)  
Pneumatic roller lock with Solenoid Switch(s)  
Two Wheel Chocks  
Four Ratchet Straps  
Calibration weight (and arm if applicable)  
Shims and Wedge Anchors  
Floor Anchors  
Large Mustang Dynamometer Banner

## Included with Trailer Option

Gooseneck Trailer with MD-AWD-500-SE-V8  
(80-inch outer track)  
Gen3 Control System Surface Mount Rack  
with Companion Jbox  
Router with power cord  
Wheeled 19-inch rack with surge protection  
Set of Harnesses  
Jbox with Standard Power Cord and USB  
Communication Cable  
Eddy Current PAU Power Cord (Mounted on  
Dynamometer)  
Load cell and Speed Sensor (Sensor Mounted  
on the dynamometer)  
Pneumatic roller lock with Solenoid Switch(s)  
Two Wheel Chocks  
Four Ratchet Straps  
Calibration weight  
Three TVs with Drag Tree  
Generator and Compressor  
Large Mustang Dynamometer Banner

## Optional Accessory Package:

(1) MD-107-TACH Adapter (use with CT RPM  
sensors and Capacitive pickups)  
(1) MD-CT-RPM Probe for injector wires  
(1) MD-CP-RPM Capacitive Pick-up for spark  
plug wires  
(1) LSU 4.9 AFR Controller Assemblies  
(1) Wide-range Bosch LSU 4.9 sensors  
(1) OBDII adapter  
(1) 10-amp AC/DC power supply for use with  
the Jbox





### MD-100-SE

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 900HP  |         |
| Max Speed       | 165MPH                                       | 266KPH  |
| Roll Diameter   | 8.575"                                       | 21.8cm  |
| Face Length     | 35"  | 89.0cm  |
| Inner Track     | 30"  | 76.0cm  |
| Outer Track     | 100"   | 254.0cm |
| Space Between   | 17.1"  | 43.4cm  |
| Inertia         | 2,000 lbs                                    | 907kg   |
| Max Axle Weight | 6,000 lbs                                    | 2,722kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |

### MD-150-SE

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 1,200HP                                      |         |
| Max Speed       | 175MPH                                       | 282KPH  |
| Roll Diameter   | 8.575"                                       | 21.8cm  |
| Face Length     | 35"  | 89.0cm  |
| Inner Track     | 18"  | 45.7cm  |
| Outer Track     | 88"  | 223.5cm |
| Space Between   | 17.1"  | 43.4cm  |
| Inertia         | 630 lbs                                      | 286kg   |
| Max Axle Weight | 6,000 lbs                                    | 2,722kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |

### MD-250-SE

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 1,500HP                                      |         |
| Max Speed       | 175MPH                                       | 282KPH  |
| Roll Diameter   | 10.7"  | 27.2cm  |
| Face Length     | 40"  | 101.6cm |
| Inner Track     | 28"  | 71.1cm  |
| Outer Track     | 108"   | 274.3cm |
| Roll Spacing    | 19.6"  | 49.8cm  |
| Inertia         | 2,000 lbs                                    | 907kg   |
| Max Axle Weight | 12,000 lbs                                   | 5,443kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |

**Air Requirement for All 2WD Dynamometers:** 100 PSI, dry, regulated, oil-free.

**Controls:** Closed Loop Digital Controller with web based Hole Shot Software. Includes patented Virtual Road Simulation Technology.

**Rollers:** Knurled Finish, Bi-directional

**Roll Lock/Lift:** Between roll lift with roll lock

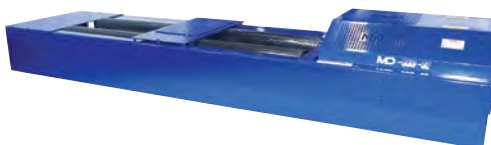
### MD-500-SE

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 1,500HP                                      |         |
| Max Speed       | 190MPH                                       | 306KPH  |
| Roll Diameter   | 12.625"                                      | 32.1cm  |
| Face Length     | 31"  | 78.7cm  |
| Inner Track     | 18"  | 45.7cm  |
| Outer Track     | 80"  | 203.2cm |
| Inertia         | 1,190 lbs                                    | 540kg   |
| Max Axle Weight | 6,000 lbs                                    | 2,722kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |



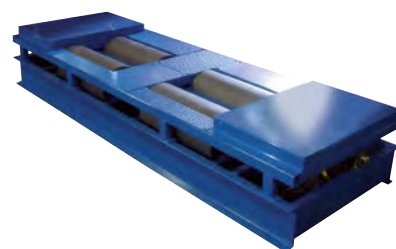
### MD-500-SE XL

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 1,500HP                                      |         |
| Max Speed       | 190MPH                                       | 306KPH  |
| Roll Diameter   | 12.625"                                      | 32.1cm  |
| Face Length     | 37"  | 93.9cm  |
| Inner Track     | 24"  | 60.9cm  |
| Outer Track     | 98"  | 248.9cm |
| Inertia         | 2,000 lbs                                    | 907kg   |
| Max Axle Weight | 6,000 lbs                                    | 2,722kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |



### MD-600 Series

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 1,500HP                                      |         |
| Max Speed       | 175MPH                                       | 282KPH  |
| Roll Diameter   | 19.75"                                       | 50.2cm  |
| Face Length     | 41"  | 104.1cm |
| Inner Track     | 24"  | 66.1cm  |
| Outer Track     | 108"   | 274.3cm |
| Inertia         | 2,000 lbs                                    | 907kg   |
| Max Axle Weight | 6,000 lbs                                    | 2,722kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |



### MD-800 Series

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 2,000HP                                      |         |
| Max Speed       | 200MPH                                       | 322KPH  |
| Roll Diameter   | 24"  | 60.9cm  |
| Face Length     | 28.5"  | 72.4cm  |
| Inner Track     | 29"  | 73.7cm  |
| Outer Track     | 86"  | 218.4cm |
| Inertia         | 900 lbs                                      | 408kg   |
| Max Axle Weight | 10,000 lbs                                   | 4,536Kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |



### MD-1100 Series

|                 |  |          |
|-----------------|--|----------|
| Max Horsepower  | 2,500HP                                      |          |
| Max Speed       | 200MPH                                       | 322KPH   |
| Roll Diameter   | 30"  | 76.2cm   |
| Face Length     | 50"&28"                                      | 127&71cm |
| Inner Track     | 30"  | 76.2cm   |
| Outer Track     | 108"   | 274.3cm  |
| Inertia         | 2,000 lbs                                    | 907kg    |
| Max Axle Weight | 10,000 lbs                                   | 4,536Kg  |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |          |



### MD-1750 Series

|                 |  |         |
|-----------------|--|---------|
| Max Horsepower  | 3,000HP                                      |         |
| Max Speed       | 250MPH                                       | 402KPH  |
| Roll Diameter   | 50"  | 127.0cm |
| Face Length     | 28"  | 71.1cm  |
| Inner Track     | 28"  | 71.1cm  |
| Outer Track     | 84"  | 213.4cm |
| Inertia         | 2,530 lbs                                    | 1,148kg |
| Max Axle Weight | 10,000 lbs                                   | 4,536Kg |
| Power Req.:     | 115VAC, 1 phase, 15A<br>230VAC, 1 phase, 40A |         |

**Air Requirement for All 2WD Dynamometers:** 100 PSI, dry, regulated, oil-free.

**Controls:** Closed Loop Digital Controller with web based Hole Shot Software. Includes patented Virtual Road Simulation Technology.

**Rollers:** Knurled Finish, Bi-directional

**Roll Lock/Lift:** Between roll lift with roll lock



## MD-AWD-150 Series

|                 |  |
|-----------------|--|
| Max Horsepower  | 2,000HP(AWD)<br>1,200HP(2WD)   |
| Max Speed       | 165MPH    266KPH   |
| Roll Diameter   | 8.575"    21.8cm   |
| Face Length     | 35"    89.0cm  |
| Inner Track     | 18"    45.7cm  |
| Outer Track     | 88"    223.5cm   |
| Wheelbase Range | 96-122"    244-310cm   |
| Inertia         | 1,260 lbs(AWD)<br>630 lbs(2WD)                                       |
| Max Axle Weight | 6,000 lbs    2,722Kg   |
| Power Req.:     | 230VAC, 1 phase, 60 Hz, 40A - SE<br>230VAC, 3 phase, 60 Hz, 40A - DE |

## MD-AWD-500 Series

|                 |  |
|-----------------|--|
| Max Horsepower  | 3,000HP(AWD)<br>1,500HP(2WD)   |
| Max Speed       | 190MPH    306KPH   |
| Roll Diameter   | 12.625"    32.1cm  |
| Face Length     | 31"    78.7cm  |
| Inner Track     | 18"    45.7cm  |
| Outer Track     | 80"    203.2cm   |
| Wheelbase Range | 88-118"    224-300cm   |
| Inertia         | 2,152 lbs(AWD)<br>1,190 lbs(2WD)                                     |
| Max Axle Weight | 6,000 lbs    2,722Kg   |
| Power Req.:     | 230VAC, 1 phase, 60 Hz, 40A - SE<br>230VAC, 3 phase, 60 Hz, 40A - DE |

## MD-AWD-500-XL

|                  |  |
|------------------|--|
| Max Horsepower   | 3,000HP(AWD)<br>1,500HP(2WD)   |
| Max Speed        | 190MPH    306KPH   |
| Roll Diameter    | 12.625"    32.1cm  |
| Face Length      | 37"    93.9cm  |
| Inner Track      | 24"    60.9cm  |
| Outer Track      | 98"    248.9cm   |
| Wheelbase Range* | 84-126"    213-320cm   |
| Inertia          | 3,625 lbs(AWD)<br>2,000 lbs(2WD)                                     |
| Max Axle Weight  | 6,000 lbs    2,722Kg   |
| Power Req.:      | 230VAC, 1 phase, 60 Hz, 40A - SE<br>230VAC, 3 phase, 60 Hz, 40A - DE |

**Air Requirement for All AWD Dynamometers:** 100-110 PSI, dry, regulated, oil-free.

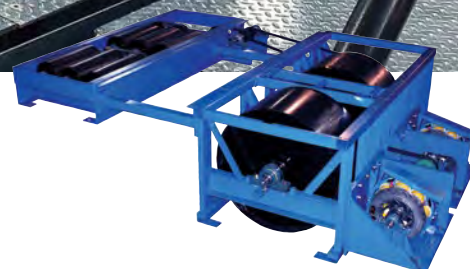
**Controls:** Closed Loop Digital Controller with web based Hole Shot Software. Includes patented Virtual Road Simulation Technology.

**Rollers:** Mechanically Linked, Knurled Finish, Bi-directional

**Roll Lock/Lift:** Between roll lift with roll lock

\* Longer wheelbase range available





## MD-AWD-800 Series

|                 |  |
|-----------------|--|
| Max Horsepower  | 3,000HP(AWD)<br>2,000HP(2WD)   |
| Max Speed       | 200MPH    322KPH   |
| Roll Diameter   | 24"    27.2cm  |
| Face Length     | 2x29"    101.6cm   |
| Inner Track     | 28"    71.1cm  |
| Outer Track     | 86"    274.3cm   |
| Wheelbase Range | 89-126"    226-320cm   |
| Inertia         | 1,800 lbs(AWD)<br>900 lbs(2WD)                                       |
| Max Axle Weight | 10,000 lbs    4,536Kg  |
| Power Req.:     | 230VAC, 1 phase, 60 Hz, 40A - SE<br>230VAC, 3 phase, 60 Hz, 40A - DE |

## MD-AWD-1100 Series

|                  |  |
|------------------|--|
| Max Horsepower   | 3,500HP(AWD)<br>2,500HP(2WD)   |
| Max Speed        | 225MPH    362KPH   |
| Roll Diameter    | 30" rear / 12.625" front   |
| Face Length Rear | 37" front roll set<br>28/50" rear roll set                           |
| Inner Track      | 30/24" (2WD/AWD)   |
| Outer Track      | 108/98" (2WD/AWD)  |
| Wheelbase Range  | 80-134"    203-340cm   |
| Inertia          | 3,300 lbs(AWD)<br>1,500 lbs(2WD)                                     |
| Max Axle Weight  | 10,000 lbs    4,536Kg  |
| Power Req.:      | 230VAC, 1 phase, 60 Hz, 40A - SE<br>230VAC, 3 phase, 60 Hz, 40A - DE |

## MD-AWD-1750 Series

|                 |  |
|-----------------|--|
| Max Horsepower  | 3,500HP(AWD)<br>3,000HP(2WD)   |
| Max Speed       | 250MPH    402KPH   |
| Roll Diameter   | 50" rear / 12.625" front   |
| Face Length     | 28"    71.1cm  |
| Inner Track     | 30"    76.2cm  |
| Outer Track     | 84"    213.4cm<br>96" option    243.8cm                              |
| Wheelbase Range | 88-118"    224-300cm   |
| Inertia         | 3,300 lbs(AWD)<br>2,530 lbs(2WD)                                     |
| Max Axle Weight | 10,000 lbs    4,536Kg  |
| Power Req.:     | 230VAC, 1 phase, 60 Hz, 40A - SE<br>230VAC, 3 phase, 60 Hz, 40A - DE |

**Air Requirement for All AWD Dynamometers:** 100-110 PSI, dry, regulated, oil-free.

**Controls:** Closed Loop Digital Controller with web based Hole Shot Software. Includes patented Virtual Road Simulation Technology.

**Rollers:** Mechanically Linked, Knurled Finish, Bi-directional

**Roll Lock/Lift:** Between roll lift with roll lock





Shown with optional dual cooling fans



## **EC997-13** **Low Inertia Model**

|                |         |         |
|----------------|---------|---------|
| Max Horsepower | 750HP   |         |
| Max Speed      | 200MPH  | 322KPH  |
| Roll Diameter  | 12.625" | 32.1cm  |
| Roll Width     | 12"     | 30.5cm  |
| Wheelbase      | 96"     | 243.8cm |
| Inertia        | 174 lbs | 79kg    |

## **EC997-20** **High Speed Model**

|                            |         |         |
|----------------------------|---------|---------|
| Max Horsepower             | 1000HP  |         |
| Max Speed                  | 225MPH  | 362KPH  |
| Roll Diameter              | 19.75"  | 50.2cm  |
| Roll Width                 | 12"     | 30.5cm  |
| Wheelbase                  | 96"     | 243.8cm |
| Inertia                    | 233 lbs | 106kg   |
| Longer Wheelbase Available |         |         |

## **EC997 MC /QUAD-13** **Low Inertia Model**

|                |         |         |
|----------------|---------|---------|
| Max Horsepower | 750HP   |         |
| Max Speed      | 200MPH  | 322KPH  |
| Roll Diameter  | 12.625" | 32.1cm  |
| Roll Width     | 35"     | 89.0cm  |
| Wheelbase      | 96"     | 243.8cm |
| Inertia        | 407 lbs | 185kg   |

## **EC997 MC /QUAD-20** **High Speed Model**

|                            |         |         |
|----------------------------|---------|---------|
| Max Horsepower             | 1000HP  |         |
| Max Speed                  | 225MPH  | 362KPH  |
| Roll Diameter              | 19.75"  | 50.2cm  |
| Roll Width                 | 19.88"  | 50.5cm  |
| Wheelbase                  | 96"     | 243.8cm |
| Inertia                    | 500 lbs | 227kg   |
| Longer Wheelbase Available |         |         |

## **MD-SXS/UTV**

|                  |         |         |
|------------------|---------|---------|
| Max Horsepower   | 850HP   |         |
| Max Speed        | 200MPH  | 322KPH  |
| Roll Diameter    | 12.625" | 32.1cm  |
| Inner Track      | 19"     | 48.3cm  |
| Outer Track      | 80"     | 203.2cm |
| Inertia MC Mode  | 394 lbs | 179kg   |
| UTV/SxS/ATV mode | 671 lbs | 304kg   |

**Controls:** Closed Loop Digital Controller with web based Hole Shot Software. Includes patented Virtual Road Simulation Technology.

**Rollers:** Knurled Finish, Bi-directional

**Roll Lock/Lift:** Between roll lift with roll lock



## Portable Systems

Mustang manufactures several portable dynamometer systems designed specifically for customers interested in taking their performance testing, simulations and tuning operations on the road. Mustang's portable systems include every item needed – from wheel chocks to an advanced computer control system – to ensure successful portable dyno operation. A Mustang portable system incorporates every desirable aspect of a traditional eddy current chassis dynamometers into a portable system that can be moved and set-up in a matter of minutes by a crew of only one or two guys.

Perfect for trade events, marketing campaigns, equipment-sharing arrangements, rental agreements, portable emissions testing... you name it!

Mustang makes slight modifications to existing product specifications – including utilizing lighter materials, shorter frames, and incorporating additional safety measures to achieve the same level of product quality and durability in a portable systems that is traditionally associated with any Mustang product.

Each portable system includes a Hole Shot control system, roll-around cart, a fully-equipped dyno transport system, vehicle restraint kit, air compressor, and electric power generator.

Depending upon the dynamometer that is selected, Mustang can offer an enclosed trailer design or a flatbed trailer-mounted portability system to meet your specific application requirements.

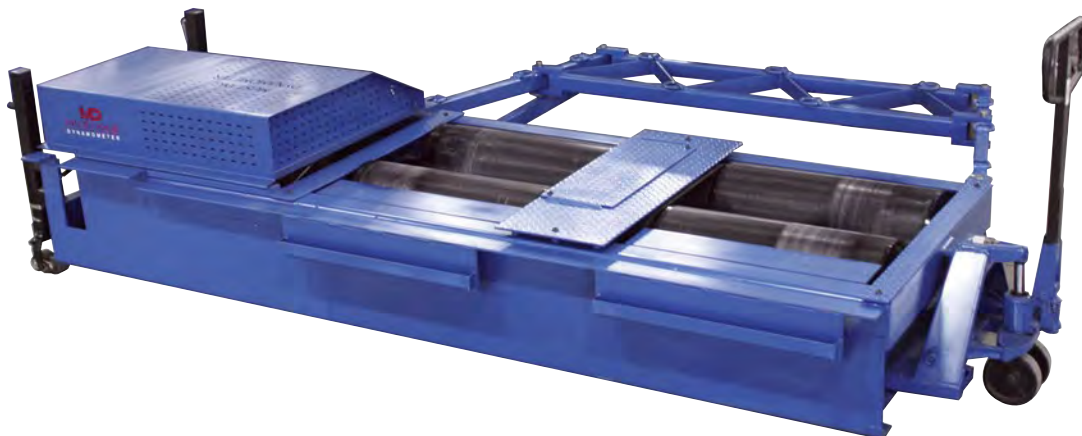


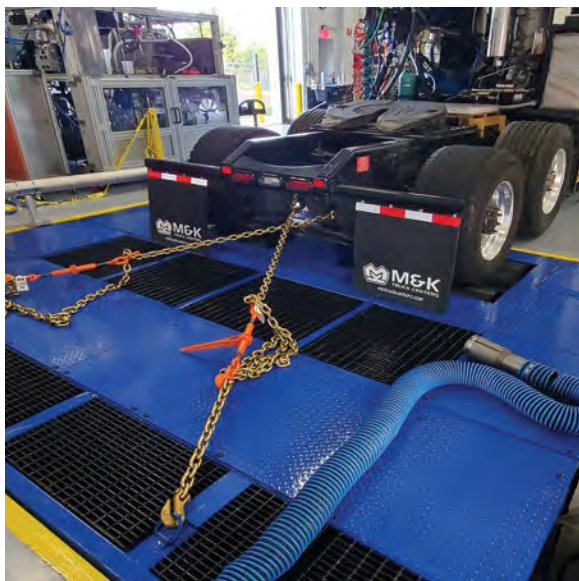
## Enclosed Trailer Design

A popular portable dyno setup is to incorporate a pallet jack and caster sets into the frame of the dyno, allowing it to be easily raised and pulled around the shop floor or moved from one location to another inside an enclosed trailer. An electric winch is often used to pull a portable dyno up a set of ramps and into an enclosed trailer.

## Flatbed Trailer Design

For larger systems, such as an AWD-500, the dynamometer is built directly into the chassis of a flatbed trailer. All components of the system are also cleverly designed into the flatbed trailer making setup of the system effortless. Simply park the trailer, lower the ramps, plug everything in, strap it down, and you are off and running in no time at all. A portable MD-AWD-500 is a true show-stopper. Add a drag racing tree and a few large screen monitors running Mustang's DragSim Drag Racing Simulator and you will draw a large crowd to watch real-world simulations of 1/4 mile and 1/8 mile drag racing. A trailer-mounted MD-AWD-500 is the ultimate promotional tool.





### Heavy-Duty Chassis Dynamometers

Mustang designs and manufactures a line of heavy-duty dynamometers for testing of diesel, electric and hybrid electric vehicles such as trucks, buses and commercial vehicles in addition to the standard car or light duty pick-ups. Several of these products are certified in the states of Colorado, Nevada and Utah for use in loaded-mode diesel smog testing programs because of its accuracy and reliability. No other dynamometer in its class offers more value or better in-house motor vehicle testing capabilities than Mustang's line of Heavy-duty Chassis Dynamometers.

#### MD-250-HD

Max HP: 1,500hp  
Max Speed: 175mph

#### MD-1000

Max HP: 2,000hp  
Max Speed: 125mph

#### MD-7500-HD

Max HP: 3,000hp  
Max Speed: 100mph



### Emissions Dynamometers

Mustang Dynamometer has set the standards for equipment manufactured and used worldwide for centralized emissions testing. Our pioneering experience has led us to be the world leader in the design and manufacturing of rugged inspection and maintenance hardware and software for the I/M industry. We have centralized testing lanes installed all over the world in climates from cold to hot and from wet to dry, all designed to meet our customer's demands.

#### MD-100-CM-2WD

Max HP: 300hp  
Max Speed: 100mph

#### MD-100-M-2WD

Max HP: 300hp  
Max Speed: 100mph

#### MD-100-M-CDMX

Max HP: 300hp  
Max Speed: 100mph

#### MD-ASM-100

Max HP: 300hp  
Max Speed: 100mph

#### MD-ASM-150-AWD (4x4)

Max HP: 300hp  
Max Speed: 100mph

#### MD-250-M

Max HP: 900hp  
Max Speed: 100mph

#### MD-1000-M

Max HP: 2,000 -3,000hp  
Max Speed: 100mph

#### MD-AWD-1000-M

Max HP: 2,000hp  
Max Speed: 100mph

### Contact Mustang Today!

Did you know that Mustang Dynamometer accepts Bitcoin for sales of new and used performance chassis dynamometers? Contact [Sales@MustangDyne.com](mailto:Sales@MustangDyne.com) for more details.



Mustang Dynamometer has many essential accessories for any complete dyno cell, as well as promotional items as well. Visit [MustangDyne.com](http://MustangDyne.com) for more details.



### ***Jbox***

As the primary vehicle data collection device, the Jbox is portable and connected by 15-ft USB cable to the server and has all the inputs ports for tachometer and all the sensors needed.



### ***Aluminum Ramps***

Manufactured from high strength aluminum material, Mustang's ramp package is lightweight and easy to move in and out of position by a single person.



### ***Jbox Accessory Kit***

Measure engine speed by clamping the Inductive Pickup Sensor around a Secondary Ignition cable. While traditionally used on a Spark Plug wire, it can also be used on a coil wire to achieve improved measurement response.



### ***Composite Ramps***

Available for the MD-150 series chassis dynamometers, and manufactured from light weight industrial composite, these ramps are lightweight and easy to move in and out of position by a single person.



### ***Optical RPM Pickup Sensor***

Unaffected by electromagnetic interference, this sensor works by monitoring light as it bounces off a piece of reflective tape applied to a rotating object. It works where inductive pickups may not.



### ***Standard Engine Cooling Fan***

Generates air flow of 10,800 CFM. Additional options include automatic fan speed controller and adjustable fan height.



### ***RPM Sensors and Adapters***

From inductive to capacitive, tachometer with digital outputs, capable of interfacing with test, data acquisition, and measurement equipment. Compatible with both JBOX and SMARTACH equipped systems.



### ***Premium Engine Cooling Fan***

Generates up to 32,000 CFM and features a variable speed motor controller to match the fan's output airflow to the dynamometer's roll speed.



### ***Air/Fuel Ratio Oxygen Sensor***

Accurately determine exhaust gas mixture over a wide range of engine conditions with this air/fuel ratio oxygen sensors. Integrates controller/data acquisition system for graphing AFR against horsepower, torque and engine RPM.



### ***Premium Five Gas Analyzer***

Accurately measure the 5 major gases contained in the vehicle exhaust stream. Seamlessly integrated with your dyno controls, DAC system for graphing each gas against horsepower, torque and engine RPM.



### ***OBD-II Adapter w/Software***

Provides a direct connection to the vehicle's OBDII port, where every critical engine parameter can be captured directly from your vehicle's computer into the dynamometer controller software.



### ***Exhaust Extractor Unit***

This system is the best way to protect mechanics and garage employees from the potentially harmful gases released from vehicles running on the dyno is to capture it at the source: directly at the tailpipe.



### ***Oil Temperature Sensor***

Accurately measure and monitor engine oil temperature. Closely monitoring engine oil temperature ensures your dyno runs are comparable and increases repeatability.



### ***Emissions Analysis System***

MD-VMAS system allows for expanding your capabilities by measure emissions while running EPA drive cycles, and tune vehicles more accurately under steady state conditions.



## Hole Shot™ Control Software

Mustang adopted web-based technology in 2016 when it embarked on a new project to advance dynamometer technology and simplify its offerings. Mustang's goal was to increase commonality and provide customers with a more powerful and easier to manage controls package. Mustang already offered a full menu of testing capabilities. *Hole Shot* control software increases access and decreases clutter. Being a web-based systems, Mustang can better service thousands of customers world-wide from one location and keep them on the most up to date system available. All enhancements can be pushed to all customers at the same time making sure all installations are up to date.

*"Your tuner can watch the dyno run from anywhere in the world. So, you're not just sending logs anymore, you're actually able to watch it live - Real time."*

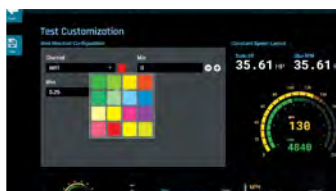
*- Speed Society*

*Hole Shot* control software comes standard with every new performance chassis dynamometer Mustang produces. The software offers an advanced DragSim feature that includes custom 3D drag strips, vehicle avatars, and playback modules that allows your customers to share their experience with others.

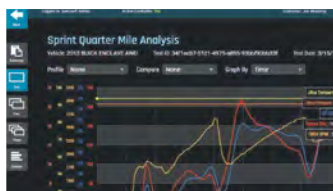
## Benefits

- Automatic system upgrades via cloud computing
- Service and support the dynamometer via the web making resolving issues easier
- Video streaming capabilities for viewing and interacting
- Multiple clients can log into the system all at the same time
- Designed for Remote Teaching and Learning

### Customizable Interface



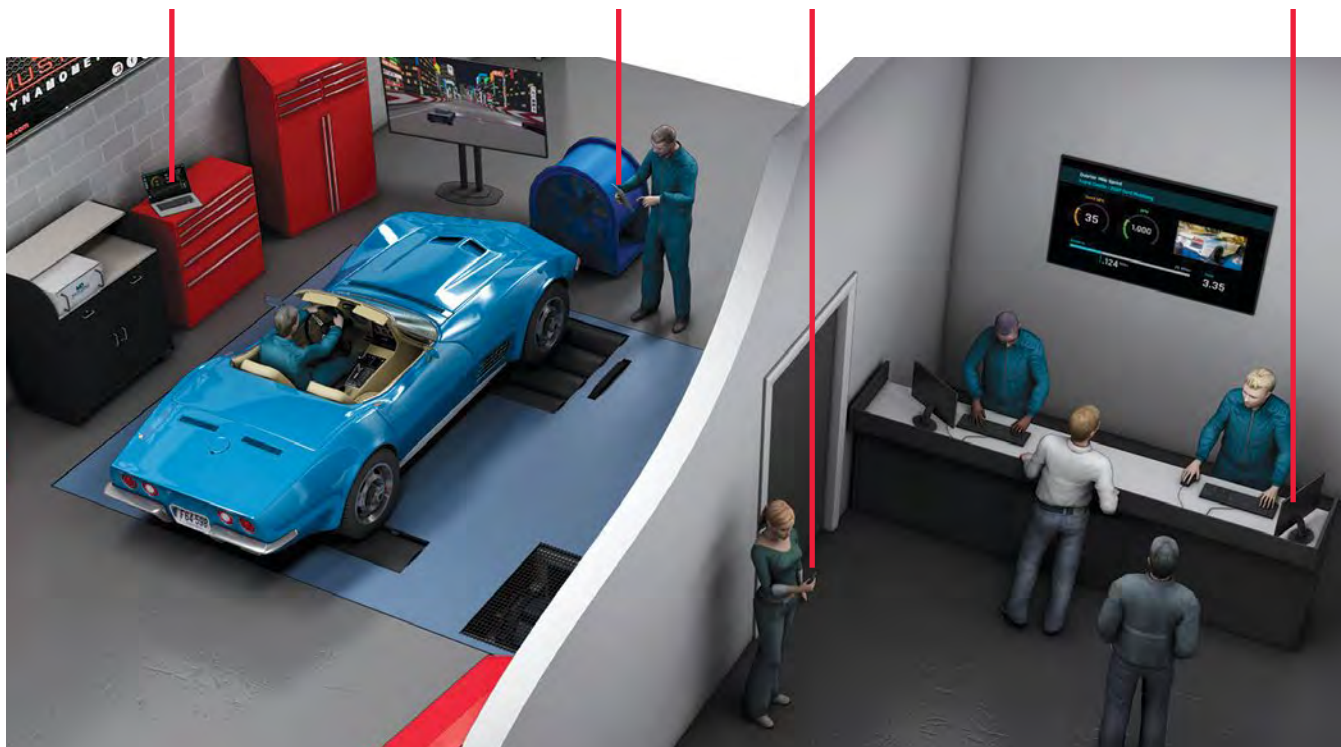
### Wireless Access



### Live Data Broadcast



### Scheduling, Loading Data





## Hole Shot™ Control Software

Mustang Dynamometer's Hole Shot™ dynamometer controls software utilizes web based techniques, an HD camera, social media and modern tech to help transform your Mustang dyno into a self-promoting digital business. Customers can schedule runs, obtain their data and share results via an app we provide making data entry a thing of the past; simply enter in the user's handle or email address, click on their icon and start testing. Shop branded videos, runs and photos are automatically delivered to your customer from the software eliminating the need to print results.

Because of its capabilities, *Hole Shot* software is perfect for remote learning for automotive technical schools as well as performance tuning shops.

## Features

- Linux powered 4U industrial rack mount chassis with powerful micro PC
- Mustang's GEN4 DAC32 32 bit digital controller
- Remote camera kit - auto run record with your watermark
- Wi-fi OBDII
- Powerful data graphing utilities
- Multiple run graph overlay
- Full database facility for storage/retrieval of test info
- Export data to your favorite programs
- Customizable test reports with your company logo
- Easily export graphs as .jpg files

Visit [MustangDyne.com](http://MustangDyne.com) for more information about *Hole Shot* control software.



Perfect for Classroom and Remote Learning



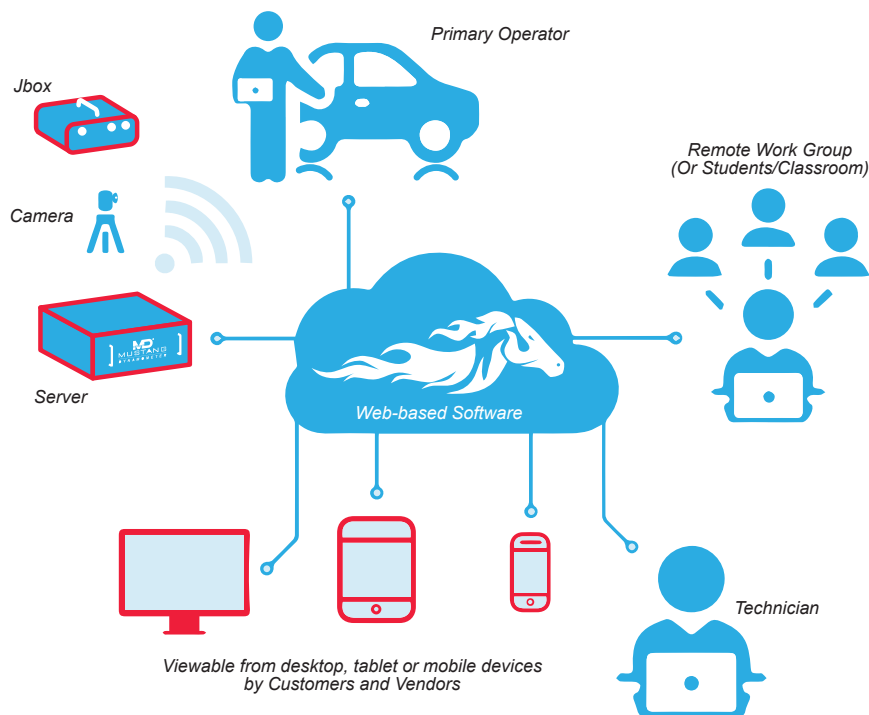
Customizable graphs



Hole Shot DAC Server



Using Wi-Fi, tune from any smart device





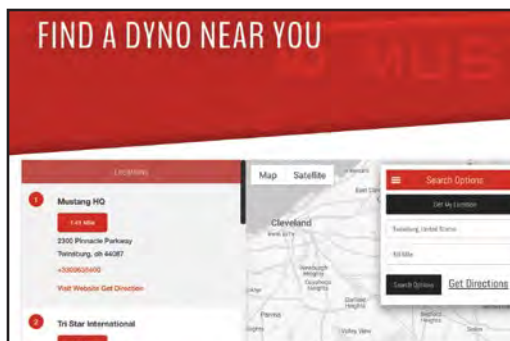
Installation Assistance



On-Site Training Available



Mustang Dynamometer's Factory in Twinsburg, OH



Marketing Support

## Installation Assistance & Training!

Mustang Dynamometer has a team of highly-skilled technicians on staff to assist you with your dyno installation. Once your dyno arrives at your facility, one of our highly trained experts will be on site for a full two days to assist you every step of the way to ensure that your dyno is installed properly, is running flawlessly, and your staff is familiar with its operation. This service is available worldwide and is your assurance of a flawless and quick installation.

While on-site for installation assistance, a Mustang technician will train your entire staff on the proper use of the dynamometer hardware and software. Mustang factory technicians know the dyno systems inside and out, and will fully train your staff, performing hands-on training, including vehicle set-up and restraint, Hole Shot Software instruction, proper testing methods, troubleshooting, sensor and data acquisition usage, and tips on getting the most from your dyno.

## Want to see how a dyno is made?

We're proud of what we do, so we love to show off. We're so convinced that when you see the quality of our products and the way they are made, with all-American ingenuity, you'll be impressed. So much so, that you'll probably want to buy a dyno. To cover your travel expenses, we'll give you \$1,000.00 off the cost of a new chassis dynamometer.

Tours are 3 hours long, and are booked on weekdays, either 9:00 am to 12:00 noon, or 2:00 pm to 5:00 pm. Saturday tours are by special requests only. Email [sales@mustangdyne.com](mailto:sales@mustangdyne.com) for further details. For available/open dates, visit our website and fill out the request form.

- Quick visit with sales, operations, engineering and design departments
- Tour of Mustang's 100,000 square feet of manufacturing floor space
- See complete engineering, balancing, metal fabricating, machining, painting, assembly and testing operations
- Witness a dyno pull of a company car
- Watch a demonstration of controls software.

## Marketing Support

Every customer who purchases a Mustang dyno has all the marketing support of Mustang Dynamometer behind them. From banners, promotional items, and social media "shout outs", Mustang helps each of their customers. "Your success is key to our success," says Dave Wypasek, of the Mustang Marketing and Social Media Development Department. When a new dyno is shipped to a customer, that location is added to the dyno-locator map on the Mustang website, which is a great marketing tool. This map is the third most visited page on Mustang's website, and key in getting potential customers to find your location. If you are a new customer to the Mustang family, or interested in purchasing a dyno and have questions, feel free to contact Mustang Dynamometer.





### **Area1320**

"We have had our Mustang Dynamometer for 6+years. In that time we have racked up almost 55,000 miles on it. Let's just say we use it a lot. We may not post every car on the dyno but we sure use the hell out of it. And its treated us great because we maintain it religiously. Great product, great people, great company to deal with."

- Area1320, Nazareth, PA



Area1320 in Nazareth, Pennsylvania

### **Buschur Racing, Inc.**

"After a lot of looking around we decided on the MD AWD 500SE dyno. I've never looked back since. It has been dead reliable for the last 3 years with not a single problem. We now tune every single car we build on the dyno and find no need for street tuning. When the cars hit the race track they are tuned correctly. Instead of spending time doing further tuning like we had to do in the past, now we can just concentrate on setting more records."

- David Buschur, President of Buschur Racing, Inc.



AEM Performance Electronics in Hawthorne, CA

### **AEM Performance Electronics**

"We use our dyno daily and it has performed very well and has been very reliable. Most importantly, we have found that Mustang has been an excellent partner with respect to helping us with the servicing of the dynamometer. The customer service group has been VERY responsive and helpful whenever we have needed help. With the shift in the market to more R&D of performance EVs, which output big torque at low RPM, we had Mustang upgraded our MD-1750 dyno with a second power absorber unit (PAU) and both new hardware and software to the controls system. Now our dyno can handle max speed of 250 mph, and a HP measurement rating of 3,500-hp."

- John P. Concialdi, AEM Performance Electronics



JP Euro in Garland, Texas

### **JP Euro**

In Garland Texas, JP Euro recently purchased a movable base, below-ground, MD-AWD-800-BG dyno and has this to say about it: "Big shout out to team Mustang dyno! These guys are second to none! Don, Mike and the entire crew. If you are in doubt (about) writing a 100K check. DON'T. Mustang Dyno buy Once.. Cry Once!!!!!"

- McClaren Phan, Owner of JP Euro

### **S3 Stout Speed Solutions**

"We love our Mustang dyno. We use it often, and it has helped us with promoting our place. It's reliable, consistent, and has been a great asset. It's been an investment worth having. It's been a selling feature for our shop. And the Hole Shot software is easy to set the load, run quarter mile drag tests. The customer service has been great. If there's any problems, we give Mustang a call and we figure it out and get it running as good as new. I can't say enough how tremendous it has been to own a Mustang dyno."

- Brian Stout, Senior of Stout Speed Solution



S3 Stout Speed Solutions in Murrells Inlet, SC



## ***About Mustang Dynamometer***

For over 45 years, Mustang Dynamometers has been a leading manufacturer and designer of the highest quality, most accurate chassis dynamometers for the performance market and emission testing programs worldwide. Our sister company, Mustang Advanced Engineering, has created world leading testing solutions for advanced hybrid and electric vehicle development, wind turbine gearbox testing, military vehicle development test stands and advanced testing and simulation systems for tomorrow's future technologies. Visit [MustangDyne.com](http://MustangDyne.com) and [MustangAE.com](http://MustangAE.com) for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram.

## ***Research and Development***

Mustang Dynamometer continues to allocate a substantial amount of capital into Research and Development. This has allowed Mustang to lead the pack in new innovations and introduce new products to the market place in a timely fashion.

In today's dynamic environment, technology continues to change and Mustang is at the forefront of developing new technology and integrating this new technology into the testing world. This significant Research and Development budget has allowed Mustang to experience growth through these improvements and the development of new products and services. Our Research and Development efforts have lead to improved productivity and with this improved productivity we have been able to pass along savings to our customers. We make all attempts to anticipate customer demands and invest heavily for innovative solutions which always keeps Mustang ahead of the curve.



**Mustang Dynamometer**  
2300 Pinnacle Parkway  
Twinsburg, OH 44087  
Phone: (330) 963-5400  
Fax: (330) 425-3310  
Email: [Sales@MustangDyne.com](mailto:Sales@MustangDyne.com)  
**[MustangDyne.com](http://MustangDyne.com)**

Photography courtesy of  
Mid Florida Dyno, Area1320, JP Euro,  
Renn Sport Performance - RSP, S3 Stout Speed Solution,  
EnginePlus Motorsports, Speed Society, Garrett Tuning,  
and RE Performance & Tuning