Mustang Dynamometer, the global leader in dynamometer technology, offers a complete lineup of dynamometers and testing products to engineers worldwide. Our EDU-Tech products allow educational institutions to train and educate students on the very same testing equipment they will encounter in the real world - preparing them for a successful career as an automotive, diesel or powersports technician. Attract the best and brightest students with the best diagnostic testing equipment - EDU-Tech by Mustang Dynamometer.

**EDU-Tech Products**
- Engine Dynamometers
- Chassis Dynamometers
- Transmission Dynamometers
- Emissions Testing Equipment
- Advanced Data Acquisition & Dyno Controllers
- Automotive, Powersports & Heavy-Duty Diesel

**EDU-Tech Features**
- Educational Discounts Available
- 18-month Extended Warranties
- Factory Training and Service
- Free Lifetime Technical Support
- Teach on the same equipment students will encounter in the field after they graduate!

Visit [www.mustangdyne.com](http://www.mustangdyne.com)  Call Toll Free 888-468-7826
Mustang offers a complete line of chassis dynamometers to support both diagnostic and high performance testing programs.

Our patented Roadmaster OBDII chassis dynamometer helps you simulate on-road driving conditions and reset OBDII monitors via an on-screen tutorial and driver’s aid.

Our world-class performance chassis dynamometers are available in many styles and both AWD and 2WD systems are available. Mustang offers over 20 different model chassis dynamometers for automotive applications.

Mustang is far and away the industry’s leading supplier of chassis dynamometers, having supplied thousands of systems worldwide over the past 30 years. With such a large share of the chassis dyno market being Mustang brand dynos, your prospective students are familiar with the Mustang Dynamometer brand and will want to attend a school that prepares them for the real world and the actual equipment they will be using once they graduate. Schools with Mustang equipment attract the best and brightest students.

Mustang has always supported the efforts of teachers and professors to give students access to the industry’s most advanced testing equipment. Whether it be supporting a school’s SAE Team with a state-of-the-art chassis dynamometer, supplying an advanced hybrid powertrain test stand for hardware-in-the-loop testing, or supplying a universal transmission dynamometer, Mustang has advanced testing solutions that assist schools in developing world class curriculums for attracting the best and the brightest students.

Mustang has supplied advanced testing equipment to institutions such as Lawrence Technological Institute, Rochester Institute of Technology, Kettering University, University of Alabama, Ohio State University, University of California-Riverside, Princeton, Michigan State University, Cornell and countless other prestigious institutions. The equipment supplied has ranged from advanced AWD chassis dynamometers to sophisticated hardware in the loop simulation test stands for hybrid development and research programs.

As a leader in the dynamometer industry, Mustang considers our role to be more than just a vendor to schools. Mustang considers our partnerships with institutions of higher education to be one of our most important endeavors. In addition to offering school discounted pricing, Mustang also offers no-charge training at Mustang’s Training facilities in Twinsburg, Ohio. Technical support is offered to schools at no charge, and routine calibration and check-out services are available to schools to keep equipment calibrated and operating within specifications at all times.

When your school or institution is ready to make an investment in R&D testing equipment, give us a call and let us show you why so many other world renowned institutions have trusted Mustang to be their systems supplier and engineering partners.

Mustang’s EDU-Tech products allow educational institutions to train and educate students on the very same testing equipment they will encounter in the real world and prepares them for a successful career as an automotive, diesel or powersports technician.

Known as the best - by the best!

Testimonial:

“ Mustang’s EDU-Tech products allow educational institutions to train and educate students on the very same testing equipment they will encounter in the real world and prepares them for a successful career as an automotive, diesel or powersports technician.”
ED Series Engine Dynamometers

Mustang's ED Series Air-Cooled Engine Dynamometers are the answer for most engine testing applications due to their excellent stability, accuracy and testing range. Unlike similarly priced water brake systems, the ED Series offers reliable, steady state control from near zero speed to maximum RPM. The system is also air-cooled, which eliminates water from the test cell and greatly reduces the maintenance burdens that are typically associated with water brakes and water cooled dynamometers.

The ED Series Dynamometers are available in four ranges – the 40 Range for high speed small displacement engine testing (internal combustion engines), the 70 Range for standard automotive engines and high speed four and six cylinder racing engines, the 140 Range for standard 6-cylinder and 8-cylinder automotive applications and light and medium duty diesel engines, and the 400 Range for testing large diesel engines. The 70 and 140 Ranges each have three separate products to handle a wide range of power requirements. The 40 Range is available with two products and the 400 Range is available with three. Additionally, each system is available with optional mechanical equipment upgrades to augment the testing needs for each client – including electric starter systems, electric motors for measuring engine parasitic losses, and gear reducers for testing very high RPM engines common in motorcycles, ATVs, and snowmobiles.

LDU-40 Universal Automotive Transmission Dynamometers

Mustang’s latest product innovation for automotive transmission repair and remanufacturing professionals is the MAE-LDU-40, a universal automotive transmission dynamometer that represents the most advanced, next-generation dynamometer for testing automatic passenger car and light truck inline and transverse transmissions.

Mustang designed the LDU-40 to specifically address the shortcomings of the standard transmission dynos found in the market today. The result is a transmission dynamometer that is more easily adaptable, more accurate, more user friendly, with a more flexible software and data acquisition package, and most importantly, is more sensible from an economic standpoint.

The LDU-40 is a quantum leap forward from the outdated systems that once upon a time were considered state-of-the-art. Take your transmission testing to an unprecedented level of accuracy, efficiency and usability.

Forget the hassles of using custom mounting plates and spacers to get a torque converter fitted just right. Mount and test transmissions faster and easier than ever before with a universal system so flexible, you can change setup configurations in a matter of minutes, with a single operator.

Our patent-pending Universal Adapter Plate virtually eliminates the need to have expensive custom plates for each transmission you need to test – saving you both time and money and simplifying your testing operations.
**Motorcycle, Quad & Scooter**

**Chassis Dynamometers**

Mustang’s EC997 Series, our standard eddy current motorcycle chassis dynamometer, takes motorcycle performance tuning to the next level. The EC997 Series uses the industry’s most advanced electronics and Dynamic Load Control technology, featuring precision closed-loop torque feedback - a standard feature with every Mustang dynamo. Competitor dynos on the market allow you to apply a "percent brake" manual load as a "work around", but Mustang has perfected the art and science of Dynamic Load Control and proudly offers the most sophisticated Dynamic Load Control dynamometer available at any price. Our superior control technology combined with our ultra low inertia design allows you to efficiently manage loading, enabling RPM settling on target RPM in less than 1.5 seconds. To do that with a heavy drive roller and insufficient control technology - You simply can’t!

Some of the Mustang Advantages Include:

- **Superior Load Control and Software**: Not just "load control" - it’s our exclusive Dynamic Load Control (DLC) that enables RPM settling on target RPM in less than 1.5 seconds.
- **Best Sweep Test**: Our DLC system actively controls sweep rate, accounting for engine power changes and flat spots, so 125's to 1400cc all have proper loading - not uncontrolled sweep rates due to heavy drive roller "old" technology.
- **Best Data Recording**: All automatic recording - no silly buttons to push to record data.
- **Best Tire Traction**: Our patented 80/20 surface/groove drive roller significantly improves traction and virtually eliminates tire slippage without the need to apply excessive down force with straps.
- **Best Front Wheel Chock**: Holds the bike up, with or without straps for easy one man loading and operation.
- **Best Working Height**: Able to safely work on the bike on the dyno as it’s only 12 inches off the ground (compared to other units that are up to 18 to 20 inches off the ground)
- **Best Front Wheel Beam**: You can walk right up to the bike, as the front wheel beam is only 32" wide, avoiding wasting valuable work space around the dyno.
- **Best Tuning Support**: We offer unparalleled technical support to help you quickly tune beyond "air fuel ratio" and teaches you how to tune for best power.
- **Emissions**: The world’s largest 5 Gas/2 Gas emissions tuning database, including initial, intermediate and final data.

**SIDELINE**

**Drag Racing Dynos**

Mustang has built a number of custom portable side-by-side drag racing dynos for Harley-Davidson’s “Experience Acceleration” attractions where riders can climb aboard and race each other on a virtual drag strip. Mustang has also supplied a number of end-of-line production test cells used for validation testing H-D bikes as they come off the production lines.

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**Powersports Products**
Globally there is a constant and growing demand for meaningful reductions of diesel emissions from heavy-duty trucks and buses. Significant research and development is taking place continuously around the world by leading corporations, universities and other public and private researchers. Their goals are to improve the efficiency of heavy-duty powertrain systems and develop the next generation of advanced hybrid engines and transmissions for heavy-duty diesel vehicles. These efforts require highly sophisticated and technically advanced heavy-duty vehicle test systems. Mustang offers a complete line up of AC Motor and/or Air-Cooled Eddy Current Chassis Dynamometers that are capable of testing a wide range of commercial trucks, buses, agricultural, industrial, military and multi-axle heavy-duty vehicles.

Heavy-duty applications have long been a specialty and area of technical expertise for the team of testing and applications engineers at Mustang. Whether your teaching application involves emissions, powertrain or NVH challenges, MAE has an equipment and system solution to meet your needs as well as your budget.

MAE offers Heavy-Duty AC Motor and/or Eddy Current Chassis Dynamometers with roll diameters ranging from 20” to 120” (508mm - 3,048mm) with multi-axle and adjustable wheelbase configurations to handle virtually any application you can imagine. Regardless of the unique challenges of your application, Mustang has a cost effective solution to meet your heavy-duty vehicle testing needs.

Mustang offers an extensive product offering of dynamometers and engine test cell products for all of engine testing and teaching applications. Mustang’s product offering is designed to meet fractional to 25,000+ hp and speeds up to 100,000 rpm, with a complete line of dynamometer controls, data acquisition, engine electronics interface and conditioning modules. MAE offers customers products from a single engine test cell component to complete custom tailored systems or test labs. MAE’s extensive range of standard product offerings includes AC, permanent magnet, DC, servos, water-cooled eddy current, air cooled eddy currents, hybrid AC/EC, water brake, hydraulic clutch plate brakes and other sophisticated engine loading devices.

Mustang is far and away the industry leader for transmission dynamometers and transmission testing components. We offer a full lineup of products to test light-duty, medium-duty, heavy-duty, extreme heavy-duty, in-line and cross-drive transmissions. Our products are used in advanced research and development labs, prototype labs, production environments, repair and remanufacturing facilities and at countless universities around the world.

Mustang’s transmission dynamometers are designed to accurately simulate engine input speeds via variable speed AC Dyne Motors. Output loading is typically accomplished using Eddy Current PAs, or in some cases, additional AC Dyne Motors. Mustang Heavy-Duty Universal Series offers the perfect combination of flexibility and affordability for Heavy-Duty applications.
Transmission Valve Body Testers

Mustang’s Electronic Valve Body Tester is the most advanced valve body tester in the industry. With a host of features, this unit will simulate operating conditions more accurately and precisely than any other system in the marketplace. The MAE-VBT can reduce rebuilding labor time for mechanical valve bodies by helping adjust shift points prior to installing the valve body. Accurate adjustments can be made to full throttle upshifts, downshifts and closed throttle upshifts and downshifts. Mustang’s software allows precise adjustments to the shift pattern or schedules.

Transmission Solenoid Testers

Mustang’s unique approach allows our solenoid tester to calculate the hysteresis and control all types of electronic solenoids with the use of the proper frequency and duty cycle. This powerful tester allows users to control every type of electronic solenoids from Ford, Nissan, GM, Toyota, Chrysler and many other manufacturers.

Advantages of Mustang’s Solenoid Testers:

- Exclusive Learn Mode - learns a good solenoid
- Advanced 10-Bit Resolution
- Test at the proper Frequency and Duty Cycle
- Easy to use Windows software
- Automated PASS/FAIL Testing

Transmission Control Modules

Mustang’s MAE-TCM Transmission Control Module allows you to control all types of electronic automatic transmissions by the use of the proper frequency and duty cycle and is fully programmable via a user-friendly PC-based Shift Table Editor.

Test Cell Hardware, Software & Accessories

Mustang has a complete line of accessories for test stands, test cells, and test facilities. Mustang offers hardware and software for your existing testing environment. Available items include electronic data acquisition & boom boxes, electronic controlled actuators, fluid conditioning and measurement units, ECM interface equipment, tachometers, engine carts & stands, TCM modules, remote hand pendants, coolant systems and a host of other test cell accessories.
Attract the Best & Brightest Students
By Offering the Best
Testing & Diagnostic Equipment In The Industry.

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