

## OTHER DYNOCOM MODELS



DC-POD



5000 SERIES



AWD 5000



7500 SERIES

# DYNOCOM INDUSTRIES INC.

AUTOMOTIVE DYNAMOMETERS & DIAGNOSTIC TEST EQUIPMENT

# AWD 7500



**DYNOCOM**  
RACING

● In early 2000 Dynocom Industries was formed as a division of its parent company which has been successfully operating since 1975. At Dynocom Industries we saw a need to make an affordable chassis dynamometer system with all the options utilizing the latest technologies (wireless, 3D, USB, etc). Historically the automotive industry has been slow to adopt cutting edge data acquisition controls. Coming from the high-tech sector where speed-to-market is critical we took the same ideologies and transformed them into Dynocom Industries. Utilizing Dynocom's parent company (Chemical/Manufacturing) know-how, Dynocom evolved into the fastest growing dynamometer company in the world. From our two years in Beta testing to our 7th year in business we have doubled in size every year (both in square footage and in personnel).

● We pride ourselves on our commitment to customer service; we survey our existing customers every six months for their feedback on our systems. We have set up a free user forum on our web site which is available 24 hours a day, 7 days a week. We strive to provide the best quality (now industry leader with 2 year warranty) and the best service. Contact our sales department for a list of customers you can contact for references. We understand that a dynamometer purchase is a substantial investment and we are proud to support our customers and their business for the years to come.

● On September 1st, 2006 Dynocom Industries opened our United States Headquarters in Fort Worth, Texas. Texas is the perfect location with the DFW hub and easy access for our international and domestic customers. This location is great step forward for Dynocom Industries. We need to be where our customers are and Fort Worth, Texas as our American headquarters is a perfect place to be. With the opening of our new Training and Technical Center, new and existing customers can visit us easily. Now with offices in Japan, New Zealand, Australia and South East Asia our products have global support and recognition. Call or visit [www.dynocom.net](http://www.dynocom.net) for the latest news, products updates and technical bulletins.

DYNOCOM INDUSTRIES INC.

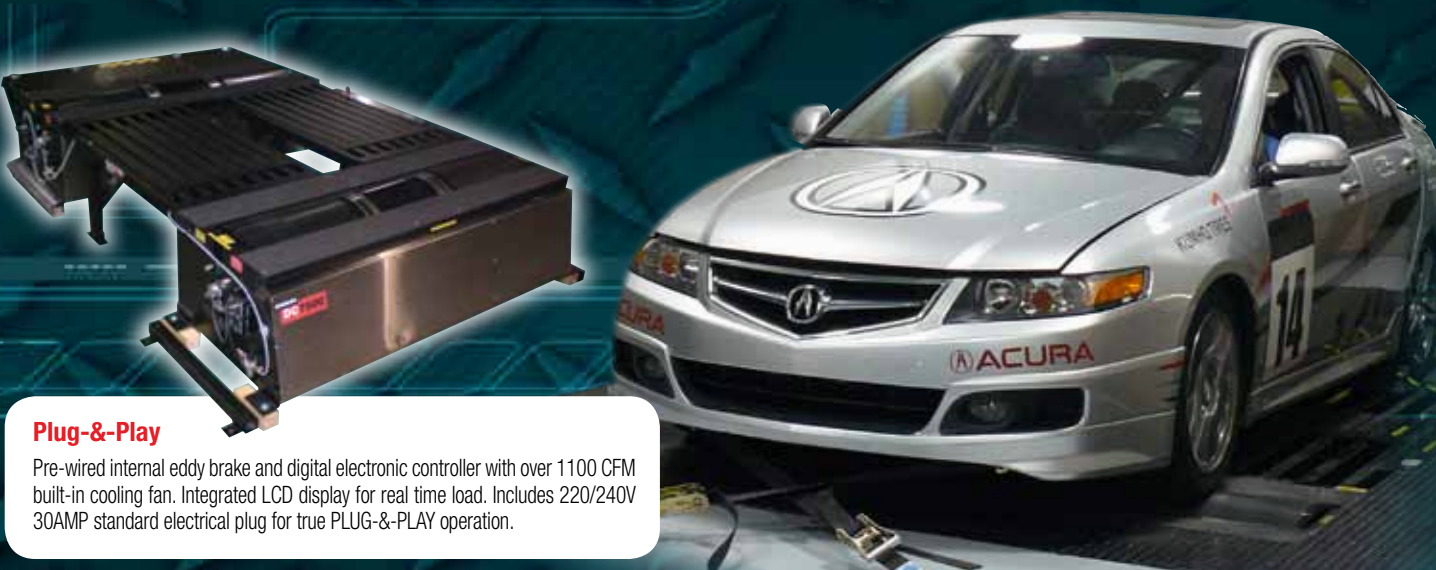
PRICE. PERFORMANCE. PERIOD.

**Stand-Alone Data Acquisition System**

Dynocom designed its data acquisition system (DAS) with accuracy and reliability in mind. The central unit, the DC-Controller controls all dynamometer operation. Customers can actually run their dyno without the need for a PC. Unlike other companies who use off the shelf DAS, Dynocom's DAS is designed specifically for use with Dynocom Dynamometers. This provides the most seamless operation and performance. All the DAS is computed by the processors (5) in the DC-Controller rather than the processor on the PC.

**State of the Art Roll Speed Sensors**

Dynocom dynamometers utilize the most advanced roll speed sensors in the industry. While the competition's sensors sample about 20-60 sample/RPM, Dynocom's sensor samples at over 100 samples/RPM. This means that the Dynocom sensor is much more sensitive which provides the end user with the most detailed information possible.



**Plug-&-Play**

Pre-wired internal eddy brake and digital electronic controller with over 1100 CFM built-in cooling fan. Integrated LCD display for real time load. Includes 220/240V 30AMP standard electrical plug for true PLUG-&-PLAY operation.

**Differential Analog Inputs**

Dynocom systems come standard with 4 differential analog inputs for sensors. Competitors only offer single ended inputs. Differential inputs are more noise immune and offer more accurate data faster. This allows the user to connect additional sensors (such as EGT, MAP, etc.) to the DC-Controller and plot those readings along with standard readings such as horsepower, torque and air/fuel ratio.

- All Dynocom chassis dynamometers are able to be installed in a pit or above-ground behind a standard 4-post lift or removable Ramps. Tight on space? No need to worry, the bi-directional roller allows for testing FWD and RWD easily.

**Hybrid Modular/Tube Frame**

Latest hybrid tubular modular frame offering the cost savings of a modular frame while retaining the strength of a tubular frame. Frame footprint has an increased base area and anti-vibration support pads offering the next generation of chassis dynamometers for increased speed, power, and smooth operation. Corrosion resistant powder coated frame and enhanced stainless steel enclosure -- a first in the dyno industry.

**Anti-Skidding Top Covers**

Another industry first; Dynocom dyno's have an exclusive anti-slip coating which is resistant to chemicals and oils. Regardless of installation, the anti-slip coating provides protection for employees and customers when working on or around the dynamometer.

**Accessibility Cover**

The removable access panel on the above ground kit allows the dyno operator better access when strapping vehicles onto the dyno. This removable cover allows the operator further reach under the vehicle and is further assisted with standard LED lighting -- a first in the dyno industry.



**AWD 7500 – EDDY BRAKE ON PRIMARY DYNO ONLY**  
**AWD 7500<sup>2</sup> – EDDY BRAKE ON EACH DYNO**

Dynocom has introduced the world's first affordable, truly compact, high performance and advanced AWD system with integrated load utilizing advanced, high performing, revolutionary designed power absorption units (PAUs) incorporated within the dynamometer rollers. This design allows for the first compact load capable chassis dynamometer by eliminating the need to extend the absorption units past the track width and, further; eliminates the need for CV joints or other mechanical couplings which may be a source of failure. This advanced design not only provides increased steady-state power absorption levels, but substantially increases load testing duration due to the utilization of the dynamometer rolls and their improved thermal dynamic heat absorption properties over the much smaller rotors found in other PAU absorbers. Furthermore, the design offers far superior scalability over our competitors. It is now possible to stack multiple absorption units within the rollers resulting in very high loading capabilities and without an increase in machinery footprint, currently not possible with any of our competitors systems.

The AWD 7500 AWD dynamometer system incorporates the latest in linear guided technology for precise wheelbase adjustments. Utilizing a pair of precision linear rod assemblies, advanced ball bearing units, a heavy duty pneumatic cylinder and electronic controls the wheelbase adjustment provides for trouble free and precise positioning over our competitors.

As with Dynocom's other dynamometer systems, the AWD 7500 systems incorporate an advanced stand-alone embedded electronic design offering the utmost in performance, providing micro-second timing accuracy, 1000 Hz/s analog input sampling rates, precision digital interrupt triggered speed & RPM inputs, optimized embedded software and precise synchronized clock/event timing provide for a higher performing, increased accuracy, reliable, and scalable solution. Combined with Dynocom's ultra-fast, micro-electronic designed PAU controller, the system provides precision speed synchronization and load optimization between the front and rear wheel driven dynamometer rollers eliminating any potential speed differential which may cause damage to the drivetrain of some AWD vehicles under test.



- With the advanced mechanical design of the AWD 7500, and reduction in unnecessary and failure prone components, the AWD 7500 is the most advanced and affordable AWD system in the world offering a level of performance, technology, and advanced superior design not found in systems priced at much higher levels.

**SPECIFICATIONS**

Maximum Torque	7500ft lbs + x 2
Maximum Speed	200+ MPH x 2
Drums	1 x 2
Drum Diameter	24"
Drum Width	86"
Wheelbase Minimum	90"
Wheelbase Maximum	130"
Maximum Axle Width	86"
Maximum Axle Weight	6500 lbs
Crated Weight	5200 lbs
Air Requirements	60 psi
Timing Accuracy	+/-0.1 µS
Drum Speed Accuracy	+/-1/1000th MPH
RPM Accuracy	+/-1/100th RPM