

We Make It Better

Rugged Construction. Accurate, Repeatable Results. Builds New Business.

- Identify new driveline problems leading to additional shop work
- Verify shop repairs are done right the first time to minimize “come-backs”
- Simulate real-world load conditions and varying terrain
- Troubleshoot inside cab with DDDL, Cat ET, Cummins INSITE™ and other systems
- Eliminate liability and time of road testing
- Document test results and generate performance graphs
- Conduct controlled break-ins after engine rebuild
- Determine trade-in value and upsell extended warranties with confidence
- Retrofits economically into most existing dyno pits



**Lifetime Warranty
on Frame & Rollers**



We Make It Better

Who We Are

Power Test, Inc. is an industry leader in the design, manufacture and sale of dynamometers, heavy equipment testing systems and related data acquisition and control systems. For nearly 40 years, Power Test has provided specialized test equipment to manufacturers, rebuild facilities and distributors in the mining, oil & gas, power generation, marine, trucking, construction, rail, and military markets in over 80 countries on six continents. Our headquarters and manufacturing operations are located in Sussex, WI with sales representatives worldwide.

How We Work

The Power Test team of innovative engineers, designers, software developers and sales consultants will SOLVE YOUR CHALLENGES with logical solutions. Our skilled machinists, fabricators, electronic technicians and assemblers build products to meet your unique needs. Our technical service experts are dedicated to working with you, anywhere and anytime. They travel the globe to ensure your equipment is running right and your staff is trained to operate it. Our exceptional product life and manufacturing expertise made us an industry-leading dynamometer manufacturer, as evidenced by our first machine sold, which is still in active use today!

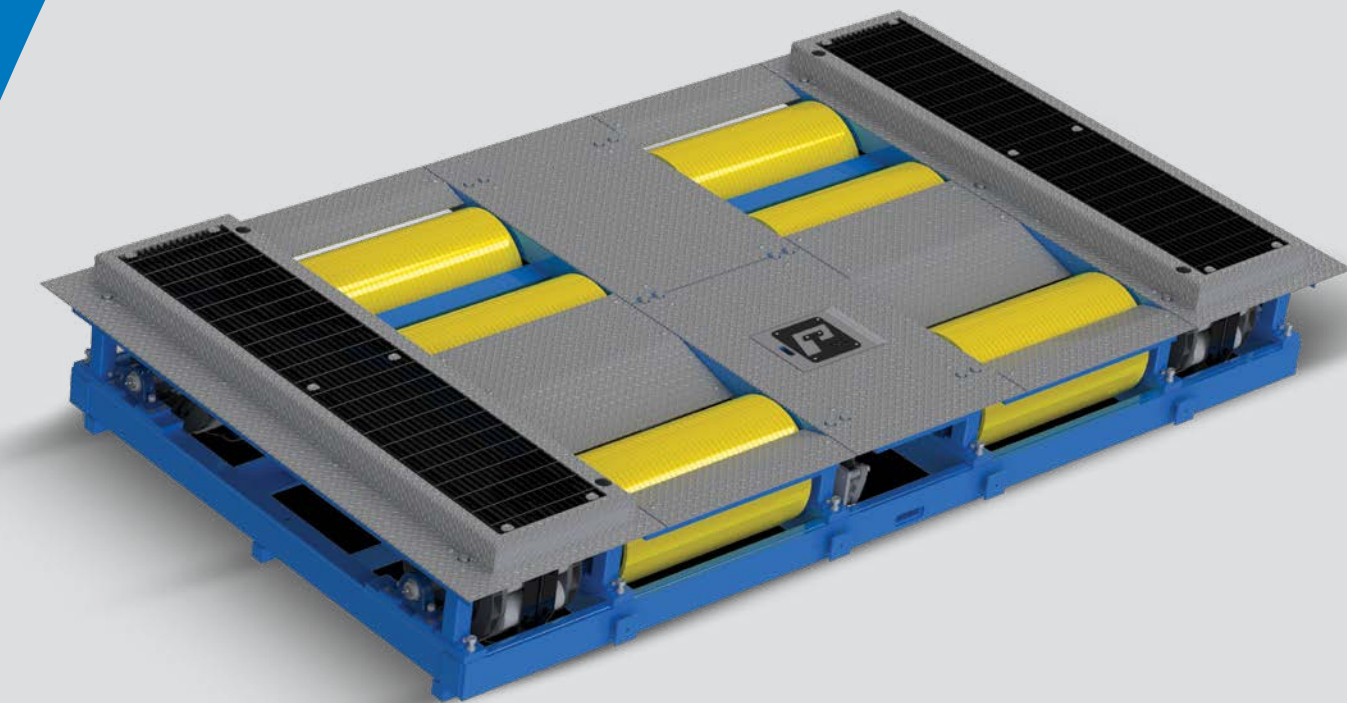
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Chassis Dynamometers
Product Brochure



EC-Series Chassis Dynamometers
www.powertestdyno.com

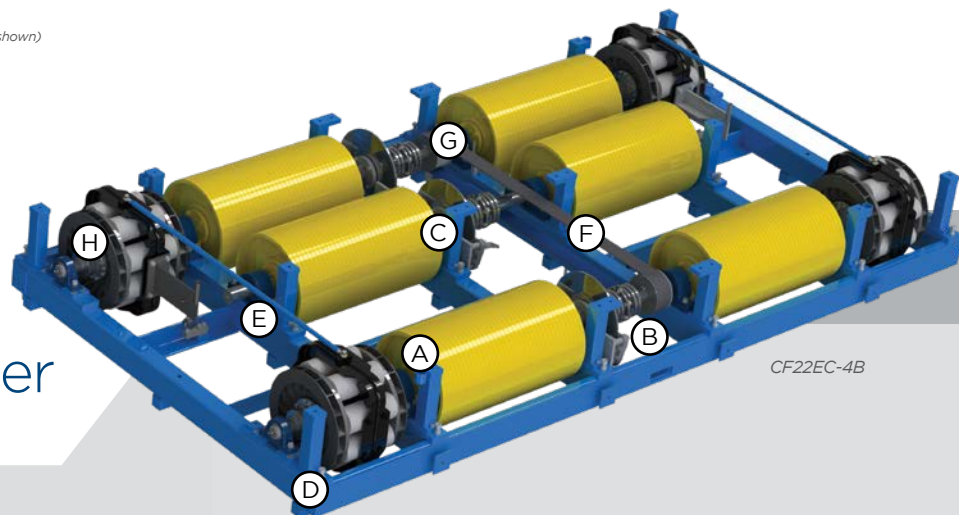


EC-Series Dynamometers

The Power Test EC-series of chassis dynamometers is built tough to give you years of dependable results and increased business. Featuring air-cooled eddy current load absorbers, the EC-series is designed to provide a heavy duty, cost effective dynamometer solution without reliance on water or a cooling system.

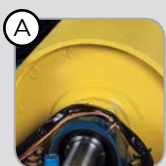
In addition to air-cooled load absorbers, the EC-Series features a precision ground, heavy duty steel frame, dynamically balanced rollers with proprietary siped traction grooves and Power Test's PowerNet CD computerized data acquisition and control system. The EC-Series chassis dynamometers are available with the absorbers on all four corners or in four left or four right configurations.

The EC-Series has been designed to fit into most existing chassis pits with minimal or no modifications necessary. The need for cooling towers, pumps and water treatment is eliminated by using eddy current load absorbers.

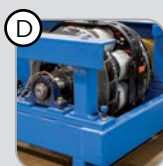


Features That Matter

It's what's under the cover that counts.



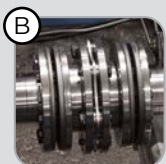
20" Concentric Welded Rolls
Thick walled rolls that are precision machined, stronger and dynamically balanced.



Unitized Box Tube Frame
Rigid, welded, corrosion resistant frame that is stress-relieved and precision ground - no floor shims needed.



Taper Lock Hub
Allows easy roll shaft disassembly and inexpensive replacement.



Steel Flex Disc Couplings
No backlash, no maintenance with easy serviceability.



Four bolt Roller bearings
Rigid and long lasting.



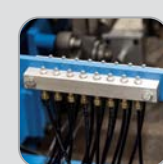
Electric Eddy Current Absorber
Eliminates the installation cost, repairs and maintenance of a water system. Only requires a 220 VAC/40 Amp electrical circuit.



Roll Brakes
Pneumatic disc brakes which require less maintenance.



Belt Driven Design
Higher HP capacity, no gearbox, less maintenance and long belt life.



Lubrication
Easy access single point lubrication manifold. *(not shown in above diagram because located on top frame)*

Testing Controls & Data Acquisition

PowerNet CD - The Future of In-Frame Testing
The PowerNet CD data acquisition and control system is designed to take chassis dynamometer testing to the next level. PowerNet CD utilizes a networked computer system to provide automated, repeatable vehicle tests - all controlled from a rugged wireless hand held device operated from the driver's seat! With the PowerNet CD data acquisition and control system, vehicle and work order information can be entered, then the desired tests can be recalled and run. For diagnostic purposes, engine-specific software service tools may also be connected to perform cylinder cutouts, reset cruise limits and perform other engine tests.

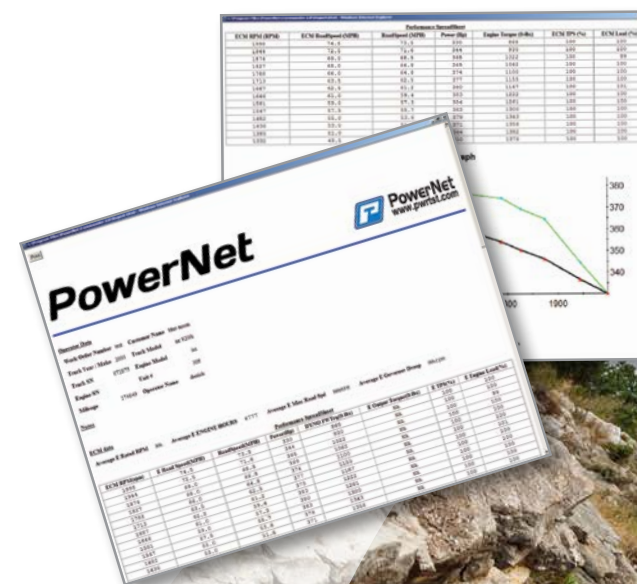
Standard ECM Interface
When connected to the system, electronically controlled engines can transmit valuable engine data, which is automatically merged with dynamometer information to be viewed, stored, reported and graphed. All of this information can be seen on the wireless hand held controller.

The Wireless Hand Held Controller
Power Test's wireless hand held controller provides the ultimate in behind the wheel instrumentation and control. The touch screen interface device is all that



is needed to perform the tests. From behind the wheel, the operator selects a test pattern to be run, engages the throttle, and literally watches the vehicle automatically run through the steps of a repeatable test.

Detailed Information Reporting with PowerNet CD
PowerNet CD provides colorful screen captures, easy-to-read performance reports, and graphical charts. Now results obtained during a vehicle test, combined with vehicle specific information, can be confidently presented as a final confirmation of quality assurance - all with just a few clicks of the mouse.



Flexible Testing Modes

- Setpoint Operation**
- Allows the operator to enter a specific value for speed or horsepower on the hand held controller.
 - Dyno load is automatically adjusted and maintained until the next value is entered.
 - Increase or decrease these values incrementally or by entering the next numeric value.

- Pattern Run Mode**
- Allows the operator to run a desired test cycle created with PowerNet and begins by a touch of a button on the hand held controller.
 - Created on the Commander PC by selecting setpoints, the mode of operation, and entering the length of time each point is run, a pattern is constructed and it can easily be recalled and run from the hand held controller.

- Manual Operation**
- Allows the operator to have complete control over the chassis dynamometer's applied load.
 - The operator decides how much horsepower or speed should be reached by the engine and the duration of each test.

Chassis Dynamometer Specifications

Horsepower	CF22EC-4 622 HP 720 HP 800 HP	45 mph 60 mph 90 mph
Absorber	• Air-cooled eddy current load absorbers	
Controls	• PowerNet CD data acquisition and control system • Ethernet-based communications included • Windows®-based PC and dynamometer controller • Wireless hand held controller	
Roll Specs	• 20" diameter, precision balanced rolls • Proprietary siped traction grooves • 24" roll spacing • 36" inner track width • 108" outer track width	
Wheelbase	• 44.5"-60" accommodation	
Maximum Speed	• 90 mph (145 kph) continuous • 120 mph (185 kph) intermittent	
Axle Weight	• 30,000 lbs. (13,636 kg) maximum per axle	
Frame	• Precision ground, heavy duty structural steel • Above ground installation kit available	
Power	• 120 VAC single phase, 60 Hz, 15 Amps (controller) • 230 VAC single phase, 60 Hz, 40 Amps (CF22EC-4)	

All specifications subject to change

Accessory Options

Power Test manufactures a complete line of chassis dynamometer accessories to fit your specific testing needs. Some of those accessories include exhaust hood, above grade installation kit, pressure and temperature sensor kits, fuel measurement system and smoke opacity meter.



Designed To Meet Your Needs

Power Test has the knowledge and experience to design and manufacture custom chassis dynamometers to meet your specific needs. Many options are available including roll size, number of axles, weight capacity, power absorption, and the PowerNet CD control system.

