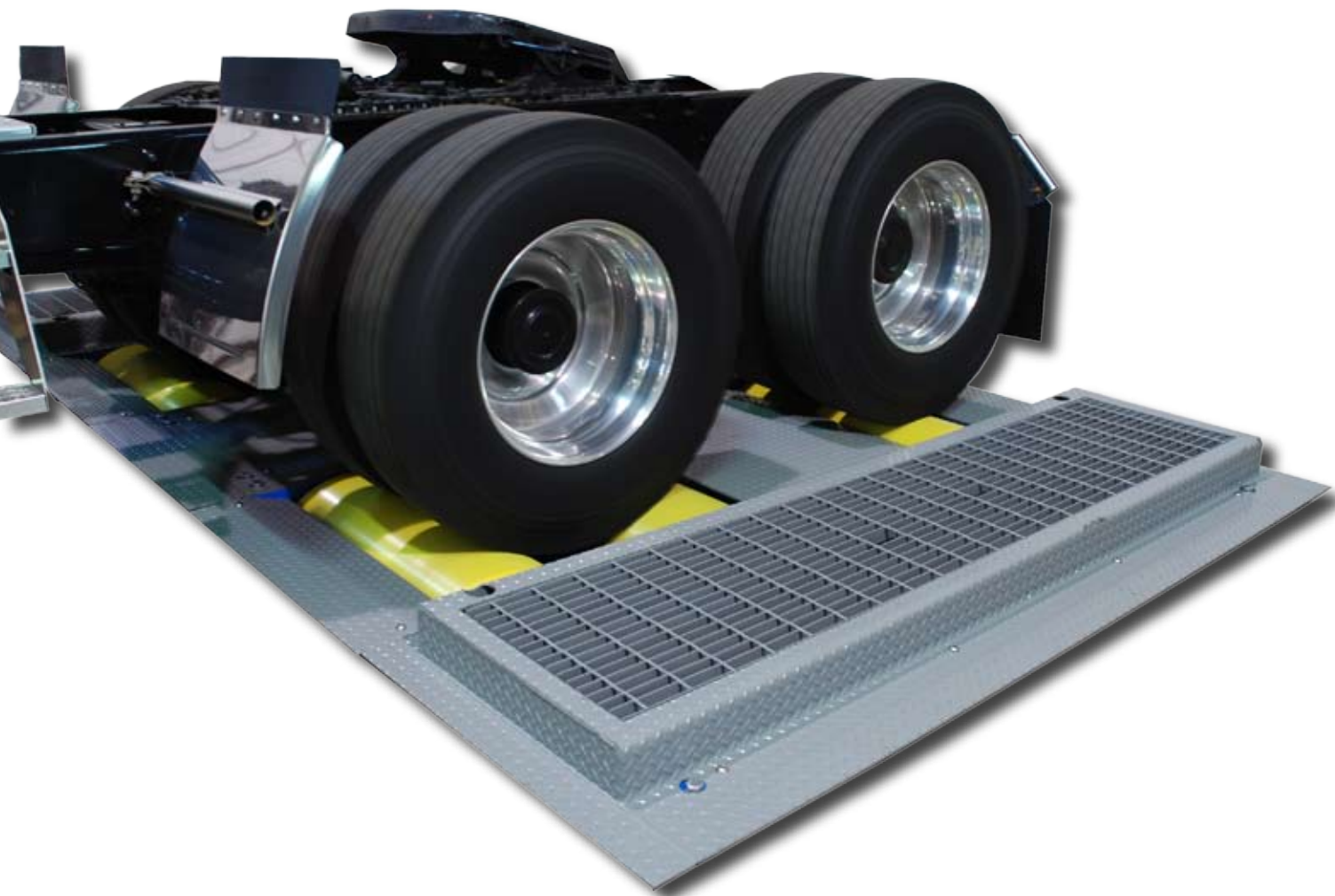
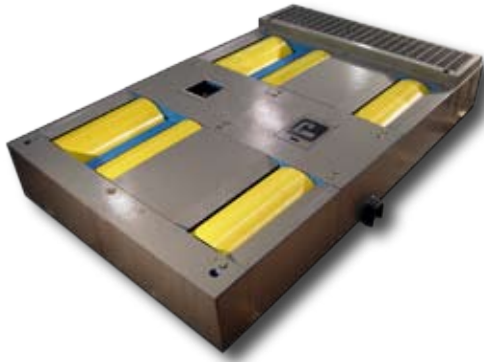


EC-SERIES CHASSIS DYNAMOMETERS



CF22EC-4 Chassis Dynamometer

EC-SERIES DYNAMOMETERS



Power Test introduces the EC-Series chassis dynamometers. 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 is destined to become an industry favorite with features, including 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 in both two absorber (CF22EC-2) and four absorber (CF22EC-4) configurations.

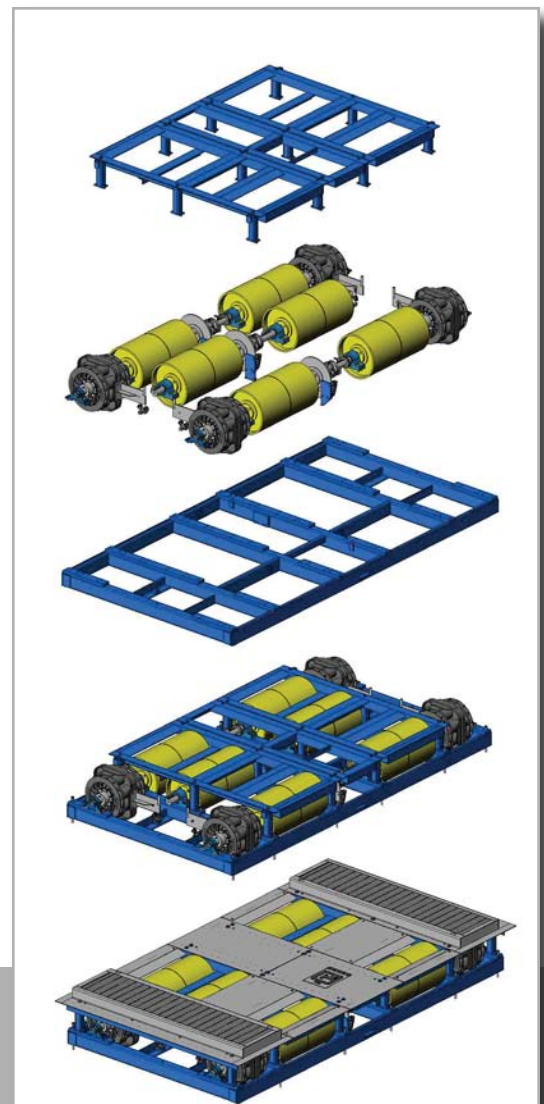
The EC-Series has been designed to fit into most existing chassis pits with minimal or no modifications necessary. The need for cooling towers, pumps, and water treatment is eliminated by using eddy current load absorbers.

The rigid construction of the EC-Series also allows for above ground installation by using the optional loading ramp and tie down kit. This provides a valuable option for those who are leasing a building or may relocate in the future.

When combined with the PowerNet CD data acquisition and control system and a variety of optional components, the EC-Series provides a comprehensive testing platform you can count on for years to come.

Specifications*

Horsepower**:	CF22EC-2		CF22EC-4
	290 HP	45 mph	573 HP
	342 HP	60 mph	676 HP
	426 HP	90 mph	840 HP
Absorber:	<ul style="list-style-type: none"> • Air-cooled eddy current load absorbers 		
Controls:	<ul style="list-style-type: none"> • PowerNet CD data acquisition and control system • Ethernet-based communications between included • Windows®-based PC and dynamometer controller • Wireless hand held controller 		
Roll Specs:	<ul style="list-style-type: none"> • 20" diameter, precision balanced rolls • Proprietary siped traction grooves • 24" roll spacing • 36" inner track width • 108" outer track width 		
Wheelbase:	<ul style="list-style-type: none"> • 48"-60" accommodation 		
Maximum Speed:	<ul style="list-style-type: none"> • 90 mph (145 kph) continuous • 120 mph (185 kph) intermittent 		
Axle Weight:	<ul style="list-style-type: none"> • 30,000 lbs. (13,636 kg) maximum per axle 		
Frame:	<ul style="list-style-type: none"> • Precision ground, heavy duty structural steel • Above ground installation kit available 		
Power:	<ul style="list-style-type: none"> • 120 VAC single phase, 60 Hz, 15 Amps (controller) • 230 VAC single phase, 60 Hz, 20 Amps (CF22EC-2) • 230 VAC single phase, 60 Hz, 40 Amps (CF22EC-4) 		



* All specifications subject to change

**Absorption curves furnished upon request

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 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, service tools may also be connected to perform cylinder cutouts, reset cruise limits, and perform other engine specific 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 viewed from 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. A state-of-the-art touch-screen and interface device, the wireless hand held controller is all that is needed to control the dynamometer.



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.

Flexible Testing Modes

Setpoint Operation allows the operator to enter a specific value for speed or horsepower on the hand held controller. The dynamometer load is automatically adjusted and maintained until the next value is entered. You can then choose to increase or decrease these values incrementally or by entering the next numeric value.

Pattern Run Mode Operation allows the operator to run a desired test cycle created with PowerNet. From the hand held controller, the operator can begin these tests with the touch of a button. 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.

The PowerNet Controller

The PowerNet Controller features an industrial distributed I/O system, featuring modular digital, analog, and special function I/O devices. The Controller is reliable - even in harsh environmental conditions.

The Controller is interfaced with the Commander PC through a LAN connection. This helps to ensure that the technology we offer is easily serviced, updated, and maintained. Most of the components used in our system may be purchased "off the shelf" from a variety of sources throughout the world.



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.



Reliable, Repeatable Testing

All Power Test chassis dynamometers use industry standard bearings, renewable roll shafts, non-wear couplings, and commercially available brakes - all resulting in fewer service issues and less downtime. All of the key elements are available from Power Test or local sources.

The system controller is engineered to stand up to the harsh conditions of a test cell. Constructed of industrial PLC components, the PowerNet CD controller is easily supported by Power Test or a variety of suppliers worldwide. A standard computer is interfaced to the controller for display and the recording and reporting of test data.

Power Test products are designed for the future of dynamometer testing. Our dedicated staff of talented engineers, designers, machinists, fabricators, electronics technicians, and software developers are continually developing the PowerNet CD system to match our test capabilities to the ever changing vehicle and engine technology market.

Optional Components

Power Test manufactures a complete line of accessories to compliment each series of dynamometer we produce. In-house manufacturing guarantees that we will be able to provide attachments for nearly any application.

Above Grade Installation Kit -

- Structural Steel Ramp Kit - 30,000 lbs. max weight/pair
- Machinery Mounts and Leveling Kit
- Vehicle Restraint Kit
- Side Skirt Kit

Volumetric Fuel Measurement System -

- Measures Diesel Fuel Consumption
- Provides Corrected API for Temperature and Density
- Reports Consumption in gal/hr, lb/hr and BSFC
- Includes Heat Exchanger for Return Fuel

Smoke Opacity Measurement System -

- Detects, Measures and Reports Exhaust Density
- Interfaces to PowerNet CD
- Portable - can be used for field testing



CF22EC-2 w/ Optional Above Grade Installation Kit

OBDII Standard ECM Interface for Light and Medium Duty Trucks -

- Allows Communications through a standard OBDII Port

Exhaust Hood System Package -

- 40,000 CFM Roof Mounted Exhaust Fan
- 14' x 16' Galvanized Steel Exhaust Hood
- Variable Speed Motor Controller
- Internal Baffle System for Increased Velocity

Additional Temperature and Pressure Sensors

A Complete Testing Solution

Power Test provides a full range of test bay support equipment and accessories, including exhaust hoods, water recirculation and cooling systems, fuel measurement systems, smoke opacity meters, additional temperature and pressure sensors, and analog input channels. Whether you are dealing with new installation or looking to repair, upgrade or replace an existing dynamometer, Power Test has a solution.

Power Test, Your Full Service Dynamometer Manufacturer

Power Test can provide facility design and installation of every dynamometer we sell. We also offer a complete line of support equipment, including ventilation systems, exhaust systems, and auxiliary cooling systems.

Contact your Power Test representative or visit our web site at www.pwrtst.com for more information.