

CF42 CHASSIS DYNAMOMETERS



CF42 Tandem Axle Chassis Dynamometer

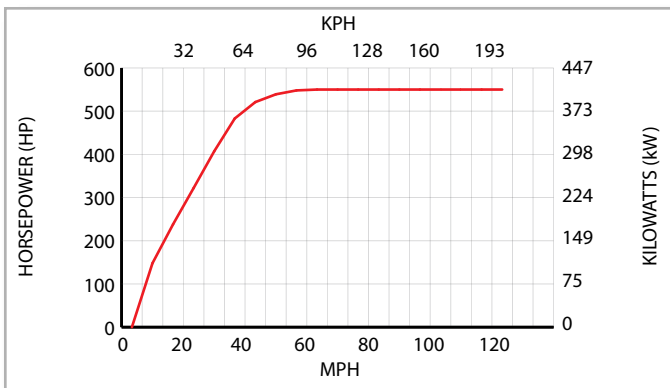
CF42 CHASSIS DYNAMOMETERS

Power Test's CF42 chassis dynamometers are designed with reliable and repeatable testing in mind. Featuring larger rolls, heavier construction, greater operating speeds, higher load capacities, and an easy-to-use hand held control, this system provides the ultimate in accurate, repeatable test equipment. CF42 chassis dynamometers are available in single, tandem, and multi-axle configurations.

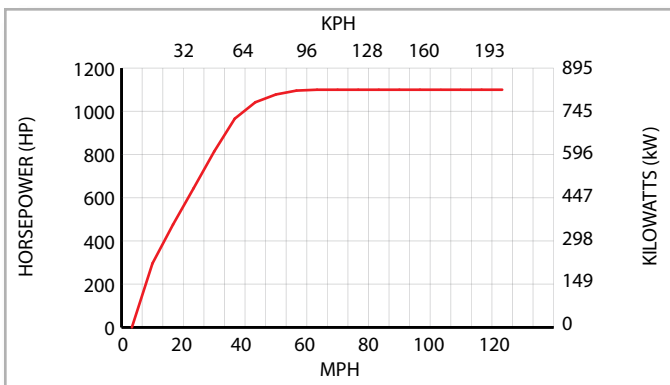
When interfaced with the diagnostic connection of electronic engine equipped vehicles, full-featured engine data collection and engine performance results are combined into a simple to read and easy-to-understand performance report. Features offered only by Power Test ensure that our chassis dynamometer systems are a service tool, not a service problem!

CF42 Chassis Dynamometer Construction

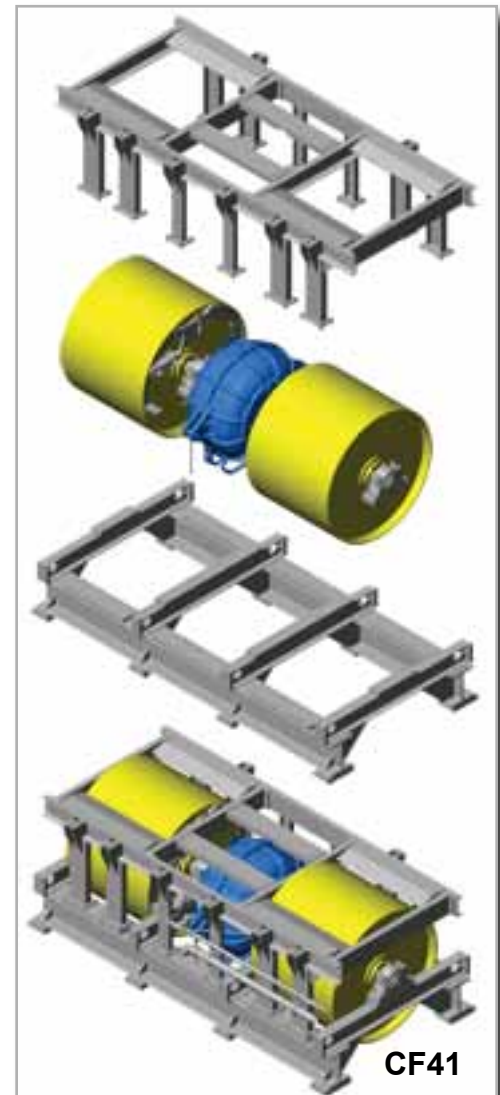
- Dynamically balanced 40" diameter roll sets allow higher top speed, increased traction, and minimize tire heat for extended testing
- No gearboxes, differentials, or drive shafts resulting in improved durability and fewer service issues
- Large, non-ferrous water brake absorbers for durability and high power absorption at low speeds
- Precision ground, structural steel frame with removable frame members allows easy access for servicing
- Greased pillow block bearings accommodate for servicing without major disassembly and re-alignment
- Independent load control protects vehicle's power divider



Single Axle



Tandem Axle



CF41

Performance	Single Axle Dynamometer		Tandem Axle Dynamometer	
Max. Axle Weight Capacity	30,000 lbs.	13,607 kg	60,000 lbs.	27,215 kg
Max. Vehicle Speed	120 mph	193 kph	120 mph	193 kph
Max. Power Absorption	550 HP	410kW	1,100 HP	820kW
Net Weight (shipping)	10,000 lbs.	4,536 kg	18,000 lbs.	8,165 kg

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.

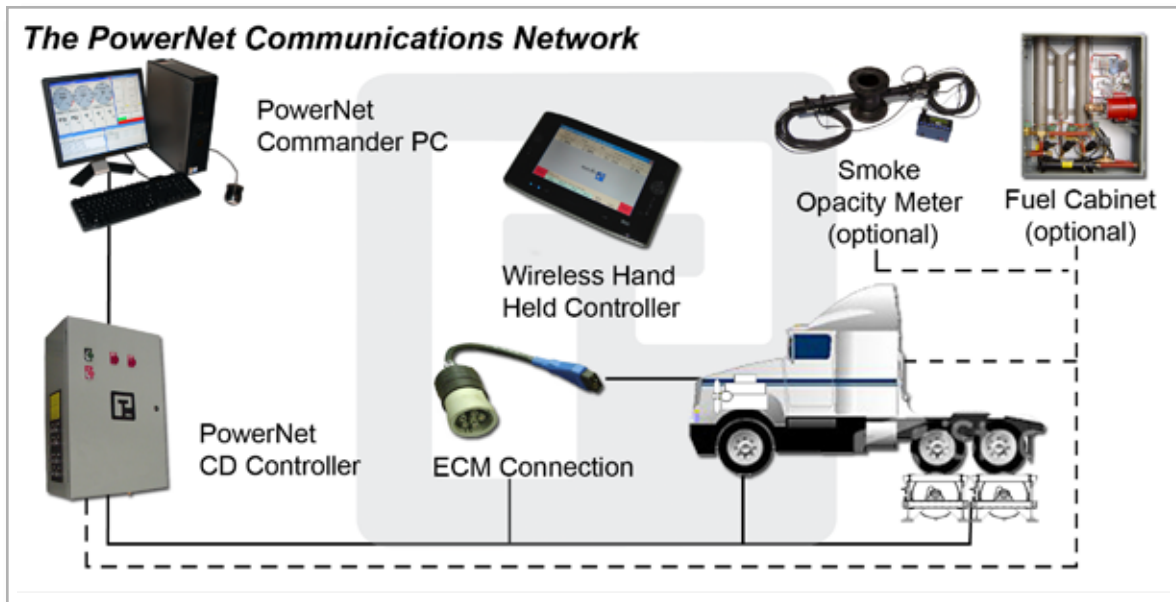
The Controller is interfaced with the Commander PC through a LAN connection. This helps to ensure that the technology we offer is easily serviced, updated, and maintained. Most of the components used in our system may be purchased "off the shelf" from a variety of sources throughout the world.



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.





The PowerNet Communications Network

Designed not only for use with Power Test chassis dynamometers, but for use with most chassis dynamometers on the market, Power Test's PowerNet CD combines all of the features of our PowerNet Data Acquisition and Control System with a hand held touch-screen that gives the operator full control of the dynamometer without leaving the driver's seat. During a test, the operator is prompted with simple, step-by-step instructions, and the computer does all of the work.

When connected to the PowerNet CD system, vehicles equipped with an ECM interface can transmit valuable engine data, which is automatically merged with dynamometer information to be viewed and stored, reported, and graphed. This information can be easily viewed from the hand held control. During the test, live data is also displayed on the virtual dashboard of the Commander PC and recorded electronically. This serves as an excellent means of allowing customers to view their vehicle being tested and for technicians to diagnose problems from the comfort and safety of a remote viewing area.

Designed for the Future of In-Frame Testing

PowerNet CD virtually eliminates instrumentation failures by starting with a standard computer platform, ensuring that the technology offered is easily understood, serviced, and updated. Many of the components used in our systems can be sourced from major computer outlets both domestically and internationally.

Designed with the future of testing in mind, Power Test's staff of engineers, programmers, and electronics technicians are dedicated to making sure that our system is on the cutting edge of technology as vehicles and test requirements change.

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, auxiliary cooling systems, and water recirculation systems.

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

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