

This heavy duty engine dynamometer can extract 300kW of mechanical power from automotive engines, including cars and trucks. Its heavy-duty frame and universal engine coupling shaft are ideal for high torque applications. The air-cooled eddy current dynamometer requires no external cooling lines, and is easy to install and use, giving years of trouble free service. The sophisticated controller can operate the dynamometer from the front panel or from a computer via the remote mode. Control modes include Manual Load, Speed, Torque and Road Load control. The dynamometer can hold the vehicle under test at a given speed for tuning, or fuel consumption measurements, or mimic actual road load conditions. Drive cycle software is included allowing vehicles to be tested on any drive cycle required. Additional inputs are included for Data Acquisition, display and logging. With optional throttle servo motor the dynamometer can run fully automated test cycles.

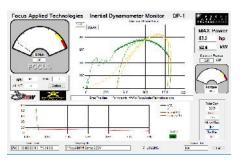
FEATURES

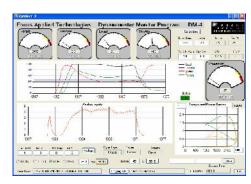
- 300kW (40hp) mechanical power absorption
- 600Nm Torque from 500 to 6000 rpm
- Heavy-Duty Universal Joint Coupler
- 5th Generation controller included
- Integrated DAQ Input Channels for Logging
- Engine Jacks for easy adjustments
- Free computer software for Graphic Display
- 1 Year Warranty Included











Typical Application

"Power Pull"

R&D Screen Shot

SPECIFICATIONS PHYSICAL

Weight: 450kg (approx) LxWxH: 240 x 60 x 65 cm

MAINS POWER

Voltage: 120/240VAC Frequency: 50/60Hz Current Draw: 30/15A max

CONTROLLER OUTPUT

Controller Power: 3.5kW (100V. 35A)

Coms: 9600 baud, 8bit, NP

DYNO

Mechanical Power: 400hp max Torque: 600Nm max

Speed: Hall Effect. 5V excitation

30 pulse per revolution

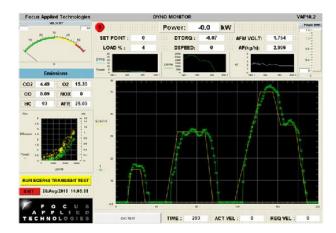
3,500 rpm, 200kph maximum

1000Nm, 200 to 500 ohm Load Cell:

4-wire Wheatstone bridge

5 or 10V excitation

The Automotive Engine Dynamometer is used for testing engines, measuring torque, power, fuel consumption and emissions at various loads. It is extensively used by R&D organizations for tuning engines, as it can hold the engine at a constant load or speed, for long periods of time. The Air-Cooled Eddy Current Dynamometer requires no water lines or external cooling tower, making it easy to install and relocate.



ENVIRONMENTAL

Temp:10 to 40° C Operational

0 to 50° C Non-Operational

Humidity:5 to 90% Non-condensing

Shock/Vibe:<10g

OPTIONS

- High-volume, low noise blower and stand
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- 5-Gas Analyzer
- **Combustion Analysis System**
- Servo Throttle Motor and Controller