

# SUPERBIKE CHASSIS DYNAMOMETER

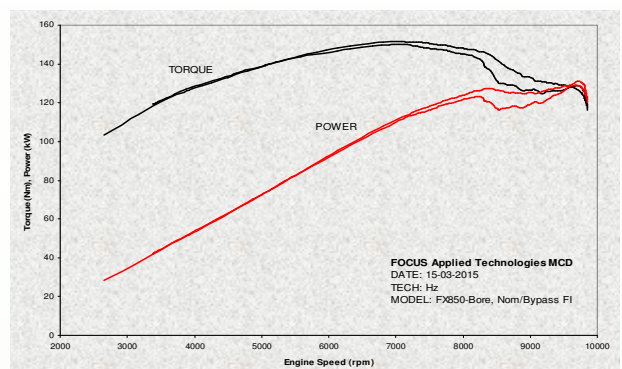
Model SCD-100



This high power chassis dynamometer can extract over 100kW of mechanical power from competition vehicles, including GP race bikes. It's heavy duty frame, and deep-groove textured 12-inch roller are ideal for high power motorcycles. The sturdy nose clamp can be adjusted to accommodate various motorcycle lengths, and comes with a mechanical or pneumatic tire clamp. The air-cooled eddy current dynamometer requires no external cooling lines, and is easy to install and use. 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. A throttle position controller is included which outputs an analog Throttle Position command. Additional inputs are included for Data Acquisition, display and logging.

## FEATURES

- Over 100kW mechanical power absorption
- 200kph (115mph) top speed
- 12 inch deep-textured roller
- 5th Generation controller included
- Integrated DAQ Input Channels for Logging
- Adjustable Nose for various wheel-base
- Free computer software for Graphic Display
- 1 Year Warranty Included

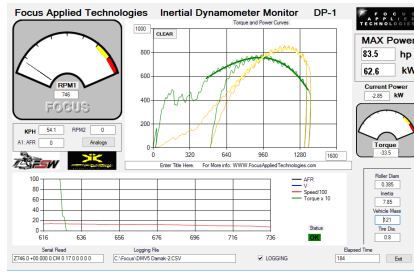


# SUPERBIKE CHASSIS DYNAMOMETER

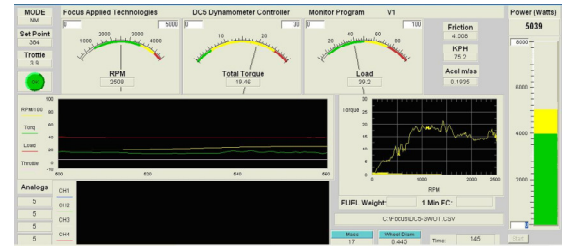
Model SCD-100



Rear-approach ramp



"Power Pull"



R&D Screen Shot

## SPECIFICATIONS

### PHYSICAL

Weight: 300kg (approx)  
LxWxH: 202 x 133 x 43 cm  
Deck: 202 x 90 x 43 cm

### MAINS POWER

Voltage: 120/240VAC  
Frequency: 50/60Hz  
Current Draw: 10/5A max

### CONTROLLER OUTPUT

Controller Power: 1kW (100V, 10A)  
Coms: 9600 baud, 8bit, NP

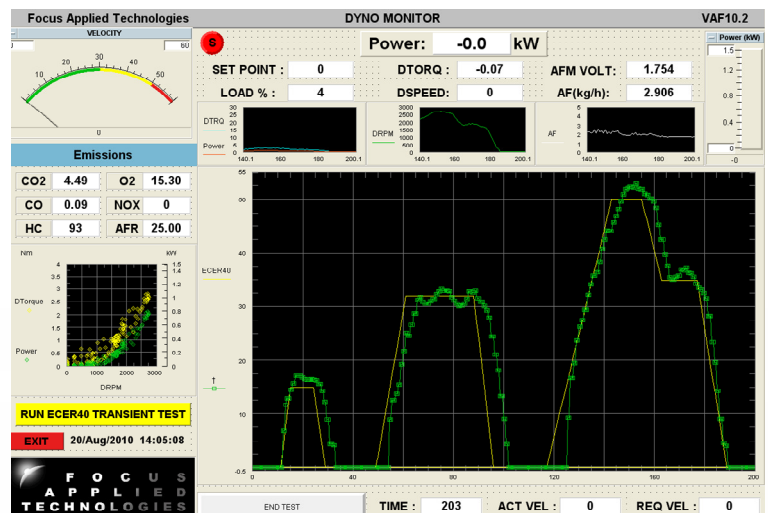
### DYNO

Mechanical Power: 150hp max  
Torque: 400Nm max  
Roller: 320mm diameter  
Speed: Hall Effect, 5V excitation  
30 pulse per revolution  
3,500 rpm, 200kph maximum  
Load Cell: 1250Nm, 200 to 500 ohm  
4-wire Wheatstone bridge  
5 or 10V excitation

### ENVIRONMENTAL

Temp: 10 to 40 °C Operational  
0 to 50 °C Non-Operational  
Humidity: 5 to 90% Non-condensing  
Shock/Vibe: <10g

The Super Bike Chassis Dyno is widely used by tuning shops to prove power increases to customers. It is also extensively used by R&D organizations and for trouble shooting tough problems, as it can hold the bike at a constant load or speed, unlike inertial dynos. Road load mode can simulate road performance for drive cycle testing for emissions or fuel consumption certification testing.



## OPTIONS

- High-volume, low noise blower and stand
- Pneumatic or screw type wheel clamp
- Wide Band O2 (AFR) sensor
- Digital Fuel Scale
- 5-Gas Analyzer
- Current/Voltage Clamp Meter
- In-floor or Ramp versions available