

# SF-250A CYCLEDYN

MOTORCYCLE CHASSIS DYNAMOMETER



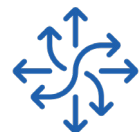
## HAND HELD CONTROLLER

Simple and accessible control while testing



## EDDY CURRENT ABSORBERS

To simulate real-world driving conditions



## VERSATILE

With a modular system to get the components right for you

## FEATURES THAT MATTER

**A 20" Diameter Roll**

Knurled for superior traction  
and minimal tire deflation

### B ATV Roll (Optional)

Provides accommodation for  
ATVs, legends cars, dwarf cars  
and go-carts

### C Blowers (Optional)

Provide cool air at velocities proportional to wheel speed

## D Wheel Lock

Wheel lock is air actuated for ease of use

## E Steel Frame

Industrial grade, solid construction, rolled steel frame, is built to last

## F Wheel Base Adjustment

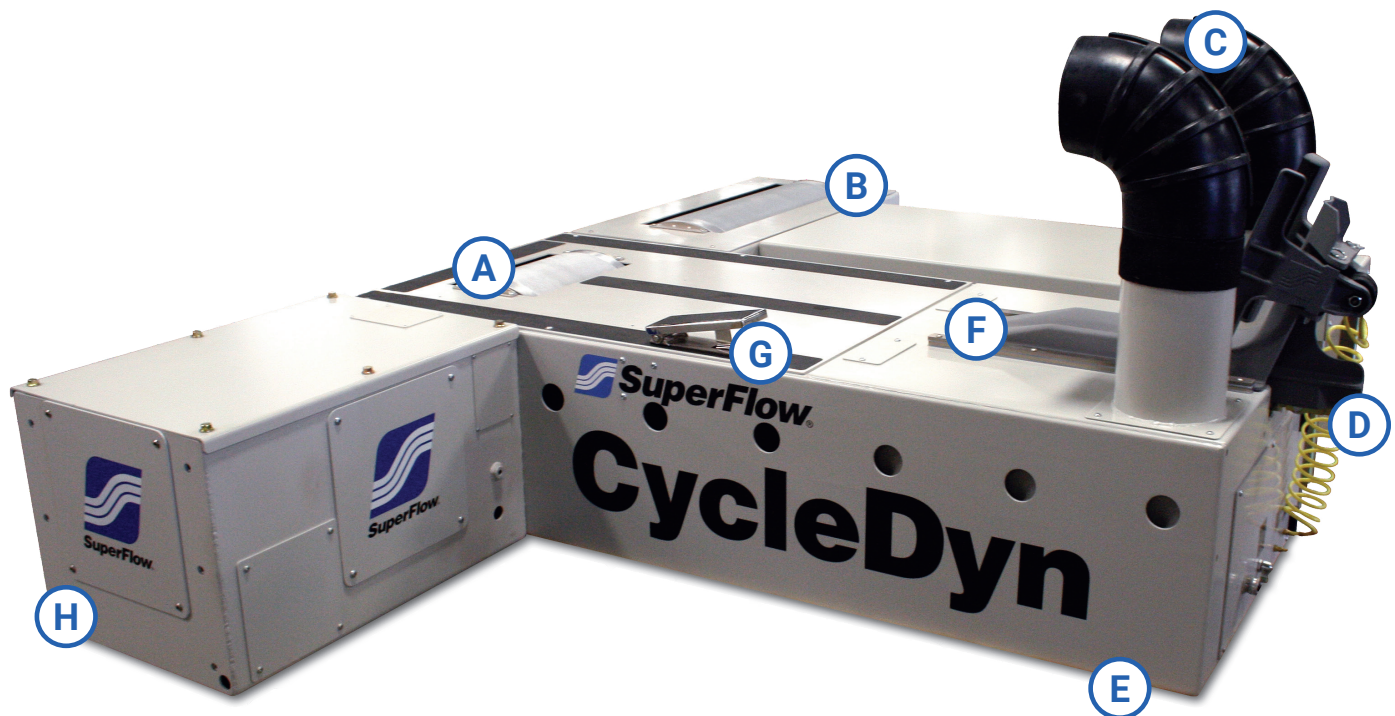
Push button, electronic wheel  
base adjustment provides  
ease of use

## **G** Roll Brake

Foot operated roll brake with hydraulic disc brake

## H Eddy Current Absorber

Provides precise, loaded testing to simulate real world driving conditions



## Accurate / Versatile / Reliable

The SuperFlow CycleDyn is a chassis dynamometer designed to test motorcycles, karts, ATVs (quads), and similar vehicles within a safe, controlled environment. Testing on a dynamometer reduces road testing liability, improves measurement accuracy, and enhances productivity. The CycleDyn is a modular dynamometer system, which means that you can select the appropriate components to get just the right dynamometer for your needs. The CycleDyn is suitable for above ground use or pit installation, which makes it very versatile for all shop configurations.

## WITH CYCLEDYN YOU CAN

- Run tests while simultaneously running any tuning software on the wireless controller
- Test safely in a controlled environment
- Justify customer accessory purchases with dyno-proven performance gains
- Locate and troubleshoot engine and driveline problems and verify that the problems were corrected
- Use CycleDyn test income to add a profit center to your business
- Use the hard wired or wireless hand-held remote control for all phases of setup and testing while seated on the bike
- Collect volumes of data with the sensor box's inputs for temperatures, pressures, air flow and fuel flow
- Prevent tire damage with the large 20" diameter, diamond-knurled roll which reduces tire deflection and enhances dynamometer repeatability
- Analyze data rapidly with SuperFlow's® powerful, and easy-to-use data acquisition software.



## SPECIFICATIONS

Roll Diameter	20" (51 cm)
Roll Width	16" (41 cm)
Peak Power	750 hp (559 kW)
Peak Absorbed Power	500 hp (373 kW)
Maximum Speed	200 mph (322 km/h)
Standard Wheelbase <sup>1</sup>	58" - 84" (147 - 213 cm)
Base System Inertia	323 lbs (147 kg)

Axle Weight	1,000 lbs (454 kg)
Air Requirements	80 - 100 psi (552 - 690 kPa)
Power Requirements	120 VAC, 15 amp or 240 VAC, 8 amp and 240 VAC, 30 amp
Dimensions <sup>2</sup>	85" L x 69" W x 21" H (216 x 175 x 53 cm)
Weight <sup>3</sup>	1,800 lbs (816 kg)

<sup>1</sup> Extensions Available   <sup>2</sup> With Eddy Current   <sup>3</sup> Approximate



## HAND HELD CONTROLLER



The commander is a wired hand-held controller housed in a rugged impact resistant enclosure. It features an eight-line by forty-character liquid crystal display. Twenty seven keys handle data entry and test setup with ten soft-keys that are automatically labeled for function during each test. The display can show any of a hundred separate measurements in real time and provide the operator with prompts and choices for running the test.

## SENSOR BOX



The powerful Sensor Box includes two 32-bit microprocessors to gather data at more than 1000 Hz and display data at 100 lines per second. Two set-point controllers can be operated in either open or closed loop modes. A built in weather station measures atmospheric conditions during the test so WinDyn® can correct recorded data to world wide standards (ECE, DIN, SAE, STP, etc.). Four liquid crystal displays (LCD) can be configured to any user-selected channel. The modular sensor box design allows easy expansion for optional sensors including OBDII, air flow, fuel flow, pressure, temperature, lambda and several emissions measurement devices at any time.

## MONITORING & ANALYSIS



With 10 custom test screens you can monitor real-time test data on meters, digital readouts, bar graphs and plots. Data on every screen continuously updates even when the screen is not in use. The built in post test graphing and data analysis capabilities allow you to view up to 10 user-defined pages in tabular format. When the test is complete, your tabular data and graphical data can appear side by side on the screen for easy comparison. You can also overlay test data to compare it graphically with up to 10 simultaneous overlays.

# OPTIONAL EQUIPMENT



## Drag Pack Extension

Perfect for choppers and drag bikes, the Drag Pack Extension is available in two lengths to accommodate wheelbases from 66" to 104" or 66" to 120."

## ATV Roll

The ATV Roll attaches to either side of the CycleDyn base (or to the eddy current for extra wide applications) to accommodate ATVs, legends cars, dwarf cars and go karts. It is 20" in diameter, 32" wide and knurled like the base CycleDyn roll for excellent traction.

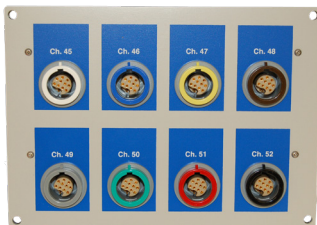


## AC Motoring Cube

The AC Motoring Cube brings emissions level test data the CycleDyn. It allows you to perform R&D economically prior to final certification. It also simulates inertia, rolling losses and aerodynamic effects. Perform coast downs, evaluate parasitic losses or use SuperFlow's drivers trace software to perform emissions drive cycles.

## Tailpipe Air Fuel Probe

SuperFlow tailpipe exhaust probes measure the air/fuel ratio directly from the tailpipe. Tailpipe probes integrate with data acquisition for live monitoring and easy post test graphing and analysis.



## Analog Panel

8 channel analog panel to integrate exhaust gas analyzers, lambda sensors, O2 sensors, etc. Select 0-1V, 0-5V, 0-10V, 0-20V or 0-30V in any combination.

## Sensor Expansion Panels

The modular sensor box allows for additional 10-channel pressure panels (shown) and additional 16-channel temperature panels. Extra transducers are sold separately.



## Ramp Kits

Aluminum ramp kits are available for above ground installations. The 36" wide ramp is available in 72" or 94" lengths to accommodate low profile and long vehicles.

## ATV Deck

The ATV Deck mounts to the front of the ATV Roll to accommodate ATVs, legends cars, dwarf cars and go karts. It's available in standard length to match a standard CycleDyn or extended length for customers using the drag pack.

# 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 6 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!



**Power Test Incorporated**

N60 W22700 Silver Spring Drive • Sussex, WI 53089 USA  
262-252-4301 • [www.powertestdyno.com](http://www.powertestdyno.com) • [info@powertestdyno.com](mailto:info@powertestdyno.com)