



Actual products may differ
from images shown



Hand Held Controller

Simple and accessible control
while testings



Eddy Current Absorbers

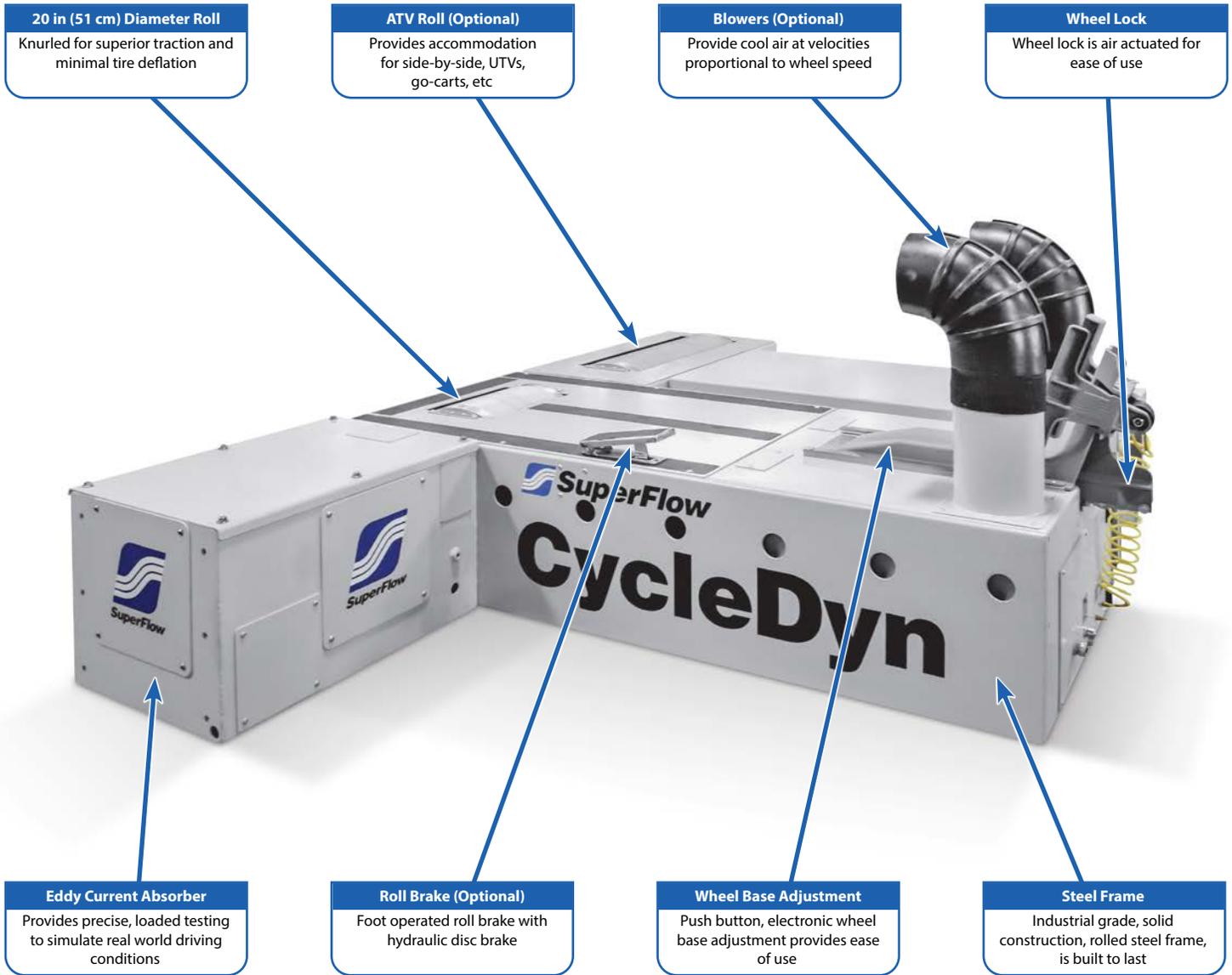
To simulate real-world
driving conditions



Versatile

With a modular system to get
the components right for you

Features That Matter



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.

Features

- » Use the wireless controller to run a test while simultaneously running any tuning software
- » 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 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:

Input Drive (Prime Mover)

- Roll Diameter 20 in (51 cm)
- Roll Width 16 in (41 cm)
- Peak Power 750 hp (559 kW)
- Peak Absorbed Power 500 hp (373 kW)
- Maximum Speed 200 mph (322 kmh)
- Standard Wheelbase¹ 58 - 84 in (147 - 213 cm)
- Base System Inertia³ 250-280: 365 lbs (165.5 kg)
250-450: 525 lbs (238.1 kg)

Eddy Current Power Absorber

- Axle Weight 1,000 lb (454 kg)
- Air Requirements 80 - 100 psi (552 - 690 kPa)
- Power Requirements 120 VAC, 15 Amps or 240 VAC
8 Amps and 240 VAC, 30 Amps
- Dimensions² (L x W X H) 85 x 69 x 21 in (216 x 175 x 53 cm)
- Weight³ 1,800 lb (816 kg)

¹ Extensions Available | ² With Eddy Current | ³ Approximate

Standard Equipment



Hand Held Controller

The hand-held controller is enclosed in a durable, impact-resistant enclosure and offers both wired and wireless compatibility. It comes equipped with a 9.3-inch IPS liquid crystal and touchscreen interface. The fourteen soft-keys are automatically labeled according to their function during each test. The display can present any of a hundred different measurements in real time, offering the operator prompts and options for conducting the test.



Sensor Box

The powerful Sensor Box collects data at over 1000 Hz and displays it at a rate of 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.). 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.

WinDyn® 5 Data Acquisition System

SuperFlow's advanced WinDyn 5 Data Acquisition System provides a wealth of pre-defined tests along with a user-friendly test editor to easily write custom tests. Standard tests can be performed and at part or wide open throttle. These include: controlled acceleration, controlled deceleration, step, steady-state, and track lap, break-in and mapping.



Optional Equipment



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.

Blowers

The blowers provide cool air at velocities proportional to wheel speed, keeping the engine at optimal running temperature

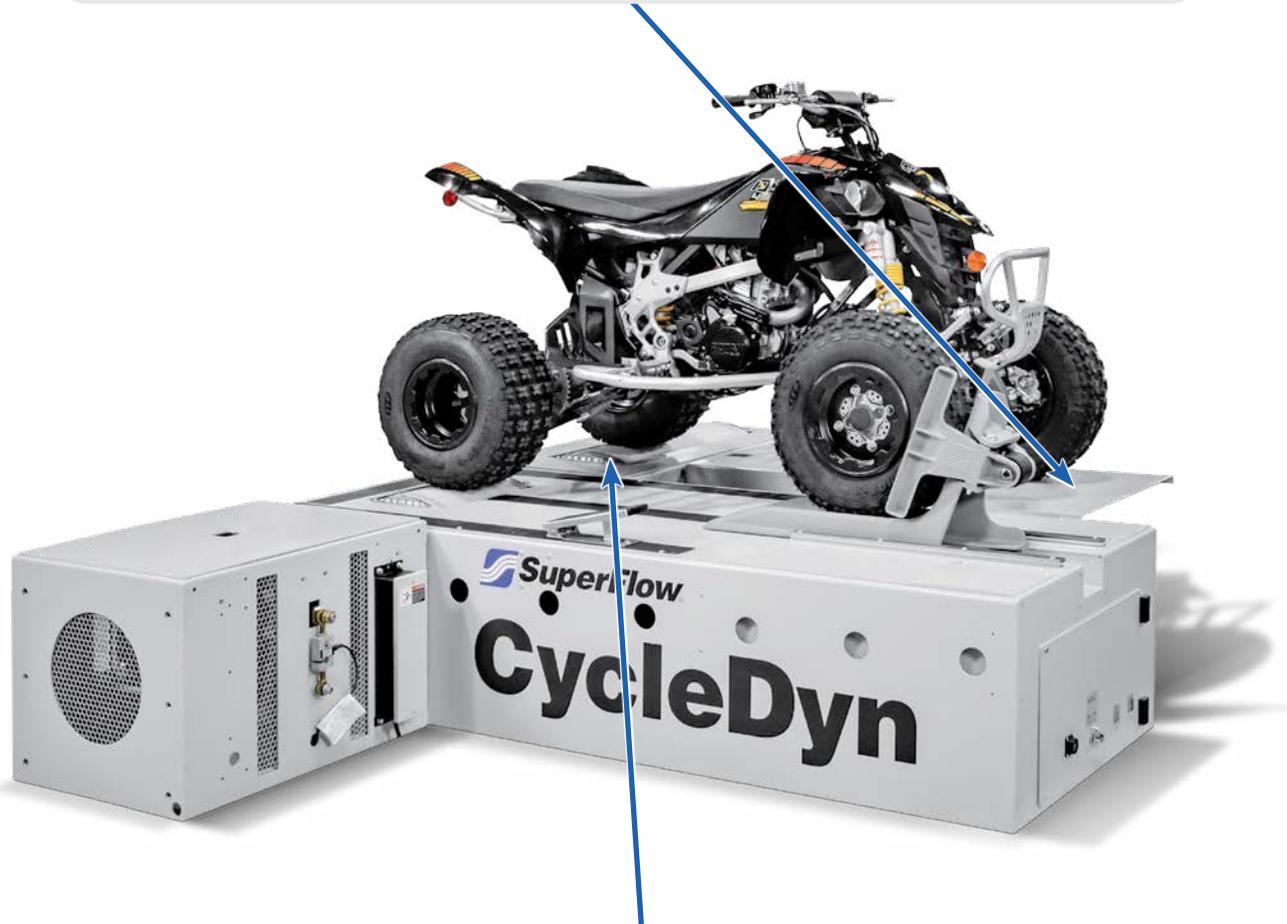
Drag Pack Extension

Perfect for choppers and drag bikes, the Drag Pack Extension is available in two lengths to accommodate wheelbases from 66 - 104 in (168 - 264 cm) or 66 - 120 in (168 - 305 cm).

Optional Equipment

ATV Deck

The ATV Deck mounts to the front of the ATV Roll to accommodate UTVs, 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.



ATV Roll

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



Optional Equipment



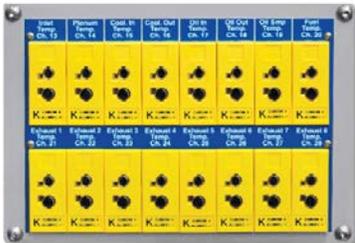
Above-Ground Installation Options - Ramp Kit

Aluminum ramp kits are available for above ground installations. The 36 in (91 cm) wide ramp is available in 72 in (183 cm) or 94 in (239 cm) lengths to accommodate low profile and long vehicles.



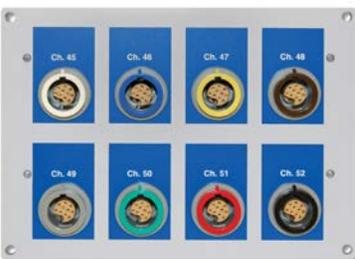
Pressure Panel

Pressure sensor expansion panels are available. High and low pressure transducers available individually.



Temperature Panel

Additional 16 channel thermocouple panels available. Extra Type K transducers sold separately.



Analog Panel

Additional 8 channel analog panel is available 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.



SuperFlow is part of Power Test, LLC, an industry leader in the design, manufacture and sales of dynamometers, specialized test systems, and related data acquisition and control systems. Power Test, LLC, offers a portfolio of brands that have long been the standard bearer for quality in the testing industry. As your equipment testing partner for innovative products and comprehensive lifecycle services and support, we are dedicated to delivering an exceptional experience by offering specialized solutions to Make Your Testing Easy.

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