

SF-832 CHASSIS DYNO

The SuperFlow SF-832 chassis dyno is compact, feature rich and affordable for shops looking for a great two-wheel drive chassis dynamometer.



Overview

The AutoDyn™ 30 chassis dyno is quite possibly the most versatile chassis dynamometer on the market today. It comes standard with SuperFlow® Road Simulation Technology (RST) to accurately load vehicles according to their inertia, aerodynamic losses and rolling losses. The 2,500 hp measurement capacity and its available 2,200 hp absorption capability allow you to test just about anything a customer would bring through your door. The AutoDyn™ 30 was the first chassis dyno on the market to feature the innovative center mounted eddy current design. This design makes the footprint of the AutoDyn™ 30 very small, saving you valuable shop space without losing any of the benefits of being able to perform both loaded and inertia tests.

Adding to its versatility is the available upgrade paths for the AutoDyn™ 30. Should your testing need change, the AutoDyn™ 30 can be upgraded to AWD and/or AC Motoring at any time. Adding a second roll set and a driveshaft to synchronize the front and rear rolls transforms the AutoDyn™ 30 into the AutoDyn™ 30 AWD. Adding SuperFlow's™ AC electric motor allows you to motor the test vehicle to perform emissions drive cycles, inertia simulations, evaluate frictional losses and conduct many other engineering test procedures. These available upgrade paths give you great flexibility and peace of mind so that if your testing needs were to change

in the future you won't need to buy an entirely new piece of equipment, simply upgrade the dyno to meet your new requirements.

Its 30" knurled rolls provide superior traction and minimal tire deflection so testing is accurate and repeatable. The AutoDyn™ 30 combines the low profile frame commonly found on cradle roll systems with the added traction benefits of a large single roll dyno so it works perfect in a pit of with a 4-post lift.



Product Specifications

Roll Diameter	30" (76.2 cm)
Peak Power	2,500 HP (1,864 kW)
Peak Absorbed Power	1,100 (SEC) / 2,200 HP (DEC) – (820 kW / 1,641 kW)
Max Speed	225 mph (362 km/h)
Track Width	26" inside - 100" outside (66 cm - 254 cm)
Dimensions	120 X 40.5 X 35 in. (305 x 103 x 89 cm)
Base System Inertia	1,200 lbs. (544 kg)
Axle Weight	8,000 lbs per axle (3,629 kg)
Air Requirements	50-100 psi (345-690 kPa)
Power Requirements	110 VAC / 15A 250 VAC / 8A 208-250 VAC / 20A

Product Options

4-Post Hoist



SuperFlow® offers several different 4-post hoists to fit any needs and budget. Models are available with a walking platform, safety rails and access ladders to make working on vehicles easy and safe.

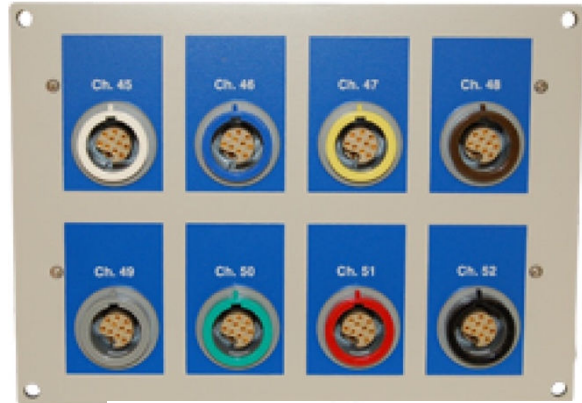
Above Ground Ramp Kit

SuperFlow® offers lightweight aluminum ramp kits for the AutoDyn™ 30 chassis dyno. Because they are light-weight these ramps work great for portable dyno applications and they are easy to move in and out of place. Ramps are perfect if you are unable to install your SuperFlow® chassis dyno in a pit or when shop space is limited because they stack neatly out of the way when not in use.



Air Fuel Kit

Air Fuel Meter Kits available in any channel count configuration. Bosch LSU 4.2 and OEM grade NTK type sensors available.



Air Flow Sensors

SuperFlow® offers several complete lambda packages and tail pipe probes for measuring air/fuel ratio. These packages integrate with WinDyn® for live monitoring and 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.



Pressure Sensor Expansion Panels

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

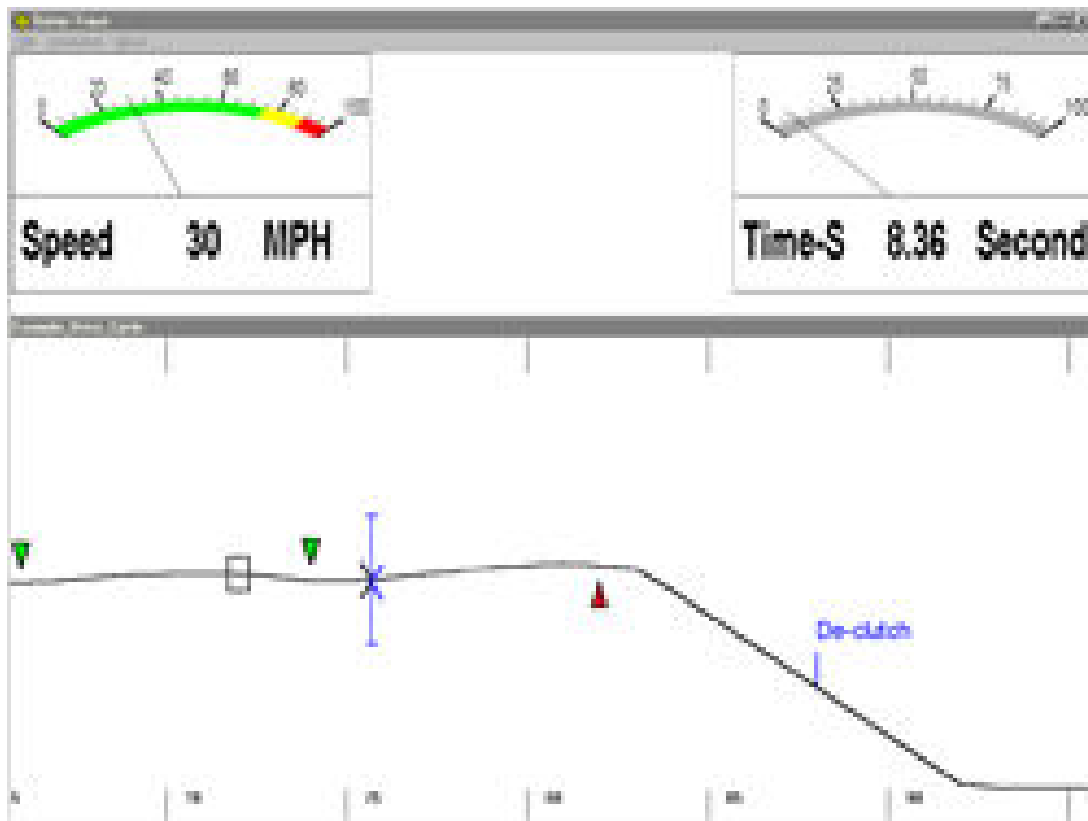
Diesel Exhaust Opacity Meter

SuperFlow's® Diesel Exhaust Opacity Meter measures the opacity of visible smoke coming from the exhaust. It's rugged and portable design provides years of easy use.



Driver's trace Software

SuperFlow's® Driver's Trace Software integrates seamlessly with your SuperFlow® chassis dynamometer and allows drivers to follow a real-time moving driver's trace on its easy-to-read display.



Inductive Spark Pick-up Assembly

SuperFlow's® Inductive Spark Pick-Up Assembly features a rugged housing that protects the device from tough shop environments and allows it to provide years of service.



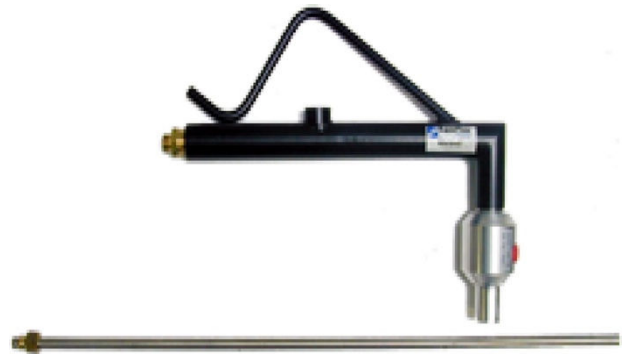
Optical Wheel Tachometer

SuperFlow's® optical wheel tachometer reads wheel speed using an infrared beam and reflective tape. It features a magnetic base for secure mounting to any AutoDyn™ frame.



Tailpipe Air Fuel Probe

SuperFlow tailpipe exhaust probes measure the air/fuel ratio directly from tailpipe. Tailpipe probes integrate with WinDyn for live monitoring and easy posttest graphing and analysis.



Call or email Promand today to discuss your application and dyno test requirements in detail.

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