



# FLOWBENCHES

BY SUPERFLOW



MEASURE & QUANTIFY  
AIRFLOW



INCREASE ENGINE  
PERFORMANCE



# SF-1020i

## OVERVIEW

### The 1020i is the first flowbench specifically designed for The OEM Catalyst Market

The SF-1020 has long been the flowbench testing standard for OEMs around the world, but the system was engineered for lower volume, *hobbyist* airflow testing, not high-volume, in-line and end-of-line testing that many operations do today.

Introducing the **SuperFlow 1020i**; the first flowbench designed specifically for high-volume, industrial use. Built with a rigid steel frame, industrial grade components and OEM data acquisition integration in mind, facilities around the world can drastically improve testing efficiency and reduce long-term equipment costs with this product innovation from the engineers at SuperFlow.

- Fabricated Steel Frames and Components
- Industrial Blower Motor
- 3-Phase Power; Compatible in Testing Installations Around the World
- Increase in Unit Exchange Efficiency
- Data Acquisition and Control Systems Compatibility

### The SF-1020i is a long-term testing solution, eliminating ongoing replacement of flowbench systems

In high volume industrial testing, flowbenches may need significant maintenance every 3 months. Aside from the substantial costs of new systems, labor, and replacement parts, this also results in significant downtime. Eliminating these expenses each quarter can create a positive ROI for the new 1020i within the first year.

- Test article exchange efficiency
- Increased electrical power efficiency
- Eliminates replacement system purchases
- Reduction in parts & labor maintenance costs
- Consistency in data acquisition & power considerations
- Eliminates system downtime

Talk to your SuperFlow representative today for information about how a SF-1020i can change your business.



# SF-1020

## OVERVIEW

The SF-1020 measures and records air flow at OEM engineering accuracy, faster than any other flowbench on the market. It can test up to 240 hp (179 kW) per cylinder at test pressures up to 65" (165 cm) of water. The unique variable flow orifice adjusts flow range between 25 cfm and 1,000 cfm (12 - 472 l/s), based on FlowCom input, to fit the valve size or valve lift. The SF-1020 comes standard with our FlowCom digital airflow measurement system for accurate, repeatable

and fast testing. FlowCom ensures accurate digital airflow measurement and control by automatically measuring test pressure and temperature; then presenting corrected flow data on the easy-to-read, precision display. This saves considerable time when compared with standard manometer type benches that require users to make calculations in order to achieve corrected flow numbers.

### Specifications

<b>Calibration Test Pressure</b>	25" of water
<b>Range</b>	0-1,100 cfm
<b>Intake Capacity</b>	1000 cfm ± 10% @ 25" test pressure
<b>Exhaust Capacity</b>	1,000 cfm @ 25" of water
<b>Power</b>	240 VAC, 75A, single phase
<b>Weight</b>	563 lbs (255 kg)
<b>Dimensions</b>	48 x 33 x 43 in. (122 x 84 x 110 cm)



# SF-750

## OVERVIEW

The SF-750 was designed to bridge the gap between the SF-600 and the SF-1020. It flows 575 cfm at 25" of water. The SF-750 comes standard with our FlowCom digital airflow measurement system for accurate, repeatable and fast testing. FlowCom ensures accurate digital airflow measurement and control by automatically measuring test pressure and temperature; then presenting corrected flow data on the easy-to-read, precision display. This saves considerable time when compared with standard

manometer type benches that require users to make calculations in order to achieve corrected flow numbers. The included automatic motor controller maintains constant test pressure without the use of knobs and valves and it also helps extend motor life by reducing heat generated during operation. Reduced heat means that operators can run the SF-750 for longer durations than benches lacking the motor control feature.

### Specifications

<b>Calibration Test Pressure</b>	25" of water
<b>Range</b>	0-750 cfm
<b>Capacity</b>	600 cfm $\pm$ 10% @ 10" test pressure
<b>Power</b>	240 VAC, 40A single phase
<b>Weight</b>	400 lbs (182 kg)
<b>Dimensions</b>	35 x 27 x 84 in. (102 x 82 x 214 cm)

# SF-260



## OVERVIEW

The SF-260 digital flowbench is the evolution of the SF-110, it flows 260 cfm @ 10" of water. The SF-260 comes standard with our FlowCom digital airflow measurement system for accurate, repeatable and fast testing. FlowCom ensures accurate digital airflow measurement and control by automatically measuring test pressure and temperature; then presenting corrected flow data on the easy-to-read, precision display. This saves considerable time when

compared with standard manometer type benches that require users to make calculations in order to achieve corrected flow numbers. The included automatic motor controller maintains constant test pressure without the use of knobs and valves and it also helps extend motor life by reducing heat generated during operation. Reduced heat means that operators can run the SF-260 for longer durations than benches lacking the motor control feature.

### Specifications

Calibration Test Pressure	10" of water
Range	0-280 cfm
Capacity	200 cfm $\pm$ 10% @ 10" test pressure
Power	240 VAC, 12A single phase
Weight	100 lbs (46 kg)
Dimensions	27 x 20 x 36 in. (69 x 51 x 91 cm)

# OPTIONAL EQUIPMENT



## RTS Tooling PD Valves

Tooling's Pressure Differential (PD) Valves measure pressure differentials in the valve flow area without obstructing the flow path of the air being tested.

## FlowCom

This highly accurate, easy-to-use digital airflow measurement system gauges test pressure and temperature measurement to within 0.5°F.

FlowCom measures and calculates airflow in CFM. It has inputs for optional external devices like swirl meters, tumble meters and velocity probes.



## Pitot Tubes

SuperFlow offers Pitot Tubes, a compact device to measure velocity within the port. When used in conjunction with Port Flow Analyzer Pro Software, it performs port velocity mapping.

## Holley Adapter Kits

SuperFlow offers carb adapters for several applications. Call or visit SuperFlow.com for more info.



## Motor Controller

Regulates test pressure based on input from FlowCom. (SF-110, SF-260 and SF-600 controllers shown)

## Head Adapters

SuperFlow offers cylinder head adapters for several applications. Custom adapters also available.



# PERFORMANCE DYNAMOMETERS

SuperFlow is a global leader in performance engine and chassis dynamometers. Since its creation in 1972, SuperFlow products have been relied upon by performance engine builders, tech schools, race teams, speed shops, universities, and the leading automotive manufacturers in the world. Commitment to top-notch products and service at immense value has given SuperFlow the opportunity to work with the most recognizable companies in the automotive industry.

Thousands of businesses have chosen SuperFlow for their performance racing testing needs. Learn about the history of SuperFlow and its evolution from a small group of engineers to the comprehensive company in place today.

## ENGINE DYNAMOMETERS



### SF-PowerMark

The SF-Powermark engine dynamometer showcases a rugged, durable power absorption unit for capacity up to 2,500HP.



### SF-902S

The SF-902S Engine Dyno from SuperFlow is rated for 15,000 RPM and is capable of handling power up to 1,500 HP and 1,200 lb.-ft of torque.



### SF-4000HD

The SF-4000HD is SuperFlow's first 4000HP engine dynamometer with speeds up to 12,000RPM and torques to 2,626 lb.-ft.

## CHASSIS DYNAMOMETERS



### SF-832 AWD

The SF-832-AWD is an entry level all-wheel drive, eddy current dyno packed with features usually only found on premium models.



### SF-880E

The SF-880E All-Wheel Drive Chassis Dyno is for serious performance tuners who want unmatched quality, capacity & data acquisition features.



### SF-849

The SF-849 Chassis Dyno is the highest capacity 2-wheel drive dyno available with more traction, more load, & more data acquisition options.

# We Make It Better

## Who We Are

Power Test, Inc. is an industry leader in the design, manufacture and sale of dynamometers, and the parent company of SuperFlow. For over 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, military and performance markets in over 100 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.



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