

FLOWBENCHES

BY SUPERFLOW

FLOWBENCH SERIES



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AXILINE • DTS • HICKLIN • SUPERFLOW • TCRS

SUPERFLOW® FLOWBENCHES, WHERE IT ALL STARTED

The concept was simple, increase air flow to the combustion chamber and make more power... Since 1972, SuperFlow® has helped more than 5,100 flowbench customers go faster and, farther as the benches are a great tool for efficiency. First introduced as a performance and racing tool, the SuperFlow® flowbenches have been adopted by companies all over the world for applications that now include production air filter development, catalytic converter development and other areas of OEM production focused on improving efficiency. As technology has advanced we've been able to incorporate more features designed to make testing easier and data analysis more advanced. Now, all but two SuperFlow®

benches come standard with the Flowcom™ Digital Air-Flow Computer and motor controller to increase repeatability and remove operator inconsistencies found on manometer type benches. This switch greatly increases measurement accuracy through the use of pressure transducers instead of inconsistent visual measurements taken by operations on manometers. Further, we've also developed the SF-1020SB which includes a WinDyn® data acquisition system offering 139 user configurable channels and powerful data analysis and graphing functions. Over the next several pages you'll find the latest in flowbench technology from the company that started it all.

SUPERFLOW'S MANY INDUSTRY FIRSTS

WE WERE THE FIRST

To develop a flowbench

WE WERE THE FIRST

To offer a digital flow computer on a flowbench

WE WERE THE FIRST

To offer advanced WinDyn® Data Acquisition System on a flowbench

SUPERFLOW® - THE INDUSTRY STANDARD

For more than 40 years, SuperFlow® has been designing and manufacturing industry leading flowbenches, engine dynamometers, chassis dynamometers and advanced Windows® based data acquisition systems. Today, with more than 10,000 products in the field, SuperFlow® is far and away the most experienced and well rounded manufacturer in the industry offering the most complete

selection of test equipment. SuperFlow's® four major brands, Axiline®, Hicklin® Engineering, SuperFlow® and TCRS®, test or rebuild every component of the drive train from the engine and transmission to the torque converter, drive shaft and axles. Come see why thousands trust SuperFlow® for all of their testing needs.



SF-1020 SPECIFICATIONS

CALIBRATION TEST PRESSURE	25" of water
RANGE	0-1,100 cfm
INTAKE CAPACITY	1,100 cfm @ 25" of water
EXHAUST CAPACITY	1,000 cfm @ 25" of water
POWER	240 VAC, 75A, single phase
WEIGHT	563 lbs (255 kg)
DIMENSIONS	48 x 33 x 43 in. (122 x 84 x 110 cm)



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 users considerable time when compared with standard manometer type benches that require users to make calculations to achieve corrected flow numbers.

SF-1020-SB SPECIFICATIONS

CALIBRATION TEST PRESSURE	25" of water
RANGE	0-1,100 cfm
INTAKE CAPACITY	1,100 cfm @ 25" of water
EXHAUST CAPACITY	1,000 cfm @ 25" of water
POWER	240 VAC, 75A, single phase
WEIGHT	563 lbs (255 kg)
DIMENSIONS	48 x 33 x 43 in. (122 x 84 x 110 cm)



SF-1020-SB OVERVIEW

The SF-1020 SuperBench comes standard with all of the features of the SF-1020 plus SuperFlow's® WinDyn® Data Acquisition System for advanced data analysis. With its advanced electronics, the SuperBench is well suited for flow analysis in industrial and scientific applications. The included electronics and WinDyn® software allow users to perform automated tests and then quickly analyze the data.

Additionally, the automated testing eliminates operator induced variables making the SuperBench extremely repeatable and accurate. 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 computer input, to fit the valve size or valve lift.

SF-750 SPECIFICATIONS

CALIBRATION TEST PRESSURE	25" of water
RANGE	0 - 750 cfm
CAPACITY	660 cfm @ 25" of water
POWER	240 VAC, 40A single phase
WEIGHT	400 lbs (182 kg)
DIMENSIONS	35 x 27 x 84 in. (102 x 82 x 214 cm)



SF-750 OVERVIEW

The SF-750 was designed to bridge the gap between the SF-600 and the SF-1020. It flows 660 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 users considerable time when compared with

standard manometer type benches that require users to make calculations 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.

SF-450 SPECIFICATIONS

CALIBRATION TEST PRESSURE	25" of water
RANGE	0 - 450 cfm
CAPACITY	580 cfm @ 25" of water
POWER	240 VAC, 31A, single phase
WEIGHT	400 lbs (182 kg)
DIMENSIONS	35 x 27 x 84 in. (102 x 82 x 214 cm)



SF-450 OVERVIEW

The SF-450 is one of the most versatile flowbenches on the market today. It flows 580 cfm at 25" of water, enabling users to evaluate their test results in ultra high resolution so the smallest changes in flow are visible. The SF-450 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

users considerable time when compared with standard manometer type benches that require users to make calculations 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-450 for longer durations than benches lacking the motor control feature.

SF-260 SPECIFICATIONS

CALIBRATION TEST PRESSURE	10" of water
RANGE	0 - 280 cfm
CAPACITY	260 cfm @ 10" of water
POWER	240 VAC, 12A, single phase
WEIGHT	100 lbs (46 kg)
DIMENSIONS	27 x 20 x 36 in. (69 x 51 x 91 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 users considerable time when compared with standard

manometer type benches that require users to make calculations 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.

SF-110 SPECIFICATIONS

CALIBRATION TEST PRESSURE	10" of water
RANGE	0 - 185 cfm
CAPACITY	160 cfm @ 10" of water
POWER	120 VAC, 15A
WEIGHT	100 lbs (46 kg)
DIMENSIONS	27 x 20 x 36 in. (69 x 51 x 91 cm)



* Shown with optional flowcom™

SF-110 OVERVIEW

The original and longstanding industry standard SF-110 flowbench is the bench that started it all. It's compact bench top design saves shop space while its powerful motors provide enough juice to test components for engines up to 100 hp (75 kW) per cylinder. The included manometers allow easy illustration of air flow theory making it perfect tool for

every automotive classroom. The SF-110 includes instructions on how to measure flow changes as small as 1%. All the necessary air-blowers, controls and airflow measuring equipment are built in. Conveniently the SF-110 only requires 120VAC power so it plugs in almost anywhere.

FLOWBENCH OPTIONS

RTS TOOLING PD VALVES



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

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.

MOTOR CONTROLLER



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

FLOWCOM



FlowCom™ Air Flow Measurement Computer* for rapid, accurate testing. 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.

*Standard on 260, 450, 750, 1020

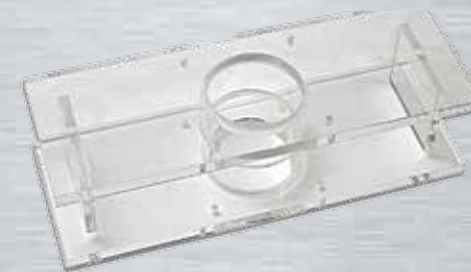
**Optional on 110 & 600

HOLLEY ADAPTER KITS



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

HEAD ADAPTERS



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

*FOR MORE OPTIONS PLEASE CALL A SUPERFLOW REPRESENTATIVE AT 1.888.442.5546.

SUPERFLOW® DYNAMOMETERS & FLOWBENCHES

FLOWBENCH SERIES SUPERFLOW® FLOWBENCHES

SuperFlow® is a global market leader specializing in high-performance automotive testing and rebuilding equipment. Since the early 1970's SuperFlow® products have been used daily by professional engine builders, the military, technical schools, professional race teams, speed shops, transmission rebuilders, universities, and leading automotive manufacturers to produce powerful

and efficient vehicles. Our commitment to providing the best products and service at a great value has given us the opportunity to work with some of the most notable companies in the automotive industry. Come see why thousands of businesses have already chosen SuperFlow® for all of their testing needs.

CALL 1.888.442.5546 for more information on SuperFlow® Flowbenches.

Or visit us at superflow.com



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☛ DriveShaft Rebuilding Equipment

☛ Engine Dynos

☛ Solenoid Testers

☛ Torque Converter Rebuilding Systems

☛ Transmission Dynos

☛ Valve Body Testers

☛ Transmission Testers

Manufactured in Colorado Springs, CO and Des Moines, IA U.S.A. Offices Worldwide; Des Moines, IA, Colorado Springs, CO, Pulle, Belgium
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