

671 AS300A

AUTOMATIC HALL FLOWMETER



QAQC LAB

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QAQC Lab 589 Rappahannock Drive White Stone Va 22578 TEL (804) 318-3686

OVERVIEW

The Hall Flowmeter automatically measures the flow rate of powders by the funnel method. It characterizes the flowability of powders by measuring the time required for the powder to flow through the funnel.

It consists of a testing platform, laser, sensors, Hall funnel, Carney funnel (optional), Gustavson funnel (optional), certified reference material calibration powder (optional), bulk density cup, touch-screen-controlled analysis system, and printer.

It features include fully automatic measurement with automatic stop upon completion, eliminating the need for manual supervision and minimizing human error; fully automatic calibration, correlation and adjustment; funnel sizes conforming to international standards and calibrated with calibration powders; density cup volumes calibrated according to international standards; unlimited data storage and export capabilities

It meets the requirements of international ISO and ASTM standards.

SPECIFICATIONS

Measurement Range: Powder flow rate, loose bulk density of powder

Sensor Accuracy: 0.1 seconds

Timing Range: 0-9999 seconds

Repeatability: 1%

Accuracy: 1%

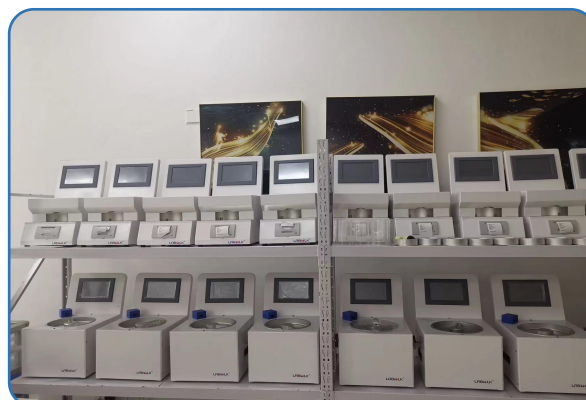
Funnel Specifications:

- Hall Funnel: Aperture 2.5 mm / Slope 60°;
- Carney Funnel: Aperture 5.0 mm / Slope 60°; (optional)
- Gustavson Funnel: Aperture 2.5 mm / Slope 30°; (optional)
- Required Sample Amount: 50 g
- Operating System: Touchscreen-controlled analysis system
- Result Output Methods: Built-in printer, storage, data export (optional)
- Display: 7-inch color touchscreen

Instrument Dimensions: Length 33 x Width 31 x Height 23 cm

Power Supply: 220V/110V, 50/60Hz

Weight: Net weight 16 kg



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PRINCIPLE

Measure the time required for 50 grams of metal powder to flow through a funnel with standardized dimensions. The funnel conforms to international standards, and the aperture has been calibrated using calibration powder. Timing begins automatically as the sample starts to exit the funnel, at which point the laser on the testing platform is blocked by the flowing sample, triggering the sensor to start detection. The detected signal is sent to the control analysis system for processing. Once the sample has completely flowed out, the sensor detects the completion of the test and automatically stops the measurement. The control analysis system will display the flow time of the powder for this test. The operation is repeated three times, and the system automatically calculates the three flow times and average the results, which represents the final flow rate of the powder. This data can be saved, printed, and exported.



Part Number	Description	Specifications	Pricing
673 33698S	Auto Hall Flow Meter	Includes host, hall funnel calibration certificate 1 each density cup and calibration certificate, iron support, overfill plate, 1 each and other parts necessary for test	\$7200
673 33698O1	Balance 0.01-600g 1 each	Weigh Sample	\$222
673 33698O2	Data save and export assembly 1 each	Data Save and export to text files	\$750
673 33698O3	Stylus Printer 1 each	Print results for lifetime record	\$177
673 33698O4	Touch Panel 1 each	In case of emergency	\$177
673 33698O5	Electric Board 1 each	In case of emergency	\$132
673 33698O6	Hall Funnel Diameter 2.5mm,60 degrees 1each	As spare part, consumable	\$300
673 33698O7	Density cup& calibration certificate/ 25ml 1 each	As spare part, consumable	\$450
673 33698O8	Carney Funnel Diameter 5.0mm,60 degree 1 each	Expand application	\$450
673 33698O9	Gustavsson Funnel Diameter 2.5mm 30 degree 1 each	Expand application	\$600
673 33698O10	Calibration powder Chinese emery 1 each (70g) and certificate	Calibrate and Evaluate funnels	\$900
673 33698O11	Data Save and upload to Ethernet assembly Tea	Data save and upload to Ethernet(fps,LIMS, 21CFR part 11 audit trails etc)	\$1350
673 33698O12	Iron Support 1 ea	Support Funnels	\$450