

671 AS300A
AUTOMATIC HALL FLOWMETER



QAQC LAB

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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%

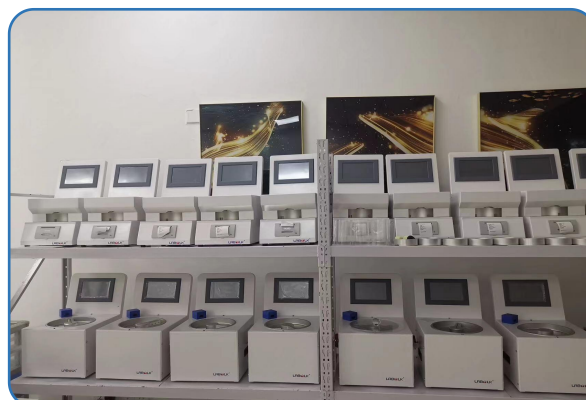
Funnel Specifications:

- 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.

