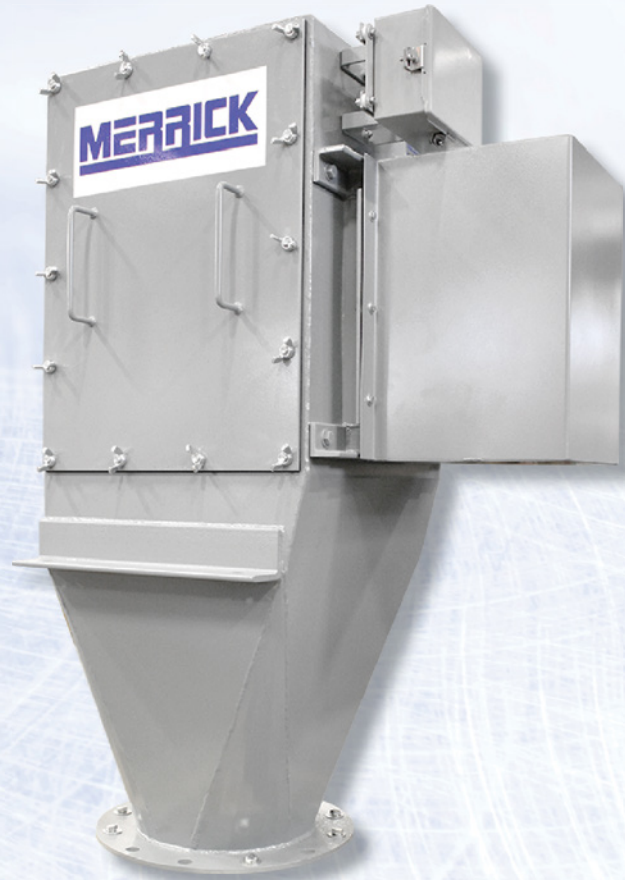


**DYNAMIC INNOVATIONS SINCE 1908  
WEIGHING, FEEDING, CONTROLS & ENVIRONMENTAL SOLUTIONS**

# **MODEL 300 FLOWMETER**



**RELIABLE, REPEATABLE PERFORMANCE IN HARSH CONDITIONS**



# MERRICK MODEL 300 FLOWMETER

## SPECIFICATIONS

MERRICK's Model 300 Flowmeter is designed to provide reliable and accurate flow-measurement of granular or pulverized material at relatively high flow rates.

This system can perform material tests and inline calibrations without interrupting operations.

## FEATURES

- Utilizes MERRICK-signature parallelogram load sensing suspension for repeatable performance and easy maintenance
- No moving parts
- Dust tight housing
- $\pm 2\%$  full scale basic accuracy
- $\pm 1\%$  full scale accuracy with inline calibration means
- Capacities 20 to 300 TPH with standard designs
- Special designs and capacities available
- Optional airslide adapter with chain curtain

The material is fed into the flowmeter horizontally to establish a reference point for the drop height to the impact plate.

Typical pre-feed devices include airslides, rotary valves, belt conveyors and screws.

When the flowmeter is fed by an airslide, MERRICK offers an optional airslide adapter. This adapter terminates the airslide and includes a chain curtain to de-aerate and deflect the material down into the flowmeter.

The guide chute directs the material towards the impact plate. The material contacts the impact plate and flows into the process. The impact plate is mounted to the MERRICK-signature parallelogram suspension, which provides the true flow force efficiently to a strain gauge load cell.

## GENERAL APPLICATIONS

- Kiln feed (raw material)
- Separator returns
- Load-out (cement, fly ash, etc.)



MERRICK-Signature  
Parallelogram Weigh  
Suspension

- Cut-off gate required at inlet of bin to ensure no material flow during calibration test
- Level bin sized to provide 15-20 minutes retention time at maximum flow
- Motorized flow control valves must have linear characteristic and maximum slew rate of 20 seconds

FAMILY OF  
**MERRICK**  
COMPANIES

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