

MODEL 450A APRON WEIGH FEEDERS

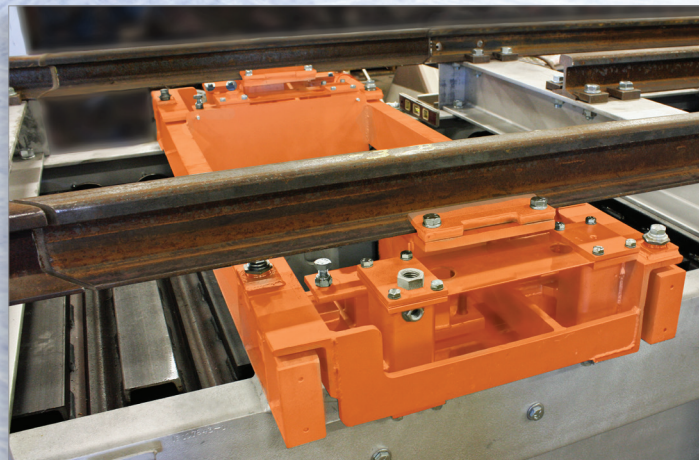
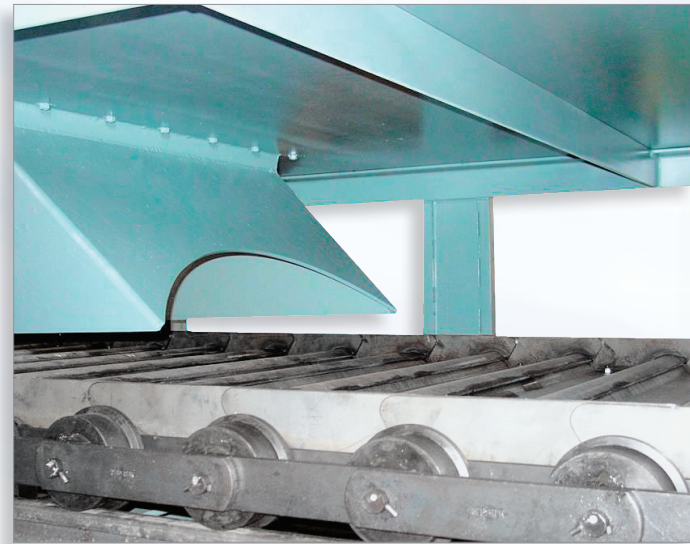
RUGGED AND RELIABLE

MERRICK's custom mass flow infeed is specifically designed for each customer's materials, application and specifications.

TYPICAL APPLICATIONS

- Feeding abrasive materials to cement raw mill
- Metering wet materials such as limestone
- Feeding hot clinker

MERRICK's unique multi-parallelogram weigh suspension provides a stable platform for accurate load sensing. The dual load cell weigh suspension spans three pan sections to provide feed rate accuracies of up to $\pm 0.5\%$. Load cells are mounted outboard, allowing for easy access from the sides of the feeder.



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

MODEL 450A WEIGH FEEDERS



GRAVIMETRIC METERING WITH AN APRON PAN CONVEYOR BELT

FAMILY OF
MERRICK
COMPANIES

10 ARTHUR DRIVE LYNN HAVEN, FL 32444 USA
CALL WORLDWIDE +1 850.265.3611
EN ESPAÑOL +1 850.271.7834
WWW.MERRICK-INC.COM



**MERRICK**

RUGGED DESIGN FOR LONG LASTING PERFORMANCE AND RELIABILITY



MERRICK weigh feeders serve a wide range of applications and are engineered to meet our customers' specific applications. Our Model 450A Apron Weigh Feeder offers a custom designed feeding solution that pairs the rugged conveying capability of an apron belt with precise and dependable gravimetric weighing control. Additionally, our upgrading and modernization capabilities allow older weigh feeders (regardless of make) to be retrofitted with the latest technology which bolsters efficiency, improves accuracy and ensures long-term reliability.

FEATURES

- Designed for abrasive, wet/sticky, large or hot materials
- Extra heavy duty construction
- 24" to 72" conveyor widths
- Lengths 9' to 60'+

STANDARD DESIGN

- **Heavy Duty Conveyor Pans**
4" high overlapping conveyor pans help eliminate material spillage. The pans are mounted on engineered industrial chain with 4" diameter rollers.
- **Multi-Parallelogram Weigh Suspension**
- **Tail Shaft Mounted Speed Sensing**
An encoder mounted on the tail sprocket shaft provides the apron pan's travel rate to the integrating controller and also doubles as a zero speed switch.
- **Heavy Duty Sprockets and Shafts**
Sprockets and shafts are specifically engineered for each individual feeder.
- **Heavy Duty Bearings and Take-ups**
Extra heavy duty pillow block bearings and enclosed screw take-ups.
- **Dust Confining Enclosure**
Easy removal panels on all sides of the feeder create a dust confining enclosure.

STANDARD FEATURES



GENETIX® PROCESS CONTROLLER

The Genetix® process controller for scales and weigh feeders is a powerful single-board controller for a range of applications: from simple single scale installations to complex multi-feeder blending systems. It does not require an operator display to function and can be connected to most modern PLC systems using Devicenet™, Controlnet™, Profibus®, Ethernet, and other industrial interfaces.

Genetix® is a registered trademark of MERRICK Industries, Inc. All other trademarks are the property of their respective owners.

DIMENSIONS AND SPECIFICATIONS

FEEDER WIDTH	CAPACITY
36"	325 TPH
42"	400 TPH
48"	450 TPH
60"	600 TPH
72"	750 TPH

*Capacities are based on material weighing 100 PCF, a feeder speed of 50 FPM and a material depth on the conveyor of 12 inches.

OPTIONAL FEATURES

- Drag Chain Cleanout
- Sloped Bottom Pans
- Discharge Pluggage Switches
- No Material on Conveyor Switch
- Customer Specified Motors and Speed Reducers

