

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

MODEL 450A WEIGHFEEDER




MERRICK

DAEDO

MERRICK 450A APRON WEIGHFEEDER

- **Tail Shaft Mounted Speed Sensing**
An encoder mounted on the tail sprocket shaft provides the apron pan's travel information to the feed rate controller and also doubles as a zero speed switch.
- **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.
- **Heavy Duty Sprockets and Shafts**
Sprockets and shafts are specifically engineered for each individual feeder.
- **Heavy Duty Bearings and Take-ups**
Dodge SAF-XT 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.

OPTIONAL EQUIPMENT

- DRAG CHAIN CLEANOUT CONVEYORS
- SLOPED BOTTOM PANS
- DISCHARGE PLUGGAGE SWITCHES
- NO MATERIAL ON CONVEYOR SWITCH
- CUSTOMER SPECIFIED MOTORS AND SPEED REDUCERS



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

450A APRON WEIGHFEEDER CAPACITY RATES

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.



CRITICAL COMPONENT REDUNDANCY

The Genetix® controller monitors the two load cells in the feeder to detect discrepancies between them. This feature can be used to detect a faulty load cell or a mechanical imbalance. The allowable discrepancy has a settable limit, and when it is exceeded, a warning can be signaled.



MERRICK's unique multi-parallel-gram 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 +/- 0.5%. Load cells are mounted out-board, allowing for easy access from the sides of the feeder.