

INTELLIMERGE®

Case, Tote and Polybag Conveyor

A combination of conveyors utilized to facilitate high-speed induction into a main conveyor line.

IntelliMerge is a combination of conveyors configured to facilitate high-speed induction into a main conveyor line. Advanced logic and motion control allow the IntelliMerge to build slugs of product at speeds that ensure gentle and reliable product handling, while slug-release algorithms provide smooth product releases to a main conveyor line.

The IntelliMerge is ideally suited for systems requiring four or more infeed lanes and high induction rates to sliding shoe sorters. Cartons are accumulated prior to the belting system that make up the lanes of the IntelliMerge system. The belting system measures and sets carton gaps, and then stages slugs of cartons for release onto the main conveyor line.

Once a full staged lane of product is constructed, the IntelliMerge releases a slug of products onto the main line conveyor, creating high-density and high-rate throughput capabilities. Advanced merge logic provides user-configurable release priorities to continually monitor system operations. With an understanding of available product, lane priorities and downstream capacity, merge logic is able to automatically balance releases to best maintain upstream flow while maximizing throughput to the sorter.

The IntelliMerge system has been designed to work at discharge speeds of up to 3.25 m/sec and can provide over 400 cartons per minute induction rates.

FEATURES AND BENEFITS

- Facilitates high-speed induction into a main conveyor line
- Uses advanced logic to accumulate, meter, stage and release product, which enables capability to merge 16 lanes into 1, minimizing flow dependencies with flexibility for future expansion, and allows accumulation conveyor to run at lower speeds for gentle and reliable product handling.
- Low-speed staging with release speeds of up to 3.25 m/sec allows accumulation conveyor to run at lower speeds for gentle and reliable product handling. Intelligent flow control balances throughput of fast slapper cross-dock lanes and slower pick modules.
- Flow balancing based on available product with adjustable automated escalating priorities enables capability to merge 16 lanes into 1, minimizing flow dependencies with flexibility for future expansion. Intelligent flow control balances throughput of fast slapper/cross-dock lanes and slower pick modules.



INTELLIMERGE TECHNICAL DATA

Speed:

Up to 3.25 m/sec; over 400 cartons per minute induction rates; (rates dependent upon average carton length and spacing requirements of downstream equipment)

Operation:

Accumulates, meters, stages and releases product

Length:

Application dependent

Capacity:

Maximum lanes: 16:1

Up to 138 kg/m

Components:

Accumulation conveyor

Brake meter belt

Staging belt

High-speed, V-belt junctions

Main line transportation conveyor

High-rate gap optimizing conveyor

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