We Optimize Your Supply Chain

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FlexSort™ SL2

SLIDING SHOE SORTER

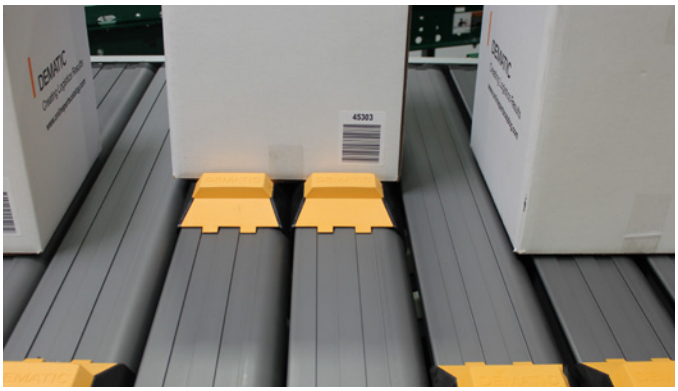
FlexSort™ SL2

TWO DRIVE OPTIONS, TWO DIVERT OPTIONS

OVERVIEW

FlexSort™ SL2 is the next generation sliding shoe sorter that incorporates many new design features for improved performance, ease of maintenance, and reduced cost of ownership. The FlexSort SL2 builds on engineering knowledge gained from extensive experience building and implementing many versions of sliding shoe sorters, including the Transort, Whispersort, PS-140, RS200 and the FlexSort SL.

The key attribute of the FlexSort SL2 is modular design. For example, the FlexSort SL2 offers the choice of two drive options and two diverting methods. The parallel divert operation produces the highest sort rate in the industry at slower speeds (approx. 30% less machine speed). Angle diverting allows positive sortation at a reduced price point, but at a rate that matches other sliding shoe sorters. Other significant attributes include automatic variable speed control, advanced shoe design and the omission of end drive and oily chain loops on both sides of the sorter. Life cycle support features include: fast/easy slat removal design, no chain to be lubricated, side thrust wheels to ensure smooth slat flow, divert force on bearing (instead of pin), and an all new diverting mechanism designed for ultra long life cycle. Furthermore, the divert module can be easily re-located to change divert points in the future.



DIVERT METHODS

ANGLE DIVERTING

FlexSort SL2 can be configured with angle divert control. This configuration provides traditional angle sweep for sorting. For medium to high rate applications, this solution is offered at a lower price point.

PARALLEL DIVERTING

FlexSort SL2 can be configured with parallel divert control. This configuration allows small gaps between cartons, which in turn produces higher throughput rates at a slower machine speed: 200 cartons/minute @ 400 feet/minute. Full speed operation provides sort rates of up to 400 cartons/minute.

DRIVE CONFIGURATIONS OMIT CHAIN, OILERS, SLAT SKEW

LINEAR INDUCTION DRIVE

Linear induction drive motors provide a non contact, solid state method of propelling the slats. Since the linear induction drive provides a non contact configuration, it omits the need for a mechanical drive mechanism thereby reducing maintenance requirements. Furthermore, the use of multiple linear induction drive motors on the sorter creates redundancy thereby increasing system uptime.

DESIGNED FOR ROBUST PERFORMANCE & EASY MAINTENANCE

FAST SLAT CHANGE-OUT

Slat removal is quick and easy using the Dematic slat removal tool. There is no need to remove the cap angle cover, side rail covers or dis-assemble chain links. Slats lift out in a matter of seconds by lifting the slat with the slat removal tool. This significantly reduces time required to access the internal portion of the sorter for maintenance.

SLAT DESIGN

Modular slat design allows quick release functionality. This makes slat removal and insertion extremely simple. Hard anodized coating on slats extends slat life.

SLIDING SHOE DESIGN

The sliding shoe is designed with a wedge shaped ramp which provides low impact carton contact while capturing the load for smooth and positive sortation. Hard coated anodized slats extend slat life. Light weight aluminum with appropriate wall thickness reduces energy required by the drive system.

SIDE THRUST WHEELS

The side thrust wheels maintain balanced and smooth slat movement. Cap angle covers are required for proper operation.

FLEXIBLE DIVERT LOCATIONS

The divert mechanism is engineered as a modular component. This allows the divert module to be relocated if divert locations change in the future. The aluminum side frame has T slots for divert module mounting. Cabling is on a network and easily accommodates divert switch location changes.

REDUNDANT DRIVES

The SL2 can accommodate applications that require a longer configuration using one sorter. Single drive sorters have a limited length that can be supported and may require multiple sorters, end to end for extended length applications. Since the SL2 is engineered with multiple redundant drive motors, a single sorter can be applied to applications up to 1300 feet (400 meters).

DIVERT FORCE

Diverting action is performed on the bearing instead of the pin.

DIVERT MECHANISM

The divert mechanism utilizes a brushless torque actuator which provides an ultra long and extended life. Divert mechanism is easy to access if service is required.

AUTOMATIC VARIABLE SPEED CONTROL

The FlexSort SL2 sorting system can more effectively accommodate the ebb and flow of your operation. This sorting system automatically adjusts to the throughput demands as it changes throughout the day. That means, if there is a surge or decline in flow, the sorter automatically speeds up or slows down to efficiently accommodate actual activity. Why run the sorter at top speed all day when demand varies as it does in so many distribution centers? Automatically adjusting the sorter speed reduces energy use, wear/tear, sound and maintenance. It is all about matching sorter machine speed to the actual throughputrate required.

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