

SL2000 Series

Advanced Line Conveyor System



The SL2000 advanced line metal detector conveyor system is intended for the inspection of packaged or unwrapped product in the most demanding production environments. The heavy duty, fully welded conveyor construction is designed to support the customization needs of even the most challenging applications.

Customization is available to all system parameters via METTLER TOLEDO Safeline's highly capable engineer to order process.

Turnkey System Integration

The SL2000 design platform, paired with our innovative engineering team, creates a customer friendly integration experience. Even if a complex inclined or curved design is required, the SL2000 eliminates the need to work with multiple integrators to provide a complete solution.

Industry Leading Sensitivity and Uptime

The SL2000 is designed to accommodate all available metal detector head models to offer increased performance when required. High uptime is driven through base IP65 construction, robust mechanical parts, and layout of components for ease of access by maintenance personnel.

Enhanced Due Diligence for Process Control

This product offers "due diligence" and software packages to provide added security to the system as a critical control point in your process. Options include rejected product confirmation, reject bin full sensor, electronic reject bin access, and lockable access covers, in addition to other quality control features.

Sanitary Design Focus for Ease of Cleaning

A fully welded base design facilitates cleaning cycles with a focus on maintaining open area around the system. Easy to remove safety guards and product guides expose the remainder of the system for sanitation. Hygienic construction upgrades are available for non hollow frame, AMI, and 3-A Sanitary designs to comply with strict industry standards.



Specifications

Feature	Specification
Metal Detector Head Model	Signature, Signature Touch, PowerPhasePRO, PowerPhasePRO RB, or Profile Advantage
Lane Configuration	Single lane or multiple lane, timed-and-spaced or intermittent bulk flow applications
Power Supply	110V/1Ph, 220V/1Ph, 220V/3Ph, or 480V/3Ph
Pneumatic Supply	80psi @ 5-10scfm clean air supply required for air operated reject systems
Ingress Protection	IP65 system ingress protection (head + conveyor)
Belt Type	Plastic modular belt or 2-ply polyurethane belt
Floor Mounting	Stainless steel leveling pads +/-50mm
Belt Width	Base range from 150mm to 1300mm, in 50mm increments
Operating Height	Base range from 600mm (flat) or 150mm (inclined) minimum, to 1100mm maximum
System Length	Base range from 1200mm to 3500mm
Reject Type	Stop Alarm, Air Blast, Pusher, Overhead Pusher, Sweep Arm, Retracting Band, End Flap

Available Customization Options

Feature	Specification
Belt Type	Customer specified positive-drive polyurethane, table-top chain, or cord-style belt
Belt Width	Any belt width from 25mm
Operating Height	Any height from minimum of 500mm (flat) or 150mm (inclined)
System Length	Any length from 1000mm (dependent on head aperture, reject)
Reject Type	Fully customizable to suit specific application needs

Available Options

Option	Description
Variable Speed	Variable conveyor speed with enclosure-mounted potentiometer
IP6x Upgrade	IP66 or IP69 system ingress protection (head + conveyor)
Product Guides	Adjustable product guides (infeed through aperture, or full length)
Mounting	Lockable casters +/-50mm (hygienic options available), or suspended mount design
Reject Bin	304SS or plastic locking reject bin options
Reject Beacon	Single lens red reject beacon with push button or key reset, or custom configuration
Reject Confirmation	Sensor at reject outfeed to ensure that rejected product has been cleared from line
Electronic Bin Lock	Reject bin access is controlled via HMI interface
UL Approval	cULus 508A listed industrial control panel
Hygienic Rating	Non-hollow frame, AML, or 3-A Sanitary dairy full system construction available

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Subject to technical changes
 © 3/2021 Mettler-Toledo Product Inspection
 Printed in USA
 MD-PIUS-DS2-EN-SL2000-03042021

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