SL1500 Series
Standard Line Conveyor System

The SL1500 Standard Line metal detector conveyor system is intended for the inspection of small and medium sized packaged products in both dry and wet environments. It is designed to offer a reliable, standardized conveyor solution at a competitive price.

A pre-defined configuration set and modular design streamlines engineering and production effort, enabling shorter lead times.

Application Flexibility
The SL1500 platform supports the integration of M31R, M33R, M34R, Profile, and Profile Advantage metal detection technologies, allowing the selection of the correct solution for the application.

Ease of Cleaning
The design features quick belt removal and easy access to all surfaces during cleaning cycle. The system is rated to IP65, with option to upgrade to IP69, and has a continuously-welded 304SS tubular frame to withstand common industrial cleaning agents.

Safe Equipment Design
The system includes Cat-1 safety circuit with emergency stop integrated into electrical and pneumatic circuits. Standard components feature lock-out/tag-out capability.

Ease of Maintenance
The system layout provides easy access to all mechanical and electrical components. Use of readily available components reduces the need for spare part inventory.

METTLER TOLEDO

Technical Details

Feature	Specification
Metal Detector Head Model	M31R, M33R, M34R, Profile, or Profile Advantage
Customer Product	Packaged customer products up to 20 kg (<44.1 lbs)- no unwrapped or bulk product applications
Lane Configuration	Single lane (when configured with an automatic reject mechanism)
Conveyor Belt Speed	Fixed conveyor speed, any value within 10-60 m/min (32.8-196.9 ft/min) range
Conveyor Drive	Nord (IP65/66) or Leeson (IP69) drive motor, Boston gearbox, Mitsubishi FR-D700 VFD
Power Requirement	110V/1Ph, 220V/1Ph, 220V/3Ph, or 480V/3Ph
IP Rating	IP65 system ingress protection (head + conveyor) Upgraded ratings available (see Options below)
Belt Type	Plastic modular Intralox 900 Series belt with 95 mm (3.7 in) transfer transfer diameter
Floor Mounting	Stainless steel leveling pads +/- 50 mm (2 in)
Belt Width	150 mm (5.9 in) to 650 mm (25.6 in), in 50 mm (2 in) increments
Belt Height	700 mm (27.6 in) minimum height (800 mm (31.5 in) w/ casters) to 1100 mm (43.3 in) maximum height (Flat/Level orientation only)
System Length	1200 mm (47.2 in) minimum length to 2200 mm (86.3 in) maximum length
Reject Type	Dry Contacts, Stop on Detect, Air Blast (<2 kg) (4.4 lbs), Pusher (<10 kg (22 lbs) or <30 kg (66.1 lbs)), or Overhead Sweep (Uni or Bi-Directional)
Safety Guards	Standard plastic safety guarding
Event Reset Method	Push button reset (if applicable) to clear any system fault before the conveyor can be restarted

Available Options

Option	Description
Variable Belt Speed	Variable conveyor speed, "3x limit" within 10-60 m/min (32.8-196.9 ft/min) range (i.e. 15-45 m/min (49.2-147.6 ft/min), etc.)
IP Rating Upgrade	IP66 or IP69 system ingress protection (head + conveyor)
Product Guides	Adjustable product guides (infeed through MD aperture only)
Lockable Casters	Stainless steel lockable casters +/- 50 mm (2 in)
Reject Bin	304SS or Hybrid (SS and Plastic) Reject Bin
Bin Full Warning	Belt stops upon bin full condition with choice of one - amber beacon, alarm, beacon/alarm
Bin Open Warning	Electronic bin lock with "bin open" timer with choice of one - HMI warning, red beacon, alarm, beacon/alarm
Reject Confirmation	Belt stops if product is not rejected with choice of one - red beacon, alarm, beacon/alarm
Detection Indicator	MD contamination warning with choice of one - red beacon, alarm, beacon/alarm
Air Failure Warning	Belt stops upon low air condition with choice of one - blue beacon, alarm, beacon/alarm
Head Fault Warning	Belt stops upon any head fault with choice of one - red beacon, alarm, beacon/alarm
Performance Test Due	MD head performance test reminder with choice of one - white beacon, alarm, beacon/alarm
Key Reset Switch	Upgrade from push button reset to key reset switch
UL Approval	cULus 508A listed industrial control panel

Customization from above standard product options is not allowed on SL1500 Standard Line MD conveyor system

www.mt.com/pi

For more information