

RMC Metal Detector Conveyor Range

Reynolds
Group

Product Integrity & Identification



Contact us today to
find out more:

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This specialised conveyor system is designed for optimal use with metal detectors under harsh conditions. Models are available to fit tunnel metal detectors from 250mm to 800mm wide, including the full range of Sesotec tunnel metal detectors.

The RMC range can also be used with most other brands of tunnel metal detectors with standard mounting points.

Key Features

- **Belt widths:** 250mm, 350mm, 450mm, 600mm, 750mm
- **Variable speed:** 10 - 30 m/min
- **Incline or decline available**
- **Customisable conveyor height & length**
- **Unidirectional or bidirectional for 'reverse-on-detect'**
- **Compatible with the full Sesotec metal detector range**
- **Multiple reject options**
- **Easy integration with line control & line safety system**
- **Designed & built in New Zealand**
- **Specifically designed for harsh, wet, dusty environments**

A variety of options & customisations are available to ensure full integration with your production line.

Adjustable bolt-on leg frames, including options for inclined operation, allow for simple height setting to match your line. The 2m standard conveyor length can be extended to suit your requirements, and a range of reject options can be added.

The RMC range includes variable speed control between 10 m/min to 30 m/min. For added durability the bed is built with ACM TriboTex, a high load composite bearing material constructed from a synthetic fabric reinforced thermoset resin that features excellent mechanical strength and insulation properties. This ensures optimum metal detector performance.

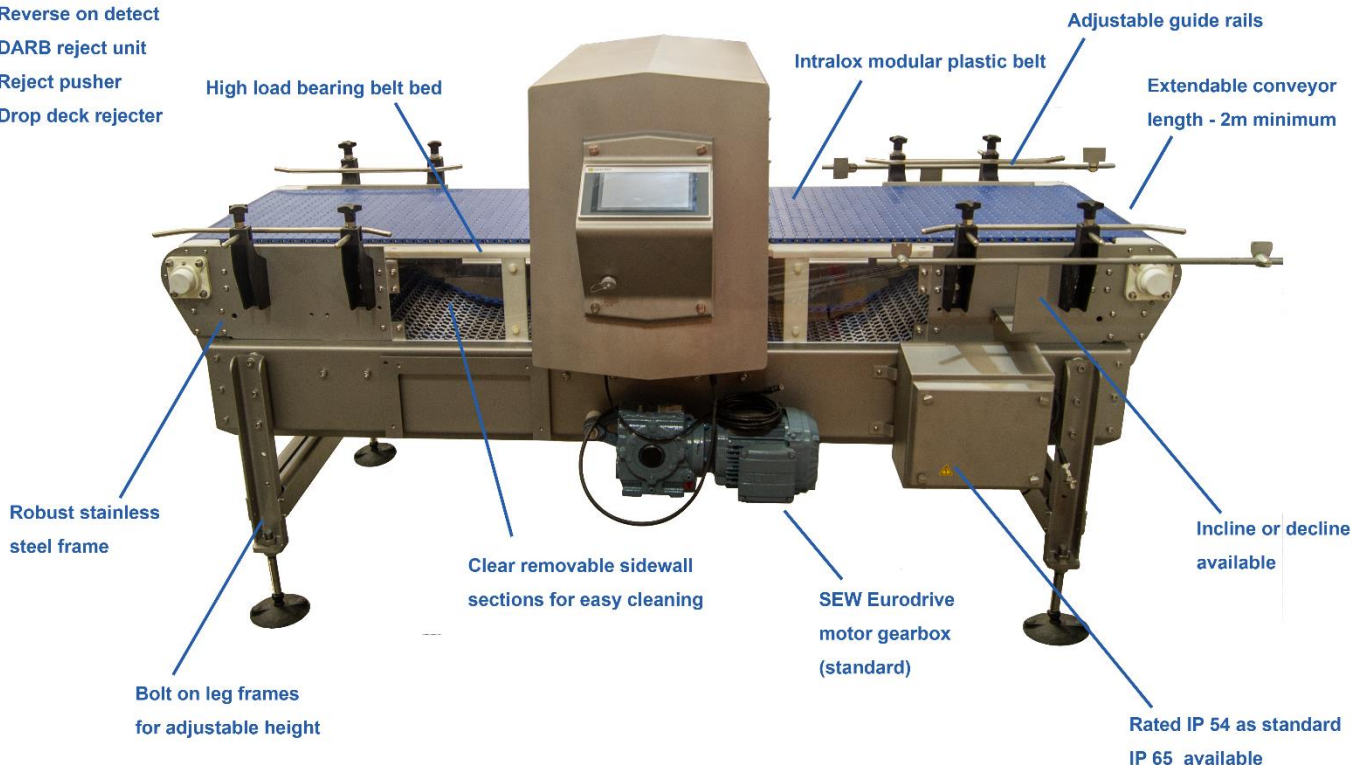


Performs in Harsh Environments

The RMC conveyor range is designed with challenging environments in mind. Containing no dirt or moisture traps, the systems are built to ensure easy cleaning in harsh, wet and dusty environments,

Reject Options:

- Reverse on detect
- DARB reject unit
- Reject pusher
- Drop deck rejecter



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The RMC range are available in unidirectional and bidirectional (for reverse-on-detect) configurations and offer three reject control options:

- **Reject on Detect** - Products with a single contaminant detection are rejected.
- **Reverse on Detect** – When a contamination is detected, the conveyor will reverse to inspect the product again. If there is a second detection the product is then rejected.
- **Stop on Detect** – When a contamination is detected the line is stopped until an operator has removed the product.

Optional heavy-duty reject units are available on 350mm, 450mm and 600mm width belt conveyors to divert products up to 50kg.

TECHNICAL SPECIFICATIONS

Drive Configuration

Variable Speed	10 to 30m/min
Motor Frequency Inverter	Allen Bradley Powerflex 525
Gearmotor	SEW Eurodrive standard
Drive Direction	Unidirectional (standard) or bidirectional

Environment

IP Rating	IP54 (IP65 option available)
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Metal Detector

Sesotec Tunnel Metal Detector	Fits the full range of Sesotec tunnel metal detectors from 250mm to 800mm width
Alternative Brand Metal Detector Footprint	Alternative metal detectors with a tunnel width of between 300mm - 800mm can be integrated with the system

Reject Options

Optional Reject Units	DARB Reject Pusher Reject Drop Deck Reject**
Reject Actions	Selectable: Reject, Reverse-on-Detect, Line Stop

*Available on 350mm, 450mm and 600mm width conveyor belts.

** Suitable for low height products only

*** Tunnel width and height varies by model.

Physical

MD Tunnel Width	250mm – 800mm*** (Other widths available on request)
MD Tunnel Height	No restrictions
Conveyor Length	2.00m (other lengths available as option)
Conveyor Height	675mm to 875mm standard. Other heights available as option
Incline/Decline	Optional. Maximum incline and decline angles are dependent on the product being conveyed
Belt Widths	250mm / 350mm / 450mm / 600mm / 750mm
Product Sensor	Sick Photoelectric
Construction	304 Stainless Steel ACM TriboTex 7N Nylon Acetal Intralox plastic modular belt

Electrical

Power Consumption	0.85kW (excluding metal detector)
Connection Requirements	10A 230VAC Single Phase