

X34 Series

Intelligent Optimum Detection



The X34 X-ray Inspection System is a single lane solution designed for the inspection of small and medium sized packaged products. It offers automated product set-up coupled with intelligent software to improve production uptime, reduce manufacturing costs and enhance detection sensitivity. The X34 Series provides the ultimate in product safety with a minimal False Reject Rate (FRR).

Increased Detection Sensitivity

An Optimum Powered Generator, combined with a 0.4mm detector, automatically adapts to detect a range of small, hard-to-find contaminants; improving product safety whilst reducing operational costs.

Automated Product Set-up

Automation enhances detection sensitivity and production uptime by removing the possibility of human programming errors during set-up across multiple product lines.

Minimum False Reject Rate

Mettler-Toledo's ContamPlus™ x-ray inspection software algorithms further

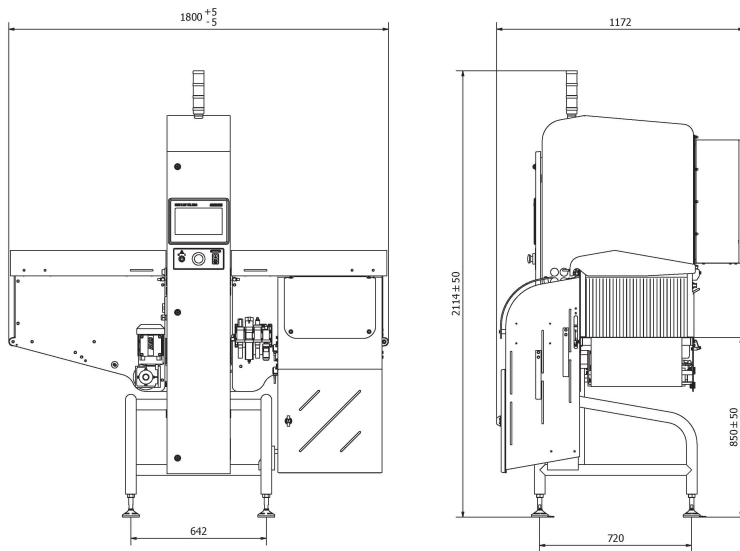
enhance detection sensitivity, resulting in a minimum FRR and reduced product waste.

Class-leading Software Capabilities

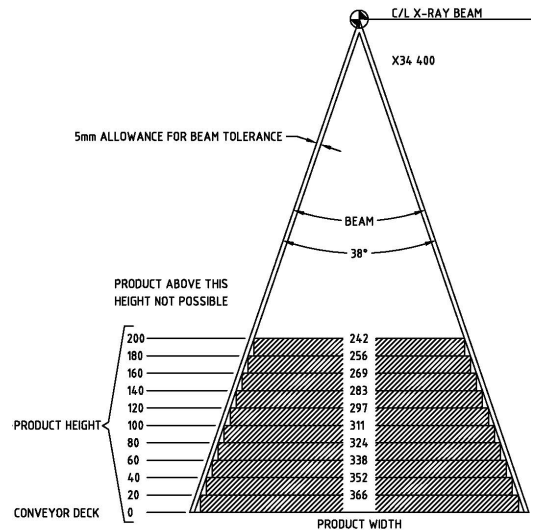
Our enhanced software offers reliable contamination detection, providing outstanding detection sensitivity and simultaneously performs inspection checks for product quality and packaging presentation integrity, ensuring brand protection.

Low Power = Low Total Cost of Ownership

The low powered generator reduces energy consumption and protects profitability by reducing the Total Cost of Ownership, whilst supporting sustainability values.



X34 Series - 1800mm long option



X34 Series beam diagram with 400mm scan width

Specification Table

Feature	Specifications
Conveyor Speed	Typical line speeds 10-60m/min (dependent on product dimensions)
Lane Configurations	Single lane applications
Throughput Rate	Typical throughput rates of up to 300 products per minute (dependent on product dimensions)
Maximum Product Height	200mm for all system options
X-ray Detector	300 or 400mm length, 0.4mm or 0.8mm diode size
X-ray Generator	Optimum Power 100W, up to 84kV, up to 3.3mA Glass or optional Beryllium tube
X-ray Beams	Single vertical beam
X-ray Emissions	<1uSv/hr
X-ray Protections	Fully contained emissions within construction, lightweight lead-free blue curtains at tunnel apertures
Cooling Method	Air Conditioner
Operating Humidity	Up to 90% RH
Operating Temperature	5 – 40°C
Power Supply	208 - 240 Vac, 1 phase, 50 - 60Hz, 10A max 100 - 120 Vac, 1 phase, 50 - 60Hz, 16A max
Pneumatic Supply	6 Bar(g) clean air supply required for air operated reject system
Casing Material	304 stainless steel
Finish	180 - 240 Grit brushed on main components
Ingress Protection	IP65 as standard. IP69 as an optional upgrade
Operating Height	750mm, 850mm, 950mm, 1050mm or 1150mm (+/- 50mm)
System Conveyor	FDA and EU food use approved TPU conveyor belt, 0.25kW motor unit, 36mm diameter and end rollers
System Length	800mm, 1100mm, 1300mm, 1800mm or 2000mm options
Screen Display	10.1" Capacitive Touchscreen display (16:9 aspect ratio)
Reject Type	Pusher or airblast, lift flap or retracting belt options
Reject Collection	Lockable bin, lockable tray, lockable roller tray, reject blanking plate, gravity fed roller track
Operating System	Microsoft Windows
Connectivity Options	Ethernet connection available
Traceability Options	Full event log tracks changes of parameters, users and products
Guide Rails	Optional infeed or full length guide rails up to reject station. 10mm round bar style, 5mm Flat face bar or side roller

Mettler-Toledo Group

Product Inspection Division
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www.mt.com/safeline-xray

For more information



Subject to technical changes
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