

X36 Series

The Big Difference is in Every Detail



The X36 Series is the latest generation of x-ray inspection equipment, which was designed considering customer feedback and using the wealth of application knowledge from our in-house x-ray experts. Developing outstanding and technologically advanced x-ray systems, the X36 Series is designed to inspect small, medium and large sized packaged products. A full range of inspection tools are available to detect contaminants, regardless of their size, shape or location whilst simultaneously performing product integrity checks. It's ingenious design and core components are engineered in-house, offering inspection at high line speeds, like no other x-ray system on the market for a wide range of products on single and multi-lane applications.

Superior Product Safety

The X36 Series x-ray systems deliver outstanding contamination detection of contaminants like glass, metal, mineral stone, calcified bone and high density plastics, even for products wrapped in aluminium foil or metallized film.

Maximum Uptime

The user friendly, intuitive interface ensures product menus can be set up or adjusted by line operators, without the involvement of an

engineer and automatic product set up can readily be completed within minutes.

Protect your Profitability

The X36 Series of x-ray systems offer not only contamination detection but is also able to perform product integrity checks with its full suite of inspection tools available as standard, reducing giveaway and product waste. This combined model protects profitability, ensures product safety and quality simultaneously.

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The Big Difference is in Every Detail

The X36 Series of x-ray inspection systems offer consistent and reliable inspection results in the real world. The future-proof modular design of the system makes it the most adaptable x-ray system available on the market.

Software Capability

- The x-ray systems deliver optimum, consistent and reliable inspection results using the full range of inspection tools (contamination detection and product integrity checks)
- Sophisticated yet simple to use with flat menu structure, giving the operator full control without requiring special training or previous x-ray knowledge
- Automated set-up and ready to use within minutes, ensuring maximum production uptime
- Will typically inspect up to 1,000 products per minute (depending on product application)
- ProdX - Product Inspection data management software options deliver Production Management a wealth of real-time information, enabling the effective control of product inspection processes and devices

Design / Hygiene

- Meticulous attention to hygienic design following EHEDG and NSF recommendations developed one of the most hygienic systems on the market
- Including a robust, tubular hygienic frame design and sloped surfaces for allowing water roll-off as well as full access to the system, ensuring easy maintenance and servicing

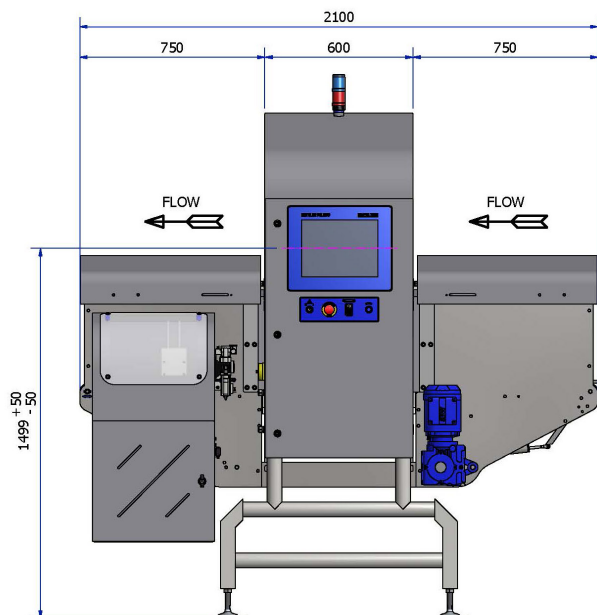
Audits / Verification

- Full statistics traceability for quality reporting
- Performance verification built in to ensure constant optimum performance
- Flexible approach to connectivity is offered with options for data retrieval via external USB or Ethernet ports, directly or via an OMAC compliant OPC server
- Reject confirm and bin full options, ensure a 100% effective rejection from the line

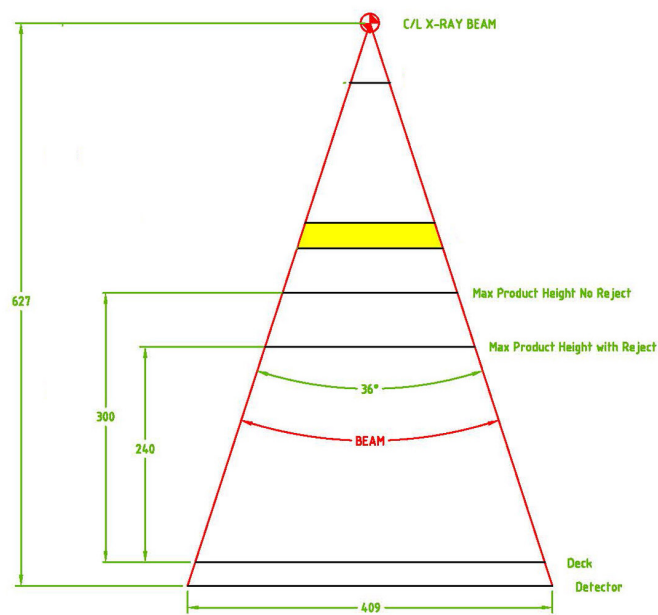
Flexibility / Safety

- 300mm, 400mm, 500mm & 600mm wide belt systems are available to suit diverse range of applications
- Available in a 2100mm length, enabling manufacturers with limited factory floor space to comply with rigorous industry standards and reduce energy consumption
- The most energy efficient x-ray system with unique diverse range of proprietary generators and sensors to suit
- The X36 Series is also inherently safe, reliable and sustainability has been increased providing x-ray inspection with a greener solution





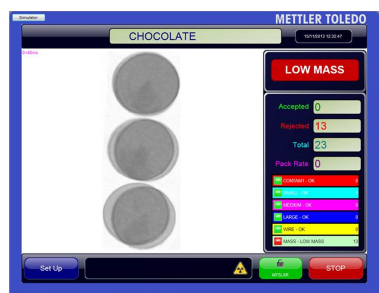
X36 Series 2100mm long 400mm drawing front view



X36 Series beam diagram with 400mm scan width

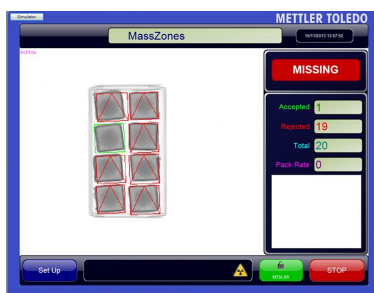
X36 Series Software Tools

The X36 Series of x-ray systems can perform contamination detection whilst simultaneously performing gross mass measurement, object counter and zoned mass on single or multi-lane applications.



Gross Mass Measurement

To check that the correct amount of product is present, the x-ray system compares each x-ray image of a pack with an image from a known good pack. If the calculated mass falls within a programmed tolerance, the pack is good. If it deviates, the pack will be rejected.



Zoned Mass

Working on the same principles as mass measurement, the zoned mass tool is suited to inspecting product with multiple objects or compartments within a pack measuring the mass of individual zones.



Object Tool

Aimed at counting objects within a pack. The object counting tool is used to ensure a product has no missing items, or to make sure there are not too many items within the pack. It can also be used to check for damaged items.

Sustainability Credentials

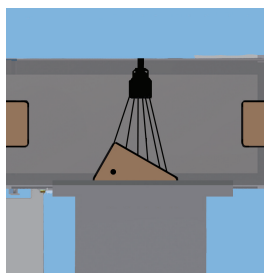
The X36 Series is available with a range of power options; some models don't even require a cooling system due to its low power consumption contributing to overall reduced total cost of ownership for the customer and making it the most energy efficient system on the market.



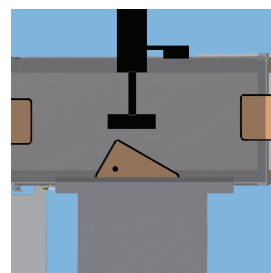
Lower energy consumption	✓
Thinner Stainless Steel used due to low power x-ray generator	✓
Recyclable materials	✓
100% lead free	✓
Fewer production steps	✓
Reduction in weight	✓
Reduction in (transport) volume	✓
Less cooling required	✓
LED display instead of CCFL	✓
Reduced electronic components, less PCB's used	✓
Miniature LED lamp stack	✓

Reject Mechanisms

The X36 Series offers a range of fully incorporated reject mechanisms. The correct choice depends on a number of factors like type of environment, belt speed, container type, weight and size. All reject systems have optional reject verification, ensuring that the faulty product has been rejected into the reject bin, verifying the reject is working.



Air blast reject system



Short stroke side pusher reject system

Specification Table

Feature	Specifications
Software	Phoenix 2
Casing Material	304 stainless steel
Finish	180-240 Grit Brushed on main components
Connectivity Options	Ethernet connection at detector
Conveyor Speed	Typical line speeds 10- 80 m/min (dependent on product dimensions)
Lane configurations	Single and multilane operations
Throughput rate	Typical throughput rates of up to 1,000 products per minute (dependent on product application)
Operating height	850mm, 950mm or 1050mm (+/- 50mm)
Maximum product height	240mm with a reject, 300mm without reject
Cooling Method	20W = Internal Fan Only 100W = Air Conditioner 400W = Radiator Pump & Air Conditioner
Screen Display	15" LED display
Operating Humidity	90% RH
Operating Temperature	5 - 40°C
Power Supply	230Vac, 1 phase, 50Hz, 6A
Pneumatic Supply	6 Bar(g) clean air supply required for air operated reject system
Traceability Options	Full event log tracks changes of parameters, users and products
X-ray Detector	300, 400, 500 & 600mm
X-ray Generator	20W, 84kV, 0.25mA Glass or optional beryllium 100W, 84kV, 1.2 mA Glass or optional beryllium 400W, 84kV, 5.0 mA Glass or optional beryllium 300W, 100kV, 3.0 mA Glass or optional beryllium
X-ray Beams	Single
X-ray Emissions	< 1uSv/hr
X-ray Protections	Fully contained emissions within construction, lightweight lead-free blue curtains at tunnel apertures
Reject Type	Pusher and Airblast
Reject Bin	Front mounted lockable reject bin with viewing window as standard
System Conveyor	FDA and EU food use approved TPU conveyor belt, 0.55kW motor unit, 60mm diameter end rollers
Guide Rails	Optional infeed or full length guide rails up to reject station. 10mm round bar style



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For more information