X16 X-ray System

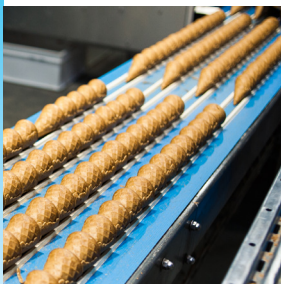# Precise and Complete Inspection
For Medium to Large Products

Prevent Product Recalls
The X16 offers maximum product safety, delivering reliable contamination inspection by accurately detecting a wide range of foreign bodies such as metal, glass, stone, bone and low-density materials.

Effective Quality Control
With a selection of quality and integrity checks, the X16 provides product inspection beyond just contamination detection, so you can be confident that only the best quality products reach your consumers.

Enhance Productivity
The X16 maximizes production uptime by combining superior industrial design with a range of productivity tools. These include simplified cleaning routines, an intuitive user interface, and a reliable set of state-of-the-art subsytems.

Make Compliance Easier
The X16 has built-in software capabilities that allow full product traceability through a recorded image database. This can be accessed directly with the system's interface or connected remotely to ProdX, or any of the most common network protocols.
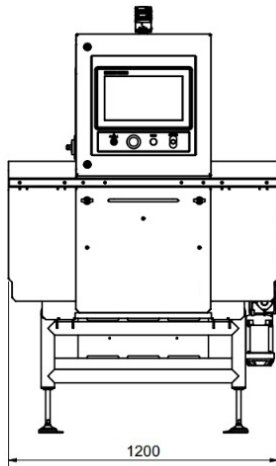
The X16 X-ray Inspection System
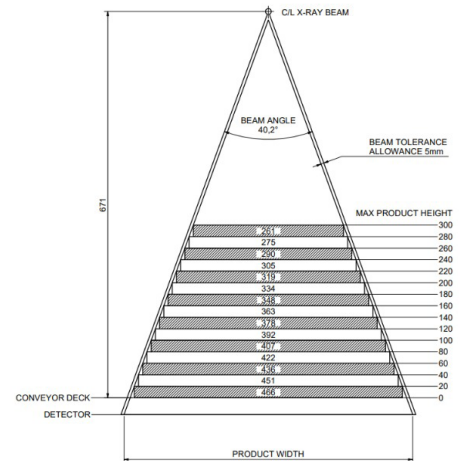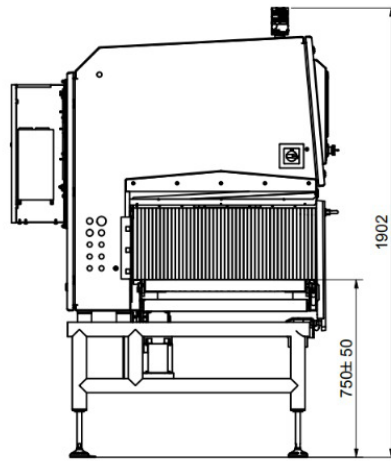High Performance Product Inspection

The X16 is a high performing x-ray inspection system for medium-large sized packaged products. As part of the X6 Series, the X16 has cutting edge detection capabilities with its HiGain detector technology, providing accurate detection at an incredible price point.

The X16 provides high-level inspection suited to your production requirements and budget.

METTLER TOLEDO

Technical Details

1200 mm, X16 Short System Diagram

X16 Beam Size Diagram - 500 mm detector, 150 W, No reject

Specification Table

Feature	X16 Specifications
Contamination Detection	Metal from 0.3 mm, shards of glass under 2 mm and stones, bones and several low-density materials*
Product Quality Tools	Completeness check, product fill level, clip detection*
Compliance	User management, Product validation feature and performance verification routine (PVR). Fully lockable inspection tunnel.
Conveyor Speed	10-60 m/min
Lane Configurations	Single and multi-lane (software)
Throughput Rate	300 products/min
Maximum Product Height	300 mm
Product Set-up	Automatic configuration and fast set-up with ContamPlus
X-ray Detector	500 or 600 mm length, HiGain Technology
X-ray Generator	Optimum Power 150 W, up to 85 kV, up to 3.0 mA glass tube or 350 W, up to 80 kV, up to 8.0 mA glass tube.
Operator Safety	X-ray emissions <1uSv/hr, fully contained within construction, lead-free curtains with non-contact safety interlocks
Cooling Method	Air Conditioner
Environmental Conditions	Operating humidity up to 90% RH. Operating temperature 5-40°C
Power Supply	208-240 Vac, 1 Phase, 50-60 Hz, 10A max
Hygienic Features	Durable body in 304 Stainless Steel, with anti-accumulation sloped surfaces. Finish 180-240 Grit brushed on main components. Toolless removable belt and curtains. Integrated cable management
External Interface	Customer dedicated 5 digital inputs 8 digital outputs, dependent on product configuration
Ingress Protection	IP65/IP66 for main enclosure and conveyor. Air conditioner IP34
Operating Height	550 mm, 650 mm, 750 mm, 800 mm, 850 mm, 900 mm, 950 mm, 1000 mm, 1050 mm, 1100 mm or 1150 mm (+/- 50 mm)
System Conveyor	FDA and EU food use approved TPU conveyor belt, 0.37 kW motor unit, 50 mm diameter infeed roller, 80 mm diameter outfeed roller
System Length	1200mm
Screen Display	15.6″ Capacitive Touchscreen display (16:9 aspect ratio)
Operating System	Concurrent algorithms Flex system software with Microsoft Windows 10 (upgradable via USB)
Traceability Options	Event log tracks changes of parameters, users and products. Product traceability through recorded image database, accessed via USB, ProdX, Ethernet/IP
Product Handling	Optional infeed or full-length guide rails
Service	Remote support ready, 5-year generator warranty, spare parts kits and service plans

*dependant on application

www.mt.com/safeline-xray

For more information