



AMFEC

AMERICAN FOOD EQUIPMENT COMPANY

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X-RAY DETECTION

—
BULK XR-450

powered by

AICON X-RAY
IMAGING QUALITY

BULK XR-450



A modern and technologically advanced X-ray inspection system designed to control the quality of unpackaged bulk products, such as fruit and vegetables, nuts, grains, dried fruits and more. BULK XR series detectors provide effective protection against contamination at the pre-packing stage while also minimizing the risks associated with damage to subsequent process devices in the production line.



110 m/min
Speed



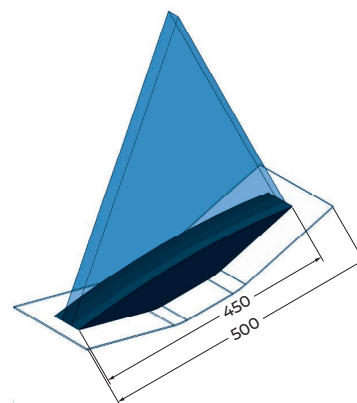
10 Gb/s
Processing



9000 kg/h*
Performance

ADVANTAGES

- **Effective detection** - the highest detection level (POD) of metallic contamination, glass, stones, calcified bones, Teflon, ceramics, dense plastics, product lumps and more, with the lowest false rejection rate (FRR).
- **Multifunctional** - thanks to the industry-record number of image analysis algorithms, AICON X-RAY detectors can efficiently handle any type of application.
- **High-performance** - an innovative data processing method, supporting production lines of up to 9000 kg/h*
- **Dual Energy Imaging** - the optional Dual Energy Imaging technology uses two different radiation energies to differentiate between materials in order to more precisely detect contaminants in products that are “difficult” or inhomogeneous in terms of X-ray detection technology (for example, products that have different density, random arrangement or overlap).
- **Traceable** - full product history (including the manufacturing process) and easy access to a detailed archive data for quality control.



Beam geometry



FEATURES

- **An intelligent, ergonomic design** - ergonomic solutions ensure comfortable operation and allow for easy and quick system adjustment, should you need to replace individual consumable components. Plus, these systems have been designed to the highest standard of hygiene for easy maintenance regardless of manufacturing conditions.
- **Simple and easy to use** - simple and convenient operation, thanks to the highly ergonomic system and automated product learning.
- **Interface personalization** - flexibility to adjust the control panel to suit individual user requirements, allowing for higher operational comfort.
- **Full MES integration** - intelligent integration into the production environment and vast compatibility with current industry standards guarantee seamless communication of the X-ray detection system with key devices in the production line (including EtherNet/IP, PROFINET, S7, EtherCAT, Modbus-TCP, Profibus, CAN, CANopen, OPC UA, SQL, Siemens Standard and RS).

TECHNICAL SPECIFICATION

Troughput	≤ 110 m/min, 9000 kg/h*
Detection area	450 mm
Diode resolution	0,2 mm – 0,8 mm, Dual Energy
X-ray source	35-100 kV / 1.0-8.0 mA, 500 W
Number of scanning beams	1
Beam direction	Vertical
X-ray emission	<1 μSv/h, the product complies with legal EU directives
Cooling	Dry Air Cooling system
Operating environment	Temperature: 0 - 45 ° C, humidity: 30 - 95%, non-condensing
Ingress Protection	IP65 (optional IP69)
Construction material	Bead-blasted stainless steel 1.4301 (AISI 304)
Display	TFT LCD 15" Touchscreen
Operating system	Windows 10 Enterprise
Software	AiSoft
Number of product programmes	1000
Disk space	500 GB for x-ray pictures and internal data storage, expandable
Communication interfaces	Ethernet 10/100/1000 mbps, USB 3.0 for external data storage
Air requirement	Min. 6 bar for pneumatic rejection systems
Power supply	Single phase, 230 VAC +/- 10%, fuse 12 A
Dimensions	2358 mm x 1130 mm x 2567 mm (L x B x H)

* Throughput dependent on bulk density and layer thickness of the product

powered by



CUTTING-EDGE TECHNOLOGY IN X-RAY INSPECTION



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