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AMERICAN FOOD EQUIPMENT COMPANY

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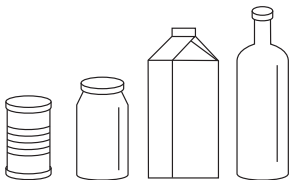
X-RAY
DETECTION

—

SIDE SCAN 4-VIEW

powered by

AICON X-RAY
IMAGING QUALITY

SIDE SCAN 4-VIEW

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 60.000 pcs/h.
- **Flexible configuration -** versatile configuration options to suit a wide range of applications.
- **Traceable -** full product history (including the manufacturing process) and easy access to a detailed archive data for quality control.
- **Simple integration -** the turn-key solution enables uncomplicated and quick integration into the production environment.

The most advanced, high-tech multi-beam X-ray inspection system on the market right now. This system has been designed for precise quality control of products in high packaging, such as jars, bottles, cans, PET, cardboard boxes, tubes and more. Providing excellent safeguarding against contamination and other quality deficiencies, this X-ray inspection system will protect both your product and your brand image.
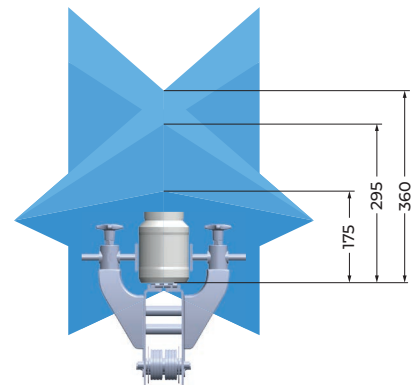
150 m/min
Speed

10 Gb/s
Processing

60.000 pcs/h
Performance

The optimized beam geometry ensures the best contaminant detection results achieved in the bottom part of the container.

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	≤ 60.000 pcs/h
Detection area	360 mm x 150 mm (H x B)
Diode resolution	0,4 mm – 0,8 mm
X-ray source	35-100 kV / 1.0-8.0 mA, 500 W
Number of scanning beams	4
Beam direction	Horizontal, Diagonal
X-ray emission	<1 µSv/h, the product complies with legal EU directives
Cooling	Dry Air Coolling 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 19" 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
Communiction interfaces	Ethernet 10/100/1000 mbps, USB 3.0 for external data storage
Air requirement	Min. 6 bar for pneumatic rejection systems
Power supply	Three phase, 400 VAC +/- 10%, fuse 20 A
Dimensions	2598 mm x 1579 mm x 2417 mm (L x B x H)

CUTTING-EDGE TECHNOLOGY
IN X-RAY INSPECTION

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