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AMERICAN FOOD EQUIPMENT COMPANY

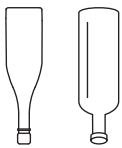
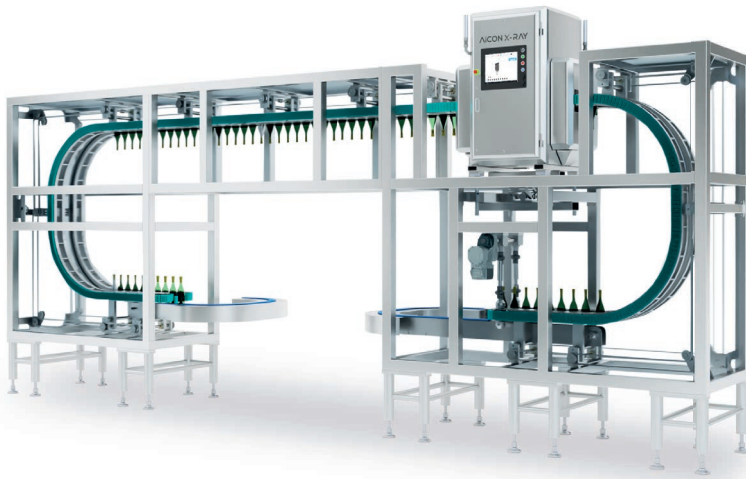
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X-RAY INSPECTION

powered by

AICON X-RAY
IMAGING QUALITY

SIDE SCAN-UPSIDE DOWN



A customized X-ray system dedicated to punt-type bottles, the ones used for champagne or wine. Due to the shape of the bottle bottom, standard X-ray systems are useless. The idea of reversing the bottle allows us to achieve the best possible detection results. Aicon's Side Scan Upside-Down System provides excellent safeguarding against contamination in glass packaging, which was considered not inspectable up till now.



75 m/min
Speed



10 Gb/s
Processing

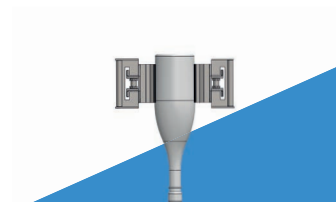


30.000 pcs/h
Performance*

*The system performance may be limited by the custom product handling solution.

ADVANTAGES

- **Effective detection** - the highest detection level (POD) of metallic contamination, glass, stones, Teflon, ceramics, dense plastics, and more, with the lowest false rejection rate (FRR).
- **High-performance** - an innovative data processing method supporting production lines of up to 60.000 pcs/h.
- **Multifunctional** - thanks to the industry-record number of image analysis algorithms, AICON X-RAY detectors can efficiently handle any type of application.
- **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.
- **Complete integration** - the turn-key solution enables integration into the production environment.



Beam geometry

The geometry of the X-ray beam is optimized to detect contaminants deposited on the bottle cap.

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, Mod bus-TCP, Profibus, CAN, CANopen, OPC UA, SQL, Siemens Standard and RS).

TECHNICAL SPECIFICATION

Troughput	≤ 30.000 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	standard:1
Beam direction	Horizontal, Diagonal
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	17"
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	1225 mm x 1215 mm x 1855 mm (L x Bx H)



CUTTING-EDGE TECHNOLOGY IN X-RAY INSPECTION



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