



X-Ray SHARK® BULK series

XD25-L1, XD35-L1 & XD45-H1

High accuracy X-ray Inspection system for bulk flow materials.



CASSEL XRAY SHARK® XD45-H1-BULK

Highlights

- Detects high-density materials such as metal, ceramic, stone, plastic, or glass.
- Easy-to-use touchscreen interface with auto-calibration
- CASSEL Inspection XIA software offers reliability and accuracy with instant contamination detection.
- Integrated rejection unit: Single or multi flap, as well as air gun option, to minimize product waste when rejection occurs

Features

- Real time detection with color coded contamination analysis
- Masking function blocks off areas that do not require inspection.
- Auto-storage of inspection data with time and date stamp
- Windows 10 operating platform with USB and ethernet access for reporting and troubleshooting.
- Quick release conveyor belt for easy cleaning and maintenance
- Remote assistance available via ethernet connectivity
- Designed for 24 hr non-stop operations
- FDA Registered. Designed to meet German safety standards. Includes optional TÜV certification.



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Overview

The bulk flow X-ray system is ideal for products in bulk, for example unpacked nuts, dried fruits or confectionary products.

CASSEL Inspection “XIA” software provides instant analysis and detection with high accuracy and reliability, thus avoiding false rejects. The innovative design offers maximum safety and comfort for daily operations.

The CASSEL Inspection XD Bulk X-ray inspection system is suitable for all industries, especially for those with stringent hygienic standards. Thoughtful design allows for simple cleaning & maintenance.



Large display and clearly arranged functions for easy operating.

Included

- CASSEL Xray Scanner with image processing software XIA
- Protection from radiation exposure
- Certified test cards/wands for assured performance of the X-ray system

Application

Inspection bulk materials such as:

- peanuts, almonds and other tree nuts
- confectionary products
- dried fruit
- legumes

Accessories & Extras

- Radiation Meter
- 21 CFR Part 111 compliance, BRC*
- Reject bin
- Air guns for reject (minimize rejected product)

*BRC kit

With this option, the device meets the requirements of the British Retail Consortium (BRC) Global Standard for food safety and thus also the common standards for HACCP and IFS.



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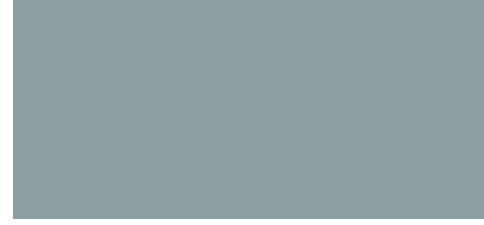
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Specifications

Model	XD25-L1-BULK	XD35-L1-BULK	XD45-H1-BULK
X-ray source	Single beam X-ray generator with		
	max. 60kV (50W) variable in voltage + current	max. 60kV (50W)	max. 80kV (480W)
Radiation leakage	1 µSv/h or less	1 µSv/h or less	3 µSv/h or less
	at 10 cm outside cabinet surfaces		
Safety	Special product tunnel, magnetic safety switches at cabinet doors and tunnel hatches, emergency stop push button, emergency stop in/out interfaces to safety circuits of production line, X-ray off key switch		
X-ray detector	Low noise 307 mm	Low noise 408 mm	Low noise 612 mm
	line scan CCD, diode pitch 0.8 mm, integrated X-ray beam stop (optional diode pitch 0.4 mm)		
Cooling	Highly efficient, silent DC filter fans		
Housing finish	Stainless steel grade AISI 304 / DIN EN 1.4301 (X5CrNi18-10)		
Enclosure rating	IP54 (according to IEC 60529), including touch panel and fans, optional IP69k, optional air-conditioner unit		
Conveyor type	Polyurethan (PU) belt, light blue, food grade		
Conveyor speed	Conveyor speed by product, 0,05 to 0,98 m/s		
Flow rate	4 – 25 m³/h	6 - 35 m³/h	8 - 45 m³/h
	for best sensitivity: 1-layer product thickness		
Max. product weight	7 kg		
Estimated production sensitivity sphere Ø mm*	Metal (except aluminium)	1.0 – 1.5 mm	
	Glass (soda lime)	2.0 – 4.0 mm	
	Ceramic (similar as many stonegrades)	2.0 – 5.0 mm	
Belt width	300 mm	400 mm	500 mm
Net. scanning width	246 mm	346 mm	446 mm
Product memory	255 different product set-ups		
Display	17" Color-TFT capacitive touchscreen		
Inspection features	Auto-calibration, auto adaption to density distribution, density, hard contrast, soft contrast, masking technology, super contrast, size filter, auto edge masking, auto save/load of images, multi-segment-inspection, generator energy by product, password protection		
In-/Outputs	Programmable outputs (contamination, ready, Emergency OFF) Programmable inputs (Emergency OFF, wake up, optional control signals)		
Data transfer	Ethernet for remote support via internet, USB for external keyboard/ mouse/ memory stick		
Max. weight	0.5 ton	0.7 ton	1.4 ton
Power supply	1ph, 230 VAC +/- 10%, 50/60 Hz, full operation: max. 0.5 kW	max. 0.5 kW	max. 2.0 kW
Compressed air supply	Without reject unit 0 MPa (0 bar/0 psi) bar With reject unit 0,4 MPa (4 bar/58 psi)		
Available reject method	Reject flap, multi reject flaps or air guns		
Environmental conditions	10°C to +30°C / 50°F to 86°F	10°C to +30°C / 50°F to 86°F	10°C to +50°C / 50°F to 122°F
	with relative humidity max 90%, non-condensing Option: additional external cooling devices to extend the temperature range		
Conformity	CE, compliant to German x-ray regulations, specific adaptation for other countries		

All information is based on standard devices. There possibly will be differences depending on the application.
Changes to be excepted.



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Multilane rejection system

Dimensions XD45-H1-BULK

