X-Ray SHARK® Board series

Highlights

- X-ray monitoring for felts, webs, transformer boards or paperboards with maximum product width up to 11 ft. (3400 mm)

- Detects high density materials like metal, ceramic, stone, dense plastic or glass

- Up to five X-ray generators ensure accurate inspection for the full width of the product

- Easy operation with autocalibration and clearly arranged functions on 17" touchscreen

- XIA software for instant analysis and detection with high accuracy and reliability

Features

- Real time detection with color coded contamination analysis

- Masking functions

- Auto-storage of inspection data with time and date stamp

- User-friendly operation in daily business with 255 preset products

- USB and Ethernet for data transfer

- For widths up to 11 ft. (3400 mm) and heights up to 4 inches (100 mm)

- Remote assistance available via ethernet connectivity

- Designed for 24 hr non-stop operations

- Reliable safety standard - available including TÜV-certficate
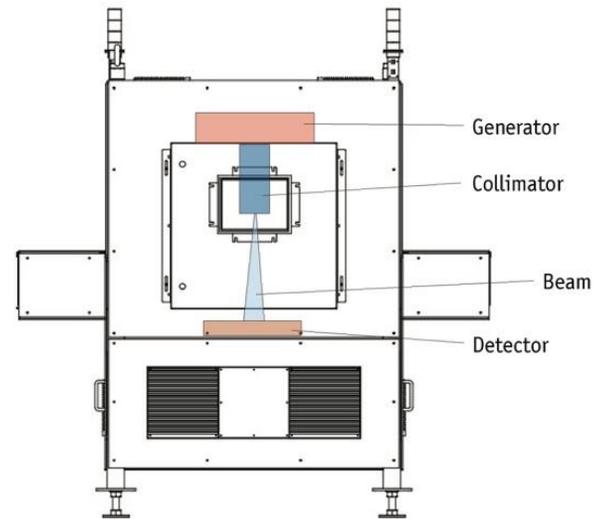
X-Ray SHARK® Board series
X-ray monitoring for felts, webs, transformer boards or paperboards

Overview

The XD BOARD X-ray system is specially designed for detecting metal contamination in flat products. This makes it ideal for fabrics, non-woven fabrics and paperboard products, including transformer paperboard insulators.

With the innovative XIA3 software system, parts of the product may be hidden. This proves effective for packaged products, where the actual packaging should not be examined for foreign bodies.
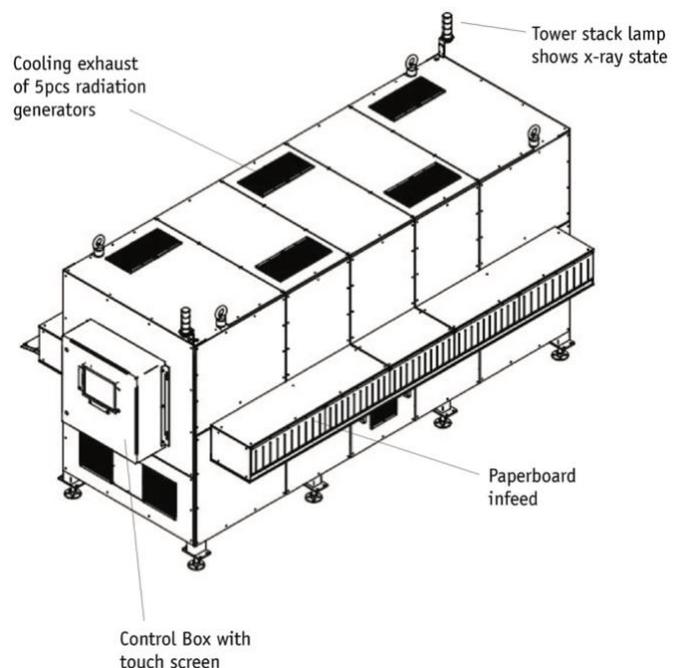
Edge masking also available.

Included

- Xray Scanner with XIA image processing software
- Complete protection against radiation with safety circuit
- Certified test cards with soda lime glass, ceramics, steel spheres in various diameters

Application

Inspection of particularly thin and wide products:

- Felts, webs
- Fleece
- Paperboard or corrugated board
- Transformer boards

CASSEL
INSPECTION

X-Ray SHARK® Board series
X-ray monitoring for felts, webs, transformer boards or paperboards

Specifications

	XD140-H2 BOARD	XD200-H3 BOARD	XD260-H4 BOARD	XD320-H5 BOARD
X-ray source	Dual beam X-ray generator with max. 80kV (2x480W), variable in voltage + current	Triple beam X-ray generator with max. 80kV (3x480W)	4-beam X-ray generator with max. 80kV (4x480W)	5-beam X-ray generator with max. 80kV (5x480W)
Radiation leakage	3 µSv/h or less, at 10 cm outside cabinet surfaces using all safety devices			
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 View	2x top down	3x top down	4x top down	5x top down
Cooling	Highly efficient, silent DC filter fans/Optional air conditioner			
Housing finish	Frame: mild steel powder-coated (S235JR equals ASTM A36), Panels: Aluminium			
Enclosure rating	IP50 (according to IEC 60529), IP54 control cabinet, touch panel and fans			
Conveyor type	Conveyor not scope of CASSEL			
Conveyor speed	Conveyor speed by product up to 0.4 m/s			
Max. Product Dimensions	width x height: 1400 x 90 mm	width x height: 2000 x 90 mm	width x height: 2600 x 90 mm	width x height: 3200 x 90 mm
Available Reject Method	Reject not scope of CASSEL			
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, SuperContrast, SizeFilter, AutoEdge masking, Images AutoSave/Load, 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 and Reporting	Ethernet for remote support via internet, USB for external keyboard/ mouse/ memory stick			
Max. weight	Estimated 2.4 tons	Estimated 2.8 tons	Estimated 3.5 tons	Estimated 4.2 tons
Power supply	3ph, 400 VAC +/- 10%, 50/60 Hz w/o cooling and transport 2.0 kW	3ph, 400 VAC +/- 10%, 50/60 Hz w/o cooling and transport 2.5 kW	3ph, 400 VAC +/- 10%, 50/60 Hz w/o cooling and transport 3.0 kW	3ph, 400 VAC +/- 10%, 50/60 Hz w/o cooling and transport 3.5 kW
Environmental Conditions	0° to +30°C, with relative humidity max 90%, non-condensing (external cooling device recommendend/needed)			
Conformity	CE, compliant to German x-ray regulations, specific adaptation for other countries			
X-Ray Detector	Low noise 816mm line scan CCD, diode pitch 0.8 mm			