XRAY SHARK® XBD10
X-Ray Inspection System

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XRAY SHARK® XBD10 - Features at a glance

User-friendly operation
Easy cleaning and maintenance
Real time detection with colored contamination analysis
Masking functions
24 hours non-stop operation
Reliable German safety standard – TÜV-approved
Quick release conveyor belt
Ethernet and USB
Auto storing of inspection data, with time/date stamp
Built-in remote maintenance

Advanced Design - Optimal Inspection

Cassel X-ray inspection systems provide maximum sensitivity for detection of foreign bodies and other features such as detection of missing or defective products.

The XBD10 is particularly suitable for packaged food or non-food products, for example in jars, boxes, plastic packaging and even metal foils or metal cans. Undesirable contaminants such as metal, stone, ceramic, glass or plastic with high density can be detected in the product.

Made in Germany - High Standards

The superior, high-performance software "XIA" makes possible instant analysis and detection with high accuracy and reliability, thus avoiding false rejects. The flawless design offers maximum safety and comfort for daily operations to the quality conscious producer. In this way, Cassel X-ray inspection systems preserve your product quality and provide reliable protection of your brand.

The certified process control system "SHARKNET®" is optionally available and allows automatic storage of collected operational data and thus complies with certification programs and HACCP requirements.
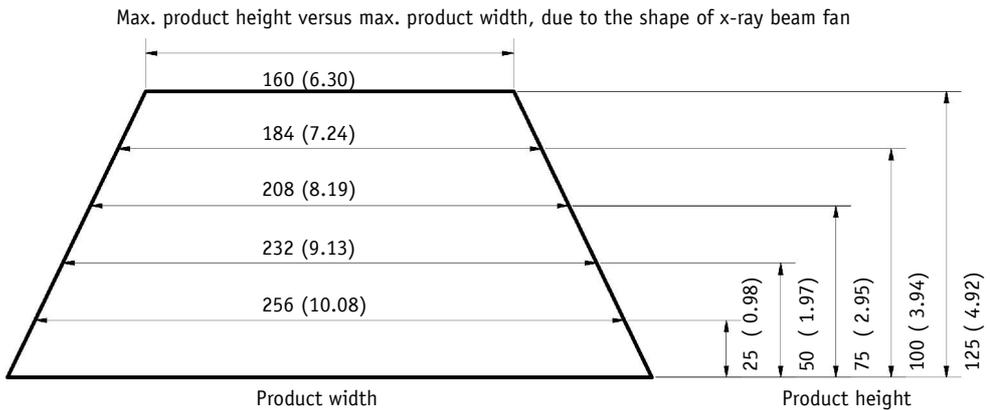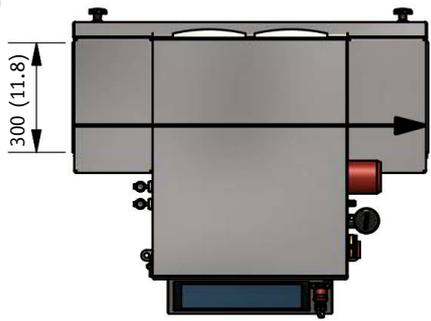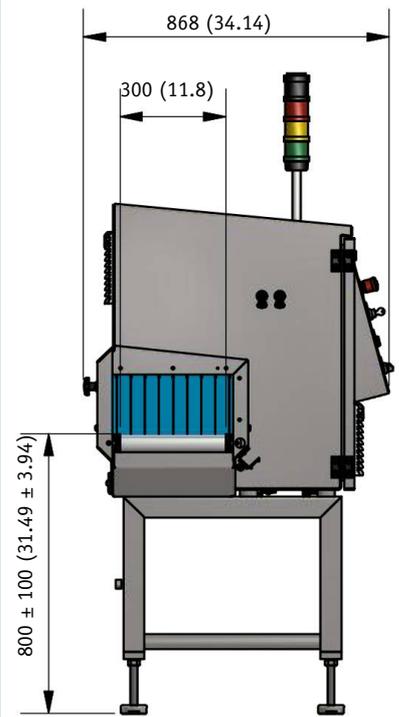
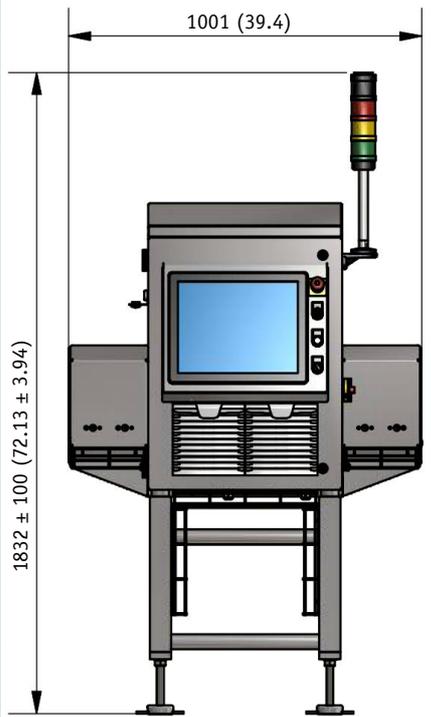## Easy Cleaning

The hygienic design allows easy cleaning and maintenance of the XBD10, without any additional tools. Through the conveyor's quick release, the conveyor belt can be removed in a few easy steps for cleaning. The X-ray protective curtains can be removed by just pushing one button. After cleaning, everything can be easily reassembled. The device is thus quickly ready for operation again.

XBD10 Data Sheet

Model	XRAY SHARK® XBD10
X-ray source	Single beam x-ray generator with max. 60kV (50W), variable in voltage + current
Radiation leakage	1 µSv/h or less @ 10cm outside cabinet surfaces
Safety	X-ray protective curtains - quickly detachable, 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, PILZ safety circuit
X-ray detector	low noise 307 mm line scan CCD, diode pitch 0.8 mm, integrated x-ray beam stop
Cooling	Highly efficient, silent DC filter fans
Housing finish	Stainless steel grade AISI 304 / ISO 1.4301 (CrNi 18/10)
Degree of protection	IP54 (according to IEC 60529), including touch panel and fans
Conveyor type	Polyurethane belt white (FDA), quick disassembly for cleaning
Conveyor speed	Conveyor speed by product, 0,05 to 0,98 m/sec (7 fixed speed steps)
Product Memory	250 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, Images AutoSave/Load, Multi Segment Inspection, Metal Foil inspection, Fill Quantity, 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
Supplied test equipment	Certified test cards with soda lime glass, ceramics, steel spheres in various diameters
Available Accessories	Radiation counter, SHARKNET® data management software, Separate conveyor with pusher, BRC compliance kit
Weight	250 kg
Electrical mains connection	220-240 VAC, 1ph, 50 to 60 Hz, 0.3 kW full operation, <0.1 kW stop/idle
Compressed air supply	Without pusher 0 (zero) bar With optional pusher system minimum 4 bar
Environmental	0 to +30 ° C, with relative humidity max 90% non-condensing
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 and errors excepted.

1001 (39.4)

1832 ± 100 (72.13 ± 3.94)

868 (34.14)

300 (11.8)

800 ± 100 (31.49 ± 3.94)

300 (11.8)

Max. product height versus max. product width, due to the shape of x-ray beam fan

160 (6.30)
184 (7.24)
208 (8.19)
232 (9.13)
256 (10.08)

25 (0.98)
50 (1.97)
75 (2.95)
100 (3.94)
125 (4.92)

Product width   Product height

CASSEL

Metal Detection, Checkweigher and X-Ray

METAL SHARK® GF

WEIGH SHARK® Checkweigher

METAL SHARK® IN MEAT

METAL SHARK® Conveyor

METAL SHARK® IN Liquid

XRAY SHARK® X-Ray

Cassel Messtechnik GmbH (Germany) – Headquarters and main production site

Cord Cassel
Managing Director of Cassel Messtechnik GmbH

With its production facilities located near Hannover, Germany, Cassel manufactures approximately 1,000 inspection systems annually. Nearly 80 percent of Cassel equipment is exported to the European Union, United States, Southeast Asia, Australia, South Africa and South America. Cassel supplies equipment to several industries, including food production, plastics, pharmaceuticals, textiles, forestry and mining. Cassel machinery can be found in the production lines of many global and respected brands.

Customers receive valuable service and support wherever their product inspection systems are located around the world. Over 50 representative offices around the globe provide service performed by factory-trained technicians.

Since 1994, Cassel Messtechnik GmbH (Cassel) has led the production machinery industry in the design and construction of metal detection, checkweigher and x-ray inspection systems for industrial applications. Cassel systems specializes in protecting valuable production machinery against damage caused by undiscovered metal parts. Cassel also succeeds in quality control in the consumer goods industry. Cassel strives to supply quality and high performance at a reasonable price.