



XRAY SHARK® XBD10 **X-Ray Inspection System**

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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 quality 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.

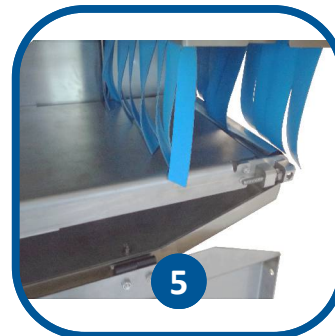
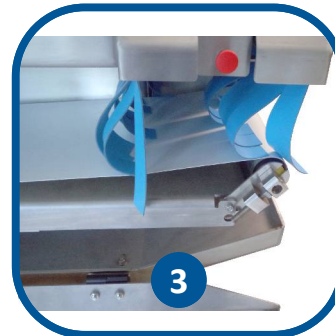
Made in Germany - High Standards

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.

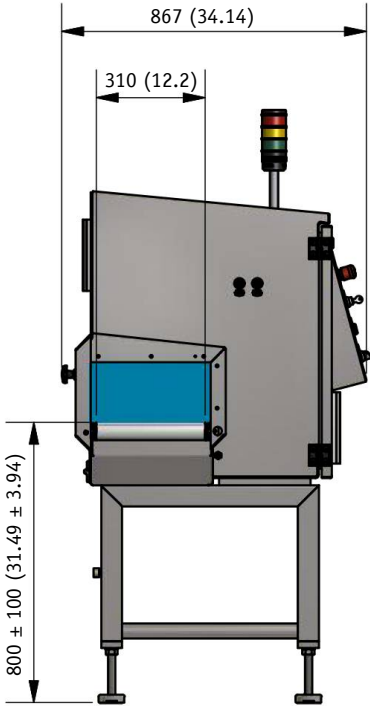
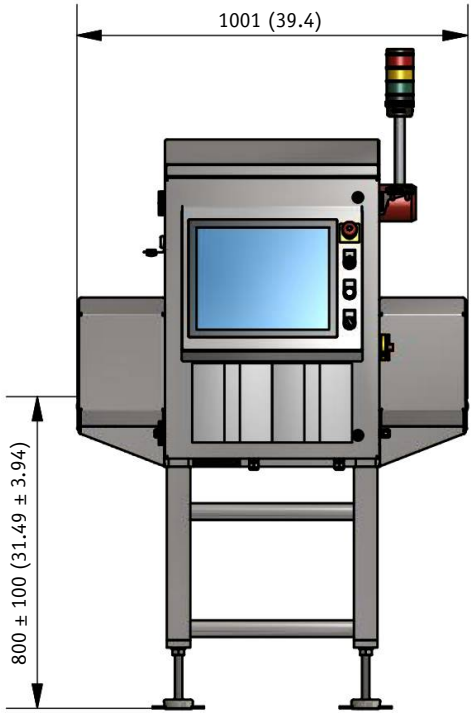
Easy Cleaning

The hygienic design allows easiest cleaning and maintenance of the XBD10, without any tools. Through conveyor's quick release, the conveyor belt can be removed in five easy steps for cleaning. The X-ray protection curtains can be removed by just pushing one button.

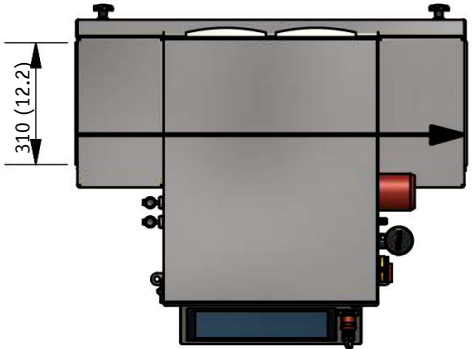
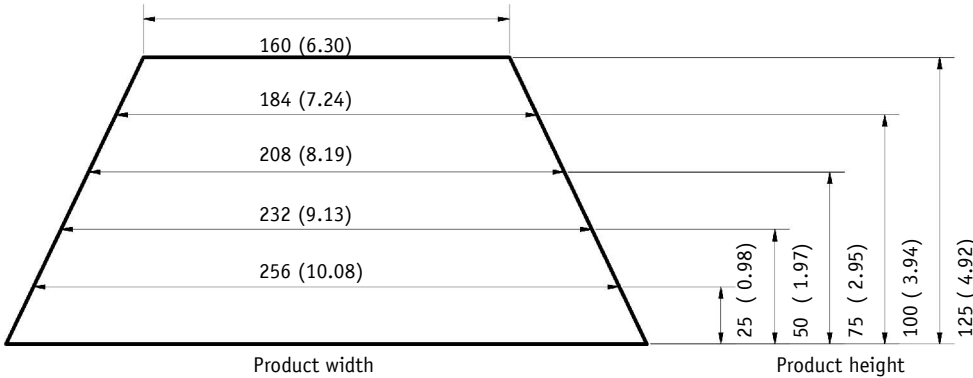


XBD10 Data Sheet

Model	XRAY SHARK® XBD10
X-ray source	Single beam x-ray generator with max. 60kV (60W), variable in voltage + current
Leakage Radiation	1 µSv/h or less @ 10cm outside cabinet surfaces
Safety	X-ray protective curtains Magnetic safety switches at cabinet doors and tunnel hatches, emergency stop push button, x-ray off key switch, Emergency stop in/out interfaces to safety circuits of production line
X-ray detector	low noise 307 mm line scan CCD, diode pitch 0.8 mm, integrated x-ray beam stop
Cooling	Integrated oil cooling: sealed circuit, maintenance free
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)
Display	17" Color-TFT capacitive Touchscreen
Product Memory	250 different product set-ups
Weight	250 kg
Environmental	0 to +30 ° C, with relative humidity max 90% non-condensing
Power supply	220-240 VAC, 1ph, 50 to 60 Hz, 0.3 kW full operation, <0.1 kW stop/idle
Compressed air consumption	Without pusher 0 (zero) liters / hour With optional pusher system depending on application
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
Data Transfer and Reporting	Ethernet for remote support via internet USB for external keyboard/mouse/ memory stick
Supplied test equipment	Certified test cards with glass, ceramics, steel spheres in various diameter
Conformity	CE, compliant to German x-ray regulations, specific adaptation for other countries
Available Accessories	Radiation detector, SHARKNET® data management software, Separate conveyor with pusher, BRC compliance kit



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



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

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 a number of industries, including food, plastics, pharmaceuticals, textiles, forestry and mining. Cassel equipment can be found in the production lines of many global and respected brands.



Cord Cassel
Managing Director of Cassel Messtechnik GmbH

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

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