



XRAY SHARK® XBD40 XBD40+ XBD45+
X-Ray Inspection Systems

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XRAY SHARK® XBD40 XBD40+ XBD45+ X-Ray Inspection Systems

XRAY SHARK®



XRAY SHARK® - 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
- Inspection for big products
- 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 XBD40/XBD40+/XBD45+ is particularly suitable for packaged food or non-food products in big sizes, for example in boxes with plastic packaging and even boxes with metal foils or metal cans. Undesirable contaminants such as metal, stone, ceramic, glass or plastic with high density can be detected in the product.

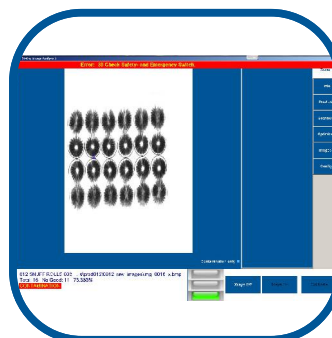
Made in Germany - High Standards

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 quality conscious producers. In this way, Cassel X-ray inspection systems preserve your product quality and provide reliable protection of your brand.

The 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 XBD40/XBD40+/XBD45+, with all components quickly removable. Everything can be put back together just as easily. The device is thus quickly ready for operation again.



XBD40/XBD40+/XBD45+ Data Sheet

Model	XRAY SHARK® XBD40 Downshoot	XRAY SHARK® XBD40+ Downshoot	XRAY SHARK® XBD45+ Downshoot
X-ray source	1 pc. high power x-ray generator, with max. 120kV (400W), variable in voltage + current, integrated closed oil cooling circuit		
Radiation leakage	3 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	Diode size 0.8 mm, optional 0.4 and 0.2 mm		
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)		
Conveyor speed	Conveyor speed by product, 30-60 m/min		
Max. product dimensions WxH in mm	340x60 / 300x100 / 250x160 / 200x200	440x180 / 380x250 / 350x300 / 300x350 / 260x400 / 220x450	650x180 / 560x250 / 500x300 / 450x350 / 380x400 / 320x450
Product memory	250 different product set-ups		
Display	17" Color-TFT 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	USB, ethernet, Sharknet interface for auto reporting and auto recording, internet remote maintenance		
Other features	Direct variable conveyor speed by product, Intel Core i, MultiCore CPU, Win OS, barcode reader interface		
Supplied test equipment	Certified test cards with glass, ceramics, steel spheres in various diameter		
Available accessories	Radiation detector, Sharknet software, BRC Kit (British Retailer Compliance), pusher devices, barcode reader		
Weight	0,9 t	1,0 t	1,2 t
Electrical mains connection	400VAC/3~+N (or 220-240 VAC, depending on Options), 50-60 Hz, ext. Fuse C16A		
Compressed air supply	Without reject system 0 (zero)bar With optional reject system minimum 4 bar		
Environmental conditions	0 to +30 ° C, with relative humidity max 90% non-condensing Optional: Additional cooling device, for ambient temperature up to 45° C or high humidity environments		
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.			

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

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.



Cord Cassel
Managing Director of Cassel Messtechnik GmbH

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.