

# Fact Sheet

## XRE-D

**BIZERBA**

*The end-of-line inspection system offers maximum safety: By using X-ray technology the XRE-D detects contaminated, damaged and defective products and packagings. Besides metallic and non-metallic foreign objects it detects missing, defective or misshaped products as well as overweight or underweight. Thanks to an efficient quick conveyor belt change system the belt can be changed within two minutes.*



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High performance  
with a wide range of  
solutions and options.

Specifications	Facts	Details
<b>Conveyor belt width/ CBW</b>	230 mm	XRE-D 200/120
	360 mm	XRE-D 300/150
	610 mm	XRE-D 400/250
	610 mm	XRE-D 450/200
<b>Max. inspection height</b>	120 mm	XRE-D 200/120
	150 mm	XRE-D 300/150
	250 mm	XRE-D 400/250
	200 mm	XRE-D 450/200
<b>Max. inspection width</b>	200 mm	XRE-D 200/120
	300 mm	XRE-D 300/150
	400 mm	XRE-D 400/250
	450 mm	XRE-D 450/200
<b>Conveyor belt height</b>	900 ± 50 mm	For all types
	800 ± 50 mm	XRE-D 300/150, XRE-D 450/200
	750 ± 50 mm	XRE-D 400/250
<b>Installation length</b>	800 mm	XRE-D 200/120
	1,200 mm	XRE-D 200/120 with integrated rejection device
	1,400 mm	Other types without rejection device
<b>Use</b>	– Contaminant detection	– Safe detection of all magnetic and non-magnetic metals, glass, stones, bones, rubber, PVC etc. in food and other products, also in metal containing or aluminum coated packages
	– Counting of products	
	– Completeness check	
	– Detection of defective/misshaped products	– Optional software for detection of further product defects: among other things breaks, deformations, air pockets, clumping, missing products or items
	– Inspection of multiple lines	
	– Inspection of products with variable density ranges	– Multi-product software for detection of up to 4 lines and for chaotic product feed
<b>Max. load</b>	5 kg	XRE-D 200/120
	15 kg	Other types without rejection device
<b>Product features</b>	Packaged or firm consistency	No open liquids
<b>Product temperature</b>	-20 °C to +80 °C	
<b>Operating conditions</b>	-10 °C to +40 °C	
	– Relative humidity 10-95 %, non-condensing	
<b>Protection class</b>	XRE-D 200/120: IP65 IP54	XRE-D 200/120: Conveyor Complete device
	Other types: IP66 IP54	Other types: Conveyor Complete device
<b>Scope of delivery</b>	Flat belt conveyor	With integrated X-ray scanner system

<b>Mechanical design</b>	Stainless steel 1.4301 (AISI 304)	Housing, covers and conveyor belt frames
	Stainless steel 1.4301 (AISI 304)	Glass beaded finish, guide roller and drum motor
	Drive via 3-phase drum motor XRE-D 200/120: DC drive motor	Including thermal contact monitoring
	Conveyor belt	FDA quality: white polyester (PES)
<b>Electrical design</b>	Combined control and operating unit for conveyor belt and X-ray system	Rotary main switch, key switch, On/Off switch, emergency STOP switch
	Signal lamp	– Emergency STOP switch for "X-ray on": red – System failure: orange – Normal operation: green
	All housing parts required for radiation protection are secured	Magnetic safety switch: Double evaluation
	Cooling device for temperatures of up to +32° C/89.6° F	For optimal cooling of the housing even in a moist or dusty environment
<b>Conveying speed</b>	0.8 m/s	Adjustable via integrated frequency converter from - 60 % to + 30 % of the nominal speed, more speeds upon request
<b>Operating voltage</b>	230 VAC (± 10 %), 50/60 Hz, single phase	
<b>Fuse</b>	10 A	
<b>X-ray tube</b>	50 kV/2 mA 80 kV/1.25 mA 50 kV/1.2 mA	Only for XRE-D 200/120 the selection of the X-ray tube performance depends on product height and density.
<b>X-ray scanner</b>	High resolution X-ray detector	Accuracy Ø 0.6 mm (depending on the product)
<b>Evaluation unit</b>	– Industrial PC with 10" LCD flat screen with touch screen – Integrated connection for Remote Portal™  – Galvanically isolated inputs/outputs – Light sensors  – Status signals	– To connect to a customer provided network (optional) – For up to four rejection systems – For exact rejection and rejection monitoring   – Can be integrated in customer provided control of entire system etc.
<b>Software</b>	State-of-the-art image processing software based on real time operating system	– Easy and intuitive operation via pop-up menus – Password protected – Automatic product teaching for foreign object detection – Product memory – Logging and archiving of relevant data: Throughput, pictures of non-conforming products, rejection statistics etc. – On-going monitoring of internal process flows
<b>Options</b>	<b>Facts</b>	<b>Details</b>
<b>Voltage transformer</b>	US version, allows parallel control of two motors (e.g. XRE-D and rejection conveyor)	115 VAC (±10 %), 60 Hz, incl. power cable
<b>Rejection systems (optional)</b>	Product length < 250 mm Product length > 250 mm and < 400 mm	XRE-D 300/150: Length 500 mm XRE-D 400/250, XRE-D 450/200: Length 800 mm
<b>Cover for rejection system</b>	Door	Cover of reject bin can be locked with a key

<b>Sensor package</b>	Higher Level Compliance	Compressed air monitoring Photogating sensor Rejection system function test Rejection system fill level indicator Rejection system status check Encoder function
<b>Wear protection layer</b>	For radiation protective curtains	XRE-D 300/150 XRE-D 400/250 XRE-D 450/200
<b>High resolution detector</b>	Detection resolution: 0.4 mm	Only for XRE-D 300/150
<b>Warning device</b>	Lamp and horn	Blue indicator light active during audit check; signal horn active if a foreign object or another product defect was found
<b>Dose rate meter</b>	X5cplus	incl. batteries and leather pouch

## Dimensions

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