# **Fact Sheet**





Discover the new XRE-D pro! The intelligent X-ray system for the inspection of packaged products sets standards in terms of detection accuracy and application flexibility.



More information High performance with a wide range of solutions and options.

Specifications	Facts	Details
Inspection area	330/200	All dimensions in mm
	450/250	
	600/120	
Use	Foreign body detection	Magnetic, non-magnetic metals
		- Glass
		<ul> <li>Nonmetallic minerals</li> </ul>
		- Bones
		– Rubber
		– PVC
	Detection of product defects	<ul> <li>Masking functions (hiding of disturbing effects from packaging components such as clips)</li> </ul>
		<ul> <li>Completeness check / fill level check</li> </ul>
		<ul> <li>Total weight (accuracy depending on the product)</li> </ul>
		<ul> <li>Breakage control</li> </ul>
		<ul><li>Deformation</li></ul>
		<ul><li>Air pockets</li></ul>
		- Clumping
Product		
Shape	Packaged	e.g. plastic or aluminum tray, films
Temperature	-20 °C to +70 °C	
	-4 °F to +158 °F	
Weight	Maximum belt load:	
	– 15 kg	
	– 529.1 oz	
Minimum weight	20 g	Note: Minimum weight required to open the radiation protective curtains
Throughput	approx. 300 ppm	Depending on product dimensions and product distance
Minimum distance	Single product length	
Maximum length	250 mm	In case of deviating product length > 250 mm – max. 300 mm product test necessary
	300 mm	At a conveyor belt speed of up to 0.5 m/s
Maximum width		Inspection area
	300 mm	330/200
	450 mm	450/250
	600 mm	600/120

Mechanical design

Surfaces	Covers and conveyor belt frame made of stainless steel 1.4301 (AISI 304)	Glass beaded finish
	Drive, guide and tension rollers made of stainless steel 1.4301 (AISI 304)	
Conveyor belt height	900 mm ± 50 mm	
	35.43 in ± 1.97 in	
Guide roller diameter	Ø 34 mm	
	Ø 1.34 in	
Material	Conveyor belt in white FDA quality made of polyester (PES)	
	Conveying side made of polyurethane (PUR)	
	Running side made of impregnated polyester fabric	
	Wedge bar for belt guidance on running side	
Belt width	360 mm	330/200
	660 mm	450/250
		600/120
Drive	3-phase drum motor including thermal contact monitoring	140 W
		IP rating: IP69
Conveyor belt speed	0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/ min)	Optional: 1.05 m/s (0.42 – 1.37 m/s = 25.2 - 81.9 m/min)
	157.5 ft/min (63.0-204.7 ft/min)	Optional: 206.7 ft/min (82.7 – 268.7 ft/min)
		Adjustable via frequency converter from -60 % to +30 % of the nominal speed (more speeds upon request).
		(depending on the product, product test necessary)
		Maximum belt load: 12 kg; 423.3 oz
Electrical design		
Operating voltage	230 VAC (± 10 %)	US/CAN 208-240 VAC (±10%)
	50/60 Hz	, ,
	single phase	
Power consumption	Max. 8 A/230 VAC	US/CAN max. 10 A
External fusing	10 A, delay-action	
Mains cable		
Cooling	3 pin CEE connector	Blue (L1 + N + PE)
Olement alamaneta	3 pin CEE connector Filter fan	Blue (L1 + N + PE) Optionally cooling device
Signal elements		
Signal lamp	Filter fan	Optionally cooling device
	Filter fan Horn	Optionally cooling device BK
	Filter fan Horn X-rays ON	Optionally cooling device BK Red
	Filter fan Horn X-rays ON System failure	Optionally cooling device  BK  Red  Orange
	Filter fan Horn X-rays ON System failure Normal Operation	Optionally cooling device  BK  Red  Orange  Green  Blue
Signal lamp	Filter fan Horn X-rays ON System failure Normal Operation Audit check Combined control and operating unit for con-	Optionally cooling device  BK  Red  Orange  Green  Blue
Signal lamp	Filter fan Horn X-rays ON System failure Normal Operation Audit check Combined control and operating unit for con-	Optionally cooling device BK Red Orange Green Blue Rotary main switch
Signal lamp	Filter fan Horn X-rays ON System failure Normal Operation Audit check Combined control and operating unit for conveyor belt and X-ray system	Optionally cooling device  BK  Red  Orange  Green  Blue  Rotary main switch  Key switch
Signal lamp Operating elements	Filter fan Horn X-rays ON System failure Normal Operation Audit check Combined control and operating unit for conveyor belt and X-ray system	Optionally cooling device  BK  Red  Orange  Green  Blue  Rotary main switch  Key switch  Emergency stop

HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 2 / 8

Prepared for connection of	Rejection system incl. preparation for Higher Level Compliance	Max. 2 rejection systems
Inspection system		
X-ray tube	50 kV/2.0 mA	100 W
Detection accuracy	High resolution X-ray detector	Accuracy: as from Ø 0.6 mm (product-specific)
Peripherals	Industrial PC with 15" touch screen	Resolution 16:9
Radiation protection	Radiation protection curtains (0.125 mm Pb equivalent value) including wear protection	Light grid (option specified in drawing), for special legal requirements, on request IP65  Temperature range -26 °C to +65 °C
Safety switch	All housing parts required for radiation protection are secured with magnetic safety switches.	Temperature range 20 0 to 100 0
Weight	Approx. 450-590 kg	
IP rating	IP54	Filter fan Optionally IP55 cooling device
	IP65	Housing, operating elements, etc.
	IP66	Conveyor belt with drum motor
Storage / transport conditions		
Temperature	-10 °C to +40 °C	
	+14 °F to +104 °F	
Humidity	5-90%, non-condensing	Relative humidity
Ambient conditions		
Place of installation	Indoor areas, no direct sunlight	
Temperature	+5 °C to +30 °C	330/200 with filter fan
	+41 °F to +95 °F	Country set USA, Canada: only with filter fan
	+5 °C to +40 °C	330/200 with cooling device
	+41 °F to +104 °F	
	+5 °C to +30 °C	450/250; 600/120 with filter fan
	+41 °F to +86 °F	Country set USA, Canada: only with filter fan
	+5 °C to +35 °C	450/250; 600/120 with cooling device
	+41 °F to +95 °F	The maximum and typical temperature indications correspond to an indication at 500 meters above sea level. Derating of the maximum/typical ambient temperature typically 1 °C per 1000 meters as from 500 meters above sea level.
Cleaning conditions		
Complete device	Dry cleaning	Wiping/dusting, vacuuming, drying etc.  IP rating: IP55  Pmax< 0.3 bar; 30 kPa at a distance of 3 m
Discharge conveyor	Dry cleaning and water jet cleaning	IP rating: IP66
Water jet pressure	Pmax< 1.0 bar; 100 kPa at a distance of 3 m	
	- Cleaning agent must be suitable for cleaning	
tion agents	of stainless steel 1.4301, stainless steel 1.4305, stainless steel 1.4057, PTFE, POM, polyamide, PE-UHMW, TPU, silicone and EPDM.	

HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 3 / 8

Temperature range	max. +50 °C	
, , , , , , , , , , , , , , , , , , ,	max. +122 °F	
Options	Facts	Details
Integrated rejection system	Product weight up to 5 kg	Only for 330/200
Version	Conveyor belt extension +500 mm	Package length 250 mm max.
	Total length therefore 1,900 mm	_
Rejection system	Pusher	
	Pusher shield	
	Higher Level	
Reject bin	Plastic reject bin	Removable
Maximum product weight	5 kg	
Minimum height	≥ 6 mm	
IP rating	IP65	
Electrical design	Supply and control happen via plug connection to the inspection system	No additional control required
Pneumatic version		
Compressed air sup- ply	6-8 bar	Coupling plug NW 7.2
Compressed air qual-	Minimum requirements must be met by customer	Residual dust: Class 1
- <b>-</b>		Residual moisture: Class 7 Residual oil: Class 2
FRL unit	Main switch (lockable)	
	Filter regulator with manometer (lockable)	
	Switch-on valve	
	Pressure build-up valve	
	Pressure switch	
	Safety switch-on valve	
Rejection system sep-		330/200
arated		
Version	Conveyor belt extension +800 mm	Package length 400 mm max.
	Total length therefore 2,200 mm	
Rejection system	Pusher	
	Pusher shield	
	Higher Level	
Reject bin	Plastic reject bin	Removable
Maximum product weight	5 kg	
Minimum height	≥ 6 mm	
IP rating	IP65	
Electrical design	Supply and control happen via plug connection to the inspection system	No additional control required
Pneumatic version		
Compressed air sup-	6-8 bar	Coupling plug NW 7.2

HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 4 / 8

ity	Minimum requirements must be met by customer	Residual dust: Class 1
,		Residual moisture: Class 7
		Residual oil: Class 2
FRL unit	Main switch (lockable)	
	Filter regulator with manometer (lockable)	
	Switch-on valve	
	Pressure build-up valve	
	Pressure switch	
	Safety switch-on valve	
Rejection system sep-	· Long products	450/250
arated		600/120
Version	Conveyor belt extension +800 mm	Package length 400 mm max.
	Total length therefore 2,200 mm	
Rejection system	Pusher	
	Pusher shield	
	Higher Level	
Reject bin	Plastic reject bin	Removable
Maximum product	5 kg	
weight		
Minimum height	≥ 6 mm	
IP rating	IP65	
Electrical design	Supply and control happen via plug connection to the inspection system	No additional control required
Pneumatic version		
Compressed air sup-	6-8 bar	Coupling plug NW 7.2
ply		
ity	Minimum requirements must be met by customer	Residual dust: Class 1
,		Residual moisture: Class 7
		Residual oil: Class 2
FRL unit	Main switch (lockable)	
	Filter regulator with manometer (lockable)	
	Switch-on valve	
	Pressure build-up valve	
	Pressure switch	
	Safety switch-on valve	
Quick belt change system	Conveyor belt frame and quick belt tensioner for fast belt change	Only in combination with option rejection system separated
Rejection system sep-	· Heavy products	450/250
arated		600/120
Version	Conveyor belt extension +800 mm	Package length 400 mm max.
	Total length therefore 2,200 mm	
Rejection system	Pusher	Roller conveyor
		Modular belt
	Pusher shield	

HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 5 / 8

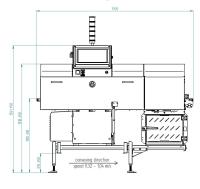
Maximum product weight	15 kg	
Minimum height	≥ 6 mm	
IP rating	IP65	
Electrical design	Supply and control happen via plug connection to the inspection system	No additional control required
Pneumatic version		
Compressed air supply	6-8 bar	Coupling plug NW 7.2
Compressed air quality	Minimum requirements must be met by customer	Residual dust: Class 1
		Residual moisture: Class 7
		Residual oil: Class 2
FRL unit	Main switch (lockable)	
	Filter regulator with manometer (lockable)	
	Switch-on valve	
	Pressure build-up valve	
	Pressure switch	
	Safety switch-on valve	
Quick belt change system	Conveyor belt frame and quick belt tensioner for fast belt change	Only in combination with option rejection system separated
0.4 mm detector		
Cooling device	For ambient temperatures between 5 °C and +40 °C	IP55
Software package 1	Completeness check	
	Weight deviation	
	Clip detection	
	Shape deviations	
Software package 2	Multi Lane-Software	
	Multi Product-Software	
	Zone Analyser-Software	
Login package	User login with RFID chip	Compatible with Mifare ISO 14443 and ISO 15639
		inclusive 4 RFID transponder chips (Mifare ISO 14443)

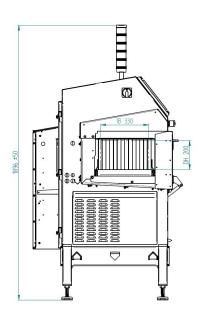
HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 6 / 8

## Info graphics



## **Dimensional drawings**







HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 7 / 8

## Bizerba SE & Co. KG

Wilhelm-Kraut-Straße 65 72336 Balingen

T +49 7433 12-0 fax: +49 7433 12-2696 marketing@bizerba.com

www.bizerba.com

HF\_XRE-D pro 100\_V2\_EN Subject to technical modifications Page 8 / 8

# **Fact Sheet**





Discover the new XRE-D pro! The intelligent X-ray system for the inspection of packaged products sets standards in terms of detection accuracy and application flexibility.



More information High performance with a wide range of solutions and options.

Specifications	Facts	Details
Inspection area	330/200	All dimensions in mm
	450/250	
	600/120	
Use	Foreign body detection	Magnetic, non-magnetic metals
		– Glass
		<ul> <li>Nonmetallic minerals</li> </ul>
		- Bones
		– Rubber
		– PVC
	Detection of product defects	<ul> <li>Masking functions (hiding of disturbing effects from packaging components such as clips)</li> </ul>
		<ul> <li>Completeness check / fill level check</li> </ul>
		<ul> <li>Total weight (accuracy depending on the product)</li> </ul>
		<ul> <li>Breakage control</li> </ul>
		<ul><li>Deformation</li></ul>
		<ul><li>Air pockets</li></ul>
		- Clumping
Product		
Shape	Packaged	e.g. plastic or aluminum tray, films
Temperature	-20 °C to +70 °C	
	-4 °F to +158 °F	
Weight	Maximum belt load:	
	– 15 kg	
	– 529.1 oz	
Minimum weight	100 g	Note: Minimum weight required to open the radiation protective curtains
Throughput	approx. 150 ppm	Depending on product dimensions and product distance
Minimum distance	Single product length	
Maximum length	250 mm	In case of deviating product length > 250 mm – max. 300 mm product test necessary
	300 mm	At a conveyor belt speed of up to 0.5 m/s
Maximum width		Inspection area
	300 mm	330/200
	450 mm	450/250

Mechanical design

Stainless steel 1.4301 (AISI 304)   Drive, guide and tension rollers made of stainless steel 9.4301 (AISI 304)   Drive, guide and tension rollers made of stainless steel 1.4301 (AISI 304)   State 1.97 in   State 1.34 in   State 1.97 in   State 1.34 in			
Drive, guide and tension rollers made of stainless sited 1.4301 (AISI 304)  Conveyor belt height 90 mm ± 50 mm 35.43 in ± 1.97 in 35.43 in ± 1.97 in 6  Guide roller diameter 07 1.34 in 21 mm 20 mm 35.43 in ± 1.97 in 6  Material 20 34 mm 20 1.34 in 21 mm 35.43 in ± 1.97 in 6  Material 20 Conveyor belt in white FDA quality made of polyester (PES) 20 conveying side made of polyurethane (PUR) 20 mm 35.43 in 36 mm 35.40 mm 35.4	Surfaces		Glass beaded finish
Conveyor belt height 35.43 in ± 1.97 in         90.0 mm ± 50 mm 35.43 in ± 1.97 in           Guide roller diameter Ø 1.34 in         Ø 34 mm Ø 1.34 in           Material         Conveyor belt in white FDA quality made of polyurethane (PUR) Running side made of impregnated polyester fabric Wedge bar for belt guidance on running side           Belt width         360 mm 350/200 600/120           Drive         3-phase drum motor including thermal contact monitoring         140 W 1P rating: IP69           Conveyor belt speed nin)         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           Conveyor belt speed nin)         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           Conveyor belt speed nin)         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           Conveyor belt speed nin)         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           Conveyor belt speed nin)         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           Conveyor belt speed nin)         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           Conveyor belt speed nins (0.4 m/sec = 19.2-62.4 m/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)         Optional: 206.7 ft/min (82.7 = 268.7 ft/min)           E		Drive, guide and tension rollers made of	
Sudde roller diameter		stainless steel 1.4301 (AISI 304)	
Guide roller diameter     Ø 3.4 mm       Ø 1.34 in     Ø 1.34 in       Material     Conveyor belt in white FDA quality made of polyverethane (PUR)       Running side made of polyverethane (PUR)     Running side made of impregnated polyester fabric       Wedge bar for belt guidance on running side       Belt width     360 mm     330/200       660 mm     450/250       600/120       Drive     3-phase drum motor including thermal contact monitoring     140 W       tact monitoring     IP rating: IP69       Conveyor belt speed     0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/min)     Optional: 1.05 m/s (0.42 – 1.37 m/s = 25.2 - 81.m/min)       157.5 ft/min (63.0-204.7 ft/min)     Optional: 206.7 ft/min (82.7 – 268.7 ft/min)       Adjustable via frequency converter from -60 % the nominal speed (more speeds upor request). (depending on the product, product test necessary)       Maximum belt load: 12 kg; 423.3 oz       Electrical design     US/CAN 208-240 VAC (±10%)       Operating voltage     230 VAC (±10%)     US/CAN 208-240 VAC (±10%)       50/60 Hz single phase     US/CAN max. 10 A       Power consumption     Max. 8 A/230 VAC     US/CAN max. 10 A       External fusing     10 A, delay-action     Blue (L1 + N + PE)       Cooling     Cooling device       Signal elements     Horn     BK       Signal lamp     X-rays ON <td>Conveyor belt height</td> <td></td> <td></td>	Conveyor belt height		
Material Conveyor belt in white FDA quality made of polyseter (PES) Conveying side made of polysurethane (PUR) Running side made of impregnated polyseter fabric Wedge bar for belt guidance on running side  Belt width 360 mm 330/200 660 mm 450/250 600/120  Drive 3-phase drum motor including thermal contact monitoring like the monitoring like like like the monitoring like like like like like like like like		35.43 in ± 1.97 in	
Material Conveyor belt in white FDA quality made of polyseter (PES) Conveying side made of polyurethane (PUR) Running side made of impregnated polyester fabric Wedge bar for belt guidance on running side  Belt width 360 mm 450/250 600/120  Drive 3-phase drum motor including thermal contact monitoring IP rating: IP69  Conveyor belt speed Namin (63.0-204.7 ft/min) 157.5 ft/min (63.0-204.7 ft/min	Guide roller diameter		
Polyester (PES)   Conveying side made of polyurethane (PUR)   Running side made of impregnated polyester fabric   Wedge bar for belt guidance on running side   Medge bar for belt guidance on fund   Medge bar for belt guidance on running side   Medge bar for belt guidance on fund sold guidance   Medge bar for belt guidance on running side			
Running side made of impregnated polyester fabric	Material	polyester (PES)	
Fabric   Wedge bar for belt guidance on running side			
Belt width			
Drive   3-phase drum motor including thermal contact monitoring   140 W		Wedge bar for belt guidance on running side	
Drive   3-phase drum motor including thermal contact monitoring   140 W   1P rating: IP69	Belt width	360 mm	330/200
Drive 3-phase drum motor including thermal contact monitoring   Prating: IP69    Conveyor belt speed   0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/ min)   Optional: 1.05 m/s (0.42 – 1.37 m/s = 25.2 - 81.9 m/min)   Optional: 206.7 ft/min (82.7 – 268.7 ft/min)   Adjustable via frequency converter from -60 % to +30 % of the nominal speed (more speeds upor request). (depending on the product, product test necessary)   Maximum belt load: 12 kg; 423.3 oz    Electrical design   Operating voltage   230 VAC (± 10 %)   US/CAN 208-240 VAC (±10%)   50/60 Hz   single phase   Ous/CAN max. 10 A    External fusing   10 A, delay-action   Blue (L1 + N + PE)    Cooling   Cooling device   Signal elements   Horn   BK   Signal lamp   X-rays ON   Red   Normal Operation   Audit check   Blue    Normal Operation   Audit check   Blue		660 mm	450/250
Conveyor belt speed         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/ min)         Optional: 1.05 m/s (0.42 – 1.37 m/s = 25.2 - 81.5 m/min)           157.5 ft/min (63.0-204.7 ft/min)         Optional: 206.7 ft/min (82.7 – 268.7 ft/min)           Adjustable via frequency converter from -60 % t +30 % of the nominal speed (more speeds upor request).         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Washimum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Washimum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Washimum belt load: 12 kg; 423.3 oz         (depending on the product, product test necessary)           Washimum belt load: 12 kg; 423.3 oz         Us/CAN 208-240 VAC (±10%)			600/120
Conveyor belt speed         0.8 m/sec (0.32-1.04 m/sec = 19.2-62.4 m/ min)         Optional: 1.05 m/s (0.42 – 1.37 m/s = 25.2 - 81.5 m/min)           157.5 ft/min (63.0-204.7 ft/min)         Optional: 206.7 ft/min (82.7 – 268.7 ft/min)           Adjustable via frequency converter from -60 % t +30 % of the nominal speed (more speeds upor request).         (depending on the product, product test necessary)           Maximum belt load: 12 kg; 423.3 oz         Electrical design           Operating voltage         230 VAC (± 10 %)         US/CAN 208-240 VAC (±10%)           50/60 Hz single phase         US/CAN max. 10 A           Power consumption         Max. 8 A/230 VAC         US/CAN max. 10 A           External fusing         10 A, delay-action           Mains cable         3 pin CEE connector         Blue (L1 + N + PE)           Cooling         Cooling device           Signal elements         Horn         BK           Signal lamp         X-rays ON         Red           Normal Operation         Green           Audit check         Blue	Drive	· ·	140 W
min) 157.5 ft/min (63.0-204.7 ft/min)  Doptional: 206.7 ft/min (82.7 – 268.7 ft/min) Adjustable via frequency converter from -60 % t +30 % of the nominal speed (more speeds upor request). (depending on the product, product test necessary) Maximum belt load: 12 kg; 423.3 oz  Electrical design  Operating voltage 230 VAC (± 10 %) 50/60 Hz single phase  Power consumption Max. 8 A/230 VAC US/CAN 208-240 VAC (±10%)  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON System failure Normal Operation Audit check Blue Blue			IP rating: IP69
Adjustable via frequency converter from -60 % t +30 % of the nominal speed (more speeds upor request).  (depending on the product, product test necessary)  Maximum belt load: 12 kg; 423.3 oz  Electrical design  Operating voltage 230 VAC (± 10 %) 50/60 Hz single phase  Power consumption Max. 8 A/230 VAC US/CAN max. 10 A  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Audit check Blue	Conveyor belt speed	•	Optional: $1.05 \text{ m/s} (0.42 - 1.37 \text{ m/s} = 25.2 - 81.9 \text{ m/min})$
+30 % of the nominal speed (more speeds upor request). (depending on the product, product test necessary) Maximum belt load: 12 kg; 423.3 oz  Electrical design  Operating voltage 230 VAC (± 10 %) 50/60 Hz single phase  Power consumption Max. 8 A/230 VAC US/CAN max. 10 A  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON System failure Normal Operation Audit check Blue  Green Audit check Blue		157.5 ft/min (63.0-204.7 ft/min)	Optional: 206.7 ft/min (82.7 – 268.7 ft/min)
Cooling   Cooling device   Cooling   Cooling device   Cooling			Adjustable via frequency converter from -60 % to +30 % of the nominal speed (more speeds upon request)
Electrical design  Operating voltage 230 VAC (± 10 %) US/CAN 208-240 VAC (±10%) 50/60 Hz Single phase  Power consumption Max. 8 A/230 VAC US/CAN max. 10 A  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Audit check Blue			(depending on the product, product test neces-
Operating voltage  230 VAC (± 10 %) 50/60 Hz single phase  Power consumption  Max. 8 A/230 VAC  External fusing  10 A, delay-action  Mains cable  3 pin CEE connector  Blue (L1 + N + PE)  Cooling  Cooling device  Signal elements  Horn  BK  Signal lamp  X-rays ON System failure Normal Operation Audit check  Blue  US/CAN 208-240 VAC (±10%)  US/CAN 208-240 VAC (±10%)  US/CAN 208-240 VAC (±10%)  US/CAN 208-240 VAC (±10%)  Blue  US/CAN 208-240 VAC (±10%)			
Operating voltage  230 VAC (± 10 %) 50/60 Hz single phase  Power consumption  Max. 8 A/230 VAC  External fusing  10 A, delay-action  Mains cable  3 pin CEE connector  Blue (L1 + N + PE)  Cooling  Cooling device  Signal elements  Horn  BK  Signal lamp  X-rays ON System failure Normal Operation Audit check  Blue  US/CAN 208-240 VAC (±10%)  US/CAN 208-240 VAC (±10%)  US/CAN 208-240 VAC (±10%)  US/CAN 208-240 VAC (±10%)  Blue  US/CAN 208-240 VAC (±10%)	Electrical design		
50/60 Hz single phase  Power consumption Max. 8 A/230 VAC US/CAN max. 10 A  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Green Audit check Blue		230 VAC (± 10 %)	US/CAN 208-240 VAC (±10%)
Power consumption Max. 8 A/230 VAC US/CAN max. 10 A  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Audit check Blue	operating config	,	
Power consumption Max. 8 A/230 VAC US/CAN max. 10 A  External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Green Audit check Blue			
External fusing 10 A, delay-action  Mains cable 3 pin CEE connector Blue (L1 + N + PE)  Cooling Cooling device  Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Green Audit check Blue	Power consumption		US/CAN max. 10 A
Mains cable         3 pin CEE connector         Blue (L1 + N + PE)           Cooling         Cooling device           Signal elements         Horn         BK           Signal lamp         X-rays ON         Red           System failure         Orange           Normal Operation         Green           Audit check         Blue			
Cooling     Cooling device       Signal elements     Horn     BK       Signal lamp     X-rays ON     Red       System failure     Orange       Normal Operation     Green       Audit check     Blue	Mains cable		Blue (L1 + N + PE)
Signal elements Horn BK  Signal lamp X-rays ON Red System failure Orange Normal Operation Green Audit check Blue	Cooling		
Signal lamp X-rays ON Red System failure Orange Normal Operation Green Audit check Blue			BK
System failure Orange Normal Operation Green Audit check Blue		X-rays ON	Red
Audit check Blue		•	Orange
		Normal Operation	Green
		Audit check	Blue
Veyor belt and X-ray system  Combined control and operating unit for con-Rotary main switch  veyor belt and X-ray system	Operating elements	Combined control and operating unit for conveyor belt and X-ray system	Rotary main switch
Key switch			Key switch
Emergency stop			Emergency stop
Potential-free outputs "Machine Inspecting" Ready to operate	Potential-free outputs	"Machine Inspecting"	Ready to operate
"Machine Error" Error status		"Machine Error"	Error status
"Machine X-Ray ON" X-rays ON		"Machine X-Ray ON"	X-rays ON

HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 2 / 8

Prepared for connection of	Rejection system incl. preparation for Higher Level Compliance	Max. 2 rejection systems
Inspection system		
X-ray tube	100 kV/2.0 mA	200 W
Detection accuracy	High resolution X-ray detector	Accuracy: as from Ø 0.3 mm (product-specific)
Peripherals	Industrial PC with 15" touch screen	Resolution 16:9
Radiation protection	Radiation protection curtains (0.5 mm Pb equivalent value) including wear protection	Light grid (option specified in drawing), for special legal requirements, on request IP65
Safety switch	All housing parts required for radiation protection are secured with magnetic safety switches.	Temperature range -26 °C to +65 °C  Double evaluation
Weight	Approx. 450-590 kg	
IP rating	IP55	Cooling device
	IP65	Housing, operating elements, etc.
	IP66	Conveyor belt with drum motor
Storage / transport conditions		
Temperature	-10 °C to +40 °C	
•	+14 °F to +104 °F	
Humidity	5-90%, non-condensing	Relative humidity
Ambient conditions		
Place of installation	Indoor areas, no direct sunlight	
Temperature	+5 °C to +40 °C	330/200
•	+41 °F to +104 °F	
	+5 °C to +35 °C	450/250; 600/120
	+41 °F to +95 °F	
	+5 °C to +30 °C	Dual energy option
	+41 °F to +86 °F	5, 1
		The maximum and typical temperature indications correspond to an indication at 500 meters above sea level. Derating of the maximum/typical ambient temperature typically 1 °C per 1000 meters as from 500 meters above sea level.
Cleaning conditions		
Complete device	Dry cleaning	Wiping/dusting, vacuuming, drying etc. IP rating: IP55
Discharge conveyor	Dry cleaning and water jet cleaning	IP rating: IP66
Water jet pressure	Pmax< 0.3 bar; 30 kPa at a distance of 3 m	
Cleaning and disinfection agents	Cleaning agent must be suitable for cleaning of stainless steel 1.4301, stainless steel 1.4305, stainless steel 1.4057, PTFE, POM, polyamide, PE-UHMW, TPU, silicone and EPDM.	
Temperature range	max. +50 °C	
	max. +122 °F	

HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 3 / 8

Options	Facts	Details
Integrated rejection	Product weight up to 5 kg	Only for 330/200
system		
Version	Conveyor belt extension +500 mm	Package length 250 mm max.
	Total length therefore 1,900 mm	
Rejection system	Pusher	
	Pusher shield	
	Higher Level	
Reject bin	Plastic reject bin	Removable
Maximum product weight	5 kg	
Minimum height	≥ 6 mm	
IP rating	IP65	
Electrical design	Supply and control happen via plug connection to the inspection system	No additional control required
Pneumatic version		
Compressed air supply	6-8 bar	Coupling plug NW 7.2
Compressed air quality	Minimum requirements must be met by customer	Residual dust: Class 1
		Residual moisture: Class 7
		Residual oil: Class 2
FRL unit	Main switch (lockable)	
	Filter regulator with manometer (lockable)	
	Switch-on valve	
	Pressure build-up valve	
	Pressure switch	
	Safety switch-on valve	
Rejection system sep- arated	Long products	330/200
Version	Conveyor belt extension +800 mm	Package length 400 mm max.
	Total length therefore 2,200 mm	
Rejection system	Pusher	
	Pusher shield	
	Higher Level	
Reject bin	Plastic reject bin	Removable
Maximum product weight	5 kg	
Minimum height	≥ 6 mm	
IP rating	IP65	
Electrical design	Supply and control happen via plug connection to the inspection system	No additional control required
Pneumatic version		
Compressed air supply	6-8 bar	Coupling plug NW 7.2
Compressed air quality	Minimum requirements must be met by customer	Residual dust: Class 1
		Residual moisture: Class 7

HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 4 / 8

Filter regulator with manometer (lockable) Switch-on valve Pressure switch Safety switch-on valve Pressure switch Safety switch-on valve  Rejection system sep- arated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system Pusher shield Higher Level  Rejection Plastic reject bin Maximum product woight  Rejection expect Supply and control happen via plug connection to the inspection system filter regulator with manometer (lockable) Switch-on valve Pressure switch Safety switch-on valve Rejection system Pressure build-up valve Pressure build-up valve Pressure switch Rejection system Pressure build-up valve Pressure switch Rejection system Pressure build-up valve Pressure build-up valve Pressure build-up valve Pressure build-up valve Rejection system Rejection system Product Rejection system Rejection system Pressure build-up valve Rejection system Rejec			
Switch-on valve   Pressure build-up valve   Pressure switch   Safety switch-on valve   Pressure switch   Safety switch-on valve   Pressure switch   Safety switch-on valve   Saf	FRL unit	Main switch (lockable)	
Pressure build-up valve Pressure switch Safety switch-on valve  Rojection system sep- tong products arated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system Pusher Pusher Pusher Pusher Skig Maximum product weight  Minimum height 2 6 mm  Pressure build-up valve Pressure switch Safety switch-on valve  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system Pusher Pusher Roller conveyor Pusher shield Higher Level  Reject bin Plastic reject bin Removable  Maximum product weight  Minimum height 2 6 mm  Pressure switch Safety switch-on valve Pressure switch Safety switch-on valve Pressure switch Safety switch-on valve Rejection system Pena Plastic reject bin Removable  No additional control required ton to the inspection system Poult Residual moisture: Class 7 Residual dust: Class 1 Residual moisture: Class 7 Residual oil: Class 2  FRL unit Main switch (lockable) Filter regulator with manometer (lockable) Filter spulator with safety switch-on valve Pressure switch Safety switch-on valve Pressure switch Safety switch-on valve Rejection system sep- Heavy products Arated  Conveyor belt extension +800 mm For fast belt change System Conveyor belt extension +800 mm For late of the stension +		,	
Rejection system sep Rejection system sep Rejection system sep Rejection system Rejection Plastic reject bin Rejection Plastic reject bin Rejection system Rejection system Rejection System Rejection Rejection Plastic reject bin Rejection Rejection Plastic reject bin Rejection system Rejectio			
Rejection system sep- Long products arated 6000/120  Version Conveyor belt extension +800 mm package length 400 mm max. Total length therefore 2,200 mm  Rejection system Pusher Shield Higher Level  Roject bin Plastic reject bin Removable  Maximum product weight  Pes 6  Electrical design Supply and control happen via plug connection to the inspection system of the inspection system  Premarkic version  Compressed air supply  Minimum requirements must be met by custom  Fit regulator with manometer (lockable) Switch-on valve Pressure switch Safety switch-on valve Pressure switch  Safety switch-on valve Pressure switch  Rejection system sep- Rejection system Plasty products Affection system  Rejection system Pusher Rejection system  Powers Rejection system Pusher Rejection system  Rejection system Pusher Rejection system Pusher Rejection system Pusher Rejection system Rejection system Pusher Rejection system Rejection Rej		•	
Rejection system separated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system Pusher Pusher Pusher Pusher Pusher Shield Higher Level  Reject bin  Removable  Reject bin  Maximum product weight  Minimum helght Persum Posphy  6-8 har Coupling plug NW 7.2  Plusher Posphy  Minimum requirements must be met by customer Compressed air quality Pressure switch Safety switch-on valve Pressure switch Safety switch-on valve Pressure switch Safety switch-on valve Rejection system Pressure build-up valve Pressure switch Safety switch-on valve Rejection system Place of fast belt change Rejection system Pusher Rejection system Rejecti			
Action         Conveyor belt extension +800 mm Total length therefore 2,200 mm         Package length 400 mm max.           Rejection system         Pusher Pusher shield Higher Level         Roller conveyor           Reject bin         Plastic reject bin         Removable           Maximum product weight         ≥ 6 mm         Removable           Block Total design         Use plant on the inspection system         No additional control required           Pneumatic version         Coupling plug NW 7.2           Present of the inspection system         Coupling plug NW 7.2           Power of the inspection system         Residual dust: Class 1           Presumatic version         Residual moisture: Class 7           Residual oil: Class 2         Residual oil: Class 2           FFL unit         Main switch (lockable)         Residual oil: Class 2           Filter regulator with manometer (lockable)         Switch-on valve         Pressure build-up valve           Pressure build-up valve         Pressure build-up valve         Pressure build-up valve           Pressure build-up valve         Rejection system separated         Gonveyor belt frame and quick belt tensioner         Only in combination with option rejection system separated           Quick belt change         Conveyor belt extension +800 mm         Package length 400 mm max.           Total length therefo		Safety switch-on valve	
Version Conveyor belt extension +900 mm Package length 400 mm max. Total length therefore 2,200 mm  Rejection system Pusher Pusher Roller conveyor Pusher shield Higher Level  Reject bin Plastic reject bin Removable  Maximum product woight  Minimum height ≥ 6 mm  IP rating IP65  Electrical design Supply and control happen via plug connection to the inspection system from the inspection system  Pneumatic version  Compressed air quality  Ely response of the first regulator with manometer (lockable) Switch-on valve  Pressure switch-on valve  Pressure switch Safety switch-on valve  Quick belt change Pressure switch Safety switch-on valve  Rejection system separated  Conveyor belt extension +800 mm Package length 400 mm max. Total length therefore 2,200 mm  Maximum product weight  Maximum product  Wersion		Long products	450/250
Rejection system Pusher shield Higher Level  Reject bin Plastic reject bin Removable  Maximum product weight  Reject bin Plastic reject bin Removable  Reject bin Plastic reject bin Removable  Residual control required  total control required  Residual dust: Class 1  Residual dust: Class 1  Residual dust: Class 1  Residual oit: Class 2  Residua	arated		600/120
Rejection system Pusher Pusher Pusher Replied Higher Level Reject bin Removable  Reject bin Plastic reject bin Removable  Maximum product weight  Minimum height   For Seminar Post Post Post Post Post Post Post Post	Version	Conveyor belt extension +800 mm	Package length 400 mm max.
Pusher shield   Higher Level		Total length therefore 2,200 mm	
Reject bin   Plastic reject bin   Removable	Rejection system	Pusher	Roller conveyor
Reject bin         Plastic reject bin         Removable           Maximum product weight         5 kg           Maximum height         ≥ 6 mm           IP rating         IP65           Electrical design         Supply and control happen via plug connection to the inspection system         No additional control required           Pneumatic version         Coupling plug NW 7.2           Compressed air supply         Minimum requirements must be met by customer         Residual dust: Class 1 tomer           Compressed air quality         Minimum requirements must be met by customer         Residual moisture: Class 7 Residual oil: Class 2           FRL unit         Main switch (lockable)         Filter regulator with manometer (lockable)           Switch-on valve         Pressure switch         Safety switch-on valve           Quick belt change         Conveyor belt frame and quick belt tensioner for fast belt change         Only in combination with option rejection system separated           Rejection system system         Heavy products         450/250           Repection system         Pusher shield         Roller conveyor           Modular belt         Higher Level           Maximum product weight         15 kg		Pusher shield	
Maximum product weight  Minimum height   2-6 mm   1965  Electrical design   Supply and control happen via plug connection to the inspection system   Coupling plug NW 7.2    Pneumatic version  Compressed air quality  Compressed air quality  Compressed air quality  Compressed bir quality  Compressed air quality  Compressed bir quality  Compressed air quality  Compressed air quality  Main switch (lockable)  Filter regulator with manometer (lockable)  Switch-on valve  Pressure build-up valve  Pressure build-up valve  Pressure switch  Safety switch-on valve  Conveyor belt frame and quick belt tensioner for fast belt change  Rejection system separated  Rejection system separated  Rejection system  Total length therefore 2,200 mm  Rejection system  Rejection system		Higher Level	
Weight         Minimum height         ≥ 6 mm           IP rating         IP65           Electrical design         Supply and control happen via plug connection to the inspection system         No additional control required           Pneumatic version         Coupling plug NW 7.2           Compressed air supply         6-8 bar         Coupling plug NW 7.2           Compressed air quality         Minimum requirements must be met by customer         Residual dust: Class 1           Residual moisture: Class 7 Residual oil: Class 2         Residual oil: Class 2           FRL unit         Main switch (lockable)         Residual oil: Class 2           Filter regulator with manometer (lockable)         Switch-on valve         Pressure switch           Pressure switch         Safety switch-on valve         Pressure switch         Pressure switch         Pressure switch         Pressure system           Rejection system sepsystem         For fast belt change         450/250         600/120           Version         Conveyor belt extension +800 mm         Package length 400 mm max.           Total length therefore 2,200 mm         Roller conveyor         Modular belt           Rejection system         Pusher shield         Higher Level           Maximum product weight         45 kg	Reject bin	Plastic reject bin	Removable
Minimum height   P65   P65     Electrical design   Supply and control happen via plug connection to the inspection system   No additional control required     Posturatic version   Compressed air supply   6-8 bar   Coupling plug NW 7.2     Posturatic version   Compressed air supply   Minimum requirements must be met by customer   Residual dust: Class 1     Residual moisture: Class 7   Residual oil: Class 2     Residual oil: Class 3     Residual oil: Class 4     Residual oil: Class 5     Residual oil: Class 6     Residual oil: Class 7     Residual oil: Class 7     Residual oil: Class 7     Residual oil: Class 6     Residual oil: Class 7     Residual oil: Class 9     Residual oil: Oils 9     Residual oil		5 kg	
Prating   IP65   Supply and control happen via plug connection to the inspection system   Supply and control happen via plug connection to the inspection system   Supply and control happen via plug connection to the inspection system   Supply			
Electrical design Supply and control happen via plug connection to the inspection system  Pneumatic version  Compressed air supply  Compressed air quality  Minimum requirements must be met by customer  Residual dust: Class 1  Residual oil: Class 2  FRL unit  Main switch (lockable) Filter regulator with manometer (lockable) Switch-on valve  Pressure switch Safety switch-on valve  Quick belt change system  Rejection system separated  Rejection system  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system  Rejection system  Rejection system  Rejection system  Rejection system  Total length therefore 2,200 mm  Rejection system  Rejection system  Rejection system  Rejection system  Rejection system  Total length therefore 2,200 mm  Rejection system  Rejection system  Rejection system  Rejection system  Rejection system  Total length therefore 2,200 mm  Rejection system  Rejection system  Roller conveyor  Modular belt  Higher Level  Maximum product weight  Minimum height  2 6 mm			
Pneumatic version   Compressed air supply   6-8 bar   Coupling plug NW 7.2			
Compressed air sup-ply       6-8 bar       Coupling plug NW 7.2         Compressed air quality       Minimum requirements must be met by customer       Residual dust: Class 1         Filter regulator with manometer (lockable)       Residual oil: Class 2         FRL unit       Main switch (lockable)       Filter regulator with manometer (lockable)         Switch-on valve       Pressure build-up valve       Pressure switch         Peressure switch       Safety switch-on valve         Quick belt change       Conveyor belt frame and quick belt tensioner for fast belt change       Only in combination with option rejection system separated         Rejection system separated       Heavy products       450/250         arated       Conveyor belt extension +800 mm       Package length 400 mm max.         Total length therefore 2,200 mm       Roller conveyor         Rejection system       Pusher       Roller conveyor         Modular belt         Heigher Level         Maximum product weight       2 6 mm	Electrical design		No additional control required
Compressed air quality Compressed air quality Residual moisture: Class 1 Residual oil: Class 2  FRL unit Main switch (lockable) Filter regulator with manometer (lockable) Switch-on valve Pressure build-up valve Pressure switch Safety switch-on valve  Quick belt change system Conveyor belt frame and quick belt tensioner for fast belt change system Rejection system separated  Rejection system separated  Rejection system Total length therefore 2,200 mm  Rejection system Pusher Rejection system Fleavy products Rejection system Total length therefore 2,200 mm  Rejection system Rejection system Rejection system Total length therefore 2,200 mm  Rejection system Rejection system Fleavy products Rejection system Total length therefore 2,200 mm  Rejection system Rejecti	Pneumatic version		
tomer  Residual moisture: Class 7 Residual oil: Class 2  FRL unit  Main switch (lockable) Filter regulator with manometer (lockable) Switch-on valve Pressure build-up valve Pressure switch Safety switch-on valve  Quick belt change system For fast belt change for fast belt change arated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system  Rejection system Pusher Pusher shield Higher Level  Maximum product weight  Minimum height  Fall and switch (lockable) Residual roil: Class 2  Residual roil: Clasue roil Residual roil: Clasue roil Residual roil		6-8 bar	Coupling plug NW 7.2
FRL unit Main switch (lockable) Filter regulator with manometer (lockable) Switch-on valve Pressure build-up valve Pressure switch Safety switch-on valve  Quick belt change system for fast belt change Rejection system separated  Rejection system separated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system Rejection system Total length therefore 2,200 mm  Rejection system Rejection system Total length therefore 2,200 mm  Rejection system Rejection system Total length therefore 2,200 mm  Rejection system Rejection system Total length therefore 2,200 mm  Rejection system Roller conveyor Modular belt  Maximum product Weight  Minimum height  Skg  Filter regulator with manometer (lockable) Switch-on valve Rolly in combination with option rejection system separated Rolly in combination with option rejection system separated Rejection system separated Rejection system Rolly in combination with option rejection system separated Rolly in combination with option rejection system separated Rolly in combination with option rejection system separated Rejection syste	-		Residual dust: Class 1
FRL unit    Main switch (lockable)   Filter regulator with manometer (lockable)   Switch-on valve   Pressure build-up valve   Pressure switch   Safety switch-on valve			Residual moisture: Class 7
Filter regulator with manometer (lockable) Switch-on valve Pressure build-up valve Pressure switch Safety switch-on valve  Quick belt change system Conveyor belt frame and quick belt tensioner for fast belt change Rejection system separated  Rejection system Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system  Pusher Pusher Rejection system Pusher Rejection system			Residual oil: Class 2
Switch-on valve Pressure build-up valve Pressure switch Safety switch-on valve  Quick belt change for fast belt change system Rejection system separated  Rejection system separated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system  Rejection system  Rejection system  About 120  Version Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system  Rejection system About 15 kg  Maximum product Weight  Minimum height About 15 kg  A	FRL unit	Main switch (lockable)	
Pressure build-up valve Pressure switch Safety switch-on valve  Quick belt change for fast belt change  Rejection system separated  Version  Rejection system Pusher shield Higher Level  Maximum product weight  Minimum height  Pressure build-up valve Pressure switch Pressure switch Safety switch-on valve  Conveyor belt frame and quick belt tensioner separated  Only in combination with option rejection system separated  450/250 600/120  Version Package length 400 mm max. Package length 400 mm max. Roller conveyor Modular belt  Fusher shield Higher Level  Maximum product Weight  Minimum height  Pressure switch Safety switch-on valve  Only in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly 100  Molly in combination with option rejection system Separated  Molly 100  Molly		Filter regulator with manometer (lockable)	
Pressure switch Safety switch-on valve  Conveyor belt frame and quick belt tensioner for fast belt change separated  Rejection system separated  Pressure switch For fast belt change  Rejection system separated  Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system  Rejection system  Rejection system  Rejection system  Rejection system  Pusher  Roller conveyor Modular belt  Pusher shield Higher Level  Maximum product weight  Minimum height  Paker switch Safety switch-on valve  Only in combination with option rejection system Separated  Rolly 250  Rolly 10  Above 10  Above 11  Above 11  Above 11  Above 12  Above 12  Above 12  Above 13  Above 14  Above		Switch-on valve	
Safety switch-on valveQuick belt change systemConveyor belt frame and quick belt tensioner for fast belt changeOnly in combination with option rejection system separatedRejection system sep- aratedHeavy products 600/120450/250 600/120VersionConveyor belt extension +800 mm Total length therefore 2,200 mmPackage length 400 mm max.Rejection systemPusherRoller conveyor Modular beltPusher shield Higher LevelHigher LevelMaximum product weight15 kgMinimum height≥ 6 mm		Pressure build-up valve	
Quick belt change system       Conveyor belt frame and quick belt tensioner for fast belt change       Only in combination with option rejection system separated         Rejection system separated       Heavy products 600/120       450/250 600/120         Version       Conveyor belt extension +800 mm Total length therefore 2,200 mm       Package length 400 mm max.         Rejection system       Pusher       Roller conveyor Modular belt         Pusher shield Higher Level       Higher Level         Maximum product weight       15 kg         Minimum height       ≥ 6 mm		Pressure switch	
system for fast belt change separated   Rejection system separated Heavy products 450/250   Version Conveyor belt extension +800 mm Total length therefore 2,200 mm Package length 400 mm max.   Rejection system Pusher Roller conveyor Modular belt   Pusher shield Higher Level Higher Level    Maximum product weight 15 kg   Minimum height ≥ 6 mm		Safety switch-on valve	
arated       600/120         Version       Conveyor belt extension +800 mm       Package length 400 mm max.         Total length therefore 2,200 mm         Roller conveyor         Modular belt         Pusher shield         Higher Level         Maximum product weight       15 kg         Minimum height       ≥ 6 mm	•	· · · · · · · · · · · · · · · · · · ·	
Version Conveyor belt extension +800 mm Total length therefore 2,200 mm  Rejection system Pusher Pusher shield Pusher shield Higher Level  Maximum product weight  Minimum height  Ponveyor belt extension +800 mm Package length 400 mm max.  Roller conveyor Modular belt  Modular belt  Pusher shield Higher Level	Rejection system sep-	Heavy products	450/250
Total length therefore 2,200 mm  Rejection system Pusher Pusher shield Pusher shield Higher Level  Maximum product weight  Minimum height  Posher shield Higher Level  Posher shield Higher Level	arated		600/120
Rejection system Pusher Pusher shield Pusher shield Higher Level  Maximum product weight  Minimum height Pusher shield Higher Level  8 Roller conveyor Modular belt  9 Some Some Some Some Some Some Some Some	Version	Conveyor belt extension +800 mm	Package length 400 mm max.
Modular belt  Pusher shield Higher Level  Maximum product weight  Minimum height ≥ 6 mm		Total length therefore 2,200 mm	
Pusher shield Higher Level  Maximum product weight  Minimum height ≥ 6 mm	Rejection system	Pusher	Roller conveyor
Higher Level  Maximum product weight  Minimum height ≥ 6 mm			Modular belt
Maximum product weight     15 kg       Minimum height     ≥ 6 mm		Pusher shield	
Maximum product weight     15 kg       Minimum height     ≥ 6 mm		Higher Level	
Minimum height ≥ 6 mm			
		≥ 6 mm	
	IP rating	IP65	

HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 5 / 8

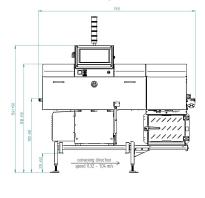
Electrical design	Supply and control happen via plug connec-	No additional control required
	tion to the inspection system	The daditional control roquired
Pneumatic version		
Compressed air supply	6-8 bar	Coupling plug NW 7.2
Compressed air quality	Minimum requirements must be met by customer	Residual dust: Class 1
		Residual moisture: Class 7
		Residual oil: Class 2
FRL unit	Main switch (lockable)	
	Filter regulator with manometer (lockable)	
	Switch-on valve	
	Pressure build-up valve	
	Pressure switch	
	Safety switch-on valve	
Quick belt change system	Conveyor belt frame and quick belt tensioner for fast belt change	Only in combination with option rejection system separated
Dual energy	Proof of soft impurities (bones, gristle)	Using a dual energy sensor increases the accuracy in detecting foreign substances in determined applications by contemporaneous evaluation of two line scan cameras. Device operation and design are almost identical to the standard device with single energy detector.
Software package 1	Completeness check	
	Weight deviation	
	Clip detection	
	Shape deviations	
Software package 2	Multi Lane-Software	
	Multi Product-Software	
	Zone Analyser-Software	
Software package 3	Sensibility forecast and self-monitoring	not combinable with software package 2
Login package	User login with RFID chip	Compatible with Mifare ISO 14443 and ISO 15639
		inclusive 4 RFID transponder chips (Mifare ISO 14443)

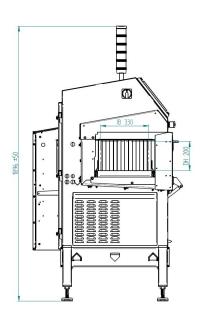
HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 6 / 8

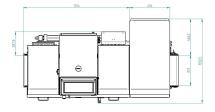
## Info graphics



## **Dimensional drawings**







HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 7 / 8

## Bizerba SE & Co. KG

Wilhelm-Kraut-Straße 65 72336 Balingen

T +49 7433 12-0 fax: +49 7433 12-2696 marketing@bizerba.com

www.bizerba.com

HF\_XRE-D pro 200\_V2\_EN Subject to technical modifications Page 8 / 8