

I LAMP X-RAY SCANNER ELEKTRON-ASG-60/120

- Scanner particularly dedicated to the examination of all dry bulk products (coffee, herbs, cereal grains, salt, sugar, nuts, seeds, nuts, etc.). Can be adapted to the detection of fresh fruit and vegetables.
- Very easy and intuitive to use.
- Using artificial intelligence technology the X-Ray scanner is almost maintenance-free.
- **ASG** (air shotgun)- separator with multiple air nozzles that precisely removes contaminants along with a small amount of product to be examined.
- Easy and quick cleaning design.
- Highest level of safety, complying with European CE standards as well as US FDA, optionally UL/CSA.

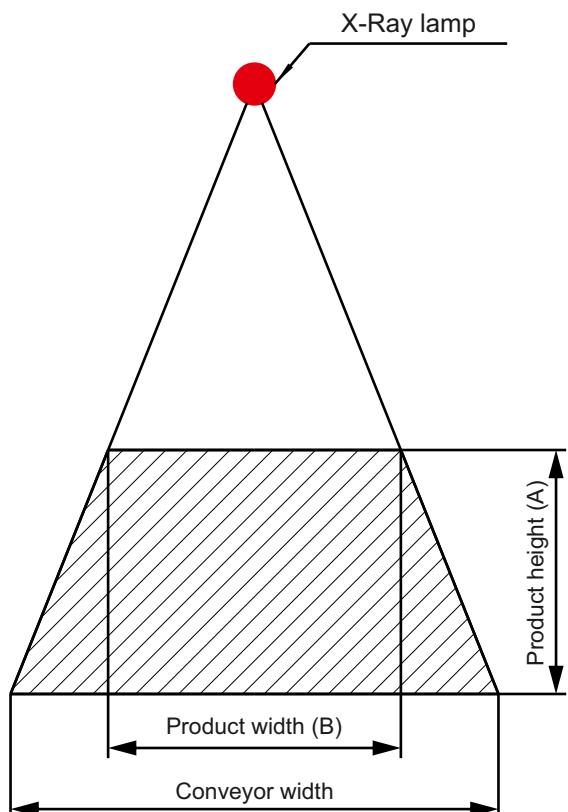


ARTIFICIAL INTELLIGENCE SUPPORT - ADDITIONAL OPTION

The X-Ray scanner is equipped with artificial intelligence support, which analyzes comparative data much more accurately than humans, with enormous computing speed. AI is like a virtual operator, which constantly ensures the highest quality of the X-Ray scanner's work, replacing a qualified operator in this position. The AI robot learns to recognize and eliminate foreign objects, errors, damage, and deficiencies much more accurately than competing scanners. AI significantly increases the level of detection, improves the accuracy of weighing products with a fixed form and shape, and disproportionately reduces the number of false rejects.

Model	ELEKTRON -SXRF	
Specification	4080, 5080, 6080	
Maximum height of the test product	220 mm, 250mm, 300mm	
Maximum width of the test product	400 mm, 500mm, 600mm	
X-Ray lamp	MAX. 80 kV, 350W	
The smallest possible detectable testers	St/st ball from 0.4 mm, wire from 0.2x2 mm Glass/Ceramics ball from 1.0 mm	
The belt speed is adjustable	0-60 m/min	10-120 m/min
Recoil mode	Air separator composed of 32 independent channel repeller nozzles. Possibility to divide into 4/2/1 channels.	Air separator composed of 48 independent channel repeller nozzles. Possibility to divide into 4/2/1 channels.
Connection	port LAN, port USB	
Product management	Automatic recording of parameters of the tested product	
Image management	Automatic image recording and analysis	
Display	17" touch screen	
Cooling	Industrial air conditioner	
Radiation protection	Protective tunnel and security system	
External radiation	< 1 μ Sv/h	
Working temperature	od -10°C do 40 °C	
Operating humidity	30-90% non-condensed water vapor	
Supply voltage	230 VAC	
Tightness class	IP66	
Air pressure	0,8 Mpa	
Housing material	Glass-blasted stainless steel	

SELECTING AN X-RAY SCANNER

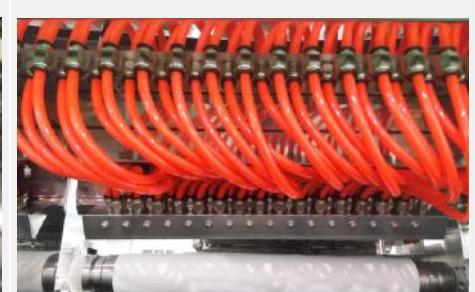
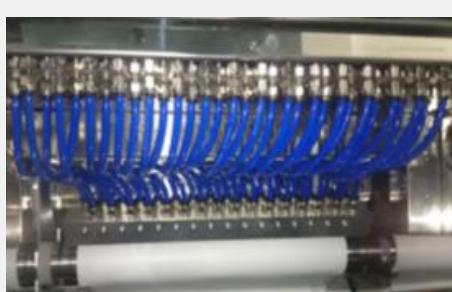


Model	SXRF -4080	SXRF -5080	SXRF -6080
Product height (A)	Product width (B)		
0 mm	400 mm	500 mm	600 mm
10 mm	390 mm	489 mm	589 mm
20 mm	380 mm	477 mm	576 mm
30 mm	371 mm	466 mm	564 mm
40 mm	361 mm	455 mm	552 mm
50 mm	351 mm	443 mm	540 mm
60 mm	341 mm	432 mm	528 mm
70 mm	331 mm	420 mm	515 mm
80 mm	322 mm	409 mm	503 mm
90 mm	312 mm	398 mm	490 mm
100 mm	302 mm	386 mm	478 mm
110 mm	292 mm	375 mm	466 mm
120 mm	282 mm	363 mm	454 mm
130 mm	272 mm	352 mm	441 mm
140 mm	263 mm	340 mm	429 mm
150 mm	253 mm	329 mm	417 mm
160 mm	244 mm	218 mm	405 mm
170 mm	-	307 mm	393 mm
180 mm	-	295 mm	380 mm
190 mm	-	284 mm	368 mm
200 mm	-	272 mm	356 mm
210 mm	-	261 mm	344 mm
220 mm	-	250 mm	331 mm
230 mm	-	239 mm	319 mm
240 mm	-	227 mm	307 mm
250 mm	-	216 mm	295 mm
260 mm	-	-	282 mm
280 mm	-	-	258 mm
300 mm	-	-	233 mm

ASG AIR NOZZLE SYSTEM

ASG (air shotgun) - separator with air nozzles

The X-ray scanner divides the conveyor belt for 8 independent channels with 34 or 48 air nozzles for precise rejection of a foreign body containing a small amount of product.



MAIN FEATURES

- Very high level of detection and unparalleled operating stability when scanning bulk fed products with irregular shapes and alignment.
- Remote 24-hour service support regardless of location.
- Touchscreen for easy operation and management of functions (possibility to fine-tune manual parameter settings).
- Detection of all metals, stones, glass, ceramics, rubber, hard plastic.
- Conveyor speed - 10-120m/min, adjustable according to product specifics.
- Smooth management of each detection zone increasing the level and quality of scanning.
- Intuitive and very simple operation of the machine.

SYSTEM FUNCTIONS

- 2 password-protected access levels.
- The operator can additionally adjust the settings.
- Automatic product self-learning system.
- Automatic diagnostics and safety control system (detection of open doors, inspection door in the device and immediately stop the device and turn it off X-Ray lamp radiation).

„FROST” SYSTEM

In the low temperature zone, the X-Ray scanner can be equipped with an unprecedented "FROST" system - a system for controlling the temperature and humidity inside the enclosures of the control systems. A system that protects the electronics against humidity and cold and abrupt temperature changes during cleaning. It prevents the absorption of moisture inside (e.g. a cold machine washed with hot water).

LIST OF COMPONENTS

FUNCTION	NAME	PRODUCER
X-Ray source	X-Ray generator	VJ USA
X-Ray receiver	X-Ray detector	DT FINLANDIA
Device management	17" touch monitor	ADVANTECH
Data processing	Industrial computer	ADVANTECH
Temperature and wetness control	Air conditioner	RITTAL
Conveyor belt drive	Engine with gear	ORIENTAL MOTOR
Speed regulation	Engine controller	ORIENTAL MOTOR
Electric protection	Miniature circuit breakers	SCHNEIDER ELECTRIC /ABB
Connection between devices	Military connectors	PLT
Safety management	Limit switches	OMRON
Automation management	PLC driver	SCHNEIDER ELECTRIC
Warning information	Optical-acoustic signaller	WERMA

TECHNICAL DRAWING ELEKTRON-SXRF-ASG

