

**I LAMP X-RAY SCANNER ELEKTRON-SXRF-4080**

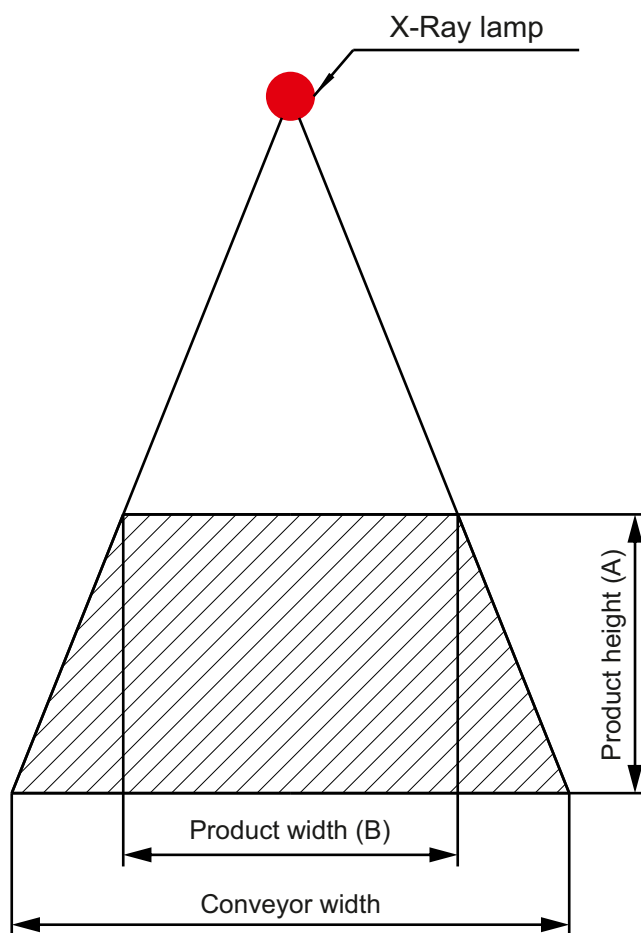
- ▶ This state-of-the-art series of X-ray scanners is designed to inspect products packed in regular and irregular packaging, metallised film and even flat metal cans.
- ▶ The device scans products as they move in an irregular pattern, detecting packaging defects – such as missing parts, dents and incorrect weight – with a high degree of accuracy.
- ▶ The high-power ionising radiation tube used ensures a longer service life for the entire X-ray scanner.
- ▶ Thanks to the use of artificial intelligence (AI) technology, the X-ray scanner is virtually maintenance-free.
- ▶ Designed for quick and easy cleaning. The conveyor belt can be removed and refitted in a matter of tens of seconds, whilst the conveyor rollers can be quickly assembled and disassembled.
- ▶ The highest level of safety, complying with European CE standards, supervised by the National Atomic Energy Agency.
- ▶ The X-ray scanner's design can be adapted to the requirements of the production line (longer/higher conveyor, higher IP rating, SUS316 construction).

**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
Maximum height of the test product	220 mm
Maximum width of the test product	400 mm
X-Ray lamp	Max. 80kV 350/480 W
The smallest possible detectable testers	St/st ball from 0.4 mm, wire from 0.2x1 mm Glass/Ceramics ball from 1.0 mm
Belt speed	Adjustable in the range of 0-60 m/min
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	< 1μSv/h
Working temperature	od -10°C do 40 °C
Operating humidity	30-90% non-condensed water vapor
Supply voltage	230 VAC
Power consumption	1200 W
Tightness class	IP65
Air pressure	6-8 bar
Housing material	Glass-blasted stainless steel

SELECTING AN X-RAY SCANNER



Model	SXR P4080
Products height (A)	Products width (B)
0 mm	400 mm
10 mm	390 mm
20 mm	380 mm
30 mm	371 mm
40 mm	361 mm
50 mm	351 mm
60 mm	341 mm
70 mm	331 mm
80 mm	322 mm
90 mm	312 mm
100 mm	302 mm
110 mm	292 mm
120 mm	282 mm
130 mm	272 mm
140 mm	263 mm
150 mm	253 mm
160 mm	244 mm
on special order	
170 mm	234 mm
180 mm	224 mm
190 mm	214 mm
200 mm	204 mm
210 mm	194 mm
220 mm	185 mm

EXAMPLE OF SEPARATORS

Pusher

Separator in the form of a pusher with a lockable container.



Pusher

Separator in the form of a pusher with a conveyor roller conveyor.



Single separator

Separator in the form of a dropping conveyor for rejecting products fed in a single row.



Double separator

Separator in the form of two dropping conveyors for reject products fed in two rows.



MAIN FEATURES

- Very high level of detection and unparalleled operating stability when scanning products of different shapes entering irregularly or even drifting.
- Touchscreen for easy operation and management of functions (possibility to fine-tune manual parameter settings).
- Detection of all metals, stones, glass, ceramics, rubber, hard plastics.
- Intuitive and simple operation.
- Smooth management of each detection zone increasing the level and quality of scanning.
- Remote 24-hour service support regardless of location.

SYSTEM FUNCTIONS

- Four access levels, password-protected.
- The operator can manually adjust the settings.
- Detection of defective products with damage (deformed product, dented tin, missing product or substandard product).
- Built-in weight controller and X-ray scanner eliminates products with incorrect weight from as little as 1–5 grams, depending on the product type.
- Records of product inspections in the form of images, and system events presented as tables and graphs.
- The automatic separator can be adapted to the type of product being inspected; it is equipped with air pressure drop sensors, rejection confirmation and a full container indicator for defective products.
- Automatic diagnostics and safety control system (detection of open inspection doors on the machine, followed by immediate machine shutdown and deactivation of the X-ray tube).

„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 TECHNOLOGIES
X-Ray receiver	X-Ray detector	ELEKTRON -OEM
Device management	17” touch monitor	ADVANTECH
Data processing	Industrial computer	ADVANTECH
Temperature and wetness control	Air conditioner	RITTAL
Conveyor belt drive	Engine wiht 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

