ELEKTRONIK SYSTEM
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I LAMP X-RAY SCANNER ELEKTRON-SXRF-5080

► X-Ray scanners, whose main purpose is to examine larger products packaged in regular and irregular packaging, metallization and even flat metal cans.

► The device, scans products in irregular drift, detects packaging errors, defects, dents, incorrect weight with high accuracy.

► Very easy and intuitive operation.

► The high-powered ionising radiation lamp used, ensures longer life of the entire X-Ray scanner.

► Using artificial intelligence technology, the X-Ray scanner is almost maintenance-free.

► Easy and quick cleaning design. Conveyor belt removable and attachable in tens of seconds, conveyor rollers quick to install and remove.

► Highest level of safety, complying with European CE standards as well as the US FDA, optionally UL/CSA.

► We can adapt the design of the X-Ray scanner to the maximum extent in accordance with our customers' requirements (longer conveyor, higher IP level, SUS316 design, conveyor height).
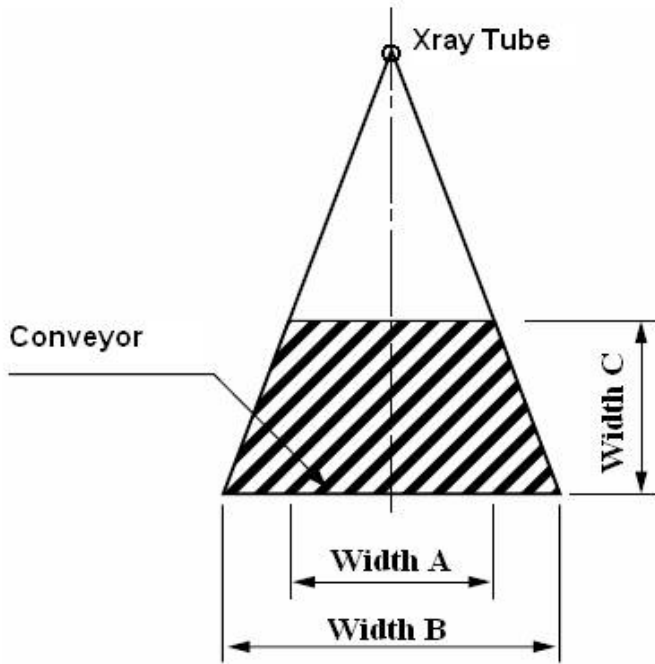
ARTIFICIAL INTELLIGENCE - OPTIONAL

The X-Ray scanner can be equipped with artificial intelligence support, which much more accurately than a human analyzes the comparison data with tremendous computational speed. The AI robot learns to recognise and eliminate foreign bodies, errors, damage, deficiencies much more accurately than scanners of competing companies. AI significantly increases the level of detection and improves the accuracy of weighing a product of fixed form and shape.

Model	ELEKTRON-SXRF
Specification	5080
Maximum height of the test product	250 mm
Maximum width of the test product	500 mm
X-Ray lamp	80kV 350W
The smallest possible detectable testers	St/st ball from 0.3 mm, wire from 0.2x1 mm Glass/Ceramics ball from 1.0 mm
Belt speed	Adjustable in the range of 10-40 m/min
Communication ports	LAN port, USB port
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	< 1μSu/h
Working temperature	od 0˚C do 40 ˚C
Operating humidity	30-90% non-condensed water vapor
Supply voltage	220 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	SXRF-5080
Product height (A)	Product width (B)
0 mm	500 mm
10 mm	489 mm
20 mm	477 mm
30 mm	466 mm
40 mm	455 mm
50 mm	443 mm
60 mm	432 mm
70 mm	420 mm
80 mm	409 mm
90 mm	398 mm
100 mm	386 mm
110 mm	375 mm
120 mm	363 mm
130 mm	352 mm
140 mm	340 mm
150 mm	329 mm
160 mm	218 mm
170 mm	307 mm
180 mm	295 mm
190 mm	284 mm
200 mm	272 mm
210 mm	261 mm
220 mm	250 mm
230 mm	239 mm
240 mm	227 mm
250 mm	214 mm

Xray Tube

Conveyor

Width C

Width A

Width B

A	214
B	500
C	250

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

- 2 password-protected access levels.
- The operator can manually adjust the settings.
- Detection of defective products with damage (deformed product, crumpled can, no product or defective product).
- Built-in weight controller - X-Ray scanner eliminates products with incorrect weight from 1-5 grams depending on the type of product.
- Possibility of cooperation with any separator.
- Automatic diagnostics and safety control system (detection of open inspection doors in the device and immediate stopping of the device and turning off the 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 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

2246

2038

2322

950(+100)

DIRECTION OF WORK

990

1341

780

646

514

DIRECTION OF WORK

	Imię i nazwisko	Data	Podpis		Montaż
Wykonał:	Marcin Weltrowski	10.06.2024		Masa:	-
Sprawdził:				Format:	A2
Zatwierdził:	Piotr Cieśliński	10.06.2024		Podziałka:	1:15

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