ELEKTRONIK SYSTEM

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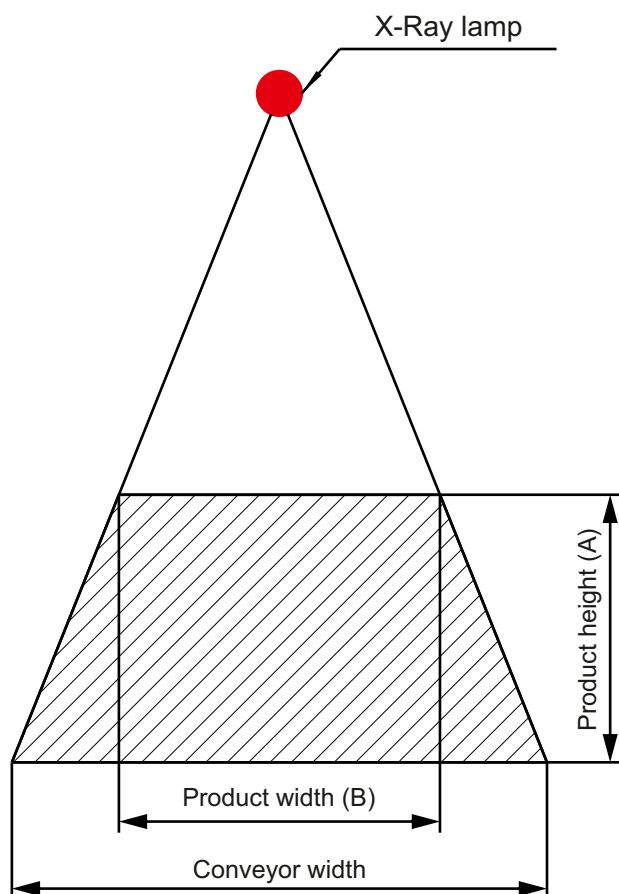89-606 Charzykowy

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MINI X-RAY SCANNER ELEKTRON-SXRF-2820

► A range of small and low-cost X- Ray scanners for examining products in cardboard, plastic, PET, PE, vaccum, metallized, aluminium, glass in the form of low jars with metal caps and in metal flat cans.

► X-Ray scanner, scans products in irregular drift, detects packaging errors, defects, dents, detects incorrect weight with high accuracy.

► High sensitivity and stability of operation - the highest achievable with the highest penetration of radiation through the product.

► Very easy and intuitive operation.

► Easy and quick cleaning design. Conveyor belt removable and attachable in seconds.

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

Model	ELEKTRON -SXRF 2820
X-ray lamp	MAX. 65kV, 1 50W
Detector	0,4mm
Maximum product height	150mm
Maximum product width	290mm
Maximum belt load	10kg
Tape speed	Adjustable in the range of 10 -80 m/min
Connection	LAN port, USB port
Product management	Automatic recording of the parameters of the tested product
Image management	Automatic image saving and analysis
Parameter adjustment	Automatic self -learning
Display	17" touch screen
Operating system	windows
Cooling	Industrial air conditioner
Radiation protection	Protective curtains
External radiation	< 1µSv/h
Working temperature	from -10˚C to 40˚C
Working humidity	30-90% non-condensing water vapor
Supply voltage	220V ± 10%
Power consumption	1200 W
Tightness class	IP65
Machine cleaning level	Easy
Standard device height	800 + 100mm
Housing material	Glass-blasted stainless steel

SELECTING AN X-RAY SCANNER

X-Ray lamp

Product height (A)

Product width (B)

Conveyor width

Product height(A)	Product width (B)
0 mm	290 mm
10 mm	282 mm
20 mm	274 mm
30 mm	267 mm
40 mm	260 mm
50 mm	251 mm
60 mm	243 mm
70 mm	237 mm
80 mm	228 mm
90 mm	220 mm
100 mm	213 mm
110 mm	205 mm
120 mm	197 mm
130 mm	190 mm
140 mm	182 mm
150 mm	176 mm

RECOMMENDED TYPES OF REJECTS

Pusher with roller pallet

Pusher with a lockable container

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	OEM ELEKTRON
X-Ray receiver	X-Ray detector	OEM ELEKTRON
Device management	17" touch monitor	ADVANTECH
Data processing	Industrial computer	ADVANTECH
Temperature and wetness control	Air conditioner	ENVICOOL
Conveyor belt drive	Engine wiht gear	INOVANCE
Speed regulation	Engine controller	INOVANCE
Electric protection	Miniature circuit breakers	SCHNEIDER ELECTRIC /ABB
Connection between devices	Military connectors	PLT
Safety management	Limit switches	OMRON , SICK
Automation management	PLC driver	INOVANCE
Warning information	Optical-acoustic signaller	WERMA

1706

BELT 300

700 (+100)

1341

662

591

1341

DIRECTION OF WORK

	Imię i nazwisko	Data	Podpis	Montaż	
Wykonał:	Marcin Weltrowski	03.11.2023		Masa: -	Podziałka: 1:15
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