



ELEKTRONIK SYSTEM

Piotr Cieśliński

ul. Ustronna 14
89-606 Charzykowy

+48 608 34 34 34
elektron@metaldetektor.pl

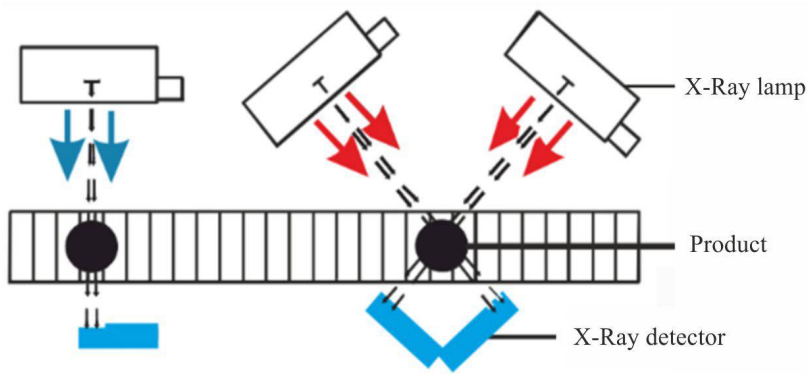
III LAMP X-RAY SCANNER ELEKTRON-SXRF-2025III

- Advanced analysis system using three sources image ensures the highest level of quality in the process production. Intended, among others, for products in jars, cans, bottles, etc.
- Irregular shape and packaging defects product have no effect on the detection level.
- Triple beam technology product scan.
- The built-in air conditioner allows for the device to work in all conditions.
- By x-raying the product from three different angles, the system eliminates blind spots as much as possible, which are most often found at the bottom of jars or bottles.



Model	ELEKTRON-SXRF
Three X-Ray lamps	MAX. 480W/120kV
Maximum width of the tested product	200 mm
Maximum height of the tested product	250 mm
The smallest possible detectable testers	Steel ball from 0.5 mm Steel wire from 0.4*2mm Glass/Ceramic ball from 1.5 mm
Transporter speed	10-50 m/min
Operating system	Windows 7
Radiation protection	Protective tunnel
External radiation	< 1 μSv/h
Tightness class	IP66
Working temperature	From -10 to +40 °C
Working humidity	30~90%
Cooling	PFANNENBERG industrial air conditioner
Recoil system	Bulldozer
Air pressure	0.8Mpa
Power	3.5 kW
Material	Glass-blasted stainless steel

LAMP SETTING DIAGRAM



Three-beam connection technology researching the product, provides the highest detection level.

MAIN FEATURES

- 24/7 remote technical support regardless of its location.
- The touch screen enables easy operation and management of functions (possibility to specify manual parameter settings, which guarantees the highest level of detection).
- Detection of glass in glass (bottles, jars) and metals in metal packaging (cans).
- Smooth management of each detection zone to improve the level and quality of scanning.
- Full range product inspection possible.
- Intuitive and very simple operation of the device.
- The highest possible level of detection and unprecedented stability of work when scanning products of various shapes entering irregularly and even drifting.

SYSTEM FUNCTIONS

- Two levels of access to the program protected by a password.
- The operator has the ability to fully adjust the settings.
- Detection of defective products with damage (deformed product, crumpled can, missing or defective product).
- Possibility of cooperation with any separator.
- System of automatic diagnostics and security control (detection of open inspection door on the device and immediately stop the device and turn it off X-ray lamp radiation).

"FROST" SYSTEM

The X-Ray scanner can be equipped with an unprecedented system "FROST" with built-in intelligent heating system and thermostat, inside the panel which protects the internal electronics from moisture and cold. It is the only protection against rapid temperature changes during washing and protects against inward absorption of moisture (e.g. a cold machine being 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	iEi
Data processing	Industrial computer	TANK 820
Temperature and humidity control	Air conditioner	PFANNENBERG
Conveyor belt drive	Gear motor	ORIENTAL MOTOR
Speed regulation	Inverter	YASKAWA/OMRON
Electric protection	Miniature circuit breakers	SCHNEIDER ELECTRIC /ABB
Connection between devices	Military connectors	PLT
Safety management	Limit switches	OMRON
Automation management	PLC driver	OMRON
Warning information	Optical-acoustic indicator	SCHNEIDER ELECTRIC

TECHNICAL DRAWING OF ELEKTRON-SXRF-2025III

