ELEKTRONIK SYSTEM
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X-Ray SCANNER ELEKTRON-SXRF

➢ Based on the highest technical achievements.

➢ Intuitive and very simple operation.

➢ The only software that allows you to scan products asymmetrical and drifting in a unique position.

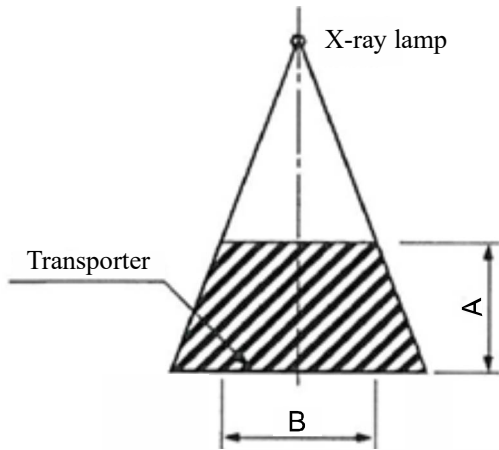➢ The oversized lamp power range provides much longer life than other scanners available on the market.

QUICK REMOVAL OF THE BELT

Model	ELEKTRON-SXRF
Specification	4080, 5080, 6080, 8040
Maximum height of the test product	220 mm, 250 mm, 300 mm, 400 mm
Maximum width of the test product	400 mm, 500 mm, 600 mm, 795 mm
X-ray lamp	Max. 80kV 210/350/480 W
The smallest possible detectable testers	St/st ball from 0.3 mm, wire from 0.2x1 mm Glass/Ceramic ball from 1.0 mm
Tape speed	Adjustable in the range of 0-60 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
display	17" touch screen
Cooling	PFANNENBERG industrial air conditioner
Recoil type	Pneumatic separator, 2-way (option)
Radiation protection	Protective tunnel and security system
External radiation	< 1µSu/h
Working temperature	from -10˚C to 40˚C
Working humidity	30-90% non-condensing water vapor
Supply voltage	230VAC
Power consumption	1200W
Tightness class	IP65
Air pressure	6-8 bars
Housing material	Glass-blasted stainless steel

SELECTING AN X-RAY SCANNER

We select the type and type of X-Ray scanner accordingly with customer requirements. Product dimension must be inscribed in the detection cone according to the table below.

Model	SXRF-4080	SXRF-5080	SXRF-6080	SXRF-8040
Product height (A)	Product width (B)			
0 mm	400 mm	500 mm	600 mm	795 mm
10 mm	390 mm	489 mm	589 mm	785 mm
20 mm	380 mm	477 mm	576 mm	777 mm
30 mm	371 mm	466 mm	564 mm	768 mm
40 mm	361 mm	455 mm	552 mm	759 mm
50 mm	351 mm	443 mm	540 mm	750 mm
60 mm	341 mm	432 mm	528 mm	742 mm
70 mm	331 mm	420 mm	515 mm	733 mm
80 mm	322 mm	409 mm	503 mm	724 mm
90 mm	312 mm	398 mm	490 mm	716 mm
100 mm	302 mm	386 mm	478 mm	707 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	663 mm
160 mm	244 mm	218 mm	405 mm	-
170 mm	234 mm	307 mm	393 mm	-
180 mm	224 mm	295 mm	380 mm	-
190 mm	214 mm	284 mm	368 mm	-
200 mm	204 mm	272 mm	356 mm	619 mm
210 mm	194 mm	261 mm	344 mm	-
220 mm	185 mm	250 mm	331 mm	-
230 mm	-	239 mm	319 mm	-
240 mm	-	227 mm	307 mm	-
250 mm	-	216 mm	295 mm	576 mm
260 mm	-	-	282 mm	-
280 mm	-	-	258 mm	-
300 mm	-	-	233 mm	532 mm
350 mm	-	-	-	488 mm
400 mm	-	-	-	445 mm

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	DFI
Temperature and wetness control	Air conditioner	PFANNENBERG
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

TYPES OF SEPARATORS

Single separator

Movable separator trapdoor to reject products served loose in one row.

Double separator

Separator in the form of two movable recoil trapdoors products served in two rows independently.

Separator in the form falling conveyor

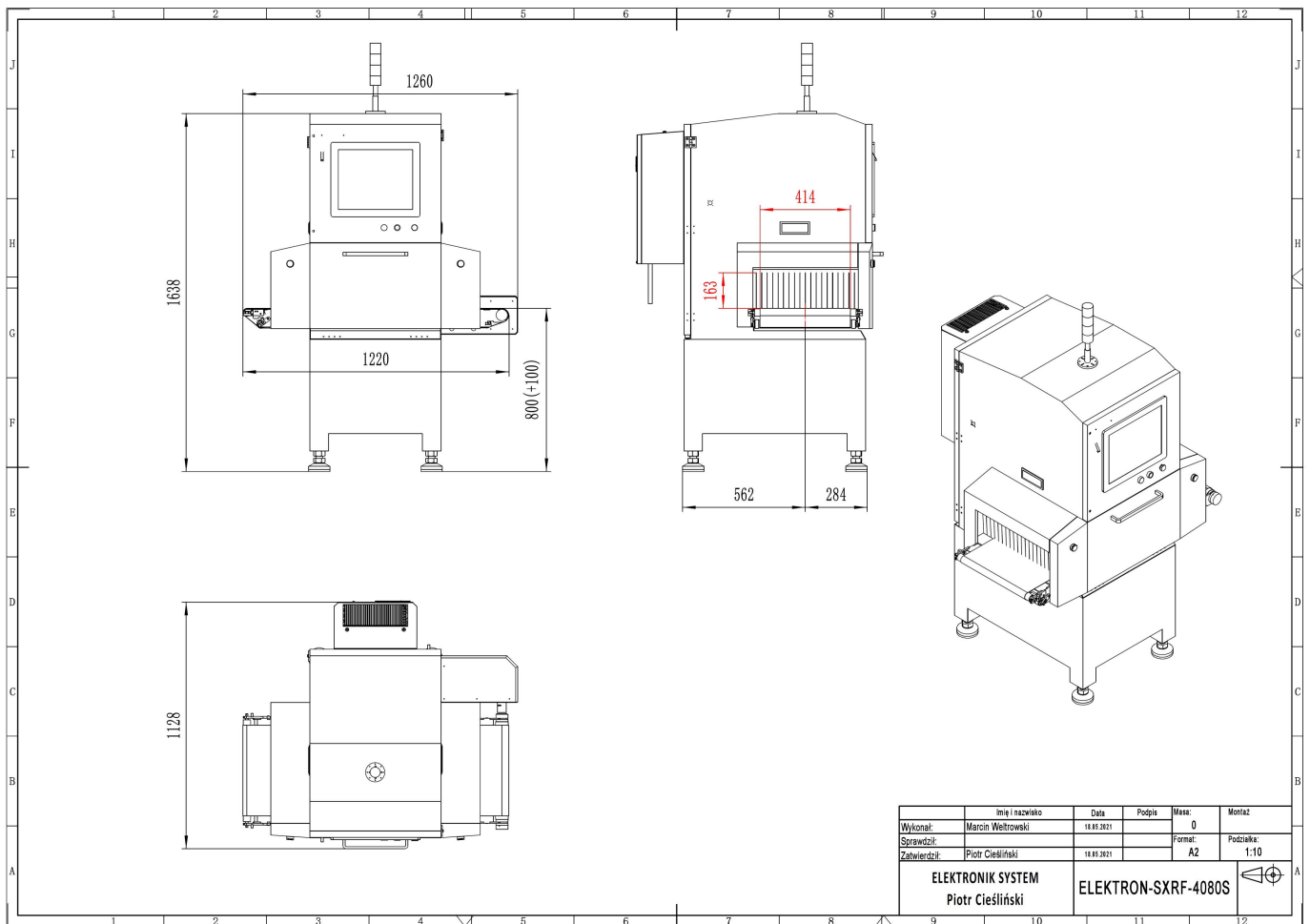Falling separator reject conveyor bulk products in one row, with an enclosed area and closed container key.

Pusher

Separator in the form of a pusher for the rejection of E1, E2 boxes and large and heavy bags and cartons.

TECHNICAL DRAWING OF THE ELEKTRON-SXRF-4080S SCANNER

	Imię i nazwisko	Data	Podpis	Masa:	Montaż
Wykonał:	Marcin Weltrowski	18.05.2021		0	
Sprawdził:				Format:	Podziałka:
Zatwierdził:	Piotr Cieśliński	18.05.2021		A2	1:10

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ELEKTRON-SXRF-4080S

OUR REALIZATIONS

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