ELEKTRONIK SYSTEM

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METAL DETECTORS FOR LARGE AND HEAVY PRODUCTS

➢ Dedicated metal detector for testing packaged products in chests E1, E2 (e.g. meat, fish) and large cardboard boxes.

➢ The machine can be equipped into roller separator for crates E1 and E2 or a ramp with bulldozer for large and heavy bags and cartons.

Model	ELEKTRON-MD	
Specification	5005, 5010, 5015, 5020 5025, 5030, 5035, 5040	6005, 6010, 6015, 6020 6025, 6030, 6035, 6040
Detection level — Fe	od Ø 1,0 mm	od Ø 1,0 mm
Detection level — NoFe	od Ø 1,2 mm	od Ø 1,2 mm
Detection level — St/st	od Ø 1,5 mm	od Ø 1,5 mm
Probe clearance working width	500 mm	600 mm
Probe clearance working height	50, 100, 150, 200 250, 300, 350, 400 mm	50, 100, 150, 200 250, 300, 350, 400 mm
The width of the conveyor belt	460 mm	560 mm
Maximum load	50 kg/m^2	50 kg/m^2
Transporter length	1500 mm (other length optional)	
Standard conveyor height	800+100 mm (other height optional)	
Operator Panel	HMI touch screen (analog buttons optional)	
Type of conveyor belt	Modular (polyurethane optional)	
The direction of the conveyor's work	Left to Right (Right to Left Optional)	
Type of control panel cover	Polycarbonate (optional stainless steel)	
sides	Fixed (optional adjustable)	
Pollution detection signaling	Optical-acoustic alarm and conveyor belt stop	
Conveyor belt speed	Adjustable in the range of 0-35 m/min (optionally fixed)	
"FROST" system	Option	
Power	230V, 50HZ	
Working temperature	0-45°C	
Material	Glass-blasted stainless steel	

APPLICATION

The **ELEKTRON**-MD metal detectors are dedicated mainly to the food industry. We offer devices designed for products packed and unpackaged (inclbulk) such as:
- meat, sausages - fresh and frozen,
- fish, seafood - fresh and frozen,
- dairy products,
- vegetables- fresh, frozen and processed,
- fruits - fresh, frozen and processed,
- bakery and confectionery products,
- ready meals, e.g. pizza,
- cereal products,
- spices,
- herbs,
- coffee beans, ground, soluble,
- sugar, salt,
- teas, dried fruit,
- nuts and dried fruits - mixtures ready for industry confectionery
- and wherever it is needed.

WHAT MAKES OUR DETECTORS DIFFERENT

- Lifetime warranty on probes (excluding electronics).
- Technical support by phone or e-mail.
- Warranty and post-warranty service within 24 h.
- Publicly available spare parts of known and reputable companies.
- Repair and modernization of equipment in accordance with requirements and expectations of our customers.
- Reactivation and improvement of all ours metal detectors, even the oldest ones, to the current generation.
- Consultations and training.
- Periodic inspections of our production equipment.
- Compliance with HACCP, CE system standards, IFS and NEC.

AUTO LEARNING SYSTEM

The **ELEKTRON**-MD series of detectors has a unique the self-learning system ticked in other detectors contactless. **Self-learning system** analyzes the tested product and automatically saves the detection parameters (e.g. the influence of the product and ambient background). Control detector the conveyor automatically moves the product through the detection probe window back and forth until graduation. This solution makes your work easier especially with heavy products. Thanks to this learning is much more accurate without interruptionand also increases the level of detection and stability metal detector operation.

AUTOCALIBRATION SYSTEM

Metal detectors of our production have built-in **auto-calibration system**, thanks to which devices do not require constant inspections service. The detection system accurately oscillates at the frequency of the test substance, he himself has variable values. management system, it is designed so that with each disconnecting the detector from the mains for about 15 minutes automatically performed background analysis and same system calibration after reboot.
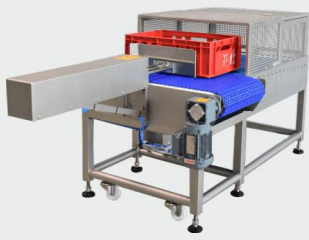
"FROST" SYSTEM

Our metal detectors can be equipped with unheard of in other detectors, the **system "FROST"** with a built-in intelligent heating and thermostat, inside the panel control that protects internal systems electronics against moisture and cold. It is the only protection against abrupt changes temperatures during washing and protects against absorption of moisture inwards (e.g. cold machine washed with hot water).

MAXIMUM DIMENSIONS OF TESTED PRODUCTS

ELEKTRON-MD	5005, 5010, 5015, 5020, 5025, 5030, 5035, 5040	6005, 6010, 6015, 6020, 6025, 6030, 6035, 6040
Height [mm]	50, 100, 150, 200, 250, 300, 350, 400	50, 100, 150, 200, 250, 300, 350, 400
Width [mm]	460	560

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TYPES OF RECOIL SYSTEMS

Bulldozer

Commonly used rejection system for packed products. We offer bulldozers for products from 1 kg to 60 kg.

A trapdoor in the form of a descending transporter

Reject system designed for long products with a closed area and a lockable container.

Roller separator for heavy products

Dedicated to E1, E2 crates and large cartons, etc.

Separator ES-MD-SEP-T-500

Intended for products packed in bags.

TYPES OF CONTAINERS FOR REJECTED PRODUCTS
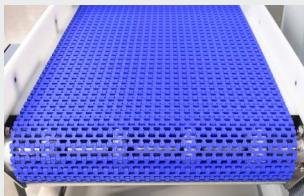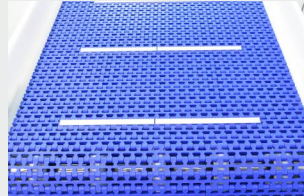
Hanging container that opens at the front.

Standing front opening bin for heavy products.

METAL DETECTOR EQUIPMENT

Modular tape
Used for work in difficult conditions conditions. Quick disassembly and possibility of easy washing of the tape makes it easy to keep the device in purity.

Modular tape with gripp
It has rubber grippers (rubber gripper) that improve product adhesion to surface to work with on ascending conveyors.

Polyurethane tape
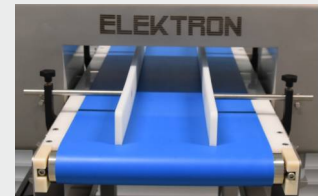It is used for transport of loose products or unpackaged products.

Polyurethane belt with wheels
Made of one element plastic so it doesn't fray and doesn't contaminates food, easy for cleaning.

Loose "easy clean" tape
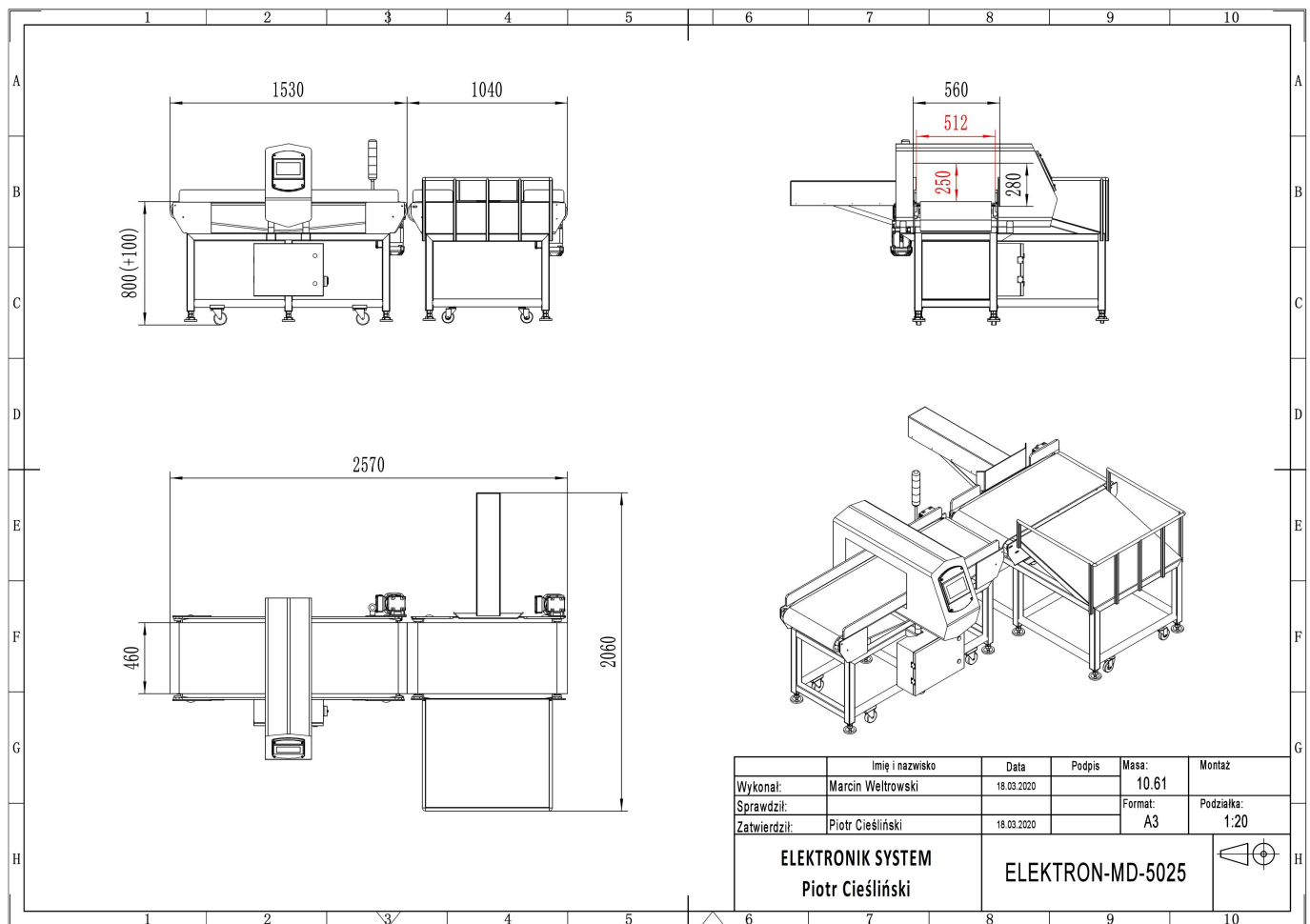Thanks to the use of a special detector design is possible loosening of the conveyor belt for easy cleaning of the tape and the entire machine.

Adjustable sides
They enable priming of the product, mainly used for no separator.

	Imię i nazwisko	Data	Podpis	Masa:	Montaż
Wykonał:	Marcin Weltrowski	18.03.2020		10.61	
Sprawdził:				Format:	Podziałka:
Zatwierdził:	Piotr Cieśliński	18.03.2020		A3	1:20
ELEKTRONIK SYSTEM **Piotr Cieśliński**		**ELEKTRON-MD-5025**			

OUR REALIZATIONS