



**ELEKTRONIK SYSTEM**

*Piotr Cieślinski*

ul. Ustronna 14  
89-606 Charzykowy

+48 608 34 34 34  
elektron@metaldetektor.pl

## METAL DETECTORS FOR LARGE AND HEAVY PRODUCTS

- ▶ Metal detector dedicated to the examination of products packed in E1, E2 boxes (e.g. meat, fish) and large cardboard boxes.
- ▶ What sets us apart:
  - 10-year warranty on the metal detector probe,
  - unparalleled non-contact autosensing system,
  - built-in auto-calibration system - no periodic maintenance required,
  - FROST" system,
  - high level of detection and stability of the device's operation.



Model		<b>ELEKTRON-MD</b>	
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
	NoFe	od Ø 1,2 mm	od Ø 1,2 mm
	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 <sup>2</sup>	50 kg/m <sup>2</sup>
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

**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 and fruits - fresh, frozen and processed,
- bakery and confectionery products,
- ready meals, e.g. pizza,
- cereal products,
- spices and herbs,
- coffee beans, ground, soluble,
- sugar, salt,
- teas, dried fruit,
- nuts and dried fruits - mixtures ready for industry confectionery
- and wherever necessary.

## SYSTEM FUNCTIONS

- Menu in Polish and English (standard).
- Optional menu in all other languages indicated by the client.
- Detection and alarm history, date and time.
- USB port for reading data to a pendrive.
- Memory function for testing 100 different ones products.
- Auto learning system.
- Automatic system self-calibration.
- Automatic correctness enforcement system detection.
- Stopping and reversing the tape upon detection metal - optional.
- Password protected access levels.
- Confirmation of discharge of contaminated product and full container signal.

## 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 interruption and also increases the level of detection and stability metal detector operation.

## AUTO CALIBRATION 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.

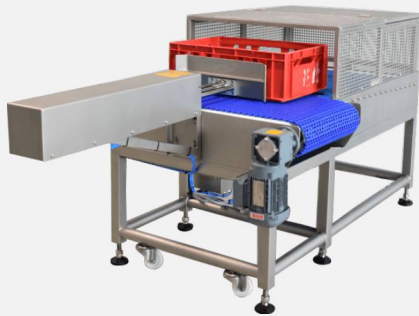
## "FROST" SYSTEM

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. Is it the only protection against abrupt changes temperatures during washing and protects against absorption of moisture inwards (e.g. coldmachine washed with hot water).

## MAXIMUM DIMENSIONS OF TESTED PRODUCTS

<b>ELEKTRON-MD</b>	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

## TYPES OF RECOIL SYSTEMS



### Pusher

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



### Roller separator for heavy products

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



### A trapdoor in the form of a descending transporter

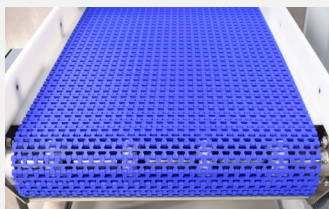
Reject system designed for long products with a closed area and a lockable container.



### Separator ES-MD-SEP-T-500

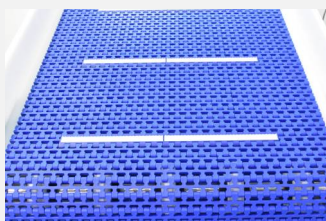
Przeznaczony do produktów zapakowanych w worki.

## EQUIPMENT FOR METAL DETECTORS



### Modular tape

Used for work in difficult 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.



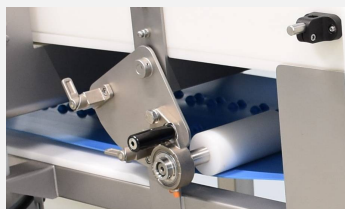
### Polyurethane tape

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.

