



**ELEKTRON SYSTEM**

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## NONSTANDARD METAL DETECTORS

- We realise customised designs for metal detectors for products to be milled (wolf), e.g. frozen food, meat and fish parts. Ideal for harsh environments.
- 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 stable operation.



Model	<b>ELEKTRON-MD</b>				
Detection level (depending on probe size)	Fe	od Ø 0,8 mm			
	NoFe	od Ø 1,0 mm			
	St/st	od Ø 1,2 mm			
Probe clearance working width	On customer's request from 260 mm to 1660 mm				
Probe clearance working height	On customer's request from 50 mm to 400 mm				
Standard conveyor 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 (loose) 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 - ready-to-use mixtures for the industry confectionery.
- and wherever it is needed.

## 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** that is used 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.

## 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).



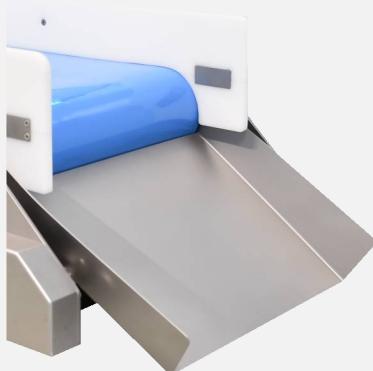
**Blower**

A very efficient and ergonomic system for light products up to 0.5 kg.



**Pusher**

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



**Trap**

Reliable recoil system for loose products.



**Flipper**

Fast recoil system to save installation space for products up to 2 kg.

## METAL DETECTOR EQUIPMENT



**Polyurethane belt with wheels**

Made of one element plastic so it doesn't fray and doesn't contaminate food, easy for cleaning.



**Loose "easy clean" tape**

Thanks to the use of a special detector design it is possible to loosen the conveyor belt for easy cleaning of the tape and the entire machine.

