



ELEKTRON SYSTEM

Piotr Cieślinski

ul. Ustronna 14
89-606 Charzykowy

+48 608 34 34 34
elektron@metaldetektor.pl

METAL DETECTORS FOR SMALL AND MEDIUM PRODUCTS

- ▶ Detector dedicated for testing small packaged products (e.g. meat, fish, vegetables, fruit). Can be prepared for product unpackaged bulk product in any configuration.
- ▶ What sets us apart:
 - 10-year warranty on the metal detector probe,
 - unparalleled non-contact autocalibration system,
 - built-in auto-calibration system- no periodic inspections,
 - FROST" system
 - high level of detection and stable operation of the device.



Model		ELEKTRON-MD		
Specification		2008	3008, 3012 3015, 3018	4008, 4012 4015, 4018
Detection level	Fe	od Ø 0,5 mm	od Ø 0,6 mm	od Ø 0,8 mm
	NoFe	od Ø 0,7 mm	od Ø 0,8 mm	od Ø 1,0 mm
	St/st	od Ø 0,8 mm	od Ø 1,0 mm	od Ø 1,2 mm
Probe clearance working width		200 mm	300 mm	400 mm
Probe clearance working height		80 mm	80 mm, 120 mm 150 mm, 180 mm	80 mm, 120 mm 150 mm, 180 mm
The width of the conveyor belt		160 mm	260 mm	360 mm
Maximum load		10 kg/m ²	15 kg/m ²	25 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

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.

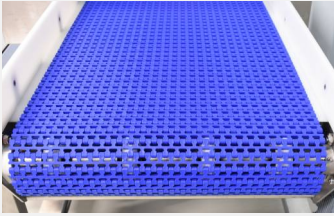
"FROST" SYSTEM

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. cold machine washed with hot water).

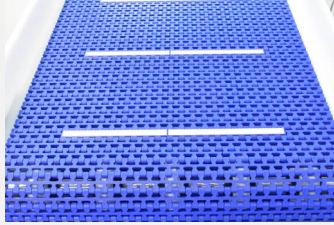
MAXIMUM DIMENSIONS OF TESTED PRODUCTS

ELEKTRON-MD	2005, 2008, 2010 2012, 2015	3005, 3008, 3010 3012, 3015, 3018, 3020	4005, 4008, 4010 4012, 4015, 4018 4020, 4025, 4030
Height [mm]	50, 80, 100 120, 150	50, 80, 100 120, 150, 180, 200	50, 80, 100 120, 150, 180 200, 250, 300
Width [mm]	160	260	360

EQUIPMENT FOR METAL DETECTORS



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



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



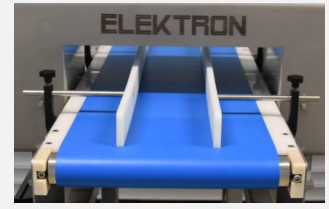
Polyurethane tape
is used for transport of loose products or unpackaged products.



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



Belt loosening
"easy clean" - thanks to the use special detector design it is possible to loosen the tape transporting.



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

TYPES OF RECOIL SYSTEMS



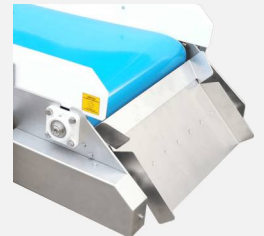
Blower
recoil system for lightweight products up to 0.5 kg



Pusher
for packaged products from 1kg to 60kg.



Trap
Reliable rejection system for loose products served loose.



TYPES OF CONTAINERS FOR REJECTED PRODUCTS



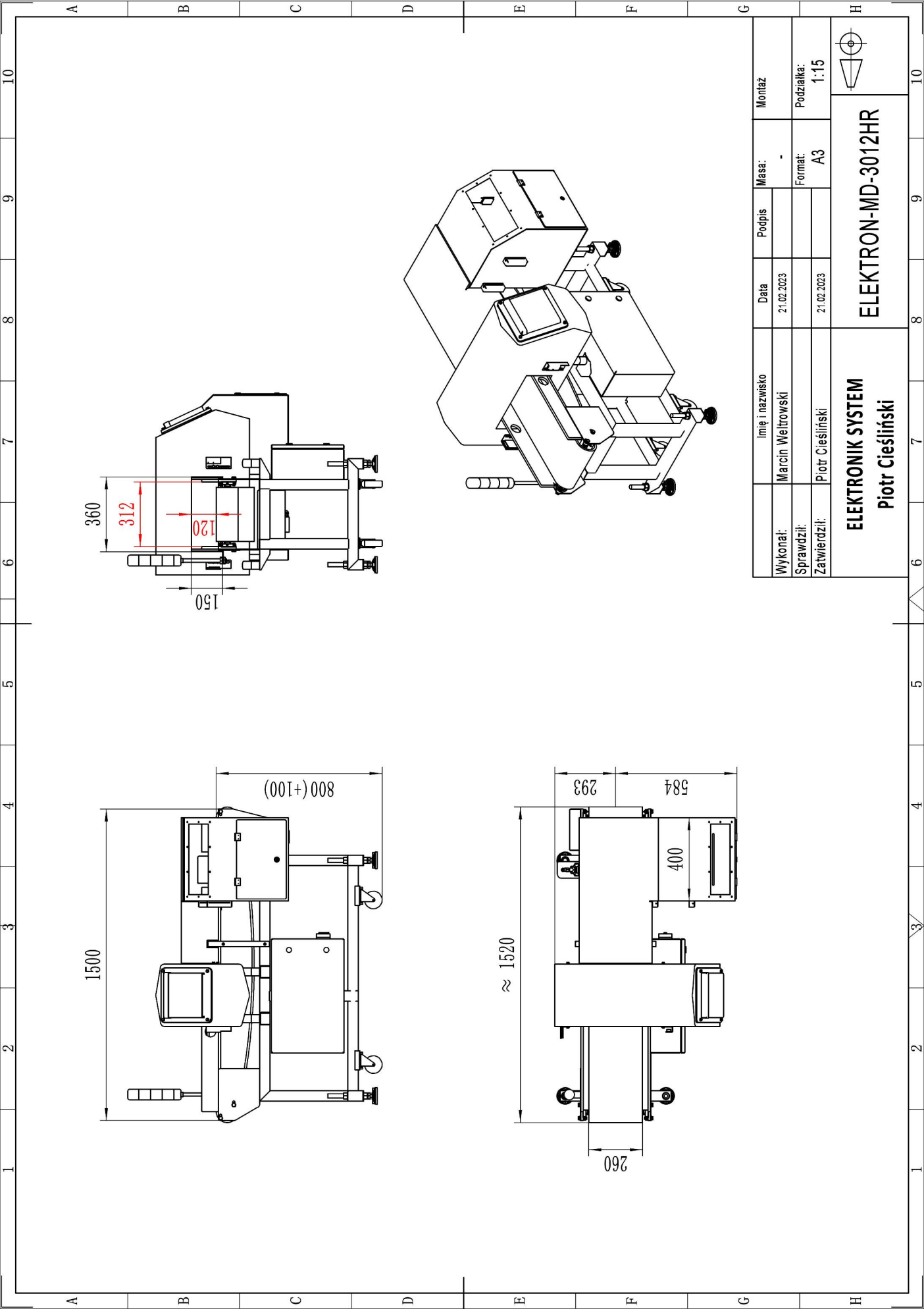
Hanging container that opens at the front



Hanging container opened from the top



Standing container that opens at the front



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