

Conveyor Belt Metal Detector

The first DSP metal detector with Intellectual Property Rights in China

Suitable for metal contaminants detection in various industries like: Aquatic Products, Meat & Poultry, Salted Products, Pastry, Nuts, Vegetables, Chemical Raw Materials, Pharmacy, Cosmetics, Toys.

Metal Detector IMD-I Series

Detecting all metal contaminants in packaged and non-packaged food, including ferrous metal(Fe), non-ferrous metals(Copper, Aluminum etc.) and Stainless Steel.



Test Samples

Stable and high sensitivity	rest samples						
	Mature phase adjustment technology, avoiding shortcomings like no phase of LC analog circuit, low stability, without products suppression function and machine aging caused by time and temperature.						
Auto-setting function							
	Fast learn product character automatically and finish Auto- setting process.						
User friendly function ————————————————————————————————————							
cool monary randice.	Automatic rewind function, dispense with handling large products.52 products can be restored in database.						
Dust and water proof, easy to be cleaned	LCD, Chinese–English menu, easy operation.						

Metal Detectors IMD-II Series

Based on IMD-I series, IMD-II series increase the functions of phase tracking, product tracking, auto-balanced calibration, and the craft of stainless steel mirror surface processing etc, which has improved sensitivity and stability greatly.

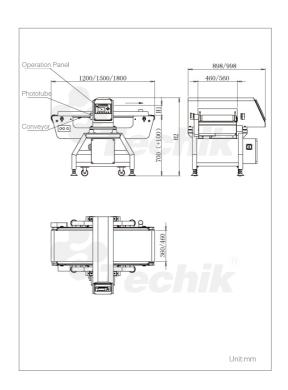


On-line Detection

New Function	
	 Phase tracking function, which can maintain the stable high—se nsitivity detection ability. Product tracking function, which can do adjustment and compensation according to the changes of the product effect automatically. Auto—balanced calibration function, which can ensure the service life of the machine.
Hardware Structure Optimization ————	
	Applying high functional FPGA plan with single chip machine.
User Friendly Function ————————————————————————————————————	
IP66 Dust and Water Proof	 Stainless steel mirror surface, easy design. Above 100 products can be restored in product database. USB and Ethernet interfaces are available.







Model		IMD-I		IMD-II				
Specification	S	4008, 4012 4015,4018	5020,5025	4008,4012 4015,4018 5020,5025				
Detection Wid	lth	400mm	500mm	400mm 500mm				
Data etian Hai		80mm,120mm	200mm	80mm,120mm	200mm			
Detection Hei	gnt	150mm,180mm	250mm	150mm,180mm	250mm			
	F	Φ0.5mm, Φ0.6mm	Φ1.0mm	Ф0.5mm, Ф0.6mm	Ф1.0mm			
Considinida	Fe	Φ0.7mm, Φ0.8mm	Φ1.2mm	Φ0.7mm, Φ0.8mm	Φ1.2mm			
Sensitivity	SUS304	Φ1.0mm, Φ1.2mm	Ф2.0mm	Φ0.8mm, Φ1.0mm	Φ1.5mm			
	303304	Φ1.5mm, Φ2.0mm	Ф2.5mm	Φ1.2mm, Φ1.5mm	Ф2.0mm			
Belt Width		360mm	460mm	360mm	460mm			
Loading Capa	city	5kg~10kg	20kg~100kg	5kg~10kg 20kg~100kg				
Display Mode		LCD	LCD Liquid Crystal (FDM touch screen is optional)					
Operation Mo	de		Button Input (touch input is optional)					
Product Stora	ge Quantity	52 kinds						
Packing Form		Standard plastic or cardboard, metal film (aluminum) and bulk						
Conveyor Belt		Food Grade PVC (PU and Chain Conveyor are optional)						
Belt Speed		Fixed 25m/min (Variable speed is optional)						
Alarm		Alarm and belt stops (Alarm lamp and rejecter are optional)						
Power Supply		AC220V (Optional)						
Main Materia]	SUS304						

- 1 The technical parameter above namely is the result of sensitivity by detecting only the test sample on the belt. The concrete sensitivity would be affected according to the products being detected, working condition and also the different positions the metal mixed with.
- 2 Requirements for different sizes by customers can be fulfilled.



Gravity Fall Metal Detector

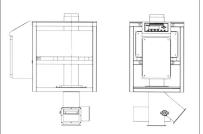
The first digital gravity fall metal detector in China, suitable for the Powder, Granule or other forms of products.

Metal Detector IMD-I-P Series

- · Compact design, small occupied space.
- · Rapid rejecting mechanism, to reduce the waste of the materials.
- In line with the GMP requirements, easy to install and to clean,
- Circuit design is more stable than traditional analog machine and also a higher sensitivity.
- Special design of the mechanical structure, to effectively avoid the external interference like vibration, noise, product effect, etc.

Model			IMD-I-P				
Detection Diameter[mm]	Detection Capacity t/h²	Alarm Mode	Pressure Requirements	Power Supply	Main Material	Sensi	tivity¹ [mm]
						Fe	SUS
75	3	Automatic Flap Rejecter		AC220V (Optional)	Stainless Steel (SUS304)	0.5	1.2
100	5		0.5Mpa≥			0.7	1.5
150	10					0.8	1.5





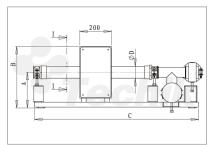
Note:

- 1 The technical parameter above namely is the result of sensitivity by detecting only the test sample on the belt. The sensitivity would be affected according to the products being detected, working condition and also the different positions the metal mixed with.
- 2 Detecting capacity per hour is related with product weight, the value of the table is according to the density of water (1000kg /m3).
- 3 Requirements for different sizes by customers can be fulfilled.

Metal Detector for Sauce

High stability and sensitivity, suitable for the Pump Pressure Fluid and Semi-fluid Product, Sauce, Liquid etc.





Metal Detector IMD-I-L Series

- Automatic product identification technology, powerful ability to suppress product effect.
- Easy to be integrated in existing sealed pipe system.
- · Compact design, small occupied pipe length.
- Teflon food grade inner tube, high temperature and pressure resistance.
- Fast and accurate rejection valve, not only suitable for the high speed fluid, but also for slow viscous products, less material loss.

Model	IMD-I-L						
Detection Diameter[mm]	Alarm Pressure Power Main Inner Pipe Mode Requirements Supply Material Material						
						Fe	SUS
50	Automatic Valve Rejecter	0.5Mpa≥	AC220V (Optional)	Stainless Steel (SUS304)	Food Grade Teflon Tube	0.5	1.2
63						0.6	1.5
80						0.8	2.0

Note

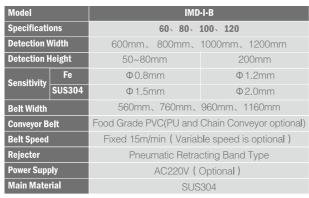
- 1 The technical parameter above namely is the result of sensitivity by detecting only the test sample on the belt. The sensitivity would be affected according to the products being detected, working condition and also the different positions the metal mixed with.
- 2 Detection volume per hour is related with product weight and speed.
- 3 Requirements for different sizes by customers can be fulfilled.

Metal Detector for Biscuits

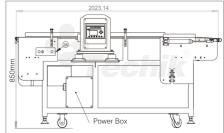
Professional metal detection in bakery, special design for the concrete biscuit production line, high sensitivity and stability detection of Ferrous metal(Fe), Non-Ferrous metals(Copper, Aluminum) and Stainless Steel.

Metal Detector IMD-I-B Series

- Seamless connection for docking with the various types of production lines .
- Unique design of pneumatic retracting band type rejecter, parallel reject ing to prevent the products from being disordered.
- · High temperature resistance.
- · Simple to disassemble, easy to clean .







Note:

- 1 The technical parameter above namely is the result of sensitivity by detecting only the test sample on the belt. The sensitivity would be affected according to the products being detected, working condition and also the different positions the metal mixed with.
- 2 Requirements for different sizes by customers can be fulfilled.

Metal Detector for Medicine

Suitable for being installed after some pharmaceutical equipments like the tablet press machine, the capsule filling machine and the sieve machine. High sensitivity and stability detection of Ferrous metal (Fe),Non–Ferrous metals (Copper, Aluminum) and Stainless Steel.

Metal Detector IMD-I-M Series

- High frequency running mode, greatly enhance the detection sensitivity.
- · Accurate and efficient rejecter, less material loss.
- In line with pharmaceutical standards and regulations, in accordance with the GMP standard.
- Touch-screen displays, easy to set up and operate.
- · Adjustable height and angle of the device, easy to be moved casters.

Model		IMD-I-M						
Detection Widt	Detection Width		70mm 100mm 150mm					
Detection Heig	ht	20mm 25mm 35mm						
Sensitivity	Fe Fe		≥ Φ 0.6mm					
Sensitivity	SUS304	≥ Φ0.8mm						
Display Mode		TFT Touch Screen						
Operation Mod	e	Touch Input						
Product Storag	e Quantity	99kinds						
Channel Mater	ial	Food Grade Plexiglass						
Rejecter		Automatically Rejected						
Power Supply		AC220V (Optional)						
Pressure Requ	ressure Requirements 0.5Mpa ≥							
Main Material		SUS304						



Note

- 1 The technical parameter above namely is the result of sensitivity by detecting only the test sample on the belt. The sensitivity would be affected according to the products being detected, working condition and also the different positions the metal mixed with.
- 2 Requirements for different sizes by customers can be fulfilled.