

# 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, etc.



Bearing



Green button



Alarm light



Shaft



Inverter



Motor



Relay



Photo tube

## Metal Detector IMD Series

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

### Stable and High Sensitivity

- Special phase adjusting technology
- High sensitivity with stable performance
- Auto balance function



### High Configuration

- Touch screen
- USB port
- Dual-frequency
- Customized rejecter system
- Different surface treatment



### User-friendly Function

- Multi languages
- Customization
- Large memory capacity



### Auto-learning Function

- Auto-learning product character
- Finish auto-learning process very soon





## Conveyor Belt Metal Detector

Model		IMD		
Specifications		4008,4012 4015,4018	5020,5025 5030,5035	6025,6030
Detection Width		400mm	500mm	600mm
Detection Height		80mm,120mm 150mm,180mm	200mm,250mm 300mm,350mm	250mm 300mm
Sensitivity	Fe	Φ0.5mm,Φ0.6mm	Φ0.8mm, Φ1.0mm	Φ1.2mm
		Φ0.7mm,Φ0.8mm	Φ1.2mm, Φ1.5mm	Φ1.5mm
	SUS304	Φ1.0mm,Φ1.2mm	Φ2.0mm, Φ2.5mm	Φ2.5mm
		Φ1.5mm,Φ2.0mm	Φ2.5mm, Φ3.0mm	Φ3.0mm
Belt Width		360mm	460mm	560mm
Loading Capacity		5kg~10kg	20kg~50kg	25kg~100kg
Display Mode		LCD display panel (FDM touch screen optional)		
Operation Mode		Button input (Touch input optional)		
Product Storage Quantity		52 kinds (100 kinds with touch screen)		
Conveyor Belt		Food Grade PU(chain conveyor optional)		
Belt Speed		Fixed 25m/min (Variable speed optional)		
Rejecter Mode		Alarm and belt stop (Rejecter optional)		
Power Supply		AC220V (Optional)		
Main Material		SUS304		
Surface Treatment		Brushed SUS, Mirror polished, Sand blasted		

**Note:**

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 speed.
2. Requirements for different sizes by customers can be fulfilled.



## Metal Detector for Biscuits

With unique design of pneumatic retracting band type rejecter to prevent the product from being disordered, this type of metal detector is widely used in different biscuits and sweets production lines.

Model	IMD-B				
Specifications	60	80	100	120	
Detection Width	600mm	800mm	1000mm	1200mm	
Detection Height	50~80mm				
Sensitivity	Fe	Φ0.7mm	Φ0.8mm	Φ1.0mm	Φ1.2mm
	SUS304	Φ1.5mm	Φ1.5mm	Φ2.0mm	Φ2.5mm
Belt Width	560mm	760mm	960mm	1160mm	
Conveyor Belt	Food grade PU				
Belt Speed	15m/min (Variable speed optional)				
Rejecter Mode	Pneumatic retracting band type				
Power Supply	AC220V (Optional)				
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 speed.
2. Requirements for different sizes by customers can be fulfilled.



## Metal Detector for Pharmacy

High sensitivity and stability detection of ferrous metal (Fe), non-ferrous metals (Copper, Aluminum) and stainless steel, this type of machine is suitable to be installed after some pharmaceutical equipment like the tablet press machine, the capsule filling machine and the sieve machine.

Model	IMD-M80	IMD-M100	IMD-M150
Detection Width	72mm	87mm	137mm
Detection Height	17mm	15mm	25mm
Sensitivity	Fe	Φ0.3-0.5mm	
	SUS304	Φ0.6-0.8mm	
Display Mode	TFT touch screen		
Operation Mode	Touch input		
Product Storage Quantity	100kinds		
Channel Material	Food grade plexiglass		
Rejecter Mode	Automatic rejection		
Power Supply	AC220V (Optional)		
Pressure Requirement	≥0,5Mpa		
Main Material	SUS304(Product contact parts: SUS316)		

**Note:**

1. The technical parameter above namely is the result of sensitivity by detecting only the test sample inside the channel. The sensitivity would be affected according to the products being detected and working condition.
2. Requirements for different sizes by customers can be fulfilled.

# Gravity Fall Metal Detector

With compact design and small occupied space, this type of metal detector is suitable for the detection of powder, granule or other forms of bulk products.



Model	IMD-P						Sensitivity'Φd (mm)	
Detection Diameter (mm)	Detection Capacity t/h <sup>2</sup>	Rejecter Mode	Pressure Requirement	Power Supply	Main Material	Fe	SUS	
50	1	Automatic flap rejecter	0.5Mpa≥	AC220V (Optional)	Stainless steel (SUS304)	0.5	1.2	
75	3					0.5	1.2	
100	5					0.7	1.5	
150	10					0.7	1.5	

**Note:**

1. The technical parameter above namely is the result of sensitivity by detecting only the test sample inside the pipe. The sensitivity would be affected according to the products being detected and working condition.
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

Easy to be integrated in existing sealed pipe system, this type of metal detector is suitable for the pump pressure fluid and semi-fluid product like sauce, liquid, etc.



Model		IMD-L					Sensitivity'Φd (mm)	
Detection Diameter (mm)	Rejecter Mode	Pressure Requirement	Power Supply	Main Material	Inner Pipe 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						0.7	1.5	

**Note:**

1. The technical parameter above namely is the result of sensitivity by detecting only the test sample inside the pipe. The sensitivity would be affected according to the products being detected and working condition.
2. Detecting volume per hour is related with product weight and speed.
3. Requirements for different sizes by customers can be fulfilled.

# High Configuration Conveyor Belt Metal Detector



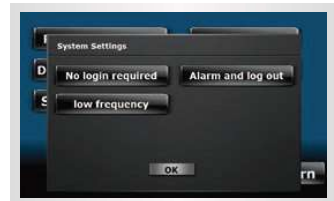
- Frequency-selecting function, two frequencies can be chosen to match different products
- Dual-detection system ensures Fe and Sus achieve its best sensitivity
- Auto-balance function ensures stable detection

Model		IMD-H		
Specifications		4008,4012 4015,4018	5020,5025 5030,5035	6025,6030
Detection Width		400mm	500mm	600mm
Detection Height		80mm,120mm 150mm,180mm	200mm,250mm 300mm,350mm	250mm 300mm
Sensitivity	Fe	Φ0.5mm,Φ0.6mm Φ0.7mm,Φ0.8mm	Φ0.8mm, Φ1.0mm Φ1.2mm, Φ1.5mm	Φ1.2mm Φ1.5mm
	SUS304	Φ0.9mm,Φ1.2mm Φ1.5mm,Φ2.0mm	Φ2.0mm, Φ2.5mm Φ2.5mm, Φ3.0mm	Φ2.5mm Φ3.0mm
Belt Width		360mm	460mm	560mm
Loading Capacity		≤10kg	≤50kg	≤100kg
Display Mode		Touch screen		
Operation Mode		Touch input		
Product Storage Quantity		100 kinds		
Frequency		Dual-frequency		
Checking Channel		Double channel checking		
Belt Speed		Variable speed		
Rejecter Mode		Alarm and belt stop (Rejecter optional)		
IP Level		IP54/IP65		
Mechanical Design		Round frame, easy wash		
Surface Treatment		Brushed stainless steel, Sand blasted		

**Note:**

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 speed.
2. Requirements for different sizes by customers can be fulfilled.

### Low Frequency



### High Frequency

