

Food and Pharmaceutical Industry Contamination Inspection Solution



- X-Ray Inspection Solution
- Metal Detection
- Checkweigher



Innovation



High Efficiency



Cost Save



Good Service

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About TTPACK

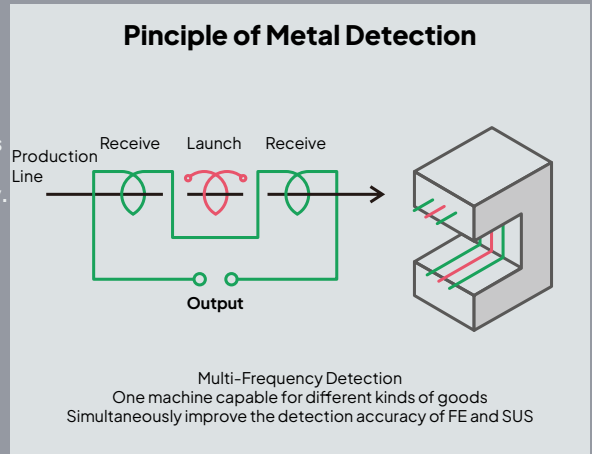


Conducting the philosophy of developed and manufactured in Vietnam with world quality, TTPACK strictly adhere to high indicators and quality to help customers create more value, by providing international advanced intelligent detection technology and system solutions.

- National New Technology Enterprise.
- Focus on high-resolution intelligent identification and detection technology.
- Transformation of advanced technological achievements of Vietnam Institute of Atomic Energy.
- The TTPACK core team has nearly 20 years of experience in the field of X-ray inspection.
- The company owns dozens of intellectual property rights.
- High-tech Enterprise.

Metal Detection

The Vixdetect multi-frequency metal detection systems based on electromagnetic induction principle, are to detect metal contaminations in food and pharmaceutical. The system adopts the dynamic phase adjustment technology, which can effectively inhibit the product effect. It can not only detect conventional dry or semi-dry products, but also effectively detect various products that are difficult to detect and rich in salt, such as products, salted products, products and so on, with high sensitivity and great reliability.



High Sensitivity for FE, NFE and SUS





Metal Detector | GEN II

A conveyor metal detector is a device specifically designed for automated production lines, capable of real-time detection of metallic objects during the transportation of products. It is widely used in industries such as food, pharmaceuticals and packaging.



X-RAY Inspection System

Metal Detector

CheckWeigher

Metal Contaminants **Inhibit product effects**



Ferrous



SUS



Copper



Aluminium



Tin

Detector Model

Take VMD-C2508 as an example, Detectable Width is 25cm, Detectable Height is 8cm.

Item	Detectable Width, cm								
	25	30	40	50	60	70	80	90	110
Models	VMD-C2506	VMD-C3008	VMD-C4006	VMD-C5008	VMD-C6008	VMD-C7008	VMD-C8005	VMD-C9015	VMD-C11007
	VMD-C2508	VMD-C3010	VMD-C4008	VMD-C5010	VMD-C6010	VMD-C7010	VMD-C8008		
	VMD-C2510	VMD-C3012	VMD-C4010	VMD-C5012	VMD-C6012	VMD-C7012	VMD-C8010		
	VMD-C2512	VMD-C3015	VMD-C4012	VMD-C5015	VMD-C6015	VMD-C7015	VMD-C8012		
	VMD-C2515	VMD-C3018	VMD-C4015	VMD-C5018	VMD-C6018	VMD-C7018			
		VMD-C3020	VMD-C4018	VMD-C5020	VMD-C6020	VMD-C7020			
			VMD-C4020	VMD-C5022	VMD-C6025	VMD-C7022			
			VMD-C4022	VMD-C5025	VMD-C6028	VMD-C7025			
			VMD-C4025	VMD-C5028	VMD-C6030	VMD-C7030			
				VMD-C5030	VMD-C6035				
				VMD-C6040					

Specification

Parameter Setting	Fully automatic learning without manual phase setting
Frequency	4 Frequency, 50K~800K
Working mode	Dry, wet, salt, aluminized film and other modes
Product recipe storage	200 groups
HMI	7-inch touch screen
Operating system	Embedded RTOS
Conveyor speed	Software speed control 5~60 m/min
Alarm mode	Audible and visual alarm/alarm stop/automatic sorting system (optional)
Conveyor belt height	800±50mm
Conveyor belt material	Food grade PU tape/chain plate (optional)
Temperature and humidity	Ambient temperature 0~45°C , relative humidity 30~ 85% no condensation
IP Grade	Machine IP66, motor IP67
Equipment and material	304 stainless steel
External interface	USB/ Network port /RS232 serial port /RS485/4G remote/unattended production line Support (optional)



Pipeline Metal Detector

A gravity-feed metal detector is a device used to detect metal contaminants in products, operating on the principle of allowing products to fall into the detection area under gravity. As products pass through, built-in sensors detect the presence of metal contaminants. Upon detecting metal contaminants, the equipment triggers an alarm and separates the affected products from the production line to ensure product quality and process safety.



Features

- **Versatility:** Integrates multiple product inspection modes, including dry, wet, salt-containing, and aluminum-coated products, suitable for various scenarios.
- **Multi-frequency Combination:** Built-in with four frequencies, allowing real-time synchronous detection with any dual-frequency combination to ensure optimal detection frequencies for both iron and steel.
- **Automatic Learning:** Learning completed after two passes of good products, automatically calculating phase and other parameters without the need for manual adjustment of complex settings.
- **Effect Suppression:** Special algorithm for suppressing subtle product effects, effectively suppressing heavy salt-containing product effects to ensure detection accuracy.
- **Easy Operation:** Equipped with a color LCD touchscreen, featuring an intuitive and convenient human-machine interface with synchronized display of four frequencies data.
- **Stability and Reliability:** Utilizes waterproof variable-speed motors and overall sealing technology for the probe, ensuring stable and reliable operation with SGS IP66 certification.
- **Built-in Frequency Hopping:** Microscopic frequency hopping technology can counter interference from large electrical equipment such as on-site packaging machines, reducing false alarms.
- **Flexible Expansion:** Embedded operating system within the mainboard supports expansion via USB, printer, and network communication.

Specification for VMD-P pipe-line series

Parameter Setting	VMD-P30	VMD-P50	VMD-P100
Diameter (mm)	30	50	100
Sensitivity	Fe ≥ Ø0.4mm	Fe ≥ Ø0.5mm	Fe ≥ Ø0.8mm
	Sus ≥ Ø1.0mm	Sus ≥ Ø1.2mm	Sus ≥ Ø1.5mm
Power supply	AC 220V 50-60Hz		
Parameter setting	Auto learning		
Recipe count	200 sets		
Pressure	≤ 1MPa		
Weight	150	170	210
Product type	Liquid, Sause		
Compressed Air	≥ 0.5MPa		
Rejector	Ball valve		
Tube material	Teflon		
HMI	7-inch touch screen		
Operation system	Embedded RTOS		
IP Grade	IP66		
Device material	SUS 304		
Communication port	USB/Ethernet/RS232/RS485/4G wireless/Auto factory (optional)		



Free Fall Metal Detector

A gravity-feed metal detector is a device used to detect metal contaminants in products, operating on the principle of allowing products to fall into the detection area under gravity. As products pass through, built-in sensors detect the presence of metal contaminants. Upon detecting metal contaminants, the equipment triggers an alarm and separates the affected products from the production line to ensure product quality and process safety.

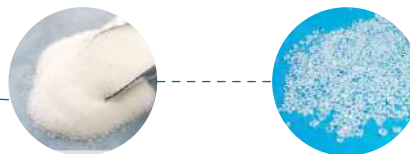


Features

- **Versatility:** Integrates multiple product inspection modes, including dry, wet, salt-containing, and aluminum-coated products, suitable for various scenarios.
- **Multi-frequency Combination:** Built-in with four frequencies, allowing real-time synchronous detection with any dual-frequency combination to ensure optimal detection frequencies for both iron and steel.
- **Automatic Learning:** Learning completed after two passes of good products, automatically calculating phase and other parameters without the need for manual adjustment of complex settings.
- **Effect Suppression:** Special algorithm for suppressing subtle product effects, effectively suppressing heavy salt-containing product effects to ensure detection accuracy.
- **Easy Operation:** Equipped with a color LCD touchscreen, featuring an intuitive and convenient human-machine interface with synchronized display of four frequencies data.
- **Stability and Reliability:** Utilizes waterproof variable-speed motors and overall sealing technology for the probe, ensuring stable and reliable operation with SGS IP66 certification.
- **Built-in Frequency Hopping:** Microscopic frequency hopping technology can counter interference from large electrical equipment such as on-site packaging machines, reducing false alarms.
- **Flexible Expansion:** Embedded operating system within the mainboard supports expansion via USB, printer, and network communication.

Application

- Powder granule products



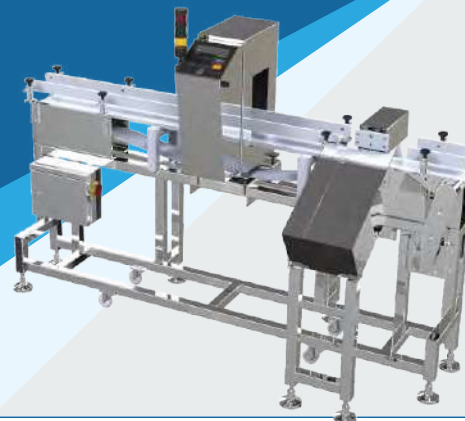
Specification

Parameter Setting	VMD-F75	VMD-F100	VMD-F150	VMD-F200
Diameter (mm)	75	100	150	200
Sensitivity	Fe ≥ Ø0.5mm	Fe ≥ Ø0.6mm	Fe ≥ Ø0.8mm	Fe ≥ Ø1.0mm
	Sus ≥ Ø0.8mm	Sus ≥ Ø1.0mm	Sus ≥ Ø1.5mm	Sus ≥ Ø2.0mm
Power supply	AC 220V 50-60Hz			
Parameter setting	Auto learning			
Recipe count	200 sets			
Throughput(L/H)	7000	8000	17000	19000
Weight	120	140	160	180
Product type	Powder, granular products			
Compressed Air	≥ 0.5MPa			
Rejector	High speed flap			
Tube material	PP			
HMI	7-inch touch screen			
Operation system	Embedded RTOS			
IP Grade	IP66			
Device material	SUS 304			
Communication port	USB/Ethernet/RS232/RS485/4G wireless/Auto factory (optional)			



Vertical Metal Detector

Vertical metal detector is a device used for detecting metal foreign bodies in products, featuring a vertical structure. It employs advanced sensing technology to swiftly and accurately identify metal contaminants within products. This equipment boasts high sensitivity and reliability, capable of detecting minute metal particles to ensure product quality and process safety.



Features

- **Versatility:** Integrates multiple product inspection modes, including dry, wet, salt-containing, and aluminum-coated products, suitable for various scenarios.
- **Multi-frequency Combination:** Built-in with four frequencies, allowing real-time synchronous detection with any dual-frequency combination to ensure optimal detection frequencies for both iron and steel.
- **Automatic Learning:** Learning completed after two passes of good products, automatically calculating phase and other parameters without the need for manual adjustment of complex settings.
- **Effect Suppression:** Special algorithm for suppressing subtle product effects, effectively suppressing heavy salt-containing product effects to ensure detection accuracy.
- **Easy Operation:** Equipped with a color LCD touchscreen, featuring an intuitive and convenient human-machine interface with synchronized display of four frequencies data.
- **Stability and Reliability:** Utilizes waterproof variable-speed motors and overall sealing technology for the probe, ensuring stable and reliable operation with SGS IP66 certification.
- **Built-in Frequency Hopping:** Microscopic frequency hopping technology can counter interference from large electrical equipment such as on-site packaging machines, reducing false alarms.
- **Flexible Expansion:** Embedded operating system within the mainboard supports expansion via USB, printer, and network communication.

Application

- Packed goods delivered upright
- Canned and boxed products



Specification

Parameter Setting	L1027	L1532	L2032
Frequency	4 Frequency, 50K~800K		
Working mode	Dry, wet, salt, aluminized film and other modes		
Product recipe storage	200 groups		
HMI	7-inch touch screen		
Operating system	Embedded RTOS		
Conveyor speed	Software speed control 5-60 m/min		
Alarm mode	Audible and visual alarm/alarm stop/automatic sorting system (optional)		
Conveyor belt height	800±50mm		
Conveyor belt material	Food grade PU tape/chain plate (optional)		
Temperature and humidity	Ambient temperature 0~45°C , relative humidity 30~ 85% no condensation		
IP Grade	Machine IP66, motor IP67		
Equipment and material	304 stainless steel		
External interface	USB/ Network port /RS232 serial port /RS485/4G remote/unattended production line Support (optional)		
Sensitivity	Fe≥Φ0.4mm	Fe≥Φ0.5mm	Fe≥Φ0.8mm
	Sus≥Φ1.0mm	Sus≥Φ1.2mm	Sus≥Φ1.5mm

● Rejector

The sorting machine is used together with the food foreign matter detection system. The contaminants detection system provides an alarm signal to control the rejector to remove the defective products from the conveyor line and avoid flowing into the next production link.

Use cylinder or electric cylinder drive, a variety of sorting methods are optional, suitable for a variety of products.

High precision, eliminate fast, improve the qualified rate of products, reduce user complaints.

Reinforced stainless steel frame with high waterproof rating.

All contact parts are made of food grade materials to ensure that the product is not contaminated.

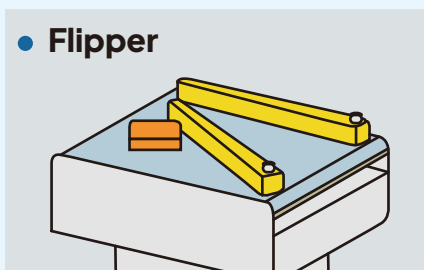
Used in all kinds of automatic assembly line and logistics conveying system.

Widely used in pharmaceutical, food and other industries online sorting.

It can directly replace manual sorting to improve production efficiency and reliability.

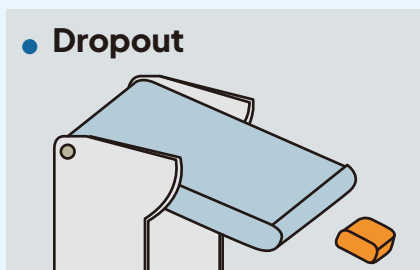
■ Type of Rejectors

● Flipper



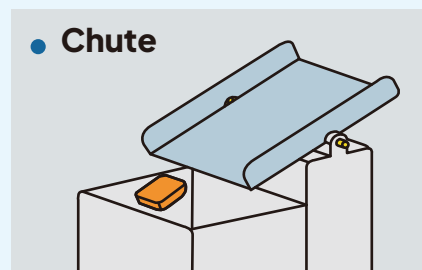
Use left and right swinging arm to sort the product under test, suitable for thicker products.

● Dropout



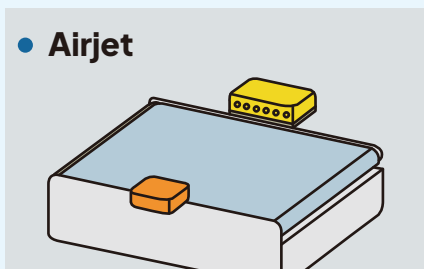
Use up and down swinging conveyor to sort the products under test, suitable for lighter products.

● Chute



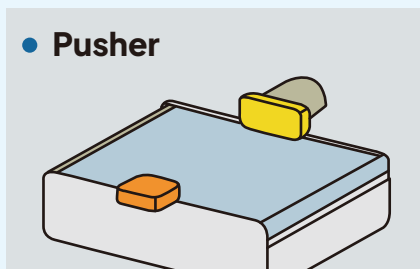
Use an up-and-down flip plate to sort the product under test, suitable for bulk food.

● Airjet



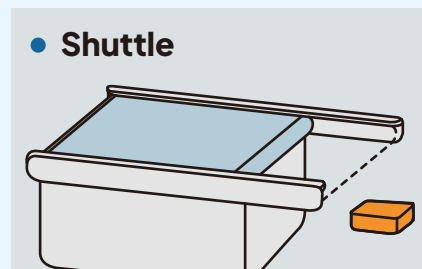
Use high pressure air to separate the tested products, suitable for light food or bulk food.

● Pusher



The push rod driven by the cylinder is used to sort the product under test, which is suitable for medium and large packaging products.

● Shuttle



Use a telescopic conveyor to sort the product under test, suitable for small packaging or sticky bulk food