

## Food and Beverage Industry Contamination Inspection Solution

· Metal Detector



Innovation



High Efficiency



Cost Save



Good Service

**TTPACK TRADING & TECHNICAL SERVICES COMPANY LIMITED**

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# About TTPACK



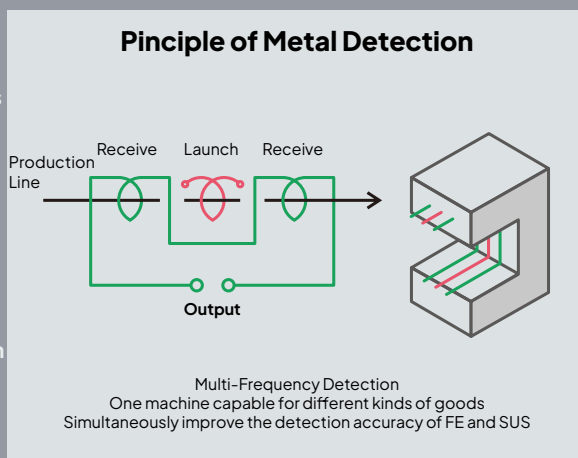
**Conducting the philosophy of developed and manufactured in Vietnam with world quality, TTPACK strictly adhere to high indicators and quality to help customers create more value, by providing international advanced intelligent detection technology and system solutions.**

- **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

Metallic impurities in your product can always occur, no matter how careful your processes are. It is critical to remove metal contaminants before they damage production machinery or even the customer. TTPACK Inspection is pleased to offer several metal detection systems to protect your products. A TTPACK metal detector reliably detects all metal contamination and offers protection against machine damage, production downtime, unhappy customers, and product recalls.

TTPACK Metal Detectors have been used in various industries: Meat, Poultry, Fish, Bakery, Convenience Food, Ready-to-Go Food, Confectionery, Snack Foods, Dried Foods, Cereals, Grains, Dairy and Egg Products, Fruit, Vegetables, Nuts and Others. The size, stability, and sensitivity of the sensors make this an ideal inspection solution for any application. All TTPACK metal detectors are custom-made and can be individually adapted to the requirements of the respective production environment.



## High Sensitivity for FE, NFE and SUS



Ferrous



SUS



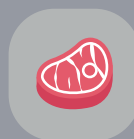
Copper



Aluminium



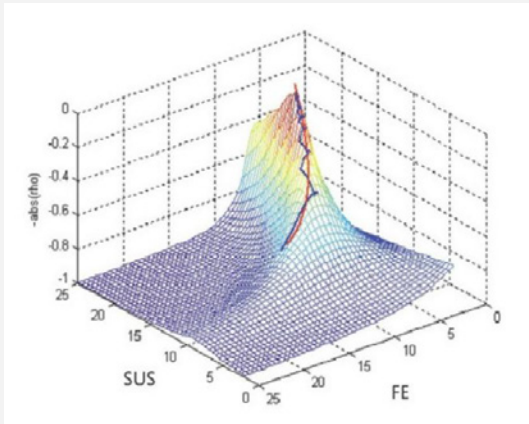
Other Metals



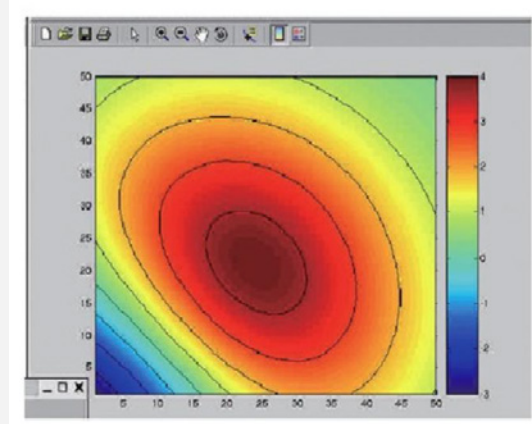




**TTPACK has developed a highly sophisticated detection algorithm platform, to meet the HIGH-RESOLUTION detection requirements of the food and beverage industry.**



**Software Algorithm**



**Electromagnetic Simulation**

**Easy for Setup or Troubleshoot**

- Data communication to printer or computer (USB Port, Ethernet by Modbus TCP/IP, RS232, RS485, ect.
- Automated and Detailed Documentation: IFS, GMP and HACCP reports, Ethernet LAN Interface (Option).
- For each user registered, you can limit the operations they can perform depending on their user level.
- Inadvertent operation can be avoided by assigning each user a user level from the four levels below: Operator, Quality Manager, Supervisor, Administrator.

**Well-Organized Data Management**

- A million data details record including time, date and result for admin to check error.
- Data summary report can be exported through USB or Ethernet Port.
- Simplified data and log management allows quick response to retailers or customer quality inquiries.

**User-Friendly Design**

- Icon driven full color touchscreen control interface, intuitive and simple operation.
- Multilevel password protection for secure access and traceability.
- Built-in latest generation digital signal processing technology, enables better isolating product effect and minimizing its impact on detection, and best accuracy can be achieved with TTPACK Metal Detector.
- Switch Products in Seconds with a Library of Stored Products: up to 100 product calibration details are stored in memory ready for fast product recall using multiproduct menus.



## ● 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.

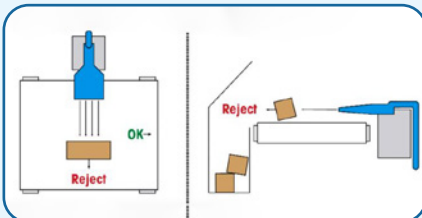
Used in all kinds of automatic assembly line and logistics conveying system.

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

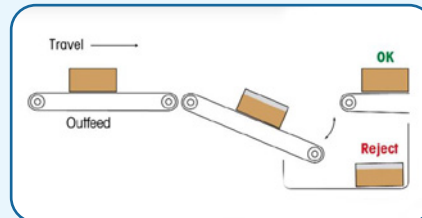
It can directly replace manual sorting to improve production efficiency and reliability.

## ■ Type of Rejectors

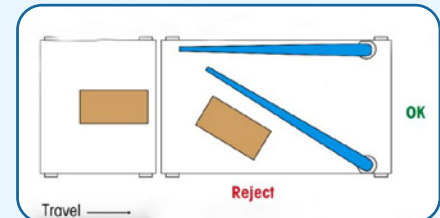
### ● Air Blast



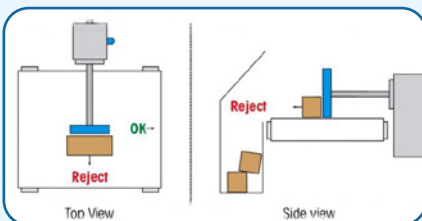
### ● Drop Down



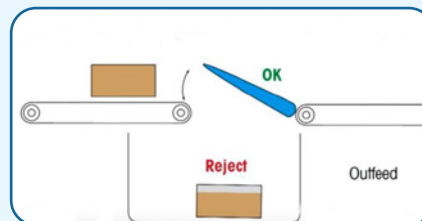
### ● Flipper



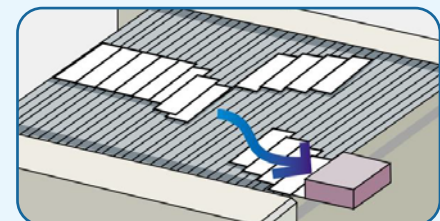
### ● Pusher



### ● Drop Up



### ● Slide Carrier



# High Accuracy Conveyor Belt Metal Detector



TTPACK Conveyor Belt Metal Detector can be used in various industries: Meat, Poultry, Fish, Bakery, Convenience Food, Ready-to-Go Food, Confectionery, Snack Foods, Dried Foods, Cereals, Grains, Dairy and Egg Products, Fruit, Vegetables, Nuts and Others.

The size, stability, and sensitivity of the sensors make this an ideal inspection solution for any application. All TTPACK metal detectors are custom-made and can be individually adapted to the requirements of the respective production environment.

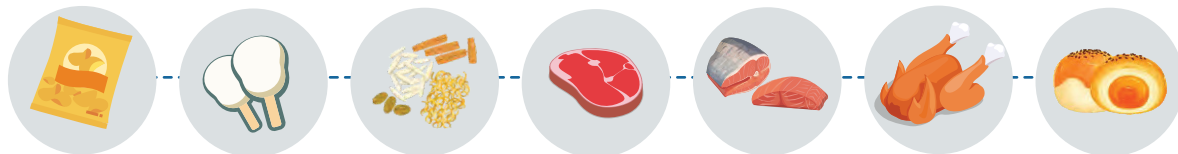


FA-MD-II Series

## Advantages

- Fully Improved performance is achieved by our unique and exclusive "multi-filtering algorithm and X-R orthogonal decomposition algorithm" technology. This new technology adjusts the metal detector optimally to the product and enables the user to detect metal even in 'difficult' products.
- Frame designed to minimize flat surfaces and slots, reducing dust or residue buildup. Rapid-release conveyors and belts eliminate need for tools to remove or replace. Tool-less thumb screw adjusts belt tracking.
- We conduct strict design verification to meet China domestic and International standards such as CE marking. TTPACK Metal Detectors offer reliable solutions for quality control in the food industry around the globe.
- Configurable security access levels: Reject confirmation; Daily inspection report; Maximize quality and protect your brand reputation.
- Building on a foundation of standard features, TTPACK Metal Detectors can be configured to create cost-effective solutions for the most challenging applications. A wide variety of product handling and reject hardware and software.
- The conveyor belt is driven by gears, making it easy to clean, maintain, and replace the belt. Durability of the conveyor unit (IP66) has been improved and belt meandering occurs less often.

## Application



## Specification

Model		FA-MD-II Series			
Detection Width(mm)		300	400	500	600
Detection Height(mm)		80, 120 150, 180	80, 120 150, 180	80, 120 150, 180	80, 120 150, 180
Sensitivity	Fe(mm)	Φ0.6, Φ0.7 Φ0.8, Φ1.0	Φ0.6, Φ0.7 Φ0.8, Φ1.0	Φ0.8, Φ1.0 Φ1.0, Φ1.2	Φ1.0, Φ1.2 Φ1.5, Φ2.0
	SUS304 (mm)	Φ1.2, Φ1.5 Φ1.5, Φ2.0	Φ1.2, Φ1.5 Φ1.5, Φ2.0	Φ1.2, Φ1.5 Φ2.0, Φ2.5	Φ1.5, Φ2.0 Φ2.5, Φ3.0
Belt Width(mm)		260	360	460	560
Loading Capacity(kg)		5	10	50	50
Material of Construction		304 Brushed stainless steel			
Power Supply		220-240 VAC, 50-60 Hz, 1 Ph, 400W; 110 VAC, 60 Hz, 1 Ph, 400W			
Temperature Range		-10 to 40° C (14 to 104° F)			
Humidity		0 to 95% Relative Humidity (Non-condensing)			
Belt Speed		5-40m/min(variable)			
Conveyor Belt Material		FDA approved food level PU belt			
Operation Panel		Key Pad(Touch Screen is optional)			
Product Memory		100			
Software Language		English(Spanish/French/Russian, etc optional)			
Conformity		CE (Declaration of Conformity and Declaration of Manufacturer)			
Automatic Reject Options		Belt-Stop / Stop On Detect, Pusher, Air-blast, Flipper, Flap, etc			

Remarks: The sensitivity mentioned above namely is the result of sensitivity by detecting only the test sample on the belt. Listed here are just a part of our entire product line. We offer a range of Metal Detectors to meet different size of applications.

# Gravity Fall Metal Detector



TTPACK–tech FA–MD–P Series Metal Detector is a gravity fed / throat metal detector system designed for inspecting bulk, powders and granules. It is ideal for checking early in the production process to detect metal before the product moves down the line, minimising the potential cost of wastage and protecting other processing equipment.

Its sensitive sensors detect even the smallest metal contaminants, and fast-switching separation flaps discharge them directly from the product stream during production.



## Advantages

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- Frame designed to minimize flat surfaces and slots, reducing dust or residue buildup Rapid-release conveyors and belts eliminate need for tools to remove or replace Tool-less thumb screw adjusts belt tracking.
- We conduct strict design verification to meet China domestic and International standards such as CE marking. TTPACK Metal Detectors offer reliable solutions for quality control in the food industry around the globe.
- Configurable security access levels: Reject confirmation; Daily inspection report; Maximize quality and protect your brand reputation.
- Building on a foundation of standard features, TTPACK Metal Detectors can be configured to create cost-effective solutions for the most challenging applications. A wide variety of product handling and reject hardware and software.
- The conveyor belt is driven by gears, making it easy to clean, maintain, and replace the belt. Durability of the conveyor unit (IP66) has been improved and belt meandering occurs less often.

## Application

• Powder granule products



## Specification

<b>Throat Diameter (mm)</b>		50	75	100	150	200
<b>Capacity(L/H)</b>		2,000	5,000	12,000	25,000	35,000
<b>Sensitivity without product (Ømm)</b>	<b>Fe</b>	0.4	0.6	0.8	1.0	1.2
	<b>Non-Fe</b>	0.6	0.8	1.0	1.2	1.5
	<b>SUS304</b>	0.8	1.0	1.2	1.5	2.0
<b>Material of Construction</b>	304 Brushed stainless steel					
<b>Alarm</b>	Sound and light					
<b>Temperature Range</b>	-10 to 40° C (14 to 104° F)					
<b>Humidity</b>	0 to 95% Relative Humidity (Non-condensing)					
<b>Rejecting Mode</b>	Auto Flap Valve Systems for Bulk Materials					
<b>Pressure Requirement</b>	≥0.5Mpa					
<b>Power Supply</b>	AC 100-240V single phase 55W, 50/60Hz adaptive					
<b>Scope of Delivery</b>	<ul style="list-style-type: none"> <li>• Detector Head</li> <li>• Control Panel</li> <li>• Interconnecting Cables</li> <li>• Manual, Installation Instructions, Wiring Diagram, etc</li> <li>• Metal Detector Test Spheres</li> <li>• Warning Device: Beacon with Siren&amp;Buzzer</li> </ul>					
<b>Optional Features</b>	Operation panel/HMI can be pulled far, the standard line length is 3 meters, can be lengthen if necessary; Aperture diameter can be customized as per customer's requirements. Special power supply can be customized					

Remarks: The sensitivity mentioned above namely is the result of sensitivity by detecting only the test sample on the belt. Listed here are just a part of our entire product line. We offer a range of Metal Detectors to meet different size of applications.

# Pipeline Metal Detector



TTPACK-tech FA-MD-L series of metal detectors are designed for liquid and paste products such as meat slurries, soups, sauces, jams or dairy.

They can be easily integrated into all common piping systems for pumps, vacuum fillers or other filling systems. It is built to IP66 rating making it suitable for both high-care and low-care environments.



## Advantages

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- Frame designed to minimize flat surfaces and slots, reducing dust or residue buildup Rapid-release conveyors and belts eliminate need for tools to remove or replace Tool-less thumb screw adjusts belt tracking.
- We conduct strict design verification to meet China domestic and International standards such as CE marking. TTPACK Metal Detectors offer reliable solutions for quality control in the food industry around the globe.
- Configurable security access levels: Reject confirmation; Daily inspection report; Maximize quality and protect your brand reputation.
- Building on a foundation of standard features, TTPACK Metal Detectors can be configured to create cost-effective solutions for the most challenging applications. A wide variety of product handling and reject hardware and software.
- The conveyor belt is driven by gears, making it easy to clean, maintain, and replace the belt. Durability of the conveyor unit (IP66) has been improved and belt meandering occurs less often.

## Application

- Meat slurries, soups, sauces, jams or dairy.



## Specification

Pipeline Diameter (mm)		50	75	100	125
Sensitivity without product (∅mm)	Fe	0.4	0.5	0.6	0.7
	Non-Fe	0.6	0.8	0.9	1.0
	SUS304	0.8	0.9	1.1	1.2
Material of Construction	304 Brushed stainless steel				
Alarm	Sound and light				
Temperature Range	-10 to 40° C (14 to 104° F)				
Humidity	0 to 95% Relative Humidity (Non-condensing)				
Rejecting Mode	Inlet Fluid Valve Rejection System				
Pressure Requirement	≥0.4Mpa				
Power Supply	AC 100-240V single phase 55W, 50/60Hz adaptive				
Scope of Delivery	<ul style="list-style-type: none"> <li>• Detector Head</li> <li>• Control Panel</li> <li>• Interconnecting Cables</li> <li>• Manual, Installation Instructions, Wiring Diagram, etc</li> <li>• Metal Detector Test Spheres</li> <li>• Warning Device: Beacon with Siren&amp;Buzzer</li> </ul>				
Optional Features	Operation panel/HMI can be pulled far, the standard line length is 3 meters, can be lengthen if necessary; Aperture diameter can be customized as per customer's requirements. Special power supply can be customized				

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# Vertical Metal Detector for Bottled Product



TTPACK Vertical Type Metal Detector is suitable for tall products in containers, such as beverages and seasonings in glass and plastic bottles. Specially designed for bottled products by adding transitional plate, ensure smooth transportation between conveyors; Highest sensitivity for all types of bottled products.



## Advantages

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- Frame designed to minimize flat surfaces and slots, reducing dust or residue buildup Rapid-release conveyors and belts eliminate need for tools to remove or replace Tool-less thumb screw adjusts belt tracking.
- We conduct strict design verification to meet China domestic and International standards such as CE marking. TTPACK Metal Detectors offer reliable solutions for quality control in the food industry around the globe.
- Configurable security access levels: Reject confirmation; Daily inspection report; Maximize quality and protect your brand reputation.
- Building on a foundation of standard features, TTPACK Metal Detectors can be configured to create cost-effective solutions for the most challenging applications. A wide variety of product handling and reject hardware and software.
- The conveyor belt is driven by gears, making it easy to clean, maintain, and replace the belt. Durability of the conveyor unit (IP66) has been improved and belt meandering occurs less often.

## Application

- Packed goods delivered upright
- Canned and boxed products



## Specification

<b>Coil Opening Width (mm)</b>		150	200	250	300
<b>Coil Opening Height</b>		250	350	350	350
<b>Sensitivity without product (Ømm)</b>	<b>Fe</b>	0.6	0.8	1.0	1.2
	<b>Non-Fe</b>	0.8	1.0	1.2	1.5
	<b>SUS304</b>	1.0	1.2	1.5	2.0
<b>Conveyor Belt Size(WxL)</b>		120x1500/1800	170x1500/1800	220x1500/1800	270x1500/1800
<b>Material of Construction</b>		304 Brushed stainless steel			
<b>Power Supply</b>		220-240 VAC, 50-60 Hz, 1 Ph, 400W; 110 VAC, 60 Hz, 1 Ph, 400W			
<b>Temperature Range</b>		-10 to 40° C (14 to 104° F)			
<b>Humidity</b>		0 to 95% Relative Humidity (Non-condensing)			
<b>Belt Speed</b>		5-40m/min(variable)			
<b>Conveyor Belt Material</b>		FDA approved food level PU belt			
<b>Operation Panel</b>		Key Pad(Touch Screen is optional)			
<b>Product Memory</b>		100			
<b>Software Language</b>		English(Spanish/French/Russian, etc optional)			
<b>Conformity</b>		CE (Declaration of Conformity and Declaration of Manufacturer)			
<b>Automatic Reject Options</b>		Belt-Stop / Stop On Detect, Pusher, Air-blast, Flipper, Flap, etc			

Remarks: The sensitivity mentioned above namely is the result of sensitivity by detecting only the test sample on the belt. Listed here are just a part of our entire product line. We offer a range of Metal Detectors to meet different size of applications.

# For Aluminum-foil-packaging Products



TTPACK Aluminum Foil metal detector is specifically capable for the detection of ferrous and stainless steel from aluminum sealing bags, aluminum foil bags, highly salty products inside aluminum foil bags, aluminum tinned ham, sausage and products made in aluminum.

Magnetoreflexion method detects metal contaminants in aluminum-packaging products regardless of shapes and orientation of contaminants. Stainless steel can also be detected with high sensitivity. Ideal for aluminum-packaging products such as retort pouches, chocolate and poultry

**AMD Series**



## Advantages

- Fully Improved performance is achieved by our unique and exclusive "multi-filtering algorithm and X-R orthogonal decomposition algorithm" technology. This new technology adjusts the metal detector optimally to the product and enables the user to detect metal even in 'difficult' products.
- Frame designed to minimize flat surfaces and slots, reducing dust or residue buildup Rapid-release conveyors and belts eliminate need for tools to remove or replace Tool-less thumb screw adjusts belt tracking.
- We conduct strict design verification to meet China domestic and International standards such as CE marking. TTPACK Metal Detectors offer reliable solutions for quality control in the food industry around the globe.
- Configurable security access levels: Reject confirmation; Daily inspection report; Maximize quality and protect your brand reputation.
- Building on a foundation of standard features, TTPACK Metal Detectors can be configured to create cost-effective solutions for the most challenging applications. A wide variety of product handling and reject hardware and software.
- The conveyor belt is driven by gears, making it easy to clean, maintain, and replace the belt. Durability of the conveyor unit (IP66) has been improved and belt meandering occurs less often.

## Specification

Model		AMD Series		
Detection Width(mm)		250	350	500
Detection Height(mm)		50-120mm	50-120mm	50-120mm
Sensitivity	Fe(mm)	Φ1.0	Φ1.0	Φ1.2
	SUS304(mm)	Φ2.0	Φ2.0	Φ2.0
Belt Width(mm)		250	350	500
Loading Capacity(kg)		10	15	15
Parameter Setting		By intelligent product learning		
Material of Construction		304 Brushed stainless steel		
Power Supply		110/220 VAC, 50/60Hz, 1 P, 200W/400W;		
Temperature Range		-10 to 40° C (14 to 104° F)		
Humidity		0 to 95% Relative Humidity (Non-condensing)		
Belt Speed		5-40m/min(variable)		
Conveyor Belt Material		FDA approved food level PU belt		
Operation Panel		Touch Screen		
Product Memory		100		
Software Language		English(Spanish/French/Russian, etc optional)		
Conformity		CE (Declaration of Conformity and Declaration of Manufacturer)		
Automatic Reject Options		Belt-Stop / Stop On Detect, Pusher, Air-blast, Flipper, Flap, etc		

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# Tablet Metal Detect



TTPACK-tech Tablet Metal Detector is suitable for being installed after some pharmaceutical equipment 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



## Advantages

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- The conveyor belt is driven by gears, making it easy to clean, maintain, and replace the belt. Durability of the conveyor unit (IP66) has been improved and belt meandering occurs less often.

## Specification

<b>Detector Width (mm)</b>		70	100	150
<b>Detector Height (mm)</b>		20	30	35
<b>Sensitivity without product (Ømm)</b>	<b>Fe</b>	0.2	0.25	0.3
	<b>Non-Fe</b>	0.3	0.35	0.4
	<b>SUS304</b>	0.5	0.55	0.6
<b>Capacity</b>		30,000pcs/h-50,000pcs/h		
<b>Material of Construction</b>		304 Brushed stainless steel		
<b>Alarm</b>		Sound and light		
<b>Temperature Range</b>		-10 to 40° C (14 to 104° F)		
<b>Humidity</b>		0 to 95% Relative Humidity (Non-condensing)		
<b>Rejecting Mode</b>		Auto Flap Valve Systems for Bulk Materials		
<b>Pressure Requirement</b>		≥ 0.5Mpa		
<b>Power Supply</b>		AC 100-240V single phase 55W, 50/60Hz adaptive		
<b>Scope of Delivery</b>		<ul style="list-style-type: none"> <li>• Detector Head</li> <li>• Control Panel</li> <li>• Interconnecting Cables</li> <li>• Manual, Installation Instructions, Wiring Diagram, etc</li> <li>• Metal Detector Test Spheres</li> <li>• Warning Device: Beacon with Siren&amp;Buzzer</li> </ul>		
<b>Optional Features</b>		Aperture diameter can be customized as per customer's requirements. Special power supply can be customized		

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# Combination System



The FA-CMC model is synonymous with high precision weighing in combination with extremely sensitive metal detection for optimal performance. It is a practical combination of inspection technologies in the interests of increased consumer safety and provides scales and metal detector in one space-saving unit, which can be operated from one HMI and easily integrated as part of any line.



FA-CW300  
FA-CW360  
FA-CW450

## Advantages

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## Specification

Model	FA-CW300	FA-CW360	FA-CW450
Weight Range	5-1000g	10-4000g	10-10000g
Minimum Scale	0.1g	0.1g	1g
Best Accuracy(3σ)	±0.3g	±0.3g	±1g
Max Throughput	150pcs/min	120pcs/min	80pcs/min
Weigher Platform Size(WxL)	300x350/450/550mm	360x450/550/800mm	450x550/700/800mm
Line Height Options	750+100mm(can be customized)		
Belt Type	PU Anti-static		
Supply Voltages	220V/1P 50/60Hz		
Air Supply	5-8bar(10mm outside dia)		
Product Memory	100		
Material of Construction	304 Brushed stainless steel		
Temperature Range	-10 to 40° C (14 to 104° F)		
Humidity	0 to 95% Relative Humidity (Non-condensing)		
Software Language	English(Spanish/French/Russian, etc optional)		
Data Retrieval	Via USB Port/Ethernet Port		
Certificates	CE/ISO9001/ISO14001		

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