PRODUCT CATALOG

• Metal Detector • Checkweigher • X-ray Inspection System • Optical Sorting System

Contents

Rejecter Series

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

Auto-learning Function

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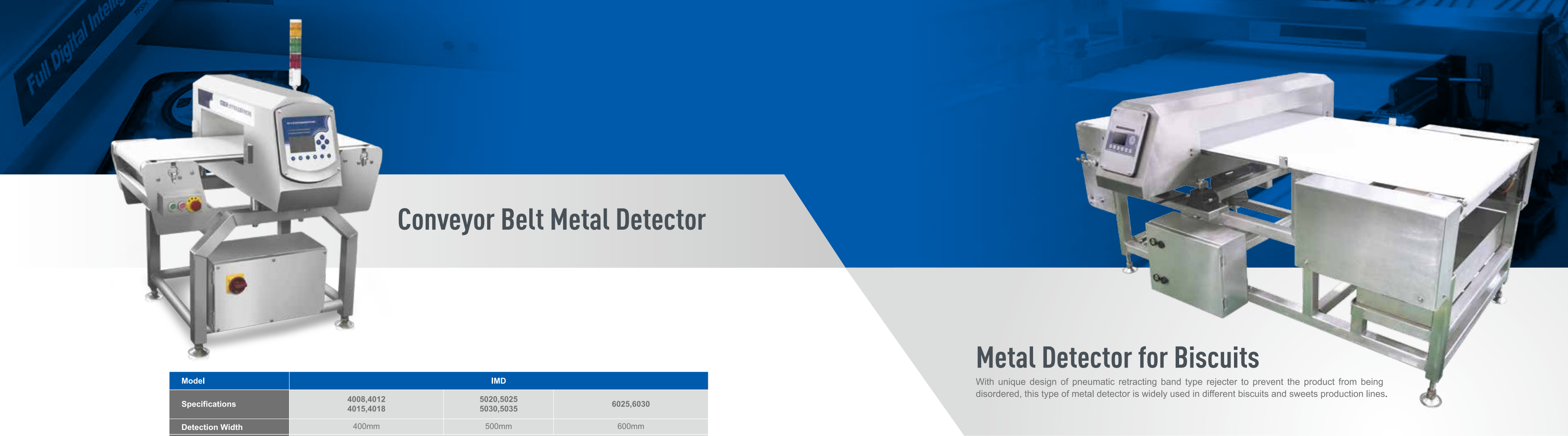
High Configuration

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

User-friendly Function

- Multi languages
- Customization
- Large memory capacity

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-350mm		
Sensitivity — Fe	Φ0.5-1.5mm		
Sensitivity — SUS304	Φ1.0-3.5mm		
Belt Width	360mm	460mm	560mm
Loading Capacity	30kg-50kg		
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	70	80	90	100	110	120
Detection Width	600mm	700mm	800mm	900mm	1000mm	1100mm	1200mm
Detection Height	50mm-200mm						
Sensitivity — Fe	≥Φ0.6mm						
Sensitivity — SUS304	≥Φ1.2mm						
Belt Width	560mm	660mm	760mm	860mm	960mm	1060mm	1160mm
Conveyor Belt	Food grade PU						
Belt Speed	15m/min (Variable speed optional)						
Rejecter Mode	Pneumatic retracting band type /Flap rejecter (Optional)						
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.

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-50R	IMD-75R
Tube Inner Diameter		Φ50mm	Φ75mm
Sensitivity	Fe	Φ0.3mm	
	SUS304	Φ0.5mm	
Display Mode		TFT touch screen	
Operation Mode		Touch input	
Product Storage Quantity		100 kinds	
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.

Model						IMD-P	
Detection Diameter (mm)	Detection Capacity t/h[2]	Rejecter Mode	Pressure Requirement	Power Supply	Main Material	Sensitivity[1]Φd (mm)	
						Fe	SUS
75	3	Automatic flap rejecter	≥0.5Mpa	AC220V (Optional)	Stainless steel (SUS304)	0.5	0.8
100	5					0.6	1.0
150	10					0.6	1.2
200	20					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						
Detection Diameter (mm)	Rejecter Mode	Pressure Requirement	Power Supply	Main Material	Inner Pipe Material	Sensitivity[1]Φd (mm)	
						Fe	SUS
50	Automatic valve rejecter	≥0.5Mpa	AC220V (Optional)	Stainless steel (SUS304)	Food grade Teflon tube	0.5	1.2
63						0.6	1.2
80						0.7	1.5
100						0.8	1.5-2.0

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
Sensitivity / 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.

Dual Frequency

Checkweigher System

Suitable for weight checking for packaged products, to ensure quality standards.

Alarm light   **Green button**   **Load cell**   **Motor**   **Panasonic inverter**   **Touch screen**   **Photo tube**

Checkweigher IXL Series

Suitable for weight checking for packaged products, to ensure quality standards.

• High speed, high sensitivity, high stability dynamic weight checking
• Easy to clean, simple to disassemble

1   **2**   **3**

User-friendly Function	High Configuration	Brief User Parameter Setting
• Multi languages	• Touch screen	
• Data storage	• USB port, Ethernet function	
• Large memory capacity	• Real time monitoring on PC	

Checkweigher for Small Package

Model	IXL-160	IXL-230S	IXL-230L	IXL-300	IXL-350	IXL-400
Detecting Range	5~600g	10~2000g	10~2000g	10~5000g	10-5000g	0.2~10kg
Scale Interval	0.05g	0.1g	0.1g	0.2g	0.2g	0.5g
Accuracy (3σ)	±0.1g	±0.2g	±0.2g	±0.5g	±0.5g	±1g
Max Speed	250pcs/min	200pcs/min	155pcs/min	120pcs/min	100pcs/min	80pcs/min
Belt Speed	70m/min	70m/min	70m/min	70m/min	70m/min	70m/min
Weighed Product Size — Width	150mm	220mm	220mm	290mm	340mm	390mm
Weighed Product Size — Length	200mm	250mm	350mm	400mm	450mm	500mm
Weigher Platform Size — Width	160mm	230mm	230mm	300mm	350mm	400mm
Weigher Platform Size — Length	280mm	350mm	450mm	500mm	550mm	650mm
Operation Screen	7" touch screen					
Product Storage Quantity	100 kinds					
Segments Number	2/3					
Rejecter Mode	Rejecter optional					
Power Supply	220V (Optional)					
IP Rate	IP54/IP65					
Main Material	Mirror polished/Sand blasted					

Note:
1. The technical parameter above namely is the result of accuracy by checking only the test sample on the belt. The accuracy would be affected according to the detecting speed and product weight.
2. The detecting speed above will be affected according to the product size to be checked.
3. Requirements for different sizes by customers can be fulfilled.

Checkweigher for Large Package

Model	IXL-500	IXL-600
Detecting Range	0.5-20kg	1~50kg
Scale Interval	1g	5g
Accuracy (3σ)	±2g	±5g
Max Speed	75pcs/min	50pcs/min
Belt Speed	40/60m/min	
Weighed Product Size — Width	490mm	590mm
Weighed Product Size — Length	650mm	1000mm
Weigher Platform Size — Width	500mm	600mm
Weigher Platform Size — Length	800mm	1200mm
Operation Screen	7" touch screen	
Product Storage Quantity	100 kinds	
Segments Number	2/3	
Rejecter Mode	Rejecter optional	
Power Supply	220V (Optional)	
IP Rate	IP54/IP65	
Main Material	Mirror polished/Sand blasted	

Note:
1. The technical parameter above namely is the result of accuracy by checking only the test sample on the belt. The accuracy would be affected according to the detecting speed and product weight.
2. The detecting speed above will be affected according to the product size to be checked.
3. Requirements for different sizes by customers can be fulfilled.

High-speed Checkweigher

- High speed. The Max.speed can reach 90m/min
- It can ensure good accuracy with high speed

Model	IXL-H-160	IXL-H-230S	IXL-H-230L
Detecting Range	10~600g	20~2000g	20~2000g
Accuracy (3σ)	±0.2g	±0.2g	±0.2g
Max Speed	350pcs/min	270pcs/min	200pcs/min
Belt Speed	≤130m/min		
Weighed Product Size	Width	150mm	220mm	220mm
	Length	200mm	250mm	350mm
Weigher Platform Size	Width	160mm	230mm	230mm
	Length	280mm	350mm	450mm
Operation Screen	7" touch screen		
Product Storage Quantity	100 kinds		
Segments Number	3		
Rejecter Mode	Rejecter optional		
Power Supply	220V (Optional)		
IP Rate	IP54		
Body Material	Mirror polished/Sand blasted		

Note:
1. The technical parameter above namely is the result of accuracy by checking only the test sample on the belt. The accuracy would be affected according to the detecting speed and product weight.
2. The detecting speed above will be affected according to the product size to be checked.
3. Requirements for different sizes by customers can be fulfilled.
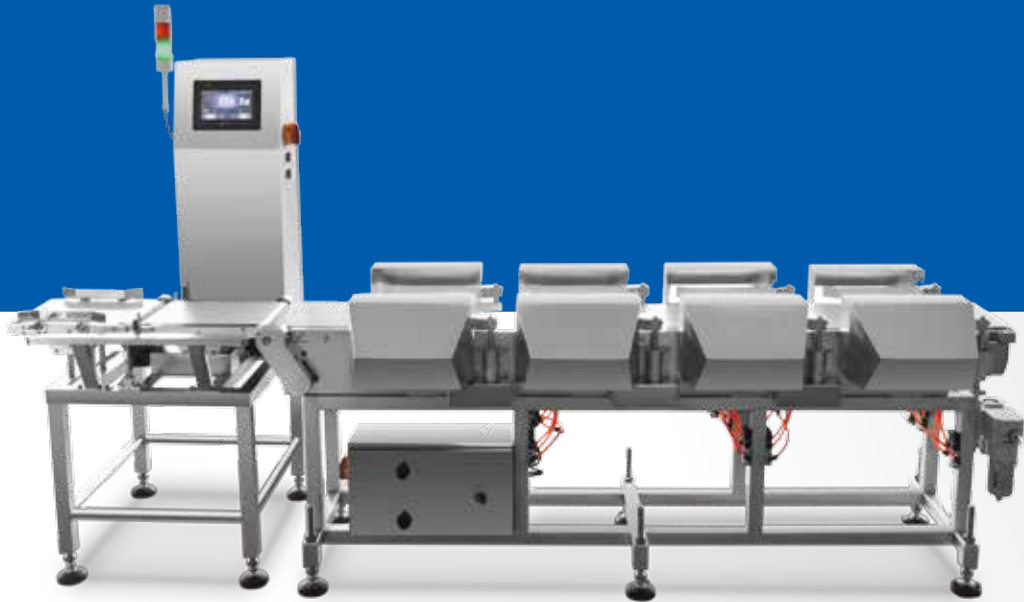
Combo Metal Detector and Checkweigher

Widely used in workshop with compact space.

- Compact design, saving space and installation cost
- Metal detector and checkweigher is perfectly connected in one frame, to install the machine in workshop conveniently and effectively
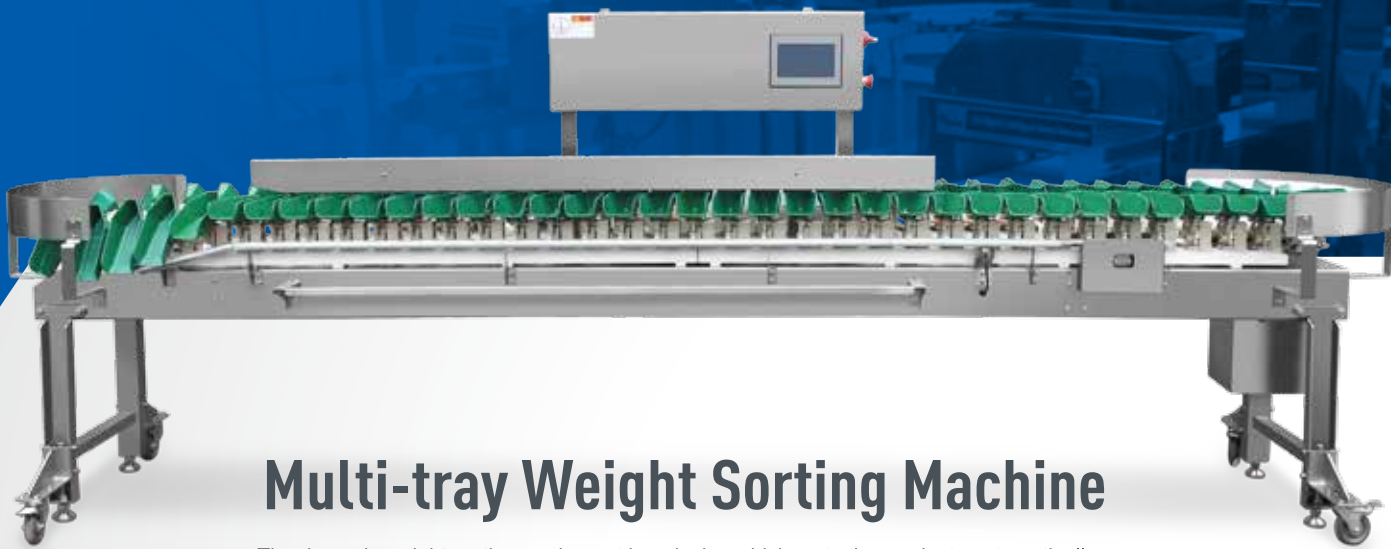
Model		IMC-230L	IMC-300	IMC-400
Detecting Range		20~2000g	50~5000g	20~10000g
Scale Interval		0.1g	0.2g	0.5g
Accuracy (3σ)		±0.2g	±0.5g	±1g
Detecting Speed (Max Speed)		155pcs/min	140pcs/min	105pcs/min
Maximum Belt Speed		70m/min	70m/min	70m/min
Weighed Product Size	Width	220mm	290mm	390mm
	Length	350mm	400mm	500mm
Weigher Platform Size	Width	230mm	300mm	400mm
	Length	450mm	500mm	650mm
Sensitivity	Fe	Φ0.7mm		
	SUS	Φ1.5mm		
Product Storage Quantity		100 kinds		
Segments Number		3		
Rejecter		Rejecter optional		
Power Supply		AC220V (Optional)		
IP Rate		IP54/IP65		
Main Material		Mirror polished/Sand blasted		

Note:
1. The technical parameter above namely is the result of accuracy by checking only the test sample on the belt. The accuracy would be affected according to the detecting speed and product weight.
2. The detecting speed above will be affected according to the product size to be checked.
3. Requirements for different sizes by customers can be fulfilled.

Multi-sorting Checkweigher

Widely used in seafood, poultry, aquatic products, frozen products, etc.

- Replacing labor sorting, saving cost, improving efficiency and optimizing the production process
- Accurate rejector systems with multi-weight zones
- Various fast rejector systems, to satisfy rejecting unqualified products with different speed
- 9 standard weight sorting zones, 12 weight sorting zones is available

Model		IXL-SG-160	IXL-SG-230S	IXL-SG-230L	IXL- SG -300
Detecting Range		10~600g	20~2000g	20~2000g	20~5000g
Scale Interval		0.05g	0.1g	0.1g	0.2g
Accuracy (3σ)		0.4g	0.8g	0.8g	2g
Detecting Speed (Max Speed)		200pcs/min	160pcs/min	130pcs/min	110pcs/min
Maximum Belt Speed		60m/min	60m/min	60m/min	60m/min
Weighed Product Size	Width	150mm	220mm	220mm	290mm
	Length	200mm	250mm	350mm	400mm
Weigher Platform Size	Width	160mm	230mm	230mm	300mm
	Length	280mm	350mm	450mm	500mm
Operation Screen		7" touch screen			
Product Storage Quantity		100 kinds			
Maximum Weight Range		12 levels			
Rejecter		Air Jet, Flipper, Pusher			
Power Supply		AC220V (Optional)			
IP Rate		IP54/IP65			
Main Material		Mirror polished/Sand blasted			

Note:
1, The technical parameter above namely is the result of accuracy by checking only the test sample on the belt, The accuracy would be affected according to the detecting speed and product weight.
2, The detecting speed above will be affected according to the product size to be checked.
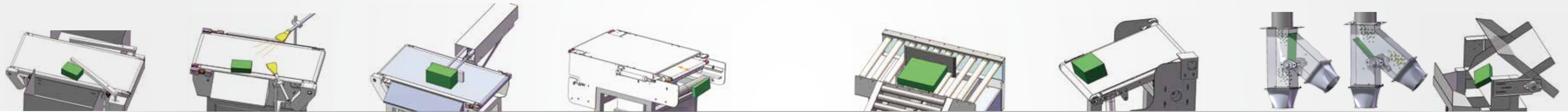3, Requirements for different sizes by customers can be fulfilled.

Multi-tray Weight Sorting Machine

The dynamic weight sorting equipment is a device which sorts the products automatically with a high speed and a high accuracy according to their weights ranged by the user's requirements. Cumulative weight and quantity are optional functions.

Model		IXL-GWS-S-8R	IXL-GWS-S-16R	IXL-GWM-S-8R	IXL-GWM-S-16R	IXL-GWL-S-8R	IXL-GWL-S-12R
Weight Range（Note 1）		≤8	≤16	≤8	≤16	≤8	≤16
Accuracy（Note 2）		±0.5g		±1g		±2g	
Maximum Speed		≤300PPM		≤280PPM		≤260PPM	
Detecting Range		2~500g				2~3000g	
Power Consumption		AC220V，0.75KW					
Main Material		Stainless steel (SUS304) & food grade resin					
Machine Size	L	3800mm		4200mm		4500mm	
	W	800mm		800mm		800mm	
	H	1500mm		1500mm		1500mm	
Operation Height		800mm~950mm（can be customized)					
Machine weight		280kg	350kg	290kg	360kg	350kg	45kg
IP Rate		IP66					
Suitable Products		Wing, thigh, leg meat, sea cucumber, abalone, shrimp, fish, etc.		Thigh, breast, upper leg meat, melon and fruit, etc.		Large chunk of meat, fish, etc.	
Scale Quantity		1 scale platform					
Tray sizes	L	170mm, 190mm, 220mm		260mm		300mm	
	W	95mm		130mm		150mm	

Note :
1: Other weight ranges can be customized (but can't over the max weight range);
2: The Weighing accuracies are variables, which are depended on the product characters, shape, quality, detecting speed and size.

Rejecter Series

Flipper Type

To reject the products detected to different directions by 1~2 arm levers, which is suitable for the boxed, bag products.

Air Jet Type

To reject the products detected by using the blowing air, which is suitable for the high-speed sorting of the small and light weight products.

Push Type

To reject the products detected by pushing lever, which is suitable for small and large packing products.

Pneumatic Retracting Band Type

To reject the products by two active baffles, which is suitable for the small packed and non-packed products.

Heavy Push Rejecter

To reject products by pushing lever, especially suitable for the product with big size and heavy weight.

Drop Out Rejecter

To reject the products detected by partial belt flap, which is suitable for packed and non-packed products.

Flap Rejecter

To reject the products detected by the active flap, which is suitable for the dry products in bulk.