

PRODUCT CATALOG

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



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Company Introduction







VARIOUS INDUSTRY SOLUTIONS · COMPLETE PRODUCT PORTFOLIO · ADVANCED SMART ALGORITHM

DETECTING | WEIGHING | INSPECTION | SORTING

Driven by Al innovation, Techik provides customers with whole chain inspection and sorting solutions in industries such as food and agricultural products, with technologies of multi-spectrum, multi-energy spectrum, and multi-sensor.

Raw material sorting and grading: sorting for color, shape, defect, material and foreign contaminant.

Processing stage quality checking: inspection of foreign contaminant, weight and quality.

Packaged product inspection: inspection of foreign contaminant, weight, quality and sealing.

WHOLE CHAIN INSPECTION & SORTING SOLUTION

Al Double Layer Belt Optical Sorter Al Combo Optical & X-Ray Inspection System **Metal Detector** Raw Material Intelligent Sorting **Processing Stage Quality Checking** Intelligent X-Ray Inspection System For Bulk Products X-Ray Inspection System For Sealing, Stuffing & Oil Leakage

Al Dual-Energy X-Ray **Inspection System**

Checkweigher for Vision Inspection Large Package Machine

AI UHD Belt Optical Sorter

Finished Packaged Product Inspection

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.





Green button



Alarm light





Inverter



Motor





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 Widt	th	400mm	500mm	600mm		
Detection Heig	ght		80mm-350mm			
Sensitivity	Fe		Ф0.5-1.5mm			
Sensitivity	SUS304	Ф1.0-3.5mm				
Belt Width		360mm	460mm	560mm		
Loading Capac	city	30kg-50kg				
Display Mode		LCD display panel (FDM touch screen optional)				
Operation Mod	de	В	utton input (Touch input optiona	al)		
Product Storag	ge Quantity	52 kinds (100 kinds with touch screen)				
Conveyor Belt	:	Food Grade PU(chain conveyor optional)				
Belt Speed		Fixe	d 25m/min (Variable speed opti	onal)		
Rejecter Mode	:	Alarm and belt stop (Rejecter optional)				
Power Supply		AC220V (Optional)				
Main Material		SUS304				
Surface Treatn	ment	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.

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	1	400mm	500mm	600mm		
Detection Height		80mm,120mm	200mm,250mm	250mm		
Detection fleigr	"	150mm,180mm	300mm,350mm	300mm		
Fe		Ф0.5mm,Ф0.6mm	Ф0.8mm, Ф1.0mm	Ф1.2mm		
Sensitivity	re	Ф0.7mm,Ф0.8mm	Ф1.2mm, Ф1.5mm	Ф1.5mm		
Selisitivity	SUS304	Ф0.9mm,Ф1.2mm	Ф2.0mm, Ф2.5mm	Ф2.5mm		
	303304	Ф1.5mm,Ф2.0mm	Ф2.5mm, Ф3.0mm	Ф3.0mm		
Belt Width		360mm	460mm	560mm		
Loading Capaci	ity	≤10kg	≤50kg	≤100kg		
Display Mode		Touch screen				
Operation Mode	е	Touch input				
Product Storage	e Quantity	100 kinds				
Frequency			Dual-frequency			
Checking Chan	nel	Double channel checking				
Belt Speed			Variable speed			
Rejecter Mode			Alarm and belt stop (Rejecter optional)			
IP Level			IP54/IP65			
Mechanical Des	sign		Round frame, easy wash			
Surface Treatme	ent		Brushed stainless steel, Sand blasted			

- 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.



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				≥Ф0.6mm					
SUS304	≥Ф1.2mm								
Belt Width	560mm	660mm	760mm	860mm	960mm	1060mm	1160mm		
Conveyor Belt				Food grade PU					
Belt Speed			15m/min	(Variable speed	optional)				
Rejecter Mode		Pneu	matic retracting	band type /Flap	rejecter (Optiona	al)			
Power Supply			А	C220V (Optiona	l)				
Main Material				SUS304					

lote:

- 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.

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							
Detection Diameter (mm)	Detection Capacity t/h²	Rejecter Mode	Pressure Requirement	Power Supply	Main Material		ivity¹Φd nm)	
						Fe	SUS	
75	3		≥0.5Mpa	AC220V (Optional)	Stainless steel (SUS304)	0.5	0.8	
100	5	Automatic flap				0.6	1.0	
150	10	rejecter	≥ 0.5IVIpa			0.6	1.2	
200	20	,				0.7	1.5	

- 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 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-50R	IMD-75R		
Tube Inner Dian	neter	Ф50mm	Ф75mm		
Sensitivity	Fe	Ф0.3	Smm		
Sensitivity	SUS304	Ф0.5	imm		
Display Mode		TFT touc	ch screen		
Operation Mode	•	Touch input			
Product Storag	e Quantity	100 kinds			
Channel Materi	al	Food grade plexiglass			
Rejecter Mode		Automatic rejection			
Power Supply		AC220V (Optional)			
Pressure Requi	rement	≥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.

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		ivity¹Φd nm)
						Fe	SUS
50		≥0.5Mpa	AC220V		Food grade Teflon tube	0.5	1.2
63	Automatic valve			Stainless steel		0.6	1.2
80	rejecter		(Optional)	(SUS304)		0.7	1.5
100						0.8	1.5-2.0

- 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.

Checkweigher System

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















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



User-friendly Function

- Multi languages
- Data storage
- Large memory capacity



High Configuration

- Touch screen
- USB port, Ethernet function
- Real time monitoring on PC





Brief User Parameter Setting







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	
Belt Speed		70m/min	70m/min	70m/min	70m/min	70m/min	70m/min	
Si-s	Width	150mm	220mm	220mm	290mm	340mm	390mm	
	Length	200mm	250mm	350mm	400mm	450mm	500mm	
Weigher Platform	Width	160mm	230mm	230mm	300mm	350mm	400mm	
Size	Length	280mm	350mm	450mm	500mm	550mm	650mm	
Operation Screen		7" touch screen						
Product Storage				100 F	kinds			
Segments Number			2/3					
Rejection System			Rejecter optional					
Power Supply			220V (Optional)					
IP Rating IP54/IP65								
Main Material				Mirror polished	/Sand blasted			

Vote:

- 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 Packages

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

- 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.



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			
Belt Speed			≤120 m/min				
Weighed Product Width		150mm	220mm	220mm			
Size	Length	200mm	250mm	350mm			
Weigher Platform	Width	160mm	230mm	230mm			
Size	Length	280mm	350mm	450mm			
Operation Screen		7" touch screen					
Product Storage Q	uantity	100 kinds					
Segments Number		3					
Rejection System		Rejecter optional					
Power Supply		220V (Optional)					
IP Rating		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.

High-precision High-speed Checkweigher

• High speed, up to 120m/min, Higher accuracy.



Model		IXL-100-H	IXL-150-H	IXL-220-H		
Detecting Range		10~600g	10~600g	20~2000g		
Scale Interval		0.01g	0.05g	0.1g		
Accuracy (3σ)		±0.05g	±0.1g	±0.2g		
Belt Speed			≤120m/min			
Weighed Product Width		90mm	140mm	210mm		
Size	Length	120/170mm	120/170/200mm	170/200/300/350mm		
Weigher Platform	Width	100mm	150mm	220mm		
Size	Length	200/250mm	200/250/300mm	250/300/400/450mm		
Operation Screem		10" touch screen				
Product Storage Q	uantity	999 kinds				
Segments Number		3				
Reject Mode		Rejecter Optional				
Power Supply		220V (Optional)				
IP Rating		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.

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

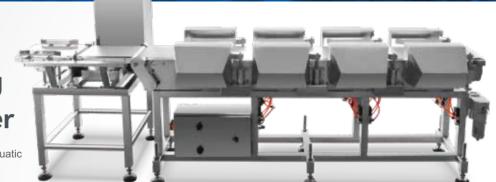
Model		IMC-230L	IMC-300	IMC-400		
Detecting Range		20~2000g	50~5000g	20~10000g		
Scale Interval		0.1g	0.2g	0.5g		
Accuracy (3σ)		±0.2g	±0.5g	±1g		
Maximum Belt Spe	ed	70m/min	70m/min	70m/min		
Weighed Product	Width	220mm	290mm	390mm		
Size	Length	350mm	400mm	500mm		
Weigher Platform	Width	230mm	300mm	400mm		
Size	Length	450mm	500mm	650mm		
Sensitivity -	Fe	Ф0.7mm				
Jensitivity	sus		Ф1.5mm			
Product Storage Q	uantity	100 kinds				
Segments Number		3				
Rejection System		Rejecter optional				
Power Supply		AC220V (Optional)				
IP Rating		IP54/IP65				
Main Material		Mirror polished/Sand blasted				

Note:

- 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.
- The detecting speed above will be affected according to the product size to be checked.
- 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		
Maximum Belt Spe	ed	60m/min	60m/min	60m/min	60m/min		
Weighed Product	Width	150mm	220mm	220mm	290mm		
Size	Length	200mm	250mm	350mm	400mm		
Weigher Platform	Width	160mm	230mm	230mm	300mm		
Size	Length	280mm	350mm	450mm	500mm		
Operation Screen		7" touch screen					
Product Storage Q	uantity	100 kinds					
Maximum Weight R	lange	12 levels					
Rejection System			Air Jet, Flipp	er, Pusher			
Power Supply		AC220V (Optional)					
IP Rating		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.

17/18 **Techik**

X-Ray Inspection System Full Figure

X-Ray Inspection System takes advantages of the penetrating power of X-Ray to detect contamination. It can achieve a full range of contaminants inspection including metallic, non-metallic contaminants (glass, ceramic, stone, bone, hard rubber, hard plastic, etc.). It can inspect metallic, non-metallic packaging and canned products, and the inspection effect will not be affected by temperature, humidity, salt content, etc.



Alarm lamp



Main power switch



USB and Ethernet ports



Military connecter



X-Ray generator





Inspect Option



Industrial computer



Detector



X-Ray locker



Air conditioner

Simple to Disassemble, Easy to Clean, and Reliable Security

- Good environment adaptability
- · Equipped with industrial air conditioner
- · Completely sealed structure to avoid dust
- Environmental humidity can reach 90%
- Environmental temperature can reach -10~40℃



Excellent Product Applicability

• Up to eight grade image processing technology to achieve the best product adaptability and stability



High Configuration of Hardware

• Spare parts are well-known imported brands to ensure the performance and service life of the machine





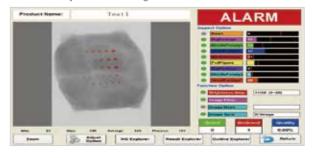






Excellent Operability

- 15-inch touch screen display, easy to operate,
- · Auto-learning function. Equipment will automatically remember qualified product parameters
- Automatically save the product images, which is convenient for user's analysis and tracking



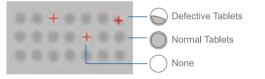
Shielding Function

- Cans shielding
- · Desiccant shielding
- Boundary shielding
- Sausage aluminum buckle shielding



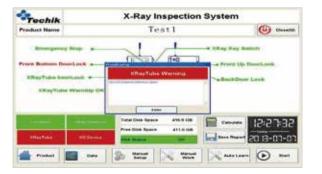
Defects Inspection Function

• The system will detect and inform tablet crack, tablet lacking, and tablet with contamination



Comprehensive and Reliable Security

- X-Ray leakage meets FDA and CE standards
- Perfect safe operation monitoring to prevent the leakage from mis-operation





Smart X-Ray Inspection System

- Competitive price
- Good sensitivity and stability

Model						
Inspection Width 200mm 300mm 400mm Inspection Height 150mm Best Inspection Ability Stainless steel ball Φ0.3mm Stainless steel wire Φ0.3*2mm Glass/Ceramic ball Φ1.0mm Conveyor Speed 10-60 m/min O/S Windows Protection Method Soft curtain X-Ray Leakage < 1 μSv/h IP Rate IP65 for tunnel Working Environment Humidity 30~90%, no dew Cooling Method Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	Model		TXE-2015 TXE-3015 TXE-4015		TXE-4015	
Inspection Height 150mm	X-Ray Tube		150W/210W/350W Optional			
Best Inspection Ability Stainless steel ball Φ0.3mm Stainless steel wire Φ0.3*2mm Glass/Ceramic ball Φ1.0mm Conveyor Speed 10-60 m/min 0/S Windows Protection Method Soft curtain X-Ray Leakage < 1 µSv/h IP Rate Working Environment Environment Humidity Temperature	Inspection W	/idth	200mm	300mm	400mm	
Stainless steel wire $\Phi 0.3^*2mm$ Glass/Ceramic ball $\Phi 1.0mm$ Conveyor Speed 10-60 m/min O/S Windows Protection Method Soft curtain X-Ray Leakage 1 µSv/h IP Rate 1P65 for tunnel Working Temperature 0~40°C Environment Humidity 30~90%, no dew Cooling Method Industrial air conditioning Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	Inspection H	eight	150mm			
O/S Protection Method Soft curtain X-Ray Leakage IP Rate IP 65 for tunnel Working Environment Humidity Temperature Humidity Tooling Method Industrial air conditioning Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure Power Supply Main Material SUS304		ion		Stainless steel wire Φ0.3*2mm		
Protection Method Soft curtain X-Ray Leakage < 1 μSv/h IP Rate IP65 for tunnel Working Environment Temperature 0~40°C Humidity 30~90%, no dew Cooling Method Industrial air conditioning Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	Conveyor Spo	eed		10-60 m/min		
X-Ray Leakage < 1 μSv/h IP Rate IP65 for tunnel Working Environment Humidity	O/S		Windows			
IP Rate Working Environment Humidity Cooling Method Reject Mode Reject Mode Air Pressure Power Supply Main Material IP65 for tunnel 0~40°C 100~90%, no dew Industrial air conditioning Sound and light alarm, belt stops (Rejecter optional) 0.8Mpa SUS304	Protection Me	ethod	Soft curtain			
Working Environment Temperature 0~40°C Humidity 30~90%, no dew Cooling Method Industrial air conditioning Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	X-Ray Leaka	ge	< 1 µSv/h			
Environment Humidity 30~90%, no dew Cooling Method Industrial air conditioning Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	IP Rate		IP65 for tunnel			
Cooling Method Industrial air conditioning Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	Working	Temperature	0~40°C			
Reject Mode Sound and light alarm, belt stops (Rejecter optional) Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	Environment	Humidity	30~90%, no dew			
Air Pressure 0.8Mpa Power Supply 2 kW Main Material SUS304	Cooling Meth	od	Industrial air conditioning			
Power Supply 2 kW Main Material SUS304	Reject Mode		Sound and light alarm, belt stops (Rejecter optional)			
Main Material SUS304	Air Pressure		0.8Mpa			
	Power Supply		2 kW			
Surface Treatment Rruched SUS	Main Material		SUS304			
Surface freatment	Surface Treatment		Brushed SUS			

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

Standard X-Ray Inspection System

Model			Standard T	XR Series		
Standard	2480	4080	4080SH	5080SH	6080SH	8040SH
X-Ray Tube			150W/210W/350	0W/480W Optional		
Inspection Width	240mm	400mm	400mm	500mm	600mm	800mm
Inspection Height	160mm	160mm	300mm	300mm	300mm	400mm
Best Inspection Sensitivity	Stainless steel ball Φ0.3mm Stainless steel wire Φ0.2*2mm Glass/Ceramic ball Φ0.8mm					
Conveyor Speed	10-90m/min (10-40m/min for heavy load)					
O/S	Windows					
Protection Method	Soft curtain					
X-Ray Leakage	< 1 µSv/h (CE Standard)					
IP Rate	IP66 (Under belt)					
Working Environment	Temperature: -10~40 ℃					
	Humidity: 30-90%, no dew					
Cooling Method	Industrial air conditioning					
Rejecter Mode	Sound and light alarm, belt stops (Rejecter optional)					
Air Pressure	0.8Mpa					
Power Supply	2.5 kW					
Main Material	SUS304					
Surface Treatment	Mirror polished/Sand blasted					

lote:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



· Optimized structure. With extended drive platform, the material can pass through the inspection tunnel smoothly

 $\cdot \text{Improved sensitivity. With faster CPU processing technology and big power X-Ray generator, the sensitivity has been increased$

· Faster speed and mass production. With Max 120m/min belt speed, the output has been greatly improved

·With high-speed air valve and 48 air jet rejecter system, the rejecter accuracy has been increased and the quantity of waste has been decreased a lot

Model	TXR-4080GP	TXR6080GP	
X-Ray Tube	210W/350W Optional		
Inspection Width	400mm	600mm	
Inspection Height	100mm		
Best Inspection Sensitivity	Stainless steel ba Stainless steel wire Glass/Ceramic ba	e Ф0.2*2mm	
Conveyor Speed	10-120 m/r	min	
O/S	Windows	s	
Protection Method	SUS Shield		
X-Ray Leakage	< 1 µSv/h (CE Standard)		
IP Rate	IP66 (Under belt)		
Marking Environment	Temperature: -10~40 °C		
Working Environment	Humidity:30~90% no dew		
Cooling Method	Industrial air conditioning		
Rejecter Mode	48/72/108 tunnel air jet rejecter (optional)		
Air Pressure	0.8Mpa		
Power Supply	3 kW		
Main Material	SUS304		
Surface Treatment	Mirror polished/Sand blasted		

Vote:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

Combo X-Ray & Visual Inspection System

Not only can Combo X-Ray & Visual Inspection System effectively detect foreign objects and impurities inside the raw materials, it can also identify internal and external defects of raw materials, and accurately remove branches, leaves, paper, stones, glass, plastic, metal, wormholes, mildew, and etc.

Model	TXR-V4080GP	TXR-V6080GP	
X-Ray Tube		350W Optional	
Inspection Width	400mm	600mm	
Inspection Heigh	100mm	100mm	
Best Inspection Sensitivity	Stainless st	steel ball Ф0.3mm eel wire Ф0.2*2mm amic ball Ф0.8mm	
Conveyor Speed	10-	-120m/min	
O/S	Windows		
Protection Method	≤1µSv/h (CE Standard)		
X-Ray Leakage	IP 66 under belt		
IP Rate	Temperature: -10~40 C		
Working Environment	Humidity:30~90% no dew		
Cooling Method	Industrial air conditioning		
Rejecter Mode	48/72/108 tunnel air jet rejecter (optional)		
Air Pressure	0.8Mpa		
Power Supply	3kW		
Main Material	SUS304		
Surface Treatment	Mirror polished/Sand blasted		

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



X-Ray Inspection System for Sealing, Stuffing and Leakage is expert in detecting sealing oil leakage and sealing material for the packaging material (aluminum foil, aluminized film, plastic film and other packaging). In addition, this equipment can also realize outer packaging defects visual inspection (for example: folds at the seal, crooked edge, oil stains, etc.), weight inspection.

Model	TXR-2480X	TXR-4080X	TXE-2015X	TXE-3015X	TXE-4015X
X-Ray Tube			350W		
Inspection Width	240mm	400mm	200mm	300mm	400mm
Inspection Heigh	160mm	160mm	150mm	150mm	150mm
Best Inspection Sensitivity		Si	Stainless steel ball Φ0.3mm ainless steel wire Φ0.2*2m Glass/Ceramic ball Φ0.8mm	m	
Conveyor Speed	10-90m/min	10-90m/min	10-60m/min	10-60m/min	10-60m/min
O/S	Windows				
Protection Method	SUS Shield				
X-Ray Leakage	≤1µSv/h (CE Standard)				
IP Rate	IP66 (Under belt)				
Working Environment	Temperature: -10~40 ℃ Humidity: 30~90%, no dew				
Cooling Method	Industrial air conditioning				
Rejecter Mode	Kinds of rejecters (optional)				
Air Pressure	0.8Mpa				
Power Supply	2.5kW				
Main Material	SUS304				
Surface Treatment	Mirror polished/Sand blasted				

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

Economical X-Ray Inspection System for Large Packages



It is specialized for the inspection of large size packages like big bags, cartons, boxes, etc.

Model	TXR-6080XH
X-Ray Tube	210W/350W Optional
Inspection Width	650mm
Inspection Height	500mm
Best Inspection Sensitivity (Without Product)	Stainless steel ball Φ0.5mm Glass/Ceramic ball Φ1.5mm
Conveyor Speed	10-40m/min
O/S	Windows
Protection Method	Soft curtain
X-Ray Leakage	< 1 µSv/h(CE Standard)
Working Environment	Temperature:-5~40 °C
Working Environment	Humidity:40-60%, no dew
Rejecter Mode	Sound and light alarm, belt stops (Rejecter optional)
Air Pressure	0.8Mpa
Power Supply	2.5 kW
Surface Treatment	Carbon Steel

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

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Dual Energy X-Ray Inspection System

Dual energy X-Ray inspection system, equipped with TDI dual-energy high-speed and high definition detector, together with intelligent deep learning technology, can realize the dual recognition of shape and material, and effectively improve the detection effect of small foreign objects such as stones. soil clods, snail shell and rubber, as well as thin sheet foreign matter such as aluminum, glass and PVC.

Model	TXR-2480DE	TXR-4080DE	
X-Ray Tube	350W		
Inspection Width	240mm	400mm	
Inspection Heigh	160mm	160mm	
Best Inspection Sensitivity	Stainless stee	el ball Φ0.3mm I wire Φ0.2*2mm iic ball Φ0.8mm	
Conveyor Speed	10-90m/min	10-90m/min	
O/S	Windows		
Protection Method	SUS Shield		
X-Ray Leakage	≤1µSv/h (CE Standard)		
IP Rate	IP66 (Under belt)		
Working Environment	Temperature: -10~40 [℃] Humidity:30~90% no dew		
Cooling Method	Industrial air conditioning		
Rejecter Mode	Kinds of rejecters (optional)		
Air Pressure	0.8Mpa		
Power Supply	2.5kW		
Main Material	SUS304		
Surface Treatment	Mirror polished/Sand blasted		

Vote:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

X-Ray Inspection System for Residual Bone Fragments

Suitable for in-line inspection of the residual bone fragments in meat processing, for instance, inspecting residual collarbones, shoulder blades in chicken.

·Compared with traditional single-energy inspection, the TXR-BDE series applies to dual-energy

 $\hbox{X-Ray inspection technology, achieving higher sensitivity and inspection rate.}\\$

· TXR-BDE series can identify cartilage and ignore the product effect of irregular shape.

Model	TXR-4080BDE		
X-Ray Tube	350W		
Inspection Width	400mm		
Inspection Height	160mm		
Best Inspection Sensitivity	Stainless steel ball Ф0.3mm Stainless steel wire Ф0.2*2mm Glass/Ceramic ball Ф0.8mm		
Conveyor Speed	10-60m/min		
O/S	Windows		
Protection Method	Soft curtain		
X-Ray Leakage	< 1 µSv/h (CE Standard)		
IP Rate	IP66 (Under belt)/IP69K		
Working Environment	Temperature: -10~40 ℃		
Working Environment	Humidity:30~90%, no dew		
Cooling Method	Industrial air conditioning		
Rejecter Mode	Sound and light alarm, belt stops (Rejecter optional)		
Air Pressure	0.8Мра		
Power Supply	3kW		
Main Material	SUS304		
Surface Treatment	Mirror polished/Sand blasted		

Note

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

X-Ray Inspection System for Fat Content Analysis

Fat analysis and bone detection for for all cuts of meat, bulk ground meat and packed meat (cartons, plastic trays, etc.). Available for fresh and frozen products.

Model	TXR-4080FA	TXR-6080FA	TXR-8040FA	
X-Ray Tube	350W/100	350W/100 500W/140		
Inspection Width	400mm	400mm 600mm 800mm		
Inspection Height	160mm	300mm	400mm	
Best Inspection Sensitivity	Stainless steel ball φ0.3mm Stainless steel wire Φ0.2*2mm Glass/Ceramic ball φ0.8mm	Stainless steel	l ball φ0.4mm wire Φ0.3*2mm c ball φ1.0mm	
Conveyor Speed	1	0-60m/min		
O/S		Windows		
Protection Method	Protection Tunnel			
X-Ray Leakage	<1 µSv/h			
IP Rate	IP67/IP69K			
Working Environment	Temperature: 0~40°C			
Working Environment	Humidity: 30-90%, no dew			
Cooling Method	Industri	Industrial air conditioning		
Rejecter Mode	Sound and light alarm, belt stop (Rejecter optional)			
Air Pressure	0.8 Mpa			
Power Supply	3 kW			
Main Material	SUS 304			
Surface Treatment	Mirror polished/Sand blasted			

ote:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

Photon-Counting X-Ray Inspection System

Widely used to check tiny bones



Model	TXR-2080PC	TXR-4080PC		
X-Ray Tube	500W			
Inspection Width	200mm 400mm			
Inspection Height	100mm	100mm		
Best Inspection Sensitivity	Stainless steel ball ф0.2mm Stainless steel wire Ф0.2*2mm (Auto Alarm) Glass/Ceramic ball ф0.8mm			
Conveyor Speed	10-40m/r	nin		
O/S	Window	Windows		
Protection Method	Protection Tunnel			
X-Ray Leakage	<1 μSv/h			
IP Rate	IP69K			
Working Environment	Temperature: −10~40°C			
Working Environment	Humidity: 30-90%, no dew			
Cooling Method	Industrial air cor	nditioning		
Rejecter Mode	Sound and light alarm, belt stop (Rejecter optional)			
Air Pressure	0.8 Mpa			
Power Supply	3 kW			
Main Material	SUS 304			
Surface Treatment	Mirror polished/Sand blasted			

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



Model	TXR-2080F	TXR-4080F	
X-Ray Tube	35	0W	
Inspection Width	200mm	400mm	
Inspection Height	100mm	100mm	
Best Inspection Sensitivity (Without Product)	Stainless steel wire Φ	el ball Ф0.3mm 0.2*2mm (Auto Alarm) ic ball Ф0.8mm	
Conveyor Speed	5-39	m/min	
O/S	Windows		
Protection Mode	Protection tunnel		
X-Ray Leakage	<1µSv/h		
IP Rate	IP66 (Under belt)/IP69K		
Working Environment	Temperature: -10~40 ℃		
Working Environment	Humidity:30~90%, no dew		
Cooling Method	Industrial air conditioning		
Rejecter Mode	Sound and light alarm, belt stop (Rejecter optional)		
Air Pressure	0.8Mpa		
Power Supply	3kW		
Main Material	SUS304		
Surface Treatment	Mirror polished/Sand blasted		

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

Single Beam X-Ray Inspection System for Bottles, Jars and Cans (Inclined Downward)

Single beam X-Ray inspection system with software specifically tailored to inspect objects in all regions of cans, tins and bottles

- · Adjustable inspection range based on different dimensions of cans and bottles
- ·It can achieve the inspection of filling levels
- ·It can achieve better performance for contaminants sinking at the bottom part of the cans and bottles

Model	TXR-1630SO
X-Ray Tube	350W/480W Optional
Max Detecting Width	160mm
Max Detecting Height	280mm
Best Inspection Ability	Stainless steel ball Ф0.5mm Stainless steel wire Ф0.3*2mm Glass/Ceramic ball Ф1.5mm
Conveyor Speed	10-120m/min
O/S	Windows
Protection Method	Protective tunnel
X-Ray Leakage	< 0.5 μSv/h
IP Rate	IP65
Warking Environment	Temperature: -10~40 ℃
Working Environment	Humidity:30~90%, no dew
Cooling Method	Industrial air conditioning
Rejecter Mode	Push rejecter /Piano key rejecter (optional)
Air Pressure	0.8Mpa
Power Supply	3.5kW
Main Material	SUS304
Surface Treatment	Mirror polished/Sand blasted

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



With special design, suitable for bottles or jars in standing conditions.

·Strong X-Ray power, suitable for inspection of jars, bottles, etc.

·High capacity, competitive price

Model	TXR-1630SH	
X-Ray Tube	350W/480W Optional	
Max Detecting Width	160mm	
Max Detecting Height	260mm	
Best Inspection Ability	Stainless steel ball Ф0.5mm Stainless steel wire Ф0.3*2mm Glass/Ceramic ball Ф1.5mm	
Conveyor Speed	10-120m/min	
O/S	Windows	
Protection Method	Protective tunnel	
X-Ray Leakage	< 0.5 μSv/h	
IP Rate	IP65	
Working Environment	Temperature: -10~40°C	
Working Environment	Humidity:30~90%, no dew	
Cooling Method	Industrial air conditioning	
Rejecter Mode	Push rejecter /Piano key rejecter (optional)	
Air Pressure	0.8Mpa	
Power Supply	3.5kW	
Main Material	SUS304	
Surface Treatment	Mirror polished/Sand blasted	

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

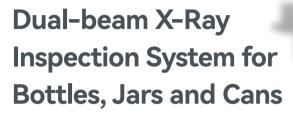
Split Triple Beam X-Ray Inspection System for Bottles, Jars and Cans

Foreign matter detection for cans, bottles and other containers. Equipped with the self-developed "Smart Supercomputing" intelligent algorithm, it has an excellent detection effect on foreign matter detection on irregular bottle bodies, bottle bottoms, screw openings, tinplate can pull rings, and flanges.

Model	TXR-JSU3-16
X-Ray Tube	350W/480W Optional
Max Detecting Width	160mm
Max Detecting Height	260mm
Best Inspection Ability	Stainless steel ball Ф0.5mm Stainless steel wire Ф0.3*2mm Glass/Ceramic ball Ф1.5mm
Conveyor Speed	10-120m/min
O/S	Windows
Protection Method	Protective tunnel
X-Ray Leakage	< 0.5 μSv/h
IP Rate	IP65
Working Environment	Temperature: -10~40°C
Working Environment	Humidity:30~90%, no dew
Cooling Method	Industrial air conditioning
Rejecter Mode	Push rejecter /Piano key rejecter (optional)
Air Pressure	0.8Mpa
Power Supply	3.5kW
Main Material	SUS304
Surface Treatment	Mirror polished/Sand blasted

Vote:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



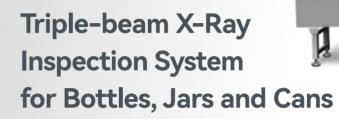
 $\label{thm:continuous} \mbox{Dual-beam X-Ray inspection system with software specifically tailored to inspect objects in all regions of cans, tins and bottles.}$

- · It can achieve inspection in double visual angles and avoid missing inspection of blind area
- · It can achieve better inspection ratio for irregular fragments
- \cdot Intelligent zoning to ensure optimal sensitivity for different areas

Model	TXR-2080BDX
X-Ray Tube	350W/480W Optional
Inspection Width	160mm
Inspection Height	260mm
Best Inspection Sensitivity	Stainless steel ball Φ0.5mm Stainless steel wire Φ0.3*2mm Glass/Ceramic ball Φ1.5mm
Conveyor Speed	10-120m/min
O/S	Windows
Protection Method	Protective tunnel
X-Ray Leakage	< 0.5 µSv/h
IP Rate	IP65
Working Environment	Temperature: -10~40 ℃
Working Environment	Humidity:30~90%, no dew
Cooling Method	Industrial air conditioning
Rejecter Mode	Push rejecter /Piano key rejecter (optional)
Air Pressure	0.8Mpa
Power Supply	4kW
Main Material	SUS304
Surface Treatment	Mirror polished/Sand blasted

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



The most reliable X-Ray inspection system with "adjustable point of view" on 3 X-Ray beams for any kind of jars, bottles, tins, etc.

- · Three X-Ray Beams ensure high detection accuracy
- · Three X-Ray Beams avoid inspection blind area

Model	TXR-20250
X-Ray Tube	350W/480W Optional
Inspection Width	160mm
Inspection Height	260mm
Best Inspection Sensitivity	Stainless steel ball Φ0.5mm Stainless steel wire Φ0.3*2mm Glass/Ceramic ball Φ1.5mm
Conveyor Speed	10-120m/min
O/S	Windows
Protection Method	Protective tunnel
X-Ray Leakage	< 0.5 µSv/h
IP Rate	IP65
Marking Environment	Temperature: -10~40 ℃
Working Environment	Humidity:30~90%, no dew
Cooling Method	Industrial air conditioning
Rejecter Mode	Push rejecter /Piano key rejecter (optional)
Air Pressure	0.8Mpa
Power Supply	4.5kW
Main Material	SUS304
Surface Treatment	Mirror polished/Sand blasted

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



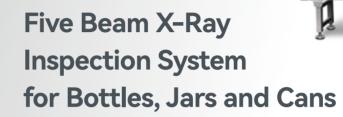
For products in upright cans, bottles, boxes, etc., it can conduct all-round detection of foreign objects in the product and the liquid level of the product in the can.

Intelligent partition detection and shielding detection algorithm, together with multi-beam multi-view structure design, truly realize all-round detection inside the container.

Model	TXR-1626-JDU4	TXR-1626-JDM4		
X-Ray Tube	350W/480W Optional			
Inspection Width	160mm			
Inspection Height	260mm			
Best Inspection Sensitivity	Stainless steel ball Φ0.5mm Stainless steel wire Φ0.3*2mm Glass/Ceramic ball Φ1.5mm			
Conveyor Speed	10-120m/min			
O/S	Windows			
Protection Method	Protective tunnel			
X-Ray Leakage	< 0.5 μSv/h			
IP Rate	IP65			
Working Environment	Temperature:	-10~40°C		
Working Environment	Humidity:30~90%, no dew			
Cooling Method	Industrial air conditioning			
Rejecter Mode	Push rejecter /Piano key rejecter (optional)			
Air Pressure	0.8Mpa			
Power Supply	4.5kW			
Main Material	SUS304			
Surface Treatment	Mirror polished/Sand blasted			

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.



Mainly used in high-speed production lines where more than four inspection-views are recommended. Low following costs thanks to split-beam technology.

Model	TXR-1626-JTM5
X-Ray Tube	480W
Inspection Width	160mm
Inspection Height	260mm
Best Inspection Sensitivity	Stainless steel ball φ0.3mm Stainless steel wire φ0.2*2mm Glass/Ceramic ball φ1.0mm
Conveyor Speed	10-120m/min
O/S	Windows
Protection Method	Sides: Occlusive Protective Tunnel
X-Ray Leakage	<1 μSv/h
IP Rate	IP65
Working Environment	Temperature:0~40°C
Working Environment	Humidity: 30-90%, no dew
Cooling Method	Industrial air conditioning
Rejecter Mode	High Speed Push Bar
Air Pressure	0.8 Mpa
Power Supply	4.5 kW
Main Material	SUS 304
Surface Treatment	Mirror polished/Sand blasted

Note:

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

X-Ray Inspection System for Sauce and Liquid

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

Model	TXR-2480Pi
X-Ray Tube	210W
Pipe Diameter	50mm, 63mm, 80mm
Best Inspection Sensitivity	Stainless steel ball Φ0.3mm Stainless steel wire Φ0.3*2mm Glass/Ceramic ball Φ1.0mm
O/S	Windows
X-Ray Leakage	< 1 µSv/h (CE Standard)
IP Rate	IP66 (For tunnel)
Working Environment	Temperature: -10~40 €
Working Environment	Humidity:0~90%, no dew
Cooling Method	Industrial air conditioning
Air Pressure	0.8MPa
Power Supply	2.5kW
Main Material	SUS304
Surface Treatment	Mirror polished/Sand blasted

Note

The technical parameter above namely is the result of sensitivity by inspecting only the test sample on the belt. The actual sensitivity would be affected according to the products being inspected.

Vision Inspection System

Vision Inspection Systems detect misprints, missing characters, wrong labels, barcodes, black spots, surface blemishes, and foreign objects to ensure product quality.











Light Source

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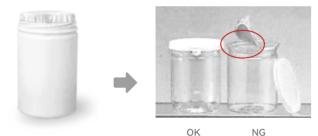
Vision Inspection System

Vision Inspection Systems offer complete inspection solutions to safeguard product quality and safety. They detect misprints, missing or misplaced characters, labeling errors, barcode defects, surface imperfections, black spots, blemishes, hair, and other foreign objects. With options for single-side and multi-side inspection, Vision Inspection Systems provide flexible quality control, helping manufacturers reduce errors, prevent contamination, and deliver reliable products to the market.

Features

- Detects misprints, missing or misplaced characters, and incorrect labeling.
- Identifies barcode errors to ensure accurate product information.
- Finds surface defects such as black spots, blemishes, and imperfections.
- Detects foreign objects including hair and other contaminants.
- Supports single-side, double-side, or multi-side inspection for full coverage.

Inspection Process & Effect



Products to Be Tested



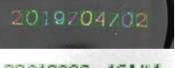
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Rejection of defective products

Qualified products to next process



Poor Aluminum Foil Sealing, No Aluminum Foil Sealing



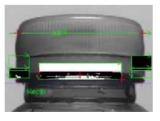
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Packaging Inkjet Coding Inspection RP 25.42+ST 4.58=RS 30 N.WT 14 G B.803964 LHR M.06 24 E.06 25 10:24

> Products with Unqualified Packaging Inkjet Coding



Liquid Level Detection for Bottled Products



High Deviation Cap Detection for Bottled Products

Inkjet Character Defect Detection System

Widely used for inspecting characters, labels, and barcodes on packaged products, such as omissions, misprints, and incorrect positioning.

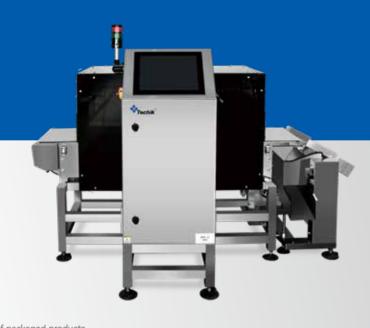


Vision Inspection SeriesTVS-G1TVS-G2Typical ApplicationsInkjet presence, inkjet position, production date recognition, label presence, label position, label type recognition, 1D/2D code readiDetection Accuracy0.5mmDetection Rate99.90%False Detection Rate0.10%Detection RangeUp to 100mm x 100mmCameraColor area scan industrial cameraLensHigh-definition fixed-focus lensLight SourceHigh-brightness LEDMulti-Camera ExpansionUp to 4 camerasMulti-Light Source ExpansionUp to 4 light sourcesApplicable ProductsFlat outer packagingSpeedUp to 70m/minThroughput600 pieces/min		Specification		
Detection Accuracy Detection Rate 99.90% False Detection Rate 0.10% Detection Range Up to 100mm x 100mm Camera Color area scan industrial camera Lens High-definition fixed-focus lens Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed	on Inspection Series	TVS-G1 TVS-G2		
Detection Rate 99.90% False Detection Rate 0.10% Detection Range Up to 100mm x 100mm Camera Color area scan industrial camera Lens High-definition fixed-focus lens Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	pical Applications	Inkjet presence, inkjet position, production date recognition, label presence, label position, label type recognition, 1D/2D code reading		
False Detection Rate Detection Range Up to 100mm x 100mm Camera Color area scan industrial camera Lens High-definition fixed-focus lens Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	etection Accuracy	0.5mm		
Detection Range Up to 100mm x 100mm Camera Color area scan industrial camera Lens High-definition fixed-focus lens Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	Detection Rate	99.90%		
Camera Color area scan industrial camera Lens High-definition fixed-focus lens Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	lse Detection Rate	0.10%		
Lens High-definition fixed-focus lens Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	Detection Range	Up to 100mm x 100mm		
Light Source High-brightness LED Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	Camera	Color area scan industrial camera		
Multi-Camera Expansion Up to 4 cameras Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Speed Up to 70m/min	Lens	High-definition fixed-focus lens		
Multi-Light Source Expansion Up to 4 light sources Applicable Products Flat outer packaging Up to 70m/min	Light Source	High-brightness LED		
Applicable Products Speed Up to 70m/min	i-Camera Expansion	Up to 4 cameras		
Speed Up to 70m/min	light Source Expansion	Up to 4 light sources		
	oplicable Products	Flat outer packaging		
Throughput 600 pieces/min 300 pieces/min	Speed	Up to 70m/min		
	Throughput	600 pieces/min 300 pieces/min		
Display 15" full-color touchscreen 12" full-color touchscreen	Display	15" full-color touchscreen 12" full-color touchscreen		
Operating System Windows 10	perating System	Windows 10		
Operation Language Multilingual (Chinese, English, etc.)	eration Language	Multilingual (Chinese, English, etc.)		
Alarm Method Audible and visual alarm	Alarm Method	Audible and visual alarm		
Data Interface LAN port, USB port	Data Interface	LAN port, USB port		
Product Management Complete product log	duct Management	Complete product log		
Operating Environment 0-40°C, 30-85% RH, non-condensing	rating Environment	0-40°C, 30-85% RH, non-condensing		
Material Stainless steel	Material	Stair	nless steel	
Power Supply Single-phase AC, 220V±10%, 50/60Hz	Power Supply	Single-phase AC	C, 220V±10%, 50/60Hz	
Dimensions (mm) 1060L x 730W x 1350H 380L x 292W x 605H	Dimensions (mm)	1060L x 730W x 1350H	380L x 292W x 605H	

otes:

- $1. The above parameters are measured under room temperature conditions of 25 ^{\circ} C, and specific indicators may vary depending on the environment, materials, and impurity content.$
- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

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Double/Multi-Sided Vision Inspection System

Widely used for inspecting characters, labels, barcodes, and defects on all sides of packaged products, such as misprints, missing characters, incorrect positioning, black spots, hair, and surface blemishes.

Specification			
Vision Inspection Series	TVS-G1-ZL2		
Main Functions	Detect product defects, appearance, black spots, hair, other foreign objects		
Typical Applications	Inkjet defects, product appearance defects, surface flaws, foreign object detection		
Performance Metrics	Varies by product conditions		
Detection Range	Standard 400mm width		
Lens	High-definition fixed-focus lens		
Light Source	High-brightness LED		
Multi-Camera Expansion	Up to 2 cameras		
Multi-Light Source Expansion	Up to 4 light sources		
Applicable Products	Product surface defect detection		
Max Speed	70m/min		
Display	TFT 15" full-color touchscreen		
Operating System	Windows 7		
Operation Language	Multilingual (Chinese, English, etc.)		
Alarm Method	Audible and visual alarm		
Data Interface	LAN port, USB port		
Product Management	Complete product log		
Operating Environment	0-40°C, 30-85% RH, non-condensing		
Material	Stainless steel		
Power Supply	Single-phase AC, 220V±10%, 50/60Hz		

Notes:

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- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

Optical Sorting System

The Optic Sorting System is a device for automatically sorting out the defective material by using the optoelectronic detecting technology according to the difference of the optical characteristics of the materials.





Feeder









Display Screen L

Lighting System

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Optical Sorting System

Food optical sorters are machines that use advanced imaging technology to inspect and separate food products based on their color, shape, size and appear-

Chute Color Sorter: A system where food passes through a chute, and sensors detect color differences to reject defective or unwanted items.

Belt AI Optical Sorter: A more advanced system where food items move along a belt while AI-powered cameras analyze them, identifying defects and sorting based on multiple attributes such as color, size, shape, appearance, features, etc.

Features and Advantages

Al-Powered Sorting System

Delivers enhanced accuracy through intelligent recognition and classification.

Ultra-High-Definition Cameras

Enables precise detection of micro-defects, hair, fine strings, and other tiny impurities.

Multiple Viewing Configurations

From top single view to multi-view (up to 360°) imaging, ensuring thorough inspection even in hard-to-reach areas.

High-Efficiency Material Handling

Belt speeds up to 180 m/min, with options for double-layer conveyors and two-stage sorting for higher output.

Food-Grade Hygienic Design

Fully welded stainless steel body, with waterproof and dustproof rating up to IP69K, suitable for dry, wet, and frozen material environments, with reliable operation in high-dust and wet environments.

Hygienic & Easy Maintenance Design

Belt guick-release mechanism for fast cleaning and reduced downtime.

Rejected Impurities







Feather































Thin paper











Wooden pole















UHD Intelligent Medium



Constitution				
Specification Specification				
Model	TCS-600VB-LSW	TCS-900VB-LSW	TCS-1200VB-LSW	
Belt Width	600mm 900mm 1200mm			
Channel Number	2*63			
Machine Speed	96m/min			
Power Consumption	2.5kW 3.2kW 4.0kW			
Air Consumption	≤1.2 m³/min	≤1.8 m³/min	≤2.4 m³/min	
Operation	15" LCD Screen			
UHD Camera	1024*1024, 2048*2048			
Processor Configuration	25× faster processing than vertical model with PC + high-speed GPU/board chip			
Network Communication	4G (Wireless,Wired)			
Air Source Pressure	0.6 ~ 0.8MPa			
Body Material	SUS304			
Surface Dealing	Brushed Stainless Steel			
Cooling Method	Air Conditioned Cooling			
Environmental, electrical, operating specifications				
Operating Temperature		0-40°C		
Relative Humidity		30-90%		
Power Supply	220V, AC, 50/60Hz			

- 1. The above parameters are measured under room temperature conditions of 25°C, and specific indicators may vary depending on the environment, materials, and impurity content.
- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

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UHD Intelligent Multi Beam Belt Optical Sorter

Suitable for vegetables (lettuce, green beans, corn, cucumbers, peppers, potatos etc.), fruits (strawberries, tomatoes, mango, cherries, blueberries, etc.), meatballs, seafood, nuts etc.

Specification Specification				
Model	TCS-600VC-BSW TCS-1200VC-BSW TCS-1800VC-BSW			
Belt Width	600mm 1200mm 1800mm			
Channel Number	2*63			
Machine Speed	240m/min			
Power Consumption	9.5kW 11.3kW 13kW			
Air Consumption	≤1.2 m³/min	≤2.4 m³/min	≤3.2 m³/min	
Operation	15" LCD Screen			
UHD Camera	2048*2048			
Processor Configuration	25× faster processing than vertical model with PC + high-speed GPU/board chip			
Network Communication	4G (Wireless,Wired)			
Air Source Pressure	0.6 ~ 0.8MPa			
Body Material	SUS304			
Surface Dealing	Brushed Stainless Steel			
Cooling Method	Air Conditioned Cooling			
Environmental, electrical, operating specifications				
Operating Temperature	-10-40°C			
Relative Humidity	30-90%			
Power Supply	380V, AC, 50/60Hz			

Notes:

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- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

UHD Intelligent Long Distance Belt Optical Sorter

Widely used for materials such as beans, nuts, seeds, vegetables, fruits, herbs, chili pepper.

Specification Sp				
Model	TCS-600LB TCS-1200LB TCS-1800LB			
Belt Width	600mm 1200mm 1800mm			
Channel Number	2*63 4*63 6*63			
Machine Speed	180m/min			
Power Consumption	2.5kW 4.0kW 4.8kW			
Air Consumption	≤1.2 m³/min	≤2.4 m³/min	≤3.2 m³/min	
Operation	15" LCD Screen			
UHD Camera	1024*1024, 2048*2048			
Processor Configuration	25× faster processing than vertical model with PC + high-speed GPU/board chip			
Network Communication	4G (Wireless,Wired)			
Air Source Pressure	0.6 ~ 0.8MPa			
Body Material	SUS304			
Surface Dealing	Brushed Stainless Steel			
Cooling Method	Air Conditioned Cooling			
Environmental, electrical, operating specifications				
Operating Temperature	0-40℃			
Relative Humidity	30-90%			
Power Supply	220V, AC, 50/60Hz			

- $1. The above parameters are measured under room temperature conditions of 25 ^{\circ}\text{C}, and specific indicators may vary depending on the environment, materials, and impurity content.$
- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

Double Layer Intelligent UHD Long Distance Belt Optical Sorter

Widely used for materials such as beans, nuts, seeds, vegetables, fruits, herbs, chili pepper.

Specification Specification						
Model	TCS-600LB-BDS	TCS-1200LB-BDS	TCS-1800LB-BDS			
Belt Width	600mm	1200mm	1800mm			
Channel Number	4*63	8*63	12*63			
Machine Speed		180m/min				
Power Consumption	4.0kW	6.7kW	8.8kW			
Air Consumption	≤2.4 m³/min	≤4.5 m³/min	≤6.0 m³/min			
Operation	15" LCD Screen					
UHD Camera	1024*1024, 2048*2048					
Processor Configuration	25× faster processing than vertical model with PC + high-speed GPU/board chip					
Network Communication	4G (Wireless,Wired)					
Air Source Pressure	0.6 ~ 0.8MPa					
Body Material	SUS304					
Surface Dealing	Brushed Stainless Steel					
Cooling Method	Air Conditioned Cooling					
Environmental, electrical, operating specifications						
Operating Temperature	0-40℃					
Relative Humidity	30-90%					
Power Supply	220V, AC, 50/60Hz					

Notes:

1. The above parameters are measured under room temperature conditions of 25°C, and specific indicators may vary depending on the environment, materials, and impurity content.

2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

UHD Intelligent Top View Belt Optical Sorter

 $Widely \ used \ for \ nuts, tea, frozen \ vegetables, fruits, seafood, chili, dehydrated \ green \ onions, garlic, carrots \ etc.$

Specification Sp						
Model	TCS-600VA-BSW	TCS-1200VA-BSW	TCS-1800VA-BSW			
Belt Width	600mm	1200mm	1800mm			
Channel Number	2*63	4*63 6*63				
Machine Speed		80m/min				
Power Consumption	2.5kW	4.0kW 4.8kW				
Air Consumption	≤1.2 m³/min	≤2.4 m³/min ≤3.2 m³/mii				
Operation	15" LCD Screen					
UHD Camera	1024*1024, 2048*2048					
Processor Configuration	GPU+CPU processing speed is more than 25 times faster than ordinary vertical color sorter					
Network Communication	4G (Wireless,Wired)					
Air Source Pressure	0.6 ~ 0.8MPa					
Body Material	SUS304					
Surface Dealing	Brushed Stainless Steel					
Cooling Method	Air Conditioned Cooling					
	Environmental, electric	al, operating specifications				
Operating Temperature	0-40℃					
Relative Humidity	30-90%					
Power Supply	220V, AC, 50/60Hz					

Notes:

- 1. The above parameters are measured under room temperature conditions of 25°C, and specific indicators may vary depending on the environment, materials, and impurity content.
- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

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Multi Functional Chute Optical Sorter

Widely used for materials such as rice, beans, nuts, seeds and plastics. It is mainly used to detect and remove impurities with different color.

Specification Specification										
Model	TCS-1T	TCS-2T	TCS-3T	TCS-4T	TCS-5T	TCS-6T	TCS-7T	TCS-8T	TCS-10T	TCS-12T
Channel Number	1*63	2*63	3*63	4*63	5*63	6*63	7*63	8*63	10*63	12*63
Power Consumption	1.0kW	1.5kW	2.0kW	2.5kW	3.0kW	3.4kW	3.8kW	4.2kW	4.8kW	5.5kW
Air Consumption	≤0.8 m³/min	≤1.2 m³/min	≤1.8 m³/min	≤2.4 m³/min	≤2.8 m³/min	≤3.2 m³/min	≤3.8 m³/min	≤4.2 m³/min	≤5.0 m³/min	≤6.0 m³/mir
Air Source Pressure	0.6 ~ 0.8MPa									
Operation	15" LCD Screen									
Network Communication	4G (Wireless,Wired)									
Camera	2048									
Valve	High-pressure Low-pulse Width Spray Valve System									
Valve Service Life	>15 billion times									
LED Service Life		>100000h								
Body Material	Carbon Steel / Stainless Steel									
Environmental, electrical, operating specifications										
Operating Temperature	0-40°C									
Power Supply	220V, AC, 50/60Hz									

Notes

1. The above parameters are measured under room temperature conditions of 25°C, and specific indicators may vary depending on the environment, materials, and impurity content.

2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

Mini Chute Optical Sorter

The mini sorter is tailor-made for small seeds processors, coffee roasters, scientific research institutes, universities, labs, etc.

It has small footprint and is mobile! With the combination of color & shape sorting, it is able to recognize shells, split and broken commodities.

Specification Specification						
Model	TCS-1T-MI					
Channel Number	1*32					
Power Consumption	0.6KW					
Air Consumption	≤0.5m³/min					
Air Source Pressure	0.6~0.8MPa					
Operation	10" LCD Screen					
Network Communication	4G (Wireless, Wired)					
Camera	1024					
Valve	High-pressure Low-pulse Width Spray Valve System					
Valve Service Life	>15 billion times					
LED Service Life	>100000h					
Body Material	Carbon Steel /Stainless Steel					
Environmental, electrical, operating specifications						
Operating Temperature	10-40°C					
Power Supply	220V, AC, 50/60Hz					

- $1. The above parameters are measured under room temperature conditions of 25 ^{\circ}\text{C}, and specific indicators may vary depending on the environment, materials, and impurity content.$
- 2. The above model is a standard sample machine. If there are any updates to the product, no further notice will be given, and the actual machine shall prevail.

Farm Products Optical Sorter

Top View Belt Optical Sorter

Widely used for small particles, powdery, and flat products such as tea, dehydrated vegetables, meat floss, date granules, sugar, peppercorns, chili powder, parsley powder, etc.

Specification							
Model	TCS-600VA	TCS-1200VA	TCS-1800VA				
Belt Width	600mm	1200mm	1800mm				
Channel Number	2*63 4*63 6*6		6*63				
Machine Speed	90m/min						
Air Consumption	≤1.2 m³/min	≤4.0 m³/min	≤4.8 m³/min				



Composite Infrared & Vision Belt Optical Sorter

Widely used in industries such as vegetables, nuts, kernels, and traditional Chinese medicine—for example, walnuts, pumpkin seeds, raisins, and coffee beans—for applications like walnut kernel separation, pumpkin seed kernel separation, raisin stem sorting, and stone removal from coffee beans.

Specification					
Model	TCS-600DB-B				
Belt Width	600mm				
Channel Number	2*63				
Machine Speed	180m/min				
Air Consumption	≤1.2 m³/min				



Rice Chute Optical Sorter

Transparent, plastic and non-metallic particles and particles of different colors, sizes, shapes and even physical properties can be sorted. Infrared sensor has been widely used in color sorting when there is material overlap.

Specification							
Model	TCS-5T	TCS-6T	TCS-7T	TCS-8T	TCS-10T	TCS-12T	
Channel Number	5*63	6*63	7*63	8*63	10*63	12*63	
Power Consumption	3.0kW	3.4kW	3.8kW	4.2kW	4.8kW	5.5kW	
Air Consumption	≤2.8m³/min	≤3.2m³/min	≤3.8m³/min	≤4.2m³/min	≤5.0m³/min	≤6.0m³/min	



Compact Chute Optical Sorter

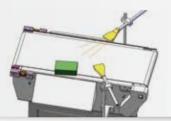
Small size, small space occupation, 5400 pixel camera, strong applicability for occasions with low output.

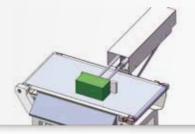
Specification							
Model	TCS-GS1T	TCS-GS1T	TCS-GS2T	TCS-GS3T			
Channel Number	1*63	1*80	2*63	3*63			
Power Consumption	1.0kW	1.2kW	1.5kW	2.0kW			
Air Consumption	≤0.8m³/min	≤0.9m³/min	≤1.2m³/min	≤1.8m³/min			



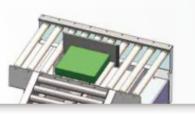
Rejecter Series

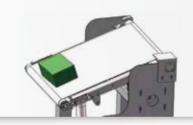


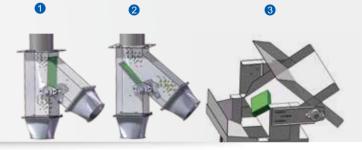












Flipper Type

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.