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Techik group | Optical sorter website | Video website

# PRODUCT CATALOG

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



Technik

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## Rejecter Series

Techik®

# Company Introduction

Techik Instrument (Shanghai) Co., Ltd., established in 2008, is a high-tech enterprise specializing in the research and development of intelligent inspection and sorting technologies and equipment. Focusing on the food processing and agricultural product industries, Techik provides whole-chain, one-stop solutions for inspection, sorting, grading, and analysis through multispectral, multi-energy, and multi-sensor technologies.

Leveraging advanced technologies such as IoT, big data, and AI, Techik also develops intelligent centralized control platform solutions to support customers in digital transformation and smart manufacturing upgrades, driving industrial modernization and sustainable development.











VARIOUS INDUSTRY SOLUTIONS · COMPLETE PRODUCT PORTFOLIO · ADVANCED SMART ALGORITHM

# INSPECTION | SORTING | GRADING | ANALYSIS

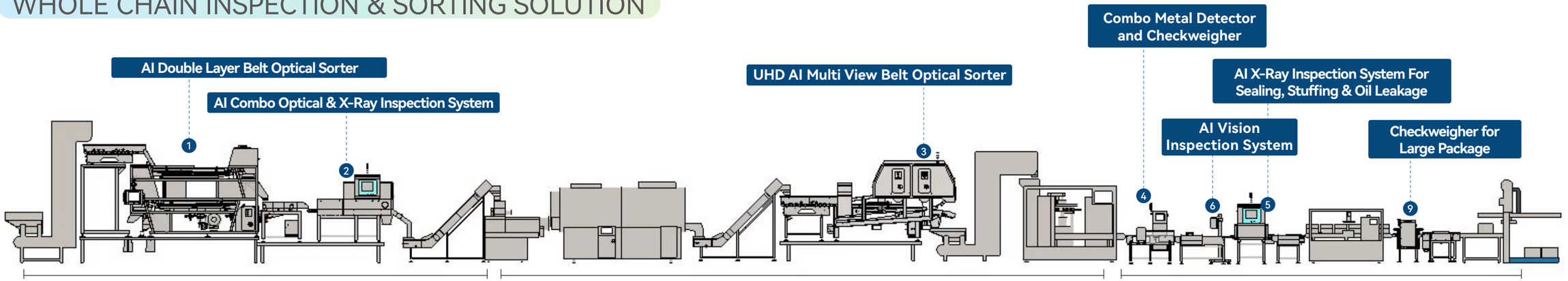
Driven by AI innovation, Techik provides customers with whole chain inspection and sorting solutions in industries such as food and agricultural products, with technologies of multi-spectrum, multi-energy spectrum, and multi-sensor.

**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



# 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


Emergency Stop Button


Alarm light


Shaft


Inverter


Motor


Relay

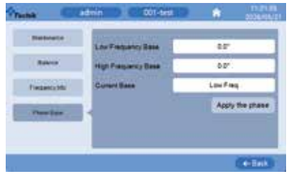

Photoelectric Sensor

## Metal Detector IMD Series

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

### Stable and High Sensitivity

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



### High Configuration

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







### User-friendly Function

- Multi languages
- Customization
- Large memory capacity







### Auto-learning Function

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





# Conveyor Belt Metal Detector

Phase tracking, product tracking, and auto balance calibration improve detection sensitivity and stability while expanding the detection range.

| Model | | IMD | | |
|---|---|---|---|---|
| Specifications | | 4008,4012<br>4015,4018 | 5020,5025<br>5030,5035 | 6025,6030 |
| Detection Width | | 400mm | 500mm | 600mm |
| Detection Height | | 80mm-350mm | | |
| Sensitivity | Fe | Φ0.5-1.5mm | | |
| | 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.



# 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<br>4015,4018 | 5020,5025<br>5030,5035 | 6025,6030 |
| Detection Width | | 400mm | 500mm | 600mm |
| Detection Height | | 80mm,120mm<br>150mm,180mm | 200mm,250mm<br>300mm,350mm | 250mm<br>300mm |
| Sensitivity | Fe | Φ0.5mm,Φ0.6mm<br>Φ0.7mm,Φ0.8mm | Φ0.8mm, Φ1.0mm<br>Φ1.2mm, Φ1.5mm | Φ1.2mm<br>Φ1.5mm |
| | SUS304 | Φ0.9mm,Φ1.2mm<br>Φ1.5mm,Φ2.0mm | Φ2.0mm, Φ2.5mm<br>Φ2.5mm, Φ3.0mm | Φ2.5mm<br>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.



# 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 | | | | | | |
| | 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.



# 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/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 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 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.



# Pipeline Metal Detector

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.

# Checkweigher System

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





Alarm light



Emergency Stop Button



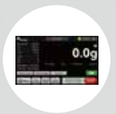
Load cell



Motor



Inverter



Touch screen



Photoelectric Sensor

## 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

### High-speed Precision

- Speed up to 120m/min
- Accuracy up to +0.1g
- Storage up to 999 products





### Feature-Rich

- Automatic self-learning
- USB and Ethernet connectivity
- Remote data statistics





### User-Friendly

- Touch screen
- Password protection
- Smart configuration







# Standard Checkweigher

Provides stable and precise dynamic weighing at speeds up to 200 packs/min or 70 m/min, with accuracy up to ±0.2g, ideal for online weight inspection in food, pharmaceutical, and consumer goods industries.

| Model | | IXL-III-220-G | IXL-III-300-G | IXL-III-350-G | IXL-III-400S-G |
|---|---|---|---|---|---|
| Weighing Range | | 10~2000g | 20~6000g | 20~6000g | 20~6000g |
| Scale Interval | | 0.1g | 0.1g | 0.1g | 0.2g |
| Accuracy | | ≥±0.2g | ≥±0.3g | ≥±0.3g | ≥±0.5g |
| Maximum Throughput | | 200pcs/min | 150pcs/min | 120pcs/min | 100pcs/min |
| Conveyor Speed (m/min) | | ≤70m/min | | | |
| Product Size | Width(mm) | 210 | 290 | 340 | 390 |
| | Length(mm) | 200/300 | 250/350 | 300/400 | 500 |
| Belt Width | Width(mm) | 220 | 300 | 350 | 400 |
| Infeed Conveyor Length | Length(mm) | 400 | 450 | 500 | -/600 |
| Weighing Conveyor Length | Length(mm) | 300/400 | 350/450 | 400/500 | 600 |
| Conveyor Height | | 550~1050±50mm | | | |
| Touchscreen | | 10-inch touch screen | | | |
| Product Recipe Memory | | 999 product recipe | | | |
| Rejecter | | Air blast, Pusher, Drop down, Blade, Flipper | | | |
| Power Supply | | AC 220V 50/60Hz | | | |
| Ingress Protection | | IP54 (Standard) /IP65 (Optional) | | | |
| Main Material | | SUS304 | | | |
| Surface Treatment | | Brushed (Standard) /Sand Blasted (Optional) | | | |

*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 Packages

High-load, high-precision, and highly stable dynamic weighing, adaptable to multiple industries and precisely meeting product weighing requirements.



| Model | | IXL-III-400L-G | IXL-III-500-G | IXL-III-600-G |
|---|---|---|---|---|
| Weighing Range | | 0.2~30kg | 0.2~50kg | 0.2~100kg |
| Division Value (Scale Interval) | | 1g | 2g | 5g |
| Accuracy | | ≥±5g | ≥±10g | ≥±20g |
| Maximum Weighing Speed | | 100pcs/min | 80pcs/min | 50pcs/min |
| Conveyor Speed (m/min) | | ≤80m/min | ≤60m/min | ≤60m/min |
| Product Size Compatibility | Width (mm) | 390 | 490 | 590 |
| | Length (mm) | 450/650 | 450/650 | 1000 |
| Conveyor Width (mm) | Width (mm) | 400 | 500 | 600 |
| Weighing Section Length (mm) | Length (mm) | 600/800 | 600/800 | 1200 |
| Machine Structure | | 1 section | | |
| Conveyor Height | | 550–1050 ±50 mm | | |
| Control Screen | | 10-inch touchscreen | | |
| Product Memory Capacity | | Up to 999 product recipes | | |
| Reject Mode | | Pusher: max. 25 kg;<br>Swing arm: max. 15 kg;<br>Integrated roller: max. 30 kg. | | |
| Power Supply | | AC 220V, 50/60Hz | | |
| Protection Rating | | IP54 or IP65 | | |
| Main Material | | Stainless Steel 304 | | |
| Surface Finish | | Brushed / Polished (optional) | | |

**Notes:**
Specifications subject to change without notice; actual machine prevails. Standard models shown; custom options available.

# High-speed Checkweigher

- High speed, up to 400 packs/min or 120 m/min, with accuracy up to ±0.05g.



| Model | | IXL-100-H | IXL-150-H | IXL-220-H |
|---|---|---|---|---|
| Detecting Range | | 2~600g | 2~1200g | 10~1200g |
| Scale Interval | | 0.01g | 0.05g | 0.1g |
| Accuracy (3σ) | | ±0.05g | ±0.1g | ±0.2g |
| Belt Speed | | ≤120m/min | | |
| Weighed Product Size | Width | 90mm | 140mm | 210mm |
| | Length | 120/170mm | 120/170/200mm | 170/200/300mm |
| Weigher Platform Size | Width | 100mm | 150mm | 220mm |
| | Length | 200/250mm | 200/250/300mm | 250/300/350mm |
| Touchscreen | | 10-inch touch screen | | |
| Product Storage Quantity | | 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.

# Weighing and Labeling System

- Integrated weighing and labeling system combining high-precision weighing, automatic calculation, printing, and labeling, ideal for food, daily chemical, and pharmaceutical applications.




| Model | | IXLP-III-220-G | IXLP-III-300-G | IXLP-III-350-G | IXLP-III-400S-G |
|---|---|---|---|---|---|
| Weighing Range | | 10-2000g | 20-6000g | 20-6000g | 20-6000g |
| Division Value (Scale Interval) | | 0.1g | 0.1g | 0.1g | 0.2g |
| Accuracy | | ≥±0.2g | ≥±0.3g | ≥±0.3g | ≥±0.5g |
| Label Printer Brand | | Domino (UK) | | | |
| Print Width | | 4 inches (108 mm) | | | |
| Print Technology | | Thermal Transfer / Direct Thermal | | | |
| Print Resolution | | 12 dots/mm (300 dpi) | | | |
| Printer Orientation | | Left-hand or Right-hand configuration | | | |
| Max. Print Speed | | Up to 400 mm/s | | | |
| Distance to Product (D) | | 200 mm model: 10–160 mm<br>400 mm model: 10–360 mm<br>600 mm model: 10–560 mm | | | |
| Product Movement Type | | Moving or Stationary | | | |
| Labeling Method | | Contact (Tamp / Press-on) | | | |
| Labeling Position | | Top / Side | | | |
| Recommended Label Width | | 25–110mm | | | |
| Recommended Label Length | | 15–210mm | | | |
| Label & Ribbon Roll Length | | ≤600m | | | |
| Product Size Compatibility | Width (mm) | 210 | 290 | 340 | 390 |
| | Length (mm) | 200/300 | 250/350 | 300/400 | 500 |
| Conveyor Width (mm) | Width (mm) | 220 | 300 | 350 | 400 |
| Feeding Section Length (mm) | Length (mm) | 400 | 450 | 500 | -/600 |
| Weighing Section Length (mm) | Length (mm) | 300/400 | 350/450 | 400/500 | 600/- |
| Labeling Section Length (mm) | Length (mm) | 400 | 450 | 500 | -/600 |
| Machine Structure | | 3 sections (integrated main unit and labeling section) | | | 1 section (main unit) + 1 section (labeling section)<br>2 sections (infeed + main unit) + 1 section (labeling section) |
| Conveyor Height | | 550–1050 ±50 mm | | | |
| Control Screen | | 10-inch touchscreen | | | |
| Product Memory Capacity | | Up to 999 product recipes | | | |
| Power Supply | | AC 220V, 50/60Hz | | | |
| Protection Rating | | IP54 or IP65 | | | |
| Main Material | | Stainless Steel 304 | | | |
| Surface Finish | | Brushed / Polished (or specify if needed) | | | |

***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



- 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 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 | | |
| Rejection System | | Rejecter optional | | |
| 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.

# X-Ray Inspection System

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



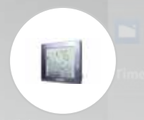
Military connecter



X-Ray generator



HD touch screen



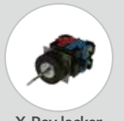
Industrial computer



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℃



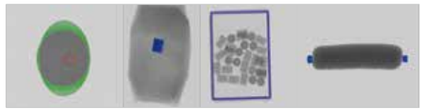
## Excellent Product Applicability

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



## Shielding Function

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



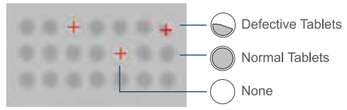
## High Configuration of Hardware

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

OMRON Panasonic CKD Schneider Electric
PHILIPS MISUMI Pfannenberg V.J GROUP

## Defects Inspection Function

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




## 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




## 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 | | TXE-2015 | TXE-3015 | TXE-4015 |
|---|---|---|---|---|
| X-Ray Tube | | 150W/210W/350W Optional | | |
| Inspection Width | | 200mm | 300mm | 400mm |
| Inspection Height | | 150mm | | |
| Best Inspection Ability | | Stainless steel ball Φ0.3mm<br>Stainless steel wire Φ0.3*2mm<br>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 | 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 | | |
| 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

Designed for inspection of small to medium packaged and unpackaged products, providing comprehensive detection of foreign objects (metal and non-metal), missing items, and weight deviation.



| Model | Standard TXR Series | | | | | | |
|---|---|---|---|---|---|---|---|
| Standard | 2480 | 4080 | 4080SH | 5080SH | 6080SH | 8040SH | 12050SH |
| X-Ray Tube | 150W/210W/350W/480W Optional | | | | | | |
| Inspection Width | 240mm | 400mm | 400mm | 500mm | 600mm | 800mm | 1200mm |
| Inspection Height | 160mm | 160mm | 300mm | 300mm | 300mm | 400mm | 500mm |
| Best Inspection Sensitivity | Stainless steel ball Φ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>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℃<br>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 | | | | | | |

***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.

# High Configuration X-Ray Inspection System for Bulk Products



- Optimized structure. With extended drive platform, the material can pass through the inspection tunnel smoothly
- 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 ball Φ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>Glass/Ceramic ball Φ0.8mm | |
| Conveyor Speed | 10-120m/min | |
| O/S | Windows | |
| Protection Method | SUS Shield | |
| X-Ray Leakage | < 1 μSv/h (CE Standard) | |
| IP Rate | IP66 (Under belt) | |
| Working Environment | Temperature: -10~40℃<br>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 | |

***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.

# Combo X-Ray & Vision 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 | 210W/350W Optional | |
| Inspection Width | 400mm | 600mm |
| Inspection Heigh | 100mm | 100mm |
| Best Inspection Sensitivity | Stainless steel ball Φ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>Glass/Ceramic ball Φ0.8mm | |
| 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.

# 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<br>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 |
| | 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.



# X-Ray Inspection System for Sealing, Stuffing and Leakage

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 | Stainless steel ball Φ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>Glass/Ceramic ball Φ0.8mm | | | | |
| 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.

# Combo X-Ray & Checkweighing & Vision System



Combo machine for X-Ray + checkweigher + vision system.
Comprehensive inspection of foreign contaminant, weight, outer package and label.

| Specification | | Standard | | High Precision | | For Long Pack | |
|---|---|---|---|---|---|---|---|
| Model | | XCV-2215-G | XCV-3015-G | XCV-1515-H | XCV-2215-H | XCV-3025-G | XCV-4025-G |
| X-Ray Tube | | 210W/350W（optional） | | | | | |
| Inspection Width | | 220mm | 300mm | 150mm | 220mm | 300mm | 400mm |
| Inspection Height | | 150mm | 150mm | 150mm | 150mm | 250mm | 250mm |
| Detection Sensitivity | SUS304 Ball(Φ) | 0.3mm | | | | | |
| | SUS304 Wire | 0.2x2mm | | | | | |
| | Glass Ball(Φ) | 0.8mm | | | | | |
| | Ceramic Ball(Φ) | 0.8mm | | | | | |
| Weighing Range | | 10~2000g | | 2~600g | | 20~6000g | |
| Scale Interval | | 0.1g | | 0.01g | 0.02g | 0.1g | 0.2g |
| Weighing Accuracy | | ≥±0.2g | ≥±0.3g | ≥±0.1g | ≥±0.15g | ≥±0.3g | ≥±0.5g |
| Maximum Throughput | | 250pcs/min | 200pcs/min | 300pcs/min | 250pcs/min | 120pcs/min | |
| Conveyor Speed | | ≤90m/min | | ≤120m/min | | ≤70m/min | |
| Product Dimensions | Width | 210mm | 290mm | 140mm | 210mm | 290mm | 390mm |
| | Length | 200mm/300mm | 250mm/350mm | 170mm/200mm | 200mm/250mm | 400mm/500mm | 400mm/500mm |
| X-Ray Conveyor Length | Length | 600mm | 600mm | 455mm | 455mm | 350mm | 350mm |
| Weighing Conveyor Length | Length | 300mm/400mm | 350mm/450mm | 250mm/300mm | 300mm/350mm | 500mm/600mm | 500mm/600mm |
| Vision Inspection | | Top & Bottom Vision Inspection (Optional) | | | | | |
| Additional Functions | | Automatic Verification Function | | Automatic Equipment Performance Verification Function | | | |
| Conveyor Height | | 550~1050 ±50mm | | | | | |
| Operation Screen | | 17" Touchscreen | | | | | |
| Product Memory Capacity | | Storage for 999 Products | | | | | |
| Reject Method | | Air Jet, Pusher, Drop Flap, Swing Arm, Flip Rejector | | | | | |
| Power Supply | | AC 220V 50/60Hz | | | | | |
| Protection Rating | | Product Tunnel IP65 | | | | Product Tunnel IP66 | |
| Main Material | | Stainless Steel 304 | | | | | |
| Surface Treatment | | Brushed Finish (Standard) / Sandblasted Finish (Optional) / Mirror Finish (Optional) | | | | | |

***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 Sausage Products

Inline X-Ray Inspection System for Sausage Products designed for stable, roll-free transport and clear imaging, with AI-powered accuracy and easy-to-clean structure.



| Model | | TXRSA1-3015 | TXRSA2-3015 | TXRSA2-4015 |
|---|---|---|---|---|
| X-Ray Tube | | 350W/500W | | |
| Sausage Inner Diameter | | ≤5cm | | |
| Conveyor Speed (m/min) | | 10-90m/min | | |
| Detection Sensitivity | SUS304 Ball(Φ) | 0.3mm | | |
| | SUS304 Wire | 0.2x2mm | | |
| | Glass Ball(Φ) | 0.8mm | | |
| | Ceramic Ball(Φ) | 0.8mm | | |
| Power Supply | | AC220V, 1.5KvA, 5O/60Hz | | |
| Product Form | | Packaged / Bulk | | |
| Conveyor Material | | Food Grade PU | | |
| Protection Rating | | Product Tunnel IP65 | | |
| Interfaces | | LAN port USB port | | |

***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 Portion Control

Designed for long strip dough, meat products, and other flexible foods, integrating foreign body detection and precise weight-based cutting with real-time X-Ray guided portion control, supported by multi-channel synchronized operation and AI-powered control.



| Model | | TXRQC-G3-4016 |
|---|---|---|
| X-Ray Tube | | 210W |
| Inspection Width | | 400mm |
| Inspection Height | | 160mm |
| Tunnel (Qty) | | 1,2,3 |
| Conveyor Speed (m/min) | | 10-90m/min |
| Detection Sensitivity | SUS304 Ball(Φ) | 0.3mm |
| | SUS304 Wire | 0.2x2mm |
| | Glass Ball(Φ) | 0.8mm |
| | Ceramic Ball(Φ) | 0.8mm |
| Load Capacity (KG) | | 10 |
| Power Supply | | AC220V, 1.5KvA, 5O/60Hz |
| Product Form | | Packaged / Bulk |
| Conveyor Material | | Food Grade PU |
| Protection Rating | | Product Tunnel IP66 |
| Interfaces | | LAN port USB port |

***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.

# 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 steel ball Φ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>Glass/Ceramic 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 C  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.

# 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 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 Φ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>Glass/Ceramic ball Φ0.8mm |
| 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 C |
| | 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 | 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 | 500W/140 | |
| Inspection Width | 400mm | 600mm | 800mm |
| Inspection Height | 160mm | 300mm | 400mm |
| Best Inspection Sensitivity | Stainless steel ball ϕ0.3mm<br>Stainless steel wire Φ0.2*2mm<br>Glass/Ceramic ball ϕ0.8mm | Stainless steel ball ϕ0.4mm<br>Stainless steel wire Φ0.3*2mm<br>Glass/Ceramic ball ϕ1.0mm | |
| Conveyor Speed | 10-60m/min | | |
| O/S | Windows | | |
| Protection Method | Protection Tunnel | | |
| X-Ray Leakage | < 1 μSv/h | | |
| IP Rate | IP67/IP69K | | |
| Working Environment | Temperature: 0~40℃ | | |
| | Humidity: 30-90% , no dew | | |
| Cooling Method | 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 | | |

***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.

# 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 ϕ0.2mm<br>Stainless steel wire Φ0.2*2mm (Auto Alarm)<br>Glass/Ceramic ball ϕ0.8mm | |
| Conveyor Speed | 10-40m/min | |
| O/S | Windows | |
| Protection Method | Protection Tunnel | |
| X-Ray Leakage | < 1 μSv/h | |
| IP Rate | IP69K | |
| Working Environment | Temperature: -10~40℃ | |
| | Humidity: 30-90% , no dew | |
| Cooling Method | 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 | |

***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 Fish Bones

- TDI camera, high resolution, tiny fish bones also can be clearly shown
- External HD screen, high identification of fish bones

| Model | TXR-2080F | TXR-4080F |
|---|---|---|
| X-Ray Tube | 350W | |
| Inspection Width | 200mm | 400mm |
| Inspection Height | 100mm | 100mm |
| Best Inspection Sensitivity (Without Product) | Stainless steel ball Φ0.3mm<br>Stainless steel wire Φ0.2*2mm (Auto Alarm)<br>Glass/Ceramic ball Φ0.8mm | |
| Conveyor Speed | 5-39 m/min | |
| O/S | Windows | |
| Protection Mode | Protection tunnel | |
| X-Ray Leakage | < 1 μSv/h | |
| IP Rate | IP66 (Under belt)/IP69K | |
| Working Environment | Temperature: -10~40 C | |
| | 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 | |

***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.



# 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 Φ0.5mm<br>Stainless steel wire Φ0.3*2mm<br>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 |
| | 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.



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

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 Φ0.5mm<br>Stainless steel wire Φ0.3*2mm<br>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 |
| | 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 Φ0.5mm<br>Stainless steel wire Φ0.3*2mm<br>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 |
| | 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.

# Dual-beam X-Ray Inspection System for Bottles, Jars and Cans



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
· 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<br>Stainless steel wire Φ0.3*2mm<br>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 ℃ |
| | 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.

# Triple-beam X-Ray Inspection System for Bottles, Jars and Cans



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<br>Stainless steel wire Φ0.3*2mm<br>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 ℃ |
| | 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.



# Quad Beam X-Ray Inspection System for Bottles, Jars and Cans

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<br>Stainless steel wire Φ0.3*2mm<br>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℃ | |
| | 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.



# Five Beam X-Ray Inspection System for Bottles, Jars and Cans

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<br>Stainless steel wire Φ0.2*2mm<br>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℃ |
| | 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 Pumped Products

Flow-through X-Ray inspection system for liquids and semi-liquids. Hygienic pipeline design with no dead zones, easy cleaning and maintenance.

| Model | | TXR-P2-60 | TXR-P2-80 | TXR-P2-100 |
|---|---|---|---|---|
| X-Ray Tube | | 210W/350W | | |
| Inner Diameter (mm) | | 60 | 80 | 100 |
| Conveyor Speed (m/min) | | 10-60m/min | | |
| Detection Sensitivity | SUS304 Ball(Φ) | ≥0.5mm | | |
| | SUS304 Wire | ≥0.4×2mm | | |
| | Glass Ball(Φ) | ≥1.0mm | | |
| | Ceramic Ball(Φ) | ≥1.0mm | | |
| Power Supply | | AC220V, 1KvA, 50/60Hz | | |
| Product Form | | Paste / Semi-solid / Liquid | | |
| Conveyor Material | | SUS304 & Food-Grade Polymer Materials | | |
| Protection Rating | | Product Tunnel IP66 | | |
| Interfaces | | LAN port USB port | | |

***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.







AI Algorithm



Camera



Lens



Light Source

# Vision Inspection System

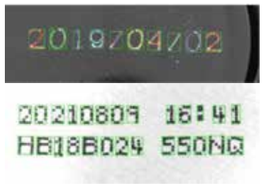
Vision Inspection Systems offer complete inspection solutions to safeguard product quality and safety. They detect misprints, missing or misplaced characters, labeling errors, barcode defects, surface imperfections, black spots, blemishes, hair, and other foreign objects. With options for single-side 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




Packaging Inkjet Coding Inspection




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.



| Specification | | |
|---|---|---|
| Vision Inspection Series | TVS-G1 | TVS-G2 |
| Typical Applications | Inkjet presence, inkjet position, production date recognition, label presence, label position, label type recognition, 1D/2D code reading | |
| Detection Accuracy | 0.5mm | |
| 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 | |
| Throughput | 600 pieces/min | 300 pieces/min |
| Display | 15" full-color touchscreen | 12" full-color touchscreen |
| Operating System | Windows 10 | |
| 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 | |
| Dimensions (mm) | 1060L x 730W x 1350H | 380L x 292W x 605H |

**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.




# 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℃, 30-85% RH, non-condensing |
| Material | Stainless steel |
| Power Supply | Single-phase AC, 220V±10%, 50/60Hz |

**Notes:**

1. The above parameters are measured under room temperature conditions of 25℃, 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.

# Food Optical Sorting System

The Optical Sorting System combines multi-spectrum imaging technologies with AI-powered algorithms to accurately detect impurities, defects, discoloration, and quality variations.





Camera Lens


Feeder


Solenoid valve


Filter Set


Display Screen


Lighting System

# Food Optical Sorting System

The Food Optical Sorter is designed for intelligent inspection and sorting of processed food products. Combining advanced imaging technologies with AI algorithms, it accurately detects foreign impurities, defects, discoloration, and abnormal products while meeting strict food hygiene requirements.

## Features and Advantages

**Multi-spectrum + AI technology**
Visible light, infrared, ultraviolet, and hyperspectral imaging combined with intelligent algorithms enable accurate detection based on appearance, material, and spectral fingerprints.

**Multi-angle imaging**
Multiple ultra-HD cameras scan products from different angles to eliminate blind spots and efficiently detect hair, spots, defects, and micro contaminants.

**High throughput**
Sorting speed up to 240 m/min with belt width up to 1800 mm, supporting high-speed and large-scale continuous production.

**High protection level**
Up to IP66 protection with hygienic design and quick-release structure for easy cleaning and maintenance, suitable for demanding food environments.

## Applications

Widely used for fruits and vegetables, puffed snacks, aquatic products, meat products, frozen foods, and other food processing industries.

## Rejected Impurities






# UHD AI Multi View 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 | | | |
|---|---|---|---|
| **Model** | TCS-600VC-BSW | TCS-1200VC-BSW | TCS-1800VC-BSW |
| **Belt Width** | 600mm | 1200mm | 1800mm |
| **Channel Number** | 2*63 | 4*63 | 6*63 |
| **Machine Speed** | 240m/min | | |
| **Power Consumption** | 9.5kW | 11.3kW | 13kW |
| **Air Consumption** | ≤1.2 $m^3$/min | ≤2.4 $m^3$/min | ≤3.2 $m^3$/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℃ | | |
| **Relative Humidity** | 30-90% | | |
| **Power Supply** | 380V, AC, 50/60Hz | | |

**Notes:**
1. The above parameters are measured under room temperature conditions of 25℃, 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 AI Medium-Speed Belt Optical Sorter



Widely used for dehydrated vegetables, clean vegetables, frozen vegetables, aquatic products, puffed foods, fragile nut kernels (such as walnuts kernels, almond kernels, cashew kernels, pine nut kernels, etc.)

| Specification | | | |
|---|---|---|---|
| **Model** | TCS-600VB-LSW | TCS-900VB-LSW | TCS-1200VB-LSW |
| **Belt Width** | 600mm | 900mm | 1200mm |
| **Channel Number** | 2*63 | 3*63 | 4*63 |
| **Machine Speed** | 96m/min | | |
| **Power Consumption** | 2.5kW | 3.2kW | 4.0kW |
| **Air Consumption** | ≤1.2 $m^3$/min | ≤1.8 $m^3$/min | ≤2.4 $m^3$/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℃, 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.

# Agricultural Optical Sorting System

The Optical Sorting System combines multi-spectrum imaging technologies with AI-powered algorithms to accurately detect impurities, defects, discoloration, and quality variations.





Camera Lens



Feeder



Solenoid valve



Filter Set



Display Screen



Lighting System

# Agricultural Product Optical Sorter

The Agricultural Product Optical Sorter is developed for high-efficiency sorting and grading of agricultural products. With advanced optical imaging and AI recognition technologies, it provides precise foreign material removal, defect detection, and fine grading solutions for large-scale agricultural processing.

## Features and Advantages

**Multi-spectrum + AI technology**
Visible light, infrared, ultraviolet, and hyperspectral imaging combined with intelligent algorithms enable accurate identification of impurities and defects through appearance, material, and spectral analysis.

**Multi-angle imaging**
Multiple ultra-HD cameras perform surround scanning during material conveying to eliminate visual blind spots and improve detection of defects, mildew spots, and micro impurities.

**High throughput**
Belt-type models support widths up to 1800 mm with optional dual-layer synchronized sorting, while chute-type models support up to 12 channels for high-capacity processing.

**Fine grading capability**
Optional dual-reject and multi-grade sorting solutions support simultaneous separation of premium, secondary, and defective products, as well as detailed grading applications such as walnut kernel classification.

## Applications

Suitable for grains, cereals, nuts, seeds, beans, coffee, dried fruits, herbs, and a wide range of agricultural products.

## Detection Effect


Finished Chili Peppers


Large Mottled Chili Peppers


Small Mottled Chili Peppers


Green-Skin Chili Peppers


Stem-On Chili Peppers


Chili Stems

# UHD AI Long Distance Belt Optical Sorter




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

| Specification | | | |
|---|---|---|---|
| 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 $m^3$/min | ≤2.4 $m^3$/min | ≤3.2 $m^3$/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℃, 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 UHD AI Long Distance Belt Optical Sorter

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

| 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 $m^3$/min | ≤4.5 $m^3$/min | ≤6.0 $m^3$/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℃, 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 AI Top View Belt Optical Sorter



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

| Specification | | | |
|---|---|---|---|
| **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 $m^3$/min | ≤2.4 $m^3$/min | ≤3.2 $m^3$/min |
| **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, 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℃, 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.

## Medium-Speed Double-Layer AI Belt Optical Sorter

Applicable to nuts, grains, beans, frozen foods, rice and flour products, tea, traditional Chinese medicine, and dehydrated vegetables, etc.

| Specification | | | |
|---|---|---|---|
| Model | LB600-LDW | LB1200-LDW | LB1800-LDW |
| Belt Width | 600mm | 1200mm | 1800mm |
| Channel Number | 4*63 | 8*63 | 12*63 |
| Machine Speed | | 180m/min | |
| Air Consumption | ≤2.4 $m^3$/min | ≤4.5 $m^3$/min | ≤6.0 $m^3$/min |



## Quad-View Belt Optical Sorter

Suitable for irregular-shaped products such as granular, spherical, and uneven materials, including cashews, almonds, macadamia nuts, etc.

| Specification | | |
|---|---|---|
| Model | TCS-DB600TTTT | TCS-DB1200TTTT |
| Belt Width | 600mm | 1200mm |
| Channel Number | 2*63 | 4*63 |
| Number of Cameras | 8 or 10 | 16 or 18 |
| Machine Speed | 180m/min | 180m/min |
| Air Consumption | ≤1.2 $m^3$/min | ≤2.4 $m^3$/min |



## 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*63 |
| Machine Speed | | 90m/min | |
| Air Consumption | ≤1.2 $m^3$/min | ≤4.0 $m^3$/min | ≤4.8 $m^3$/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 $m^3$/min |



# 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 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 $m^3$/min | ≤1.2 $m^3$/min | ≤1.8 $m^3$/min | ≤2.4 $m^3$/min | ≤2.8 $m^3$/min | ≤3.2 $m^3$/min | ≤3.8 $m^3$/min | ≤4.2 $m^3$/min | ≤5.0 $m^3$/min | ≤6.0 $m^3$/min |
| 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℃ | | | | | | | | | |
| Power Supply | 220V, AC, 50/60Hz | | | | | | | | | |

**Notes:**
1. The above parameters are measured under room temperature conditions of 25℃, 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 | |
|---|---|
| Model | TCS-1T-MI |
| Channel Number | 1*32 |
| Power Consumption | 0.6KW |
| Air Consumption | ≤0.5$m^3$/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℃ |
| Power Supply | 220V, AC, 50/60Hz |

**Notes:**
1. The above parameters are measured under room temperature conditions of 25℃, 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.

# Composite Infrared Chute Optical Sorter

Widely used in nuts, seeds, and herbal medicine industries, such as shell/kernel separation of pumpkin seeds, stem removal from raisins, and stone removal from coffee beans.



| Specification | | |
|---|---|---|
| Model | TCS-DZ3T | TCS-DZ5T |
| Channel Number | 3*63 | 5*63 |
| Power Consumption | 4.0kW | 6.0kW |
| Air Consumption | ≤1.8m³/min | ≤2.8m³/min |
| Camera Configuration | Composite Infrared Lens | |

# 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 |

# AI UV Multifunctional Chute Optical Sorter

AI vision + UV spectral multimodal inspection enables integrated detection of surface mold and internal toxins such as aflatoxin B1 and DON (deoxynivalenol), achieving full online inspection.



| Specification | | | | | | |
|---|---|---|---|---|---|---|
| Model | TCS- DZ5T | TCS- DZ6T | TCS- DZ7T | TCS- DZ8T | TCS- DZ10T | TCS-DZ12T |
| 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 |
| Camera Configuration | 2048×2048 | | | | | |

# Compact Chute Optical Sorter

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



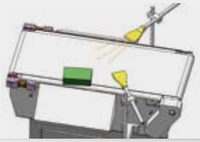
| Specification | | | |
|---|---|---|---|
| Model | TCS-1T | TCS-2T | TCS-3T |
| Channel Number | 1*63 | 2*63 | 3*63 |
| Power Consumption | 1.0kW | 1.5kW | 2.0kW |
| Air Consumption | ≤0.8m³/min | ≤1.2m³/min | ≤1.8m³/min |

# Rejecter Series



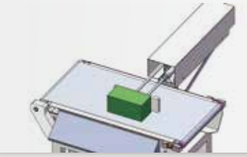
## Flipper Type

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



## Air Jet Type

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



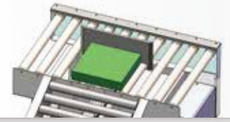
## Push Type

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



## Pneumatic Retracting Band Type

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



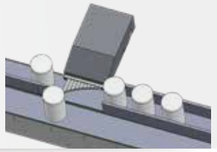
## Heavy Push Rejecter

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



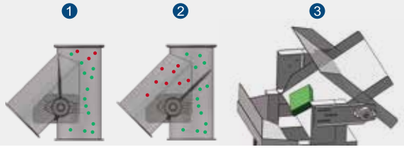
## Drop Out Rejecter

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



## Piano Key Rejecter

To reject non-con-forming products, suitable for high-speed bottled products.




## Flap Rejecter

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