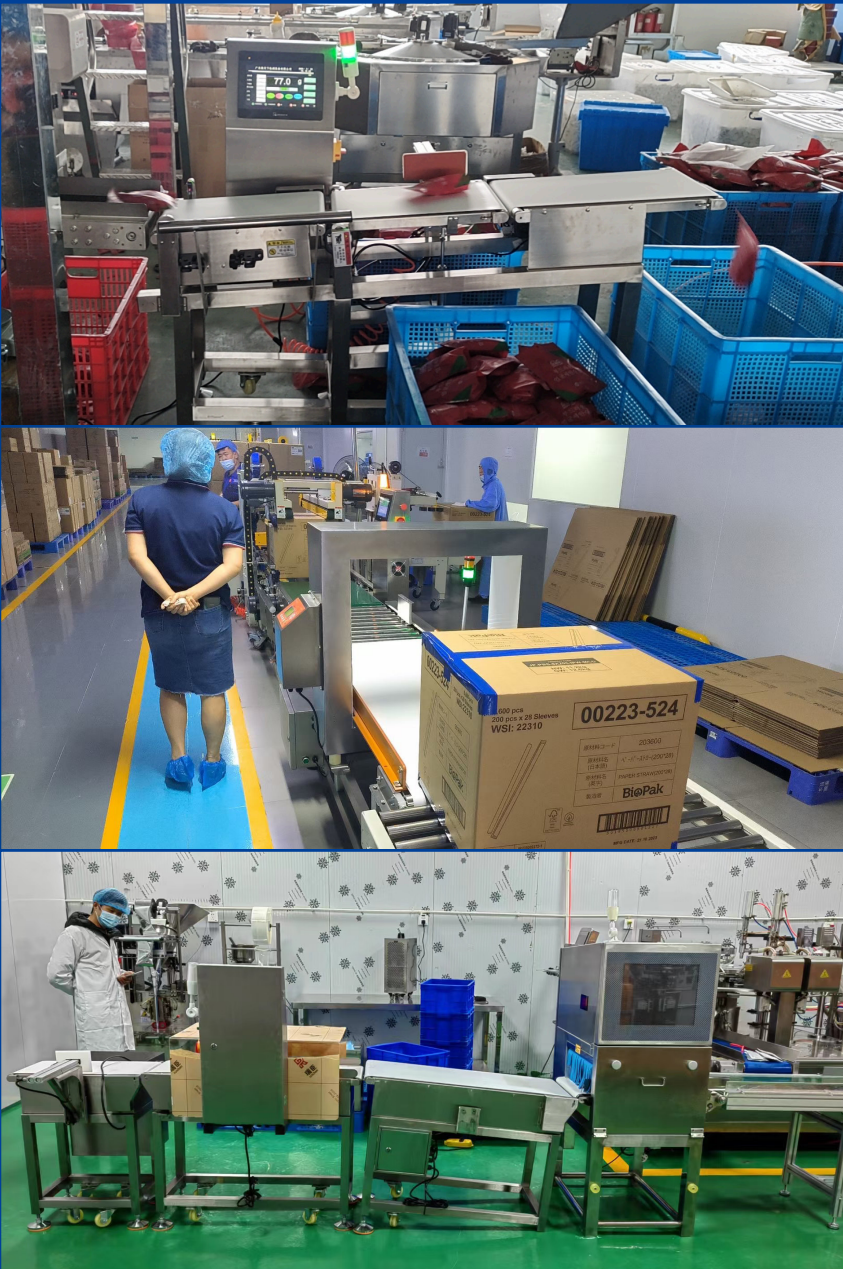


Enhance Production Efficiency Ensure Product Quality and Safety



Weight detection

Automatic Checkweigher
Weight Sorting Machine

Foreign object detection

Tunnel Metal Detector
Conveyor Metal Detector
X-Ray Foreign Object Detector
Plastic Metal Separator

CEIA Metal Detection

Metal Detector Heads
Conveyor Systems
Pipeline Systems
Gravity Feed Systems
Tablet and Capsule Systems
Textile and Mining Systems

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You're welcome to visit our factory or send samples for testing

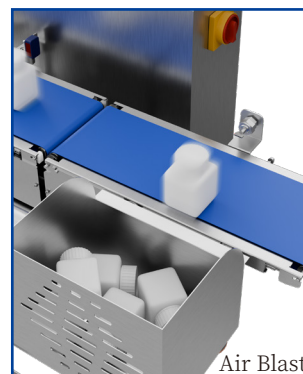
Through product testing, we can more accurately assess the precision and production efficiency of our equipment and tailor solutions to your specific needs.

Inspection of Product Quality and Packaging Integrity

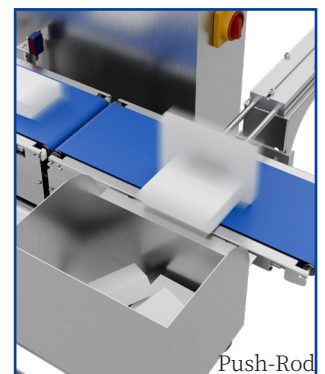
Equipment Description

The automatic checkweigher can weigh various products and package sizes on

the production line, with a range from a few grams to several hundred kilograms. It is suitable for detecting whether the product weight meets standards before and after packaging, checking for over-packing, underpacking, or missing items (such as products, accessories, instructions, etc.), and for online rejection of non-conforming products or sorting by weight.



Air Blast



Push-Rod

High Precision

Suitable for Small,
Lightweight Products
and Packaging



General Purpose

Suitable for Most
Products and Packaging



Large Range

Suitable for Large, Heavy
Products and Packaging



Performance Parameters

Conveyor Belt Width 50mm: Range $\leq 100\text{g}$, Accuracy $\pm 0.05\text{g}$, Speed 20~60m/min

Conveyor Belt Width 100mm: Range $\leq 500\text{g}$, Accuracy $\pm 0.1\text{g}$, Speed 20~60m/min

Conveyor Belt Width 150mm: Range $\leq 1\text{kg}$, Accuracy $\pm 0.2\text{g}$, Speed 20~60m/min

Conveyor Belt Width 220mm: Range $\leq 2\text{kg}$, Accuracy $\pm 0.3\text{g}$, Speed 20~80m/min

Conveyor Belt Width 300mm: Range $\leq 3\text{kg}$, Accuracy $\pm 0.5\text{g}$, Speed 20~80m/min

Conveyor Belt Width 350mm: Range $\leq 5\text{kg}$, Accuracy $\pm 1\text{g}$, Speed 20~80m/min

Conveyor Belt Width 400mm: Range $\leq 10\text{kg}$, Accuracy $\pm 2\text{g}$, Speed 20~60m/min

Conveyor Belt Width 500mm: Range $\leq 30\text{kg}$, Accuracy $\pm 3\text{g}$, Speed 20~40m/min

Conveyor Belt Width 600mm: Range $\leq 50\text{kg}$, Accuracy $\pm 5\text{g}$, Speed 20~35m/min

Basic Parameters

Material:

SUS201/304 brushed stainless steel, food-grade PU belt

Control System: High-speed A/D sampling controller

Interactive Screen:

10-inch color touchscreen, 7-inch for high precision

Preset Products: Automatic learning, 100 parameters

Operating Environment:

Custom Options:

Roller conveyor, multi-channel, split design,
waterproof, additional interfaces, etc.

Compatible with metal detectors, labeling machines

Alarm Rejection System

Alarm Method:

Sound and light alarm

Rejection Devices:

Air blast, push rod, other

Rejection Levels: 1 to 16 levels

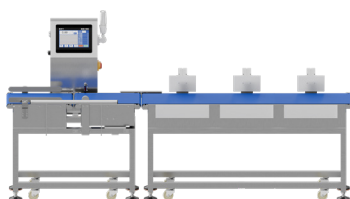
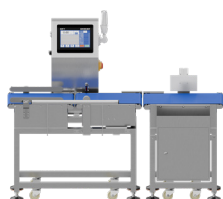
Rejection Collection:

None, plate, collection box

Air Pressure Interface: $\phi 8\text{mm}$

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Three exclusion methods



Alarm Stops Machine

Automatic Rejection

Weight-Based Sorting

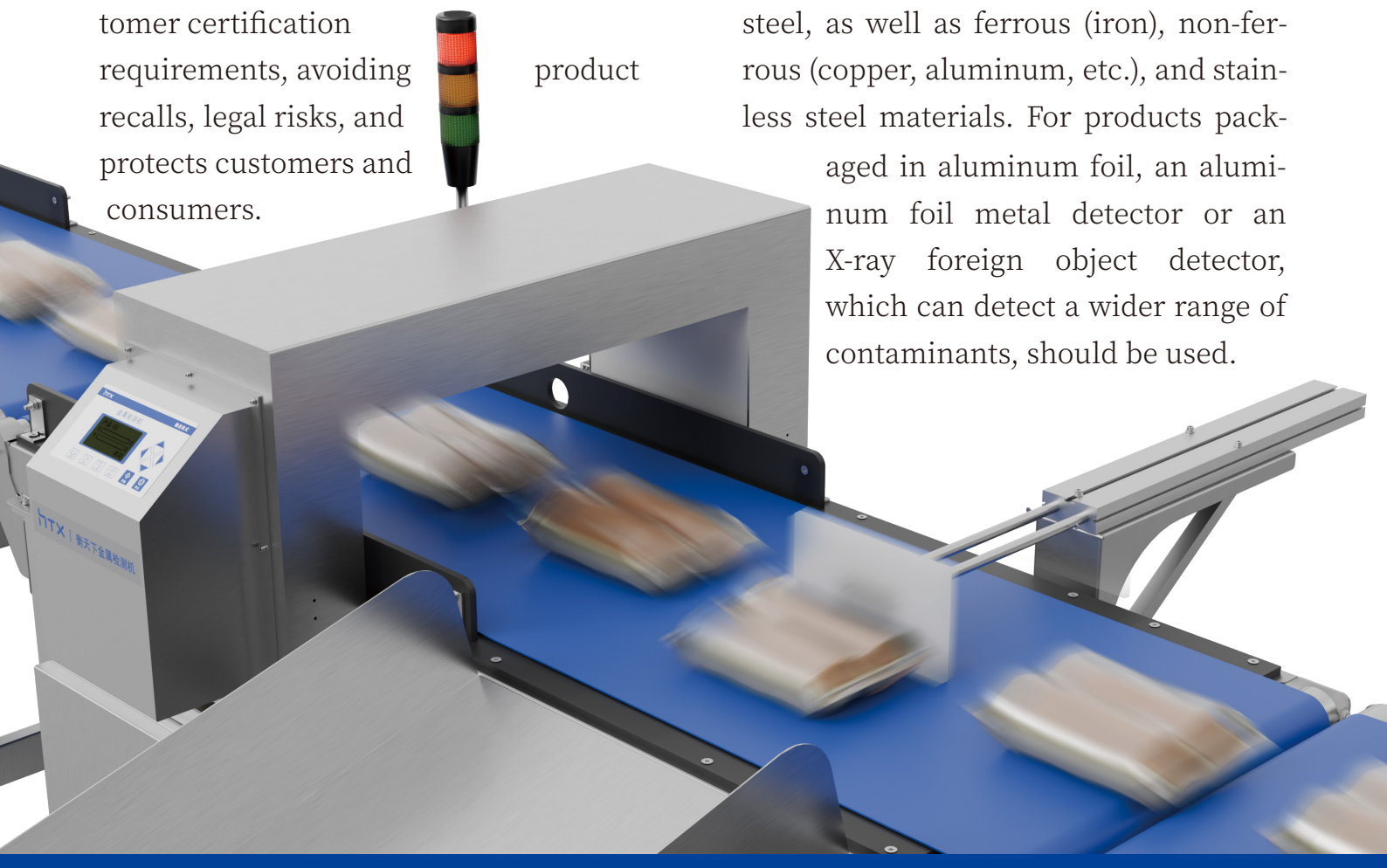
Enhance Product Safety and Meet Certification Requirements

Equipment Description

The metal detector accurately detects and removes various metal contaminants and contaminated products introduced during the production process, effectively enhancing product quality and safety. Additionally, using a metal detector helps achieve compliance with industry standards, meet regulatory and customer certification requirements, avoiding product recalls, legal risks, and protects customers and consumers.

Comprehensive detection

Whether for raw materials, bulk materials, finished products, or whole cartons, the metal detector is highly sensitive in detecting various metal contaminants hidden within. These include all types of metal foreign objects such as metal shards, steel wires, broken needles, screws, blades, and all types of stainless steel, as well as ferrous (iron), non-ferrous (copper, aluminum, etc.), and stainless steel materials. For products packaged in aluminum foil, an aluminum foil metal detector or an X-ray foreign object detector, which can detect a wider range of contaminants, should be used.



Metal Detector Head

Can be installed on the production line.



Alarm Stop

Integrated conveyor, alarm shutdown or return



Automatic Rejection

Integrated conveyor, automatic removal



Metal Detector Head Parameters

Detection Tunnel Width: 150~2000mm

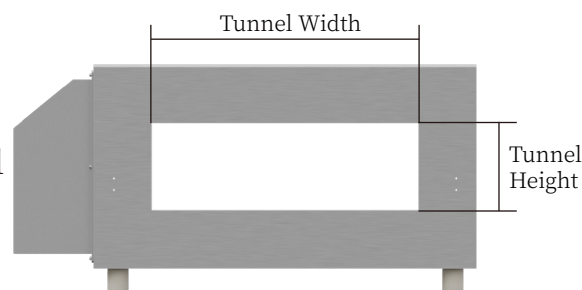
Detection Tunnel Height: 50~1000mm

Enclosure Material: SUS201/304 brushed stainless steel

Interactive Panel: LCD screen with button input, touchscreen input

Interactive Language: Chinese, English and custom language

Preset Products: Automatically learns and stores parameters for 100 products



Detector Opening = Tunnel Width (cm) + Height (cm)

Metal Detector Head Sensitivity

Tunnel 2005: Fe ϕ 0.3mm, N-Fe ϕ 0.4mm, SUS ϕ 0.6mm

Tunnel 2010: Fe ϕ 0.5mm, N-Fe ϕ 0.6mm, SUS ϕ 0.8mm

Tunnel 3010: Fe ϕ 0.6mm, N-Fe ϕ 0.8mm, SUS ϕ 1.0mm

Tunnel 3015: Fe ϕ 0.8mm, N-Fe ϕ 1.0mm, SUS ϕ 1.2mm

Tunnel 4010: Fe ϕ 0.8mm, N-Fe ϕ 1.0mm, SUS ϕ 1.2mm

Tunnel 4015: Fe ϕ 1.0mm, N-Fe ϕ 1.5mm, SUS ϕ 2.0mm

Tunnel 4020: Fe ϕ 1.2mm, N-Fe ϕ 2.0mm, SUS ϕ 2.5mm

Tunnel 5020: Fe ϕ 1.2mm, N-Fe ϕ 2.0mm, SUS ϕ 2.5mm

Tunnel 5030: Fe ϕ 1.5mm, N-Fe ϕ 2.5mm, SUS ϕ 3.0mm

Tunnel 6040: Fe ϕ 2.0mm, N-Fe ϕ 3.0mm, SUS ϕ 4.0mm



The equipment comes with a test card used for routine sensitivity testing and certification verification

Conveyor Parameters

Material: SUS201/304 brushed stainless steel

Length: 800~3000mm, customizable

Weight Capacity: Standard 15kg, Heavy Load 60kg

Speed: Fixed 28m/min, Variable 5~40m/min

Operating Environment: Temperature: 0°C~40°C,

Humidity: 30%~95%

Power Supply: AC220V \pm 10% 50Hz/60Hz

Custom Options: Conveyor height, inclination, integration with checkweighers, etc.

The data is provided for reference purpose only and is subject to the custom quotation and contract.

Alarm Rejection System

Alarm Method:

- Sound and light alarm

Rejection Devices:

- Push rod, flip plate, other

Rejection Collection:

- None, plate, collection box

Air Pressure Interface: ϕ 8mm

Ensures High Product Quality, Protects Customers and Consumers



Equipment Description

The X-Ray Foreign Object Detection Machine automatically detects and removes contaminated products containing foreign objects, including metals and non-metals (glass, ceramics, stones, bones, hard rubber, etc.).



It can also be used for detecting defects and missing parts. Its detection accuracy is unaffected by aluminum foil packaging, temperature, humidity, or salt content.

Technological advantage:

Excellent performance

Simple operation

Complete function

Easy maintenance

Small Product

Primarily designed for small packaged products, the equipment has a relatively low overall power consumption.



Regular Product

Suitable for the vast majority of products and various sizes of packaging.



Bulk Product

Primarily designed for bulk and loose products.



Equipment Parameters

Model: HTX-YW4015

Detection Range: 390*150mm

- (Tunnel size customizable)

Detection Accuracy: Under optimal

- Metal Sphere: $\phi 0.6\text{mm}$ and above
- Glass Sphere: $\phi 1.0\text{mm}$ and above
- Ceramic Sphere: $\phi 1.0\text{mm}$ and above
- Bone Fragments: $\phi 1.0\text{mm}$ and above
- Stainless Steel Wire: $\phi 0.5 \times 2\text{mm}$ and above

X-Ray Capability: Max 80kV/80W

X-Ray Leakage: Less than $0.5\text{ }\mu\text{Sv/h}$

Detector Size:

- 0.8mm high-sensitivity receiver

Interactive Screen:

- 17-inch full-color touchscreen

Interactive System: Linux(The system is stable and can be forcibly shut down)

Interactive Software: X-Ray Inspection System

Safety Protection: emergency stop switch

Power Supply:

- AC220V 50Hz/60Hz
- high precision voltage regulation

Operating Environment:

- Temperature $0\text{--}45^{\circ}\text{C}$, Humidity 30%–85%

Enclosure Material: SUS304 stainless steel

Weight: 300kg

Conveyor Parameters

Belt Width: 390mm (customizable)

Belt Height: $750 \pm 50\text{mm}$ (customizable)

Belt Speed: 10~60 meters/minute

Belt Material:

- Food-grade PU belt/plate chain

Waterproof Rating: Conveyor IP66

Load Capacity: 5kg, 10kg (customizable)

Product Flow Direction:

- From left to right, facing the screen

Alarm Rejection System

Alarm Method: Sound and light alarm

Rejection Devices:

- Air blow, push rod, flip plate, other

Rejection Collection:

- None, sliding plate, collection box

Air Pressure Interface: $\phi 8\text{mm}$



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Prevents Equipment Damage or Downtime in Plastic Processing



Equipment Description

Suitable for detecting and separating metal contaminants (iron, copper, aluminum, stainless steel, etc.) from granular and powdery materials such as plastics, runner materials, crushed materials, recycled materials, and walnut particles. It effectively prevents damage to production equipment or production stoppage caused by metal contaminants.



During plastic processing, metal contaminants can cause issues such as hot runner blockages, screw damage, or mold scratches, severely affecting production efficiency and product quality. The HTX Metal Separator effectively prevents damage or downtime of production equipment such as injection molding machines and pelletizers due to metal contaminants, thereby avoiding production losses.



Standard Model

Includes a stand and hopper in addition to the probe.



Automatic Feeding

Works with a vacuum feeder for automatic material loading.



Vibratory Feeding

Works with a vibratory screen to control material discharge.

Metal Separator Features

Detects all types of metal contaminants, including magnetic and non-magnetic metals.

Various detection channel diameters are available and customizable as needed.

Constructed from 304 stainless steel with a maintenance-free design.

Can be integrated with vacuum feeders, vibratory screens, crushers, and other equipment.

Detection Accuracy and Processing Capacity

Channel $\phi 30\text{mm}$: Fe $\phi 0.4\text{mm}$, Sus $\phi 0.8\text{mm}$, 400L/H

Channel $\phi 50\text{mm}$: Fe $\phi 0.6\text{mm}$, Sus $\phi 1.0\text{mm}$, 2000L/H

Channel $\phi 70\text{mm}$: Fe $\phi 0.8\text{mm}$, Sus $\phi 1.2\text{mm}$, 5000L/H

Channel $\phi 100\text{mm}$: Fe $\phi 1.0\text{mm}$, Sus $\phi 1.5\text{mm}$, 12000L/H

Channel $\phi 150\text{mm}$: Fe $\phi 2.0\text{mm}$, Sus $\phi 2.5\text{mm}$, 25000L/H



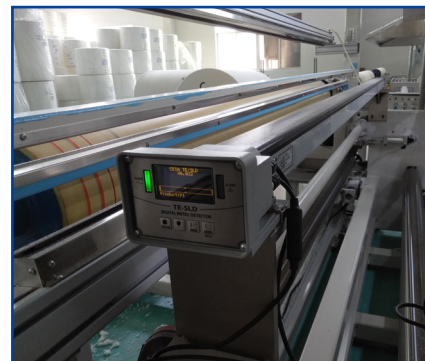
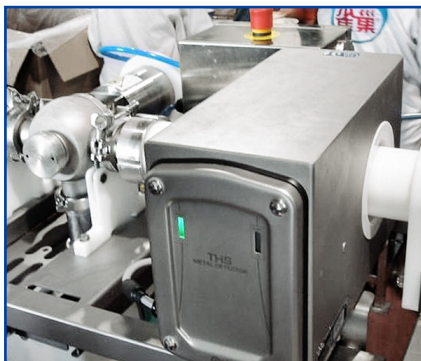
We offer a 5-year manufacturer warranty.

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Hengtianxia Inspection

Guangdong Hengtianxia Inspection Equipment Co., Ltd. specializes in manufacturing product inspection and foreign object detection equipment. Our factory produces a range of detection devices, including automatic checkweighers, metal detectors, and X-ray foreign object detectors. We are committed to meeting regulatory requirements and industry standards across various sectors, enhancing production efficiency, and ensuring product quality and safety.



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