

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

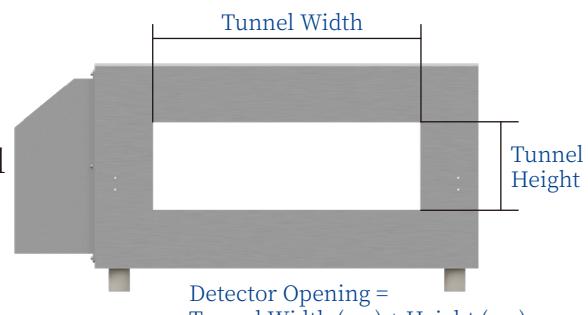
Detection Tunnel Height: 50~1000mm

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

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

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