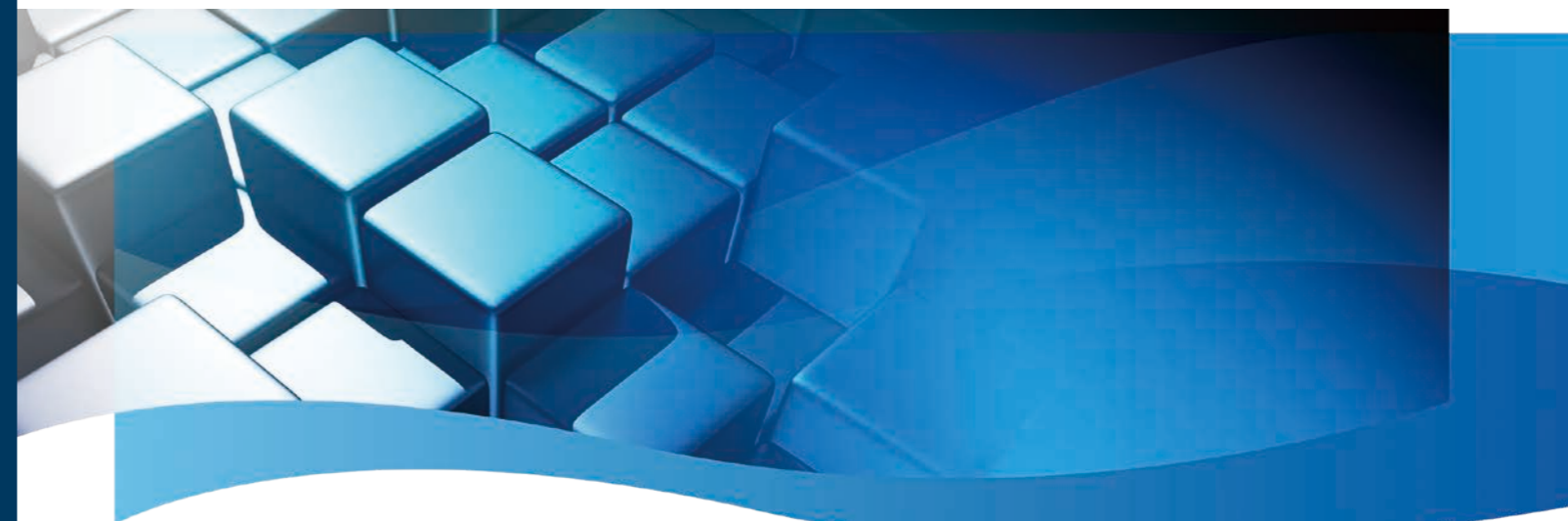


Maximum sensitivity *1

Fe (SUJ2) Ball/Non-waterproofing specification Φ 0.1mm
 Waterproofing specification Φ 0.15mm
 SUS304 wire (Reference value) / Φ 0.05mm \times 1.0mm

Model (SDM-XXXXD/W) *2		SDM-30 type						SDM-45 type					
		3005D	3005W	3008D	3008W	3011D	3011W	4505D	4505W	4508D	4508W	4511D	4511W
Inspectable range (mm)	Width	240						370					
	Height	55	50	85	80	115	110	55	50	85	80	115	110
All range sensitivity *1 (mm)	Fe (SUJ2) Ball	Φ 0.4		Φ 0.7		Φ 1.0		Φ 0.4		Φ 0.7		Φ 1.0	
	SUS304 wire (Reference value)	Φ 0.10 \times 2.0		Φ 0.30 \times 2.0		Φ 0.30 \times 3.0		Φ 0.10 \times 2.0		Φ 0.30 \times 2.0		Φ 0.30 \times 3.0	
The detection sensitivity of stainless steel increases when it is subjected to stress from cutting, bending, etc.													
Belt width		220mm						350mm					
Passage width		300mm						450mm					
Depth		662mm						812mm					
Weight capacity		3kg						6kg					
Conveyor speed		20~60m/min *2											
Pass line		750 \pm 50mm											
Operating environment		Temperature: 0 to 40°C, Humidity: 30 to 85%, No dew condensation is allowed.											
Main power supply		Single phase AC100V \pm 10%/Single phase AC200-240V \pm 10%, 50/60Hz, 500VA											

*1 Detection sensitivity varies depending on specifications, surrounding environment, and the influence of the inspected object. The degree of magnetization of stainless steel balls varies depending on the material and processing precision, and the detection sensitivity also varies. Some part of detection sensitivity are indicated based on calculated values, so that some test pieces are not available. *2 D (non-waterproof) / W (waterproof) Waterproof specifications may change depending on the products being inspected. *3 Please contact us for details on conveyor speed.
 * Please contact us for details on other specifications. *The contents of the specifications are subject to change without prior notice due to continual improvement.



* Emergency stop switch is optional.

Highly sensitive detection of minute metal particles

Magnetized Metal Detector

SDM-30 type/45 type

1. Capable of detecting minute metal particles inside aluminum packaging.
2. Achieved highly stable inspection
3. Low running costs (no expensive consumables)

For more information, contact our office listed below.
 The contents of the specifications are subject to change without prior notice due to continual improvement.

For detecting minute metal particles in aluminum packaging, minced fish paste, and other paste products.

MetaHawk DM

Magnetized metal detector is capable of detecting foreign bodies that are difficult to detect using conventional metal detectors or X-ray inspection machines. Conventional metal detectors have had difficulty detecting foreign bodies in packaging made of aluminum, but this device is able to perform inspections without being affected by aluminum. It is particularly effective at detecting foreign bodies that other devices have difficulty detecting, such as tiny pieces of stainless steel (SUS304), powdered rust, worn metal powder, and resin containing iron-based components. In addition, since there are no expensive consumables, it can be used at the same low cost as a regular metal detector.

1. Magnetizing unit

When metallic foreign bodies pass through the magnetizing unit, they become magnetized. Although stainless steel is non-magnetic material, it becomes magnetized when subjected to cutting, bending, or other forces. Aluminum and brass are not magnetized, so the magnetic sensor will not react to them.

2. Highly sensitive magnetic sensor

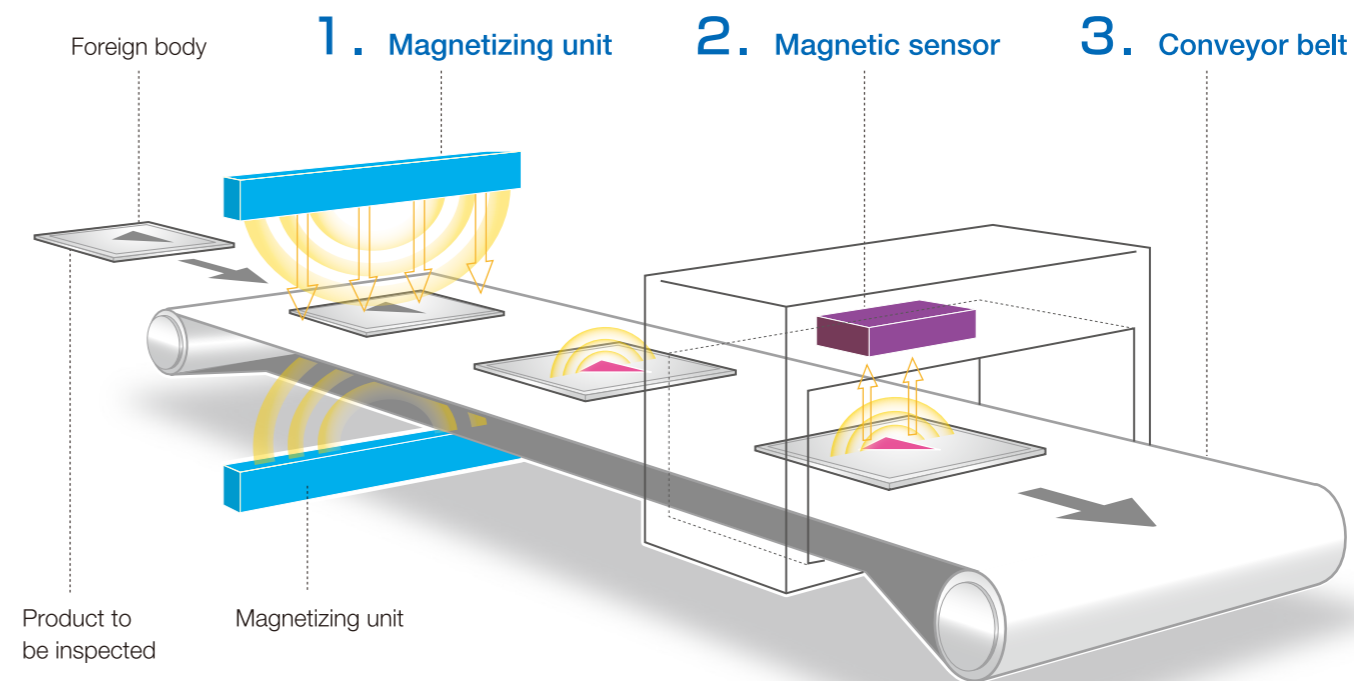
Maximum sensitivity SUS304 wire (Reference value) $\Phi 0.05 \times 1.0 \text{mm}$ (Refer to *1 of back cover)

A highly sensitive magnetic sensor detects the magnetic field emitted by magnetized metal foreign bodies. Since aluminum does not become magnetized, it does not affect magnetic sensors, making it possible to detect only magnetized foreign bodies. In addition, changes in temperature or salt content of the inspected product do not affect the sensor.

3. Conveyor belt

The structure makes it easy to attach and detach from the metal detector body, making it extremely easy to maintain.

Composition



! This device uses magnets. There is a risk of malfunctioning of pacemakers and other life support devices in the vicinity.

Examples of inspection subjects

Magnetized metal detector is capable of detecting foreign bodies that are difficult to detect using conventional metal detectors or X-ray inspection machines.



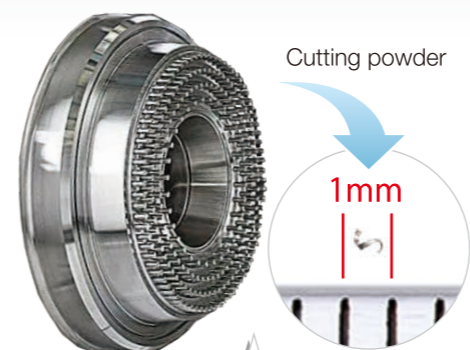
Aluminum foil, metal-deposited packaging, aluminum cans



Minced fish paste, powder, frozen foods (large temperature changes), high salt products

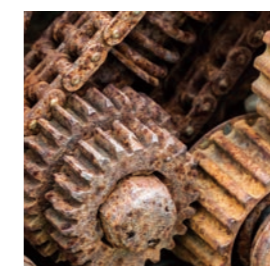
Examples of foreign body

It is effective at detecting foreign bodies that conventional metal detectors and X-ray inspection machines have difficulty detecting. (It is impossible to detect aluminium and brass)



Stainless steel cutting tiny pieces, burrs
Stainless steel scrubber tiny pieces

(SUS304)



Rust particles, metal particles (wear particles)



Resin containing iron-based components