

# **ALUMINIUM FOIL BAG METAL DETECTOR**

## **FEATURES**

- Equipped with mis-detect a little, high accurate, magnetic sensor
- Possible to detect it even by the high temperature and moisture adhesion
- The product of the aluminium wrapping and salinity is ok
- The operation easiness: All the condition settings of each commodity are unnecessary
- Detect iron and stainless steel 304 metals in both aluminium foil package and non-aluminium package
- Different products in packages won't affect sensitivity of machine
- Japan advanced technology, assembled in China

## **APPLICATION**

- Especially suitable for aluminium foil bag packed products for iron and stainless steel 304 detection

## **SPECIFICATION**

Model No.	MD-AL
Sensor	Magnetic Field Type
Max. Product Weight	1000g
Belt Width	250mm
Max. Detection Width	230mm
Belt Speed	10-40m/min. (adjustable)
Max. Detection Height	70mm (Optional height: 30mm; 40mm; 50mm; 70mm; 80mm; 90mm)
Sensitivity	Fe $\Phi$ 2.0mm;SUS304 $\Phi$ 2.0mm
Sensitivity Level	5 Levels
Alarm Method	Sound Alarm & Belt Stop
Display	5.7" Touch Screen
Conveyor Length	1000mm
Conveyor Height	800mm+/-50mm
Power Source	AC220V; 50Hz;1P
Weight	80kg

## **MD-AL SERIES**

Detection Height	Sensitivity
30mm	Fe $\Phi$ 1.0mm;SUS304 $\Phi$ 1.5mm
40mm	Fe $\Phi$ 1.5mm;SUS304 $\Phi$ 1.5mm
50mm	Fe $\Phi$ 1.5mm;SUS304 $\Phi$ 1.5mm
70mm	Fe $\Phi$ 2.0mm;SUS304 $\Phi$ 2.0mm
80mm	Fe $\Phi$ 2.5mm;SUS304 $\Phi$ 2.5mm
90mm	Fe $\Phi$ 3.0mm;SUS304 $\Phi$ 3.0mm

## **COMPARATION**

	Al-Foil bag Detector	Conventional Metal Detector	X-ray Detector
Detection Method	Relative Permeability	Electromagnetic wave or force lines	X-ray & Image processing
Frequency	Audio Range (50Hz-20Khz)	Electromagnetic Wave (33K-1Mhz)	Electromagnetic Wave (10 <sup>16</sup> -10 <sup>18</sup> Hz)
Detection Ability			

<ul style="list-style-type: none"> <li>⊙ Normal Package</li> <li>⊙ Al evaporated Package</li> <li>⊙ Al foil Package</li> <li>(1) Fe (10mm from sensor)</li> <li>(2) SUS304 (10mm from sensor)</li> <li>⊙ Salt Concentration</li> <li>⊙ Temperature &amp; Humidity</li> <li>⊙ Conveyor Speed</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Fe 1.0mm</p> <p>SUS304 1.5mm</p> <p>No Influence</p> <p>OK, -20°C-80°C/Steam</p> <p>Generally no need to adjust sensitivity</p>	<p>Yes</p> <p>Yes, if no eddy current</p> <p>No</p> <p>Strong Influence</p> <p>Very Complicated</p> <p>Need to adjust speed to avoid eddy current</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Depend upon shape and density</p> <p>No Influence</p> <p>Need to be adjusted for different shape &amp; density</p> <p>Sensitivity adjustment is necessary</p>
<p>Operation</p> <ul style="list-style-type: none"> <li>⊙ Sensitivity Adjustment</li> <li>⊙ Warm-Up Time</li> </ul>	<p>5 Levels</p> <p>7 Seconds</p>	<p>Need to be adjustment for different shape &amp; Density</p> <p>30 minutes</p>	<p>Need to be adjustment for different shape &amp; Density</p> <p>Very Long Time</p>
<p>Safety</p> <ul style="list-style-type: none"> <li>⊙ Influence of Electromagnetic wave &amp; X-ray</li> <li>⊙ Safety Cover</li> </ul>	<p>No influence</p> <p>Not Necessary</p>	<p>Possible influence of electromagnetic wave</p> <p>Not Necessary</p>	<p>Possible influence of X-ray</p> <p>Necessary</p>
<p>Economy</p> <ul style="list-style-type: none"> <li>⊙ Running Cost</li> </ul>	<p>Very Low</p>	<p>Low</p>	<p>Exchanges X-ray tubes etc.</p>

