



METAL DETECTOR FOR
ALUMINUM-PACKAGED PRODUCTS

NAD4000-A

Series



NAD4000 Series metal detector detects even the smallest metal particles safely and reliably in every type of aluminum-packaged products. Compared with X-Ray scanners, NAD4000 Series overcomes the high density differences in product or high evaluation thresholds due to variations in the production process. The intelligent & passive magnetic surface sensor works without wear, contrary to X-Ray scanners, and is easy to operate as the systems works without X-Rays. Wet and salty products such as cheese and meats do not affect detecting performance. Wires, chips and broken injection needles are reliably detected irrespective of product orientation.



Certified by CE mark

NEW

Dual Sensor Type

Wider Conveyor Selection
(250, 350 & 500mm)

- Dual Sensor Type (NEW)
(More Stable & Higher Accuracy)
- Wider Conveyor Selection (NEW)
(250, 350 & 500 mm)
- Without hazardous X-Rays
- Wear - free detecting system
- No need to care about
"product effect" & "hot temperature"
- Usable with every type of
aluminum - packaged products
- Configuration Passing Height
(Min. 40 ~ Max. 140mm by every 10.0mm)
for Plastic Chain Belt
(Min. 50 ~ Max. 150mm by every 10.0mm)
for Urethane Belt
*For 250 & 350mm Coneyor Width Only
- Password Setup Function
- Low investment and maintenance cost
- No need to be certified or inspected
by government law
- Product orientation does not
influence the signal strength
- Easy to learn & No need to train
an operator
- Connectivity to Various External Devices
- Manageable Metal Detecting History
- Easy Software Update



Specification

Model Name		NAD-4000-2505 ~ 2515	NAD-4000-3505 ~ 3515	NAD-4000-5005, 5010 & 5015
Passing Height (PH)	Plastic Belt	Min. 40 ~ Max. 140mm by every 10.0mm		40, 90 & 140mm (Fixed when order by 50mm)
	Urethane Belt	Min. 50 ~ Max. 150mm by every 10.0mm		N/A
Maximum Pass Width (PW)	Plastic Belt	240mm	340mm	490mm
	Urethane Belt	250mm	350mm	N/A
Belt Width	Plastic Belt (BW)	240mm	340mm	490mm(Plastic Belt Only)
	Urethane Belt (BW)	250mm	350mm	N/A
Conveyor Size	Length (CL)	Min. 1,400 to Max. 1,800mm		Min. 1,600 to Max. 2,000mm
	Height (CH)	Min. 650 to Max. 1,000mm (±50mm)		
Conveyor Width (CW)		322mm	422mm	622mm
Machine Width (MW)		605mm	705mm	775mm
Magnets				
In-Feed Gate & under the conveyor frame				
Dual Sensors (Either Selectable)	First Sensor	Strong Sensitivity & More Susceptible to Outer Noise / Vibration (Middle Gate)		
	Second Sensor	Better Stability against Outer Noise / Vibration & Adjusted Sensitivity (Out-Feed Gate)		
Display		10 inch Color TFT LCD Screen (Resolution: 800 x 480)		
Operation Method		LCD Touch Screen for Main Screen & Manual Power / Conveyor / Emergency Switch		
Preset Memory		Max. 50 (Expandable upon request)		
Product Packaging		General, Aluminum-Evaporated Packaging & Aluminum-Foil Packaging Products		
Belt Speed	Plastic Belt	Max. 42M/Min.	Max. 42M/Min.	Max. 42M/Min. (Plastic Belt Only)
	Urethane Belt	Max. 28M/Min.	Max. 28M/Min.	N/A
Maximum Product Weight		12.0 kgs	12.0 kgs	15.0 kgs
Unit Weight (Without Packaging)		About 80kg	About 90kg	About 100kg
Exterior Material		Stainless Steel 304 (Polishing)		
Protection Cover (Material)		Included (Polycarbonate)		
Tower Lamp		Green & Red (2 Colors) / Buzzer		
External Printer (Model)		Optional (HP-320)		
Standard Rejecter	BS	Belt Stop		
	AB	Air Blast		
	FB	Flip Bar (Separate Reject Conveyor)		
	PB	Pusher Bar (Separate Reject Conveyor)		
External Rejecter (Optional)	DB	Drop Belt (Separate Reject Conveyor)		
		IP65 (Standard)		
Protection Class (IP Level)		IP65 (Standard)		
Data Output		USB Port for Detection History Download & Software Upgrade		
Signal Output		AC Output: 4 ports & 24V Output: 4 ports		
Signal Input		2 ports (1 port for Receiving External NG & 1 port for Extra Spare)		
Relay Ports		AC SSR Relay (8A) SPST NO (Form A): 4 ports		
Power Supply		DC PhotoMOS (1A) SPST NO (Form A): 4 ports		
Ethernet Connection to PC		Single Phase (110 to 220V) & Three Phase (220 to 380V & Etc.), (50 or 60Hz) & Fuse (3A)		
Serial Communication Port		Monitoring Real Time Status of Machine through Computer		
Estimated Sensitivity		RS232C (Optional)		
Estimated Sensitivity		1.0mm under passing height (50mm)		
Estimated Sensitivity		1.5mm under passing height (100mm)		
Estimated Sensitivity		2.0mm under passing height (150mm)		

*Note : Metals that exhibit magnetic properties such as iron and SUS 430 and stainless steel processed by cutting and bending(placed under stress) such as SUS 304 and SUS 316 can be detected. Aluminum, brass, copper, silver, gold, lead, titanium, etc. cannot be detected because they can not be magnetized .

Application



Retort Pouches



Aluminum Cap



Pickled Foods



Aluminum Packaging

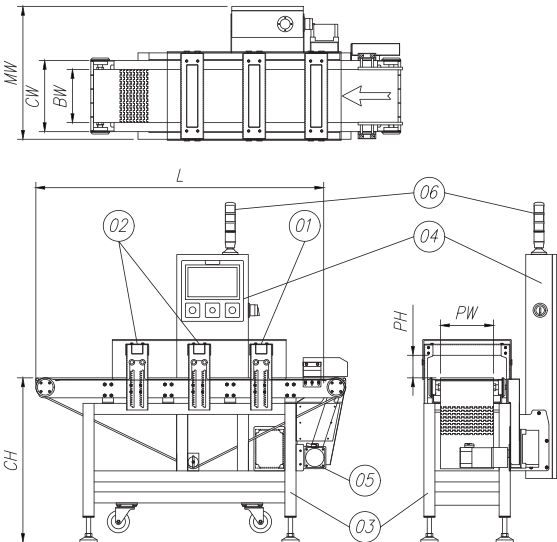


Other type of Packaging

Test Pieces (Hexahedron Type)

Fe						(mm)						SUS						(mm)					
						1.0	1.2	1.5	2.0	2.5	3.0							1.0	1.2	1.5	2.0	2.5	3.0
						3.5	4.0	4.5	5.0														

* Certificate of Conformity for Test Pieces is available upon request



Outputs

> AC Output: 4 ports / 24V Output: 4 ports

Power Supply

> Single Phase (110 to 220V) &
Three Phase (220 to 380V and etc.,)
> Free Cycle (50/60Hz)
> Fuse (3A)

Operating Temperature

> 0°C to 50°C
(advised to use the machine under normal temperature)

No	Description	Material
1	SENSOR	-
2	MAGNET	-
3	CONVEYOR FRAME	SUS304
4	CONTROL BOX	SUS304
5	MOTOR	-
6	TOWER LAMP	-