

Application

General Food (Instant Food, Cookie/Bread, Kimchi, Vegetable, Tofu and etc.)



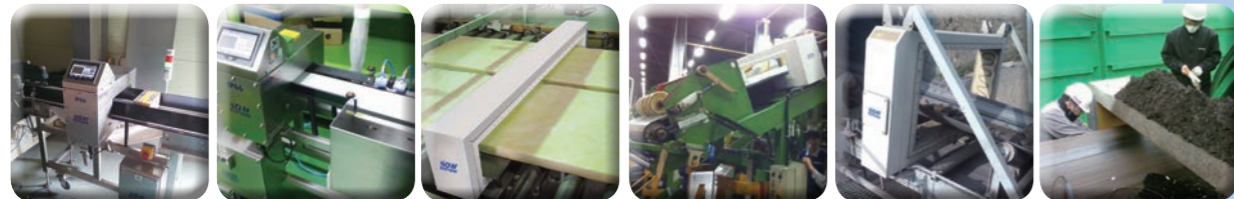
Sea Food (Frozen/Refrigerated Sea Food, Dried Fish and etc.)



Meat (Frozen/Refrigerated Meat, Other processed Meat and etc.)



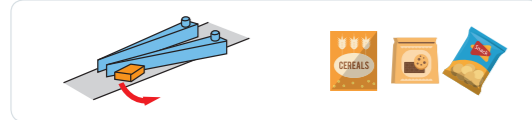
General Industry (Rubber, Timber, Plastic, Chemical Resin, Raw Material Recycling and etc.)



Auto Rejectors Available as option

Flip Bar

The most common type of rejector is the Flip Bar. NG products are pushed aside by the rejector gates (arms). It is ideal for products in boxes and thick bags.



Pusher Type

NG products are pushed off the line sideways by the action of a gate attached to an air cylinder. It is suitable for rejecting products in packages and thick bags.
*Pusher on Belt : For relatively light weighted (Max 0.6 kg) products
*Pusher on Roller : For relatively heavy weighted (Max 30.0 kg) products contained in a box



Drop Belt Type

The rejection conveyor drops down to drop the NG product. It is ideal for products in thin bags and sheets.



Retracting Conveyor Type

The belt on the rejecter is expanded/contracted during the rejection to let the rejected products fall. It is ideal for unpackaged animal products and sticky bulk products.



Air Blast Type

NG products are blown sideways off of the line by a powerful air jet. It is ideal for small, lightweight packaged products at high speed.



Slide Carriage Type

NG products are sorted horizontally without any shock due to rejection. Since the rejection process doesn't cause any damage, it is ideal for fragile products and open-topped containers (Cans & Jars).



Roadless Type

It is ideal for long shaped products.



Dumper Chute

Rejected products fall when the chute is reversed. It is ideal for rejecting relatively light bulk products.



NMD-530 Series

CONVEYOR TYPE METAL DETECTOR

NMD-530 Series
SEEKER



Certified by CE mark **CE**



NMD530 Series(SEEKER) Conveyor type metal detector is the most widely demanded model among NMD530 Series range products. Offering multi frequency operation system which is able to auto-select the correct operating frequency for maximum contaminant sensitivity in seconds. No longer are operators required to manually optimize frequencies, which is both time consuming and risky.

Complemented by an array of innovative features and advantages, NMD530 Series (SEEKER) Conveyor type metal detector delivers tangible benefits to the manufactures at every key stage in their process and is equally effective in both "wet" and "dry" application.

- Multi-Frequency Operation
- Full Color Touch Screen (7 inch TFT LCD)
- User-Friendly Operating System
- Phase-Tracking Function
- Digital Signal Processing(32-Bit Microprocessor)
- Auto-Setting Function
- Powerful Durability (IP66)
- Smart Self-Diagnosis
- USB Port for Data Management
- RS232C & 485 Data Link Ports
- Security System (3-Level Passwords)
- Metal Detecting History Management
- Easy Software Upgrade
- Variable Languages Option

CONVEYOR TYPE METAL DETECTOR

NMD-530 Series

SEEKER Multi Frequency

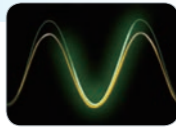


High Performance for Metal Detection

- Closed Coil System for perfect detection
- High quality filter for more precise detection
- Auto absorption function for vibration, impact, noise and etc.,
- Dust Proof & Water Proof Standard (IP66) authentication

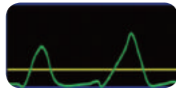
Multi Frequency Operation

- Supporting multi frequency operation mode that can measure various types of products with the correct operating frequency for maximum contaminant sensitivity in seconds



Phase Tracking Function

- Optimum detecting level is maintained by automatically coping with products of which phase is changed minutely, so detection is rather difficult such as frozen food.



Full Color Touch Screen (7 inch TFT LCD)

- An intuitive and convenient full color touch screen, containing regional languages and user manual



Digital Signal Processing Function

- The adoption of 32-bit microprocessor has added more precise operation and performance of the equipment. Software filter technology to remove ambient noise affecting performance of a metal detector has been applied.

Exterior Design considering the convenience and aesthetics

- Modern and sensuous design in which both convenience and beauty are emphasized at the same time

Connectivity to external devices

- Backing up inspection history and etc., by using a USB removable disk and reviewing the data on a PC.
- Monitoring real-time operating status for multiple metal detectors through the connective access to LAN.
- Interlocking the machine to various typed external devices through RS232C & 485 port.



Auto-setting function of the inspection items

- Auto-setting the machine for a testing product with the most suitable values even for beginners not to operate the equipment properly.

Setting function of a variety of items for convenient operation

- Up to 100 kinds of products are registered with each different setting value for convenient operation.

Manageable Metal Detecting History

- Detection history by various classifications and periods (in a daily / weekly / monthly / period-specified way)
- Data on detection history accessibility by LCD screen, USB disk and Printer (Optional).

Easy Software upgrade

- Easy software upgradability by USB and touch screen whenever the latest version is available

Password Setup Function

- Setting up each three different passwords depending on each status (a user, an administrator and an engineer)

Supplying detecting Head and control Box only is available



External Output Printer Setup Function(Optional)

- Additional option for installing an external output printer for detection history



Selectable Auto Rejecting System Type of Conveyor Belts

- Plastic Chain Modular Belt for oil or moisture resistance and no deformation or tension changes, impact and abrasion resistance.
- Poly Urethane Belt for contacting bulk foods (FDA accreditation)

Selectable Various Rejecting System

- Standard Rejector (Belt Stops, Audible Alarm & Lamp)
- Optional Rejectors (Flip Bar / Pusher on Belt / Pusher on Roller) (Air Blast / Dumper Chute) (Drop Flap / Slide Carrier)

* Please refer to page #4 for more details about optional auto rejectors.

Test Pieces (Sphere Type)

Fe						Non-Fe						SUS304					
Fe						Non-Fe						SUS304					
φ0.3	φ0.5	φ0.8	φ1.0	φ1.5	φ2.0	φ0.5	φ0.8	φ1.0	φ1.2	φ1.5	φ2.0	φ0.5	φ0.8	φ1.0	φ1.2	φ1.5	φ2.0
3.5	4.0	4.5	5.0	6.0	7.0	4.0	4.5	5.0	6.0	7.0	8.0	4.0	4.5	5.0	6.0	7.0	8.0
2.5	3.0	3.5	4.0	4.5	5.0	3.0	3.5	4.0	4.5	5.0	6.0	3.0	3.5	4.0	4.5	5.0	6.0

* Certificate of Conformity for Test Pieces is available upon request

Customizable Design

- Extended / Inclined Conveyor
- Super Wide Head Width (Max. 2,000mm) & Head Height (Max. 1,000mm)

Outputs

> Relay (5A) / 1A1B 2EA, DC24V SOL, AC220V 0.2A

Power Supply

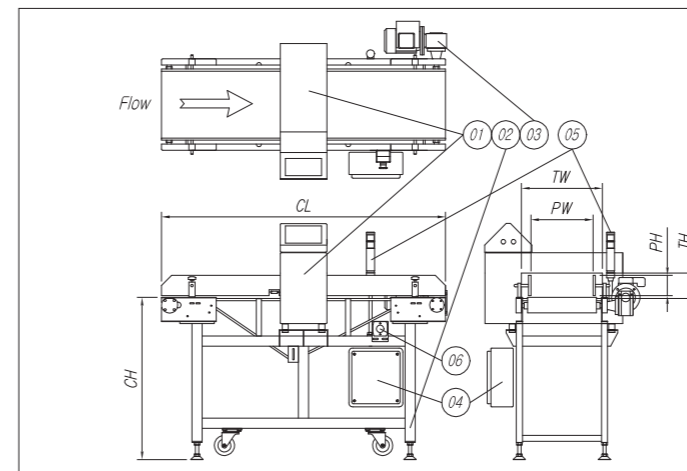
> Single Phase (110 to 220V) & Three Phase (220 to 380V and etc.)
 > Free Cycle (50/60Hz)
 > Fuse (3A)

Network

> Ethernet Port (TCP/IP Connectivity and remote monitoring support)
 > Serial Communication Port (RS-232C x 1 & RS485 x1)

Operating Temperature

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



No	Description	Material
1	Metal Detector Head	SUS304
2	Conveyor Frame	SUS304
3	Moter	.
4	Power Box	SUS304
5	Tower Lamp	.
6	Emergency Switch	.

Specification

Standard Specification	NMD530 2010	NMD530 2015	NMD530 2020	NMD530 2025	NMD530 2030	NMD530 2510	NMD530 2515	NMD530 2520	NMD530 2525	NMD530 2530	NMD530 3010	NMD530 3015	NMD530 3020	NMD530 3025	NMD530 3030	NMD530 3510	NMD530 3515	NMD530 3520	NMD530 3525	NMD530 3530	NMD530 4010	NMD530 4015	NMD530 4020	NMD530 4025	NMD530 4030	NMD530 4510	NMD530 4515	NMD530 4520	NMD530 4525	NMD530 4530	NMD530 5010	NMD530 5015	NMD530 5020	NMD530 5025	NMD530 5030	NMD530 5510	NMD530 5515	NMD530 5520	NMD530 5525	NMD530 5530	NMD530 6010	NMD530 6015	NMD530 6020	NMD530 6025	NMD530 6030	
Tunnel Size	Width (TW)	200					250					300					350					400					450					500					550					600				
	Height (TH)	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300
Passing Size	Width (PW)	150					200					250					300					350					400					450					500					550				
	Height (PH)	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270	70	120	170	220	270
Estimated *1 Sensitivity	Ferrous	0.5	0.5	0.8	0.8	1.0	0.5	0.8	0.8	1.0	1.0	0.5	0.8	0.8	1.0	1.2	0.5	0.8	1.0	1.0	1.2	0.8	0.8	1.0	1.0	1.5	0.8	0.8	1.0	1.2	1.5	0.8	0.8	1.0	1.2	1.5	0.8	0.8	1.0	1.5	1.5	0.8	0.8	1.2	1.5	1.5
	SUS304	0.8	1.0	1.0	1.0	1.2	0.8	1.0	1.0	1.5	1.5	0.8	1.0	1.2	1.5	1.5	0.8	1.0	1.2	1.5	1.5	1.0	1.2	1.5	1.5	2.0	1.0	1.2	1.5	1.5	2.0	1.0	1.2	1.5	1.5	2.0	1.0	1.2	1.5	2.0	2.0	1.0	1.2	1.5	2.0	2.0
Conveyor Length (CL)	1,000 ~ 2,000mm																				1,000 ~ 2,000mm																									
Conveyor Height (CH)	500~1,500mm (+50 & -20mm)																				500~1,500mm (+50 & -20mm)																									
Conveyor Speed	Fixed (22M/Min.) & Variable (Max. 44M/Min.)																				Fixed (22M/Min.) & Variable (Max. 44M/Min.)																									
Standard Rejecting System	Belt Stops, Audible Alarm & Lamp (Auto Rejector available as option)																				Belt Stops, Audible Alarm & Lamp (Auto Rejector available as option)																									
Preset Numbers	100 Items																				100 Items																									
Outputs	Relay (5A) / 1A1B 2EA, DC24V SOL, AC220V 0.2A																				Relay (5A) / 1A1B 2EA, DC24V SOL, AC220V 0.2A																									
Power Supply	Single Phase(110 to 220V) & Three Phase(220 to 380V and etc.), Free Cycle(50/60Hz) & Fuse(3A)																				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 the normal condition)																				0°C to 50°C (advised to use the machine under the normal condition)																									


*1 Results of when test balls, Fe and SUS 304 were set at the center of belt surface under the highest frequency. Detection sensitivity depends on product shape, installation and environmental conditions

METAL DETECTOR FOR ALUMINUM-PACKAGED PRODUCTS

NEW Dual Sensor Type
Wider Conveyor Selection (250, 350 & 500mm)

NAD-4000 Series



Certified by 

ECONOMICAL AND EFFECTIVE SEARCH FOR METAL IN CONDUCTIVE OR ALUMINUM-PACKAGED PRODUCTS

NAD-4000 Series metal detector detects even the smallest metal particles safely and reliably in every type of aluminum-packaged products. Compared with X-Ray scanners, **NAD-4000** 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.

NOW SYSTEMS Total Inspection Systems & solution
NOW SYSTEMS CO., LTD.



Retort Pouches



Aluminum Cap



Pickled Foods



Aluminum Packaging



Other type of Packaging

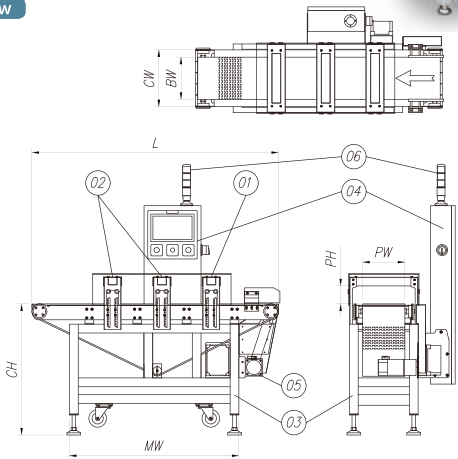


NAD-4000 Series NEW Dual Sensor Type Wider Conveyor Selection (250, 350 & 500mm)



- Dual Sensor Type** New
More Stable Operation
- Low investment and maintenance cost**
- 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**
- Configurable Passing Height**
(Min. 50 ~ Max. 150mm by every 10.0mm)
- Password Setup Function**

- Wider Conveyor Selection** New
(250, 350 & 500mm)
- 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**



No	Description	Material
1	Magnet	-
2	Dual Sensor	-
3	Conveyor	SUS304
4	Control Box	SUS304
5	Motor	-
6	Tower Lamp	-

Test Pieces (Hexahedron Type)

	(mm)					
Fe	0.8	1.0	1.2	1.5	2.0	2.5
	3.0	3.5	4.0	4.5	5.0	-
	(mm)					
SUS	0.8	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)

Model Name	NAD-4000-2505 ~ 2515	NAD-4000-3505 ~ 3515	NAD-4000-5005, 5010 & 5015
Passing Height (PH)	Min. 50 to Max. 150mm (Manually Adjustable by every 10mm)		
Maximum Pass Width (PW)	250mm	350mm	500mm
Belt Width	Plastic Belt (BW)	240mm	340mm
	Urethane Belt (BW)	250mm	350mm
Conveyor Size	Length (CL)	Min. 1,400 to Max. 1,800mm	
	Height (CH)	Min. 650 to Max. 1,000mm (+/-50mm)	
Conveyor Width (CW)	322mm	422mm	622mm
Machine Width (MW)	605mm	705mm	775mm
Magnets			
"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			
Operation Method	LCD Touch Screen for Main Screen & Manual Power / Conveyor / Emergency Switch		
Preset Memory	Max. 50 (Expandable upon request)		
Product Packaging			
Belt Speed	Plastic Belt	Max. 42M/Min.	Max. 42M/Min. (Plastic Belt Only)
	Urethane Belt	Max. 28M/Min.	Max. 28M/Min.
Maximum Product Weight	12.0 kgs	12.0 kgs	15.0 kgs
Unit Weight (Without Packaging)	135 kgs	T.B.A	T.B.A
Exterior Material			
Protection Cover (Material)	Stainless Steel 304 (Polishing)		
Tower Lamp	Included (Polycarbonate)		
External Printer (Model)	Green & Red (2 Colors) / Buzzer		
Standard Rejecter	BS	Optional (HP-320)	
		Belt Stop	
External Rejecter (Optional)	AB	Air Blast	
		Flip Bar (Separate Reject Conveyor)	
		Pusher Bar (Separate Reject Conveyor)	
		Drop Belt (Separate Reject Conveyor)	
Protection Class (IP Level)	DB	IP55 (Standard) & IP65 (Optional)	
		USB Port for Detection History Download & Software Upgrade	
Data Output	AC Output: 4 ports & 24V Output: 4 ports		
Signal Output	2 ports (1 port for Receiving External NG & 1 port for Extra Spare)		
Signal Input	AC SSR Relay (8A) SPST NO (Form A): 4 ports		
Relay Ports	DC PhotoMOS (1A) SPST NO (Form A): 4 ports		
Power Supply	Single Phase (110 to 220V) & Three Phase (220 to 380V & Etc.), (50 or 60hz) & Fuse (3A)		
Ethernet Connection to PC	Monitoring Real Time Status of Machine through Computer		
Environmental Conditions	0°C to 50°C, relative humidity 30% to 80%, non-condensing		
Estimated Sensitivity (Ferrous & Stainless Steel) ※ based on regular hexahedron test pieces provided by Nowsystems	1.0mm under passing height (50mm)		
	1.5mm under passing height (100mm)		
	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 .

FALL TYPE METAL DETECTOR

NMD-530 Series

QUICKER[®]



Certified by CE mark 

QUICKER[®]

NMD530 Series (QUICKER) fall type metal detector is designed to be installed at the beginning of the production line to inspect materials in bulk powder or granule form or at any point where inspection of free falling products is necessary.

Providing unrivalled levels of detection sensitivity through an array of innovative features and advantages, NMD530 Series (QUICKER) fall type metal detector is ideal for minimized height allowing them to be installed in the often restricted space between a weigher and a bag maker.

- For Inspecting Powders and Fine-Grained Bulk Materials
- Metal Separation Using a Reject Diverter System
- Minimal Installation Space
- Unrivalled Detection Sensitivity
- Full Color Touch Screen (7 inch TFT LCD)
- Digital Signal Processing (32-Bit Microprocessor)
- Auto-Setting Function of the Inspection Items
- Powerful Durability (IP66)
- Smart Self-Diagnosis
- USB Port for Data Management
- RS232C & 485 data link ports
- Security System (3-Level Password)
- Metal Detecting History Management
- Easy Software upgrade
- Variable Languages Option

 Total Inspection Systems & solution
NOW SYSTEMS CO., LTD.



FALL TYPE METAL DETECTOR

NMD-530 Series

QUICKER[®]

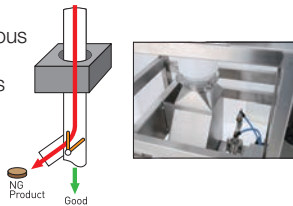


For Inspecting Powders and Fine-Grained Bulk Materials

- Offering the highest levels of sensitivity for inspecting various types of powders and fine-grained bulk materials
- Ideal for inspecting product while inflight between the weigher and bagger

Metal Separation Using a Reject Diverter System

- Flap type reject diverter system is suitable for various types of powders and fine-grained bulk materials



Minimal Installation Space

- Installation in restricted spaces in vertical packaging application between the weigher and bagger.

Unrivalled Detection Sensitivity

- The use of high frequency technology combined with enhanced filtering techniques delivers the highest levels of sensitivity across all metal types.

Full Color Touch Screen (7 inch TFT LCD)

- An intuitive and convenient full color touch screen, containing regional languages and user manual

Connectivity to External Devices

- Backing up inspection history and etc., by using a USB removable disk and reviewing the data on a PC.
- Monitoring real-time operating status for multiple metal detectors through the connective access to LAN.
- Interlocking the machine to various typed external devices through RS232C & 485 port.

Auto-Setting Function of the Inspection Items

- Auto-setting the machine for a testing product with the most suitable values even for beginners

Setting Function of a Variety of Items for Convenient Operation

- Up to 100 kinds of products are registered with each different setting value for convenient operation.

Manageable Metal Detecting History

- Detection history by various classifications and periods (in a daily / weekly / monthly / period-specified way)
- Data on detection history accessibility by LCD screen, USB disk and Printer (Optional).

Easy Software Upgrade

- Easy software upgradability by USB and touch screen whenever the latest version is available

Password Setup Function

- Setting up each three different passwords depending on each status (a user, an administrator and an engineer)

External Output Printer Setup Function

- Additional option for installing an external output printer for detection history

Outputs

- Relay (5A) / 1A1B 2EA, DC24V SOL, AC220V 0.2A

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)

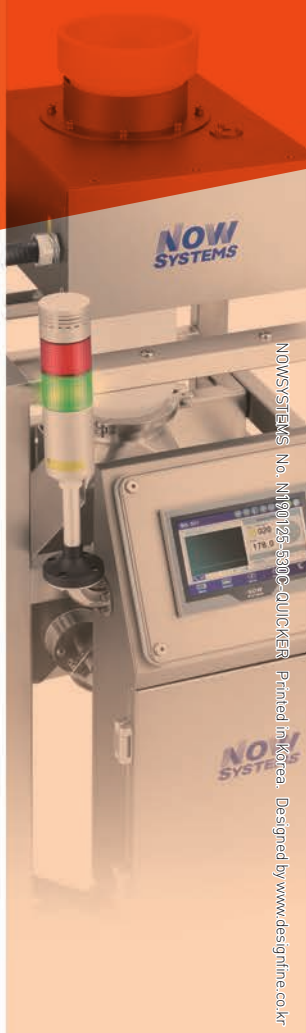
Test Pieces (Sphere Type)

Fe										(φmm)							
0.3	0.5	0.8	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10
Non-Fe										(φmm)							
0.5	0.8	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10	
SUS304										(φmm)							
0.5	0.8	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10	

* Certificate of Conformity for Test Pieces is available upon request

No	Description	Material
1	Metal Detector	SUS304
2	Controller Box	SUS304
3	Frame	SUS304
4	Pipe	PE
5	Rejector Diverter	SUS304
6	Tower Lamp	.

Tunnel Size (mm)	60	80	100	120	150	200	250
Passing Size (mm)	30	50	70	90	120	170	220



Application



PHARMACEUTICAL TYPE METAL DETECTOR

NMD-530 Series

MEDIC[®]



Certified by CE mark 

MEDIC[®]

NMD530 Series(MEDIC) Pharmaceutical type metal detector is the most delicate system among NMD530 Series range products. Offering unparalleled accuracy in the detection of metallic contaminants in pharmaceutical products, it can detect and reject microscopic particles in pharmaceutical production lines at speeds of up to 15,000 tablets per minute. Even in difficult application, our innovative technology continues to provide exceptional performance.

Robustly designed and easy to install and applicable to various types of production line due to its compact size and simple desorption of a stainless steel grade 316 chute and a solenoid type reject diverter with a transparent PVC rejecting bin.

- Sensitivity Well Beyond Industry Standards
- Metal Separation Using a Solenoid Type Reject Diverter System
- Full Color Touch Screen (7 inch TFT LCD)
- User-Friendly Operating System
- Digital Signal Processing (32-Bit Microprocessor)
- Auto-Setting Function
- Powerful Durability (IP66)
- Smart Self-Diagnosis
- USB Port for Data Management
- RS232C & 485 Data Link Ports
- Security System (3-Level Password)
- Metal Detecting History Management
- Easy Software Upgrade
- Full Validation Document
- Variable Languages Option

 Total Inspection Systems & solution
NOW SYSTEMS CO., LTD.



PHARMACEUTICAL METAL DETECTOR

NMD-530 Series

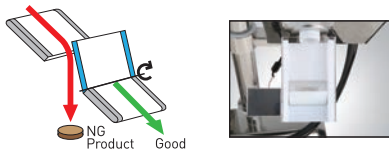


Sensitivity Well Beyond Industry Standards

- Closed coil system for perfect detection
- High quality filter for more precise detection
- Polished stainless steel 304 Detecting head can process up to 15,000 tablets per minute
- Auto absorption function for vibration, impact, noise and etc.,
- Dust Proof & Water Proof Standard (IP66) Authentication

Metal Separation Using a Solenoid Type Reject Diverter System

- A mirror-polished stainless steel grade 316 solenoid type reject diverter system
- Designed for easy dismantlement and cleaning.
- A failsafe feature for contaminated products not to be accepted in the event of a mechanism or electrical fault.
- Fitted with FDA approved material and a transparent cover enabling product flow to be monitored easily.



Full Color Touch Screen (7 inch TFT LCD)

- An intuitive and convenient full color touch screen, containing regional languages and user manual

Connectivity to External Devices

- Backing up inspection history and etc., by using a USB removable disk and reviewing the data on a PC.
- Monitoring real-time operating status for multiple metal detectors through the connective access to LAN.
- Interlocking the machine to various typed external devices through RS232C & 485 port.

Auto-Setting Function of the Inspection Items

- Auto-setting the machine for a testing product with the most suitable values even for beginners

Setting Function of a Variety of Items for Convenient Operation

- Up to 100 kinds of products are registered with each different setting value for convenient operation.

Manageable Metal Detecting History

- Detection history by various classifications and periods (in a daily / weekly / monthly / period-specified way)
- Data on detection history accessibility by LCD screen, USB disk and Printer (Optional).

Easy Software Upgrade

- Easy software upgradability by USB and touch screen whenever the latest version is available

Full Validation Document

- Full validation documentation (IQ, OQ & PQ) can be supplied for each system with additional cost.

Outputs

- Relay (5A) / 1A1B 2EA, DC24V SOL, AC220V 0.2A

Power Supply

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

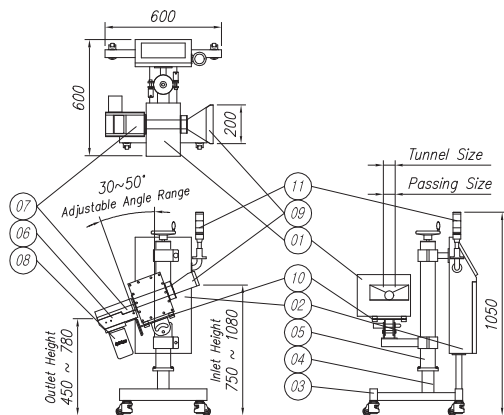
Operating Temperature

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

Test Pieces (Sphere Type)



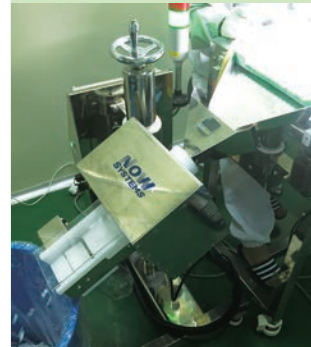
* Certificate of Conformity for Test Pieces is available upon request



No	Description	Material
1	Metal Detector Head	SUS304
2	Controller Box	SUS304
3	Frame	SUS304
4	Guide Pipe	SUS304
5	Up/Down Pipe	SUS304
6	Reject Diverter(Removable)	PE
7	Reject Chute	PE
8	Rejecting Bin(Removable)	PET
9	Chute(Removable)	SUS316
10	Metal Detector Bracket	SUS304
11	Tower Lamp	.

Tunnel Size (mm)	40	50	60	Inlet Height	Min. 750 ~ Max. 1,080
Passing Size (mm)	35	45	55	Outlet Height	Min. 450 ~ Max. 780
Adjustable Angle Range	30 ~ 50°				

Application



PIPE LINE TYPE METAL DETECTOR

NMD-530 Series



Certified by CE mark 

STREAMER®

NMD530 Series(STREAMER) pipe line type metal detectors are designed for pumped product, meats, slurries and sauces. Available in a range of pipe sizes starting from 80mm (2S) and come complete with industry standard fittings.

Pipeline detection heads are designed to deliver unrivalled sensitivity to all metal types including ferrous, non-ferrous and stainless steel. This superior detection capability combined with robust stability in harsh environments provides the best on-line performance available.

- For inspecting liquid and pasty product like juice, sauces, jam, soup and etc.
- Metal Separation Using a Ball Valve System
- Unrivalled Detection Sensitivity
- Broad Range of Flow-Rates for Industry Standard Pipe Size
- Perfect Complement for meat pumps such as Handtmann®, Vemag®, etc.
- Full Color Touch Screen (7 inch TFT LCD)
- Digital Signal Processing (32-Bit Microprocessor)
- Auto-Setting Function of the Inspection Items
- Powerful Durability (IP66)
- Smart Self-Diagnosis
- USB Port for Data Management
- RS232C & 485 data link ports
- Security System (3-Level Password)
- Metal Detecting History Management
- Easy Software Upgrade
- Variable Languages Option

 Total Inspection Systems & solution
NOW SYSTEMS CO., LTD.



PIPE LINE TYPE METAL DETECTOR

NMD-530 Series

STREAMER®

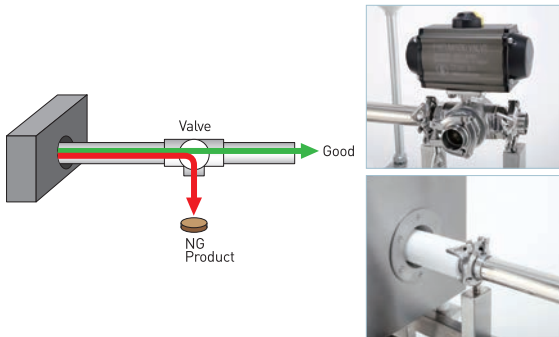


For inspecting liquid and pasty product like juice, sauces, jam, soup and etc.

- Offering the highest levels of sensitivity for inspecting various types of pumped product, meats, slurries and sauces.
- Applicable for high temperature liquid (Up to 80°C)

Metal Separation Using a Ball Valve System

- Effective rejecting system to minimize product loss without a need to stop the operation during metal separation
- Wash-Down Okay



Unrivalled Detection Sensitivity

- The use of high frequency technology combined with enhanced filtering techniques delivers the highest levels of sensitivity across all metal types.

Full Color Touch Screen (7 inch TFT LCD)

- An intuitive and convenient full color touch screen, containing regional languages and user manual

Connectivity to External Devices

- Backing up inspection history and etc., by using a USB removable disk and reviewing the data on a PC.
- Monitoring real-time operating status for multiple metal detectors through the connective access to LAN.
- Interlocking the machine to various typed external devices through RS232C & 485 port.

Auto-Setting Function of the Inspection Items

- Auto-setting the machine for a testing product with the most suitable values even for beginners

Setting Function of a Variety of Items for Convenient Operation

- Up to 100 kinds of products are registered with each different setting value for convenient operation.

Manageable Metal Detecting History

- Detection history by various classifications and periods (in a daily / weekly / monthly / period-specified way)
- Data on detection history accessibility by LCD screen, USB disk and Printer (Optional).

Easy Software Upgrade

- Easy software upgradability by USB and touch screen whenever the latest version is available

Password Setup Function

- Setting up each three different passwords depending on each status (a user, an administrator and an engineer)

External Output Printer Setup Function

- Additional option for installing an external output printer for detection history

Outputs

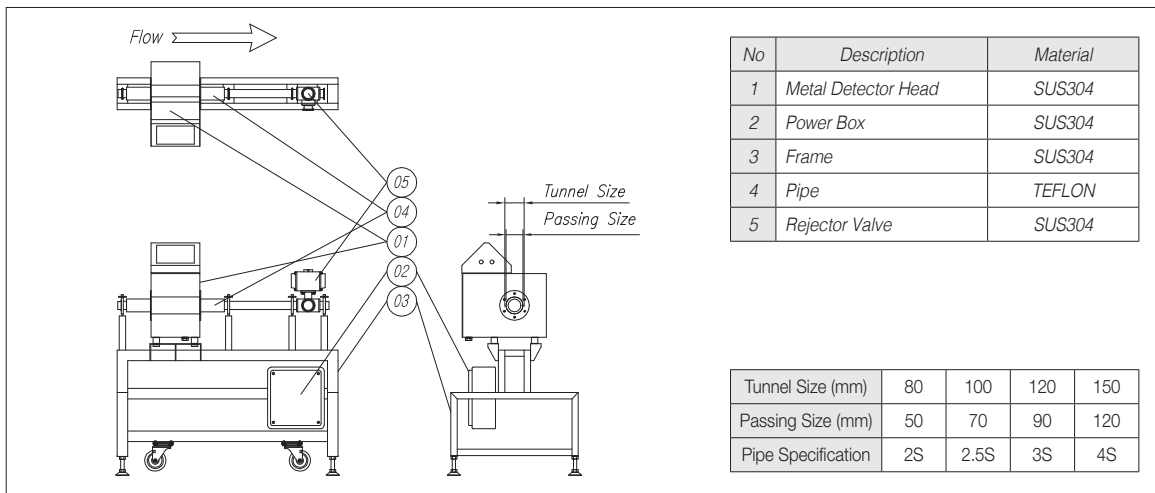
- Relay (5A) / 1A1B 2EA, DC24V SOL, AC220V 0.2A

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)



Application



NWC3000 Series AUTO CHECK WEIGHER

Application

General Food
(Instant Food, Cookie/Bread, Kimchi, Vegetable, Tofu and etc.)



Meat
(Frozen/Refrigerated Meat, Other processed Meat and etc.)



Sea Food
(Frozen/Refrigerated Sea Food, Dried Fish and etc.)



Pharmaceutical Industry
(Tablet/Capsule, Granules, Powder and etc.)

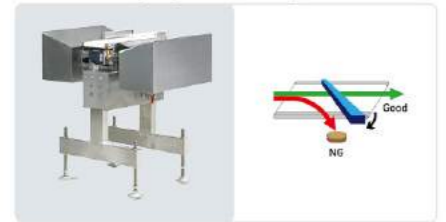


General Industry
(Rubber, Timber, Plastic, Chemical Resin, Raw Material Recycling and etc.)

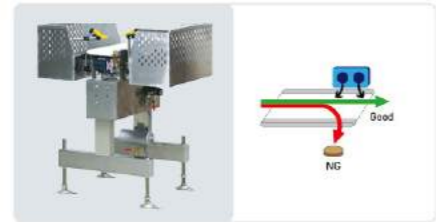


Auto Rejectors Available as option

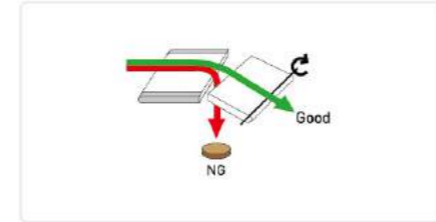
Flip Bar
For small sized (100~250mm) and light weighted (up to 6.0 kg) products
For relatively high-thickness products



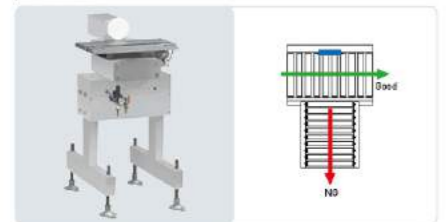
Air Blast
For small and light weighted (Max. 0.6kg) products moving in a high speed



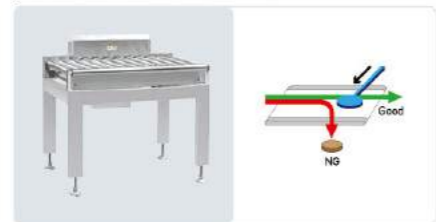
Dumper Chute
For products transferred in bulk



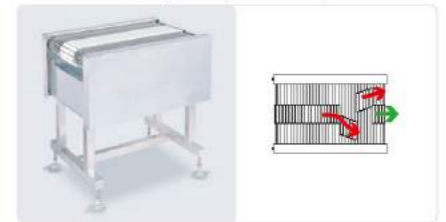
Pusher on Belt
For relatively light weighted (Max 0.6 kg) products



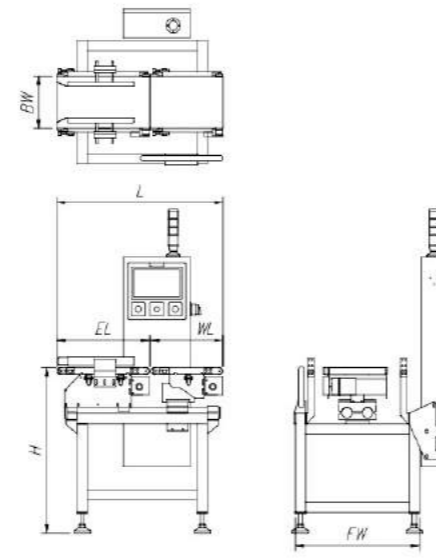
Pusher on Roller
For relatively heavy weighted (Max 30.0 kg) products contained in a box



Slide Carrier
For light weighted (about 0.6 kg) products contained in a tray, a cup and a bag.



Drop Belt
For relatively light weighted (Max. 6.0 kg) and low-thickness products in a limited site



NWC3000 Series AUTO CHECK WEIGHER

ABACUS



NWC3000 Series auto check weigher has been developed to satisfy the strictest production requirements, providing ease of operation, flexibility, hygiene, high-speed processing and optimum accuracy by measuring product weight quickly and precisely - rejecting "out of tolerance".

Full color touch screen (10 inch TFT LCD) is easy to see and offers a simple user-friendly menus together with various convenient functions. The unique modular design allows easy on-site adjustment for installation and remarkable accessibility for maintenance which enables minimal downtime.

- | | |
|--|--|
| Full Color TFT LCD Touch Screen (10 inch TFT LCD) | No More Paper Manual Book |
| Digital Signal Processing (32-Bit Microprocessor) | Selectable Conveyor Belt Type |
| Dynamic Calibration | Easy Production Record Statistic Function |
| Auto/Manual Zero Adjust | Internal Memory and USB Disk Backup / Recovery |
| 3 Kinds of User Level Choices | Display & IOB Board Firmware Update |
| Built-in Temperature Change and Noise Compensation Circuit | External Printer (Optional) |
| Easy Production Record Statistic Function | Metal Detector (Optional) |
| 3 Kinds of User Level Passwords | Communication Interfaces (Optional) |
| 3 Kinds of Operating Screens | Feedback Control (Optional) |
| | Wash Down for Conveyor (Optional) |

NOW SYSTEMS Total Inspection Systems & solution
NOW SYSTEMS CO., LTD.

Head Office / Factory 61, Venture-ro, Yeonsu-gu, Incheon, Korea Tel. +82-32-858-6655
Fax. +82-32-858-6938 E-mail. nowsys@nowsystems.co.kr (Rep) www.nowsystems.co.kr



NOWSYSTEMS No. N180601-NWC3000 Printed in Korea. Designed by www.designline.co.kr

NOW SYSTEMS Total Inspection Systems & solution
NOW SYSTEMS CO., LTD.



NOWSYSTEMS
NWC3000 Series AUTO CHECK WEIGHER

NWC3000 Series **ABACUS** AUTO CHECK WEIGHER



Main Features

Full Color TFT LCD Touch Screen (10 inch TFT LCD)

> An intuitive and convenient full color touch screen, containing regional languages and user manual

Digital Signal Processing (32 Byte Microprocessor)

> Greater accuracy at high speeds can be obtained using 32 byte microprocessor which allows filter characteristics to be set automatically.

Dynamic Calibration

> Dynamic calibration displays correct weight if there is discrepancy between the ready status and operational weight displays.

Auto/Manual Zero Adjust

> Zero adjustment can be performed by the operator before start-up or product changeover. Also, Automatic Zero adjustment is programmed to occur at regular intervals during production.

Built-in Temperature Change and Noise Compensation Circuit

3 Kinds of User Level Passwords

> 3 Kinds of User Levels (Operator, Quality Manager & Engineer Menu) can be set depending on possible operational functions.

3 Kinds of Operating Screens

> 3 Kinds of Operating Screens (Basic, Graph & Simple Screens) are provided depending on user taste.

No More Paper Manual Book

> On-the-go user manual on the screen guides the operator through necessary set-up and operational procedure on each stage.

Selectable Conveyor Belt Type

> Either plastic chain belt or urethae belt can be selected for application

Easy Production Record Statistic Function

Internal Memory and USB Disk Backup / Recovery

Display & IO Board Firmware Update

Optional Features

External printer

> An external printer can be installed to the control unit. Preset parameter data and various performance data can be recorded and printed.

Metal Detector

> A high-efficiency metal detector can be easily added to provide an extra measure of safety and quality assurance.

Communication Interfaces

> Communication interfaces with a host computer or other external devices are available to help optimize your production line's performance.

Feedback Control (RS232C / 485 Ports & Dry Contact Signal)

> Corrective control signals from the checkweigher to an upstream auger filler improve production efficiency.

Wash Down for Conveyor

> Water Proof Motors and Stainless Steel Rollers are used for water proof.

Control Unit

> An user-friendly control unit with a 10 inch 16.7 Color TFT LCD Full Touch Screen helps view weighing result and status of the machine comfortably. Intuitive / simple icons guide the operator through necessary set-up and operational procedures.



Outputs

> 8 Ports Outputs (AC or Dry Contact)

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)

> Menu Tree Screen



> Self-Diagnosis Screen



> Firmware Update Screen



> Data Backup / Recovery Screen



> Weight Calibration Screen



> Weight Judgement Timing Screen



> Statistic Screen



> Product Registration Screen



Specification

Model		NWC3000-100-300	NWC3000-120-300	NWC3000-150-600	NWC3000-180-600	NWC3000-200-1200
Width (mm)	Belt (BW)	100	120	150	180	200
	Weigher (FW)	600	600	500	500	500
Length (mm)	In-Feed Conveyor (EL)	260/320/380	260/320/380	250/300/350/400	250/300/350/400	300/350/400/450
	Weighing Conveyor (WL)	260/320/380	260/320/380	250/300/350/400	250/300/350/400	300/350/400/450
	In-Feed + Weighing Conveyor (L)	524/644/764	524/644/764	505/605/705/805	505/605/705/805	605/705/805/905
Min. Conveyor Height (mm)		750 ±50, 100	750 ±50, 100	750 ±50, 100	750 ±50, 100	750 ±50, 100
Weighing Capacity (gram)		300	300	600	600	1,200
Weighing Range (gram)		3 ~ 300	3 ~ 300	6 ~ 600	6 ~ 600	12 ~ 1,200
Optimum Accuracy (gram)		± 0.15	± 0.15	± 0.3	± 0.3	± 0.4
Scale Interval (gram)		0.05	0.05	0.1	0.1	0.2
Max. Weighing Speed / Min. Belt Speed / Min.		250 ea	250 ea	350 ea/min.	300 ea/min.	250 ea/min.
Testing Product Size (mm)	Width	30 ~ 100	30 ~ 100 mm	30 ~ 150 mm	30 ~ 150 mm	30 ~ 220 mm
	Length	30 ~ 200	30 ~ 200 mm	30 ~ 260 mm	30 ~ 260 mm	30 ~ 320 mm
	Height	10 ~ 100	10 ~ 100 mm	10 ~ 150 mm	10 ~ 150 mm	10 ~ 220 mm
Zero Adjustment		During Operation: Continuous Automatic Dynamic Compensation & During Standby: Manual Compensation				
Display		10 inch 15.7 color TFT LCD Screen (Resolution: 800 x 480)				
Control		Touch Screen, Power Switch, Conveyor Switch & Emergency Switch				
Number of Registerable Products		Max. 100 kinds				
Inputs		8 Ports Inputs				
Protection Cover (Optional)		Material: PC (Polycarbonate)				
External Printer (Optional)		HP-320				
Tower Lamp		Green, Red & Yellow (3 Colors) / Buzzer				
Rejectors Available		FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt

NWC3000-250-1200	NWC3000-300-3000	NWC3000-360-6000	NWC3000-380-20000	NWC3000-480-30000	NWC3000-580-40000	NWC3000-680-60000
250	300	360	380	480	580	680
600	600	600	640	640	600	600
350/400/450/500	400/450/500/550	550/650	700/900/1,100/1,300	900/1,100/1,300	1,100/1,300	1,100/1,300
350/400/450/500	400/450/500/550	550/650	690/914	914/1100	1100/1300	1100/1300
705/805/905/1005	805/905/1005/1105	1,104/1,304	750 ±50, 100	750 ±50, 100	750 ±50, 100	750 ±50, 100
1,200	3,000	6,000	20,000	30,000	40,000	60,000
12 ~ 1,200	30 ~ 3,000	60 ~ 6,000	200 ~ 20,000	300 ~ 30,000	400 ~ 40,000	600 ~ 60,000
± 0.6	± 1.5	± 3.0	± 10	± 10g	± 20	± 40
0.2	0.5	1.0	5.0	5.0	10	20
200 ea/min.	100 ea	75 ea	60 ea	45 ea	30 ea	20 ea
10 ~ 69 mm	10 ~ 58 mm	10 ~ 53 mm	10 ~ 54 mm	10 ~ 52 mm	10 ~ 49 mm	10 ~ 33 mm
30 ~ 250 mm	30 ~ 300 mm	30 ~ 380 mm	30 ~ 380 mm	30 ~ 480 mm	30 ~ 580	30 ~ 680
30 ~ 380 mm	30 ~ 450 mm	30 ~ 550 mm	30 ~ 700 mm	30 ~ 900 mm	30 ~ 1100	30 ~ 1100
10 ~ 250 mm	10 ~ 300 mm	10 ~ 360 mm	10 ~ 380 mm	10 ~ 480 mm	10 ~ 580	10 ~ 680
Zero Adjustment		During Operation: Continuous Automatic Dynamic Compensation & During Standby: Manual Compensation				
Display		10 inch 15.7 color TFT LCD Screen (Resolution: 800 x 480)				
Control		Touch Screen, Power Switch, Conveyor Switch & Emergency Switch				
Number of Registerable Products		Max. 100 kinds				
Inputs		8 Ports Inputs				
Protection Cover (Optional)		Material: PC (Polycarbonate)				
External Printer (Optional)		HP-320				
Tower Lamp		Green, Red & Yellow (3 Colors) / Buzzer				
FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	FB: Flip Bar AB: Air Blast PB: Pusher on Belt DB: Drop Belt	PB: Pusher on Belt PR: Pusher on Roller	PB: Pusher on Belt PR: Pusher on Roller	PR: Pusher on Roller PRI: Pusher on Roller