NCB-3000 Series METAL DETECTOR AND CHECK WEIGHER

Application

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.

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.

Pusher Type
NG products are pushed off the line sidways 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
*Pusehr on Roller : For relatively heavy weighted (Max 30.0 kg) products contained in a box
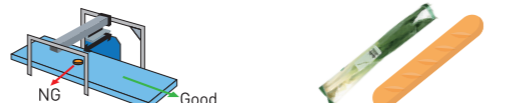
Slide Carrype Type
NG products are sorted horizontally without any shock due to rejection. Since the rejection process doesn't cause any damage, it is ideal for fragile products and open-topped containers (Cans & Jars).

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

Roadless Type
It is ideal for long shaped products.

NG   Good

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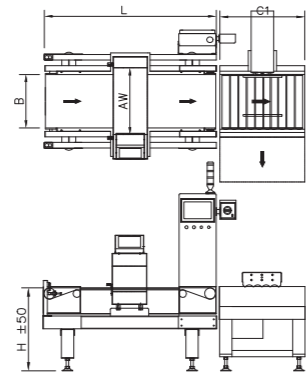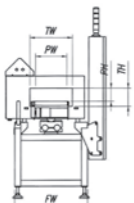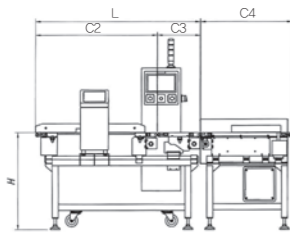
Dumper Chute
Rejected products fall when the chute is reversed.
It is ideal for rejecting relatively light bulk products.

NG   OK

NCB3000 For 300 ~ 1200gram

NCB3000 For 20 ~ 60kg

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

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METAL DETECTOR AND CHECK WEIGHER
NCB-3000 Series

COMBO

Certified by CE mark CE

NCB-3000 Series (COMBO) is combination of a NMD530 Seires metal detector head and a NWC-3000 Series check weigher in one frame for cost effective and space saving purpose, providing superior and reliable product inspection in a compact design.

NCB-3000 Series combination metal detector and check weigher is the most technically superior combination unit on the market. The compact and fully accredited system saves valuable line space eliminating the expense of a separate conveyor for the metal detector.

The checkweigher measures product weight quickly and precisely - rejecting "out of tolerance" products, while the metal detector consitently detects and rejects contaminated products. The easy to use full touch screen interface controls both machines, makes product change fast and simple. A clear benefit of a combined system is the low cost of ownership and the cost saving compared to a separate checkweigher and metal detector.

Cost Effective and Space Saving Unit	Self-Diagnosis Function
Multi-Frequency Operation	Built-in Auto Data Double Back-Up Function
Full Color Touch Screen (7 inch TFT LCD)	Bulit-in Temperature Change and Noise Compensation Circuit
User-Friendly Operating System	Auto Speed Variation Function
Phase-Tracking Function	Auto Product Length Measuring Function
Digital Signal Processing (32-Bit Microprocessor)	Two Kinds Speeds Operating Function
Auto Setting Function	Auto Speed Control & Calibration Function
Powerful Durability	Discretionary Weighing Range Setting Function
Smart Self-Diagnosis	Enhanced Data Totalizing and Data Backup Function
Metal Detecting History Management	Easy Data Analysis and Aggregation Function
	Weight Setting Value Storage (999 cases) and Recall Function
Full Color Touch Screen (10 inch TFT LCD)	USB Memory Saving and Software Update Function
Providing 6 Different Types of Screens	External Devices Control & Feedback Function
Auto Zero Tracking Function	Statistics and Printing Function (Optional)

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

INNOBIZ 기술혁신형중소기업

It's manufactured in Korea

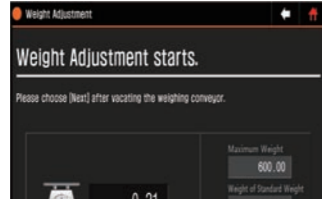# NCB-3000 Series COMBO++
METAL DETECTOR AND CHECK WEIGHER

Control Unit

> An user-friendly contol 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.

> Basic Screen

> Menu Tree Screen

> Weight Calibration Screen

> Self-Diagnosis Screen
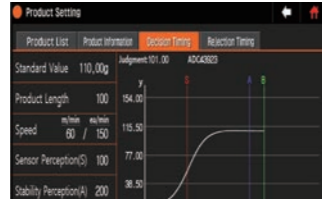

> Graph Screen

> Product Registration Screen

> Weight Judgement Timing Screen
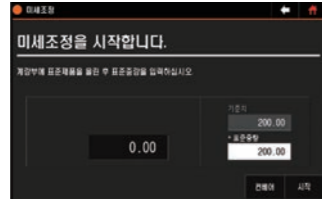

> Firmware Update Screen
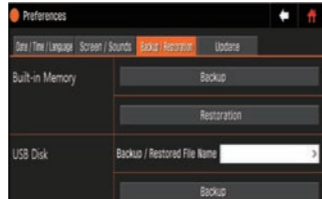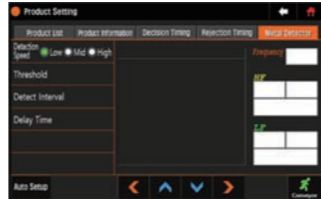

> Simple Screen

> Statistics Screen

> Dynamic Calibration Screen

> Data Backup / Recovery Screen

> Metal Detector Screen

Main Features

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 Levels
> 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 applicatioin

Easy Production Record Statistic Function

Internal Memory and USB Disk Backup / Recovery

Display & IOB 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.

Communiation 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.

Specification

Model		NCB3000-20##-300		NCB3000-25##-600	
Width (mm)	Belt (BW)	100	120	150	180
	Metal Detector Tunnel Width (TW)	200		250	
Length (mm)	Metal Detector Conveyor (C2)	260/320/380		260/320/380/440	
	Weighing Conveyor (C3)	260/320/380		260/320/380/440	
	In-Feed & Weighing Conveyor (L)	C2 + C3 + 4mm		C2 + C3 + 4mm	
	Rejecting Conveyor -Flip Bar (NCB3000-30~600) (C4) -Pusher on Roller (NCB3000-2000~6000) (C1)	440/500/560		500/560/620	
	Min. Conveyor Height (mm)	600 ±50, 100	600 ±50, 100	600 ±50, 100	600 ±50, 100
	Weighing Capacity (gram)	300		600	
	Weighing Range (gram)	3 ~ 300		6 ~ 600	
	Optimum Accuracy (gram)	± 0.15		± 0.3	
	Scale interval (gram)	0.05		0.1	
	Max. Weighing Speed / Min.	250 ea		220 ea	
	Belt Speed / Min.	10 ~ 84 m	10 ~ 84 m	10 ~ 74 m	10 ~ 74 m
	Zero Adjustment	• During Operation : Continuous Automatic Dynamic Compensation • During Standby : Manual Compensation			
Product Dimension (mm)	Width	30 ~ 100 mm		30 ~ 150 mm	
	Length	30 ~ 200 mm		30 ~ 260 mm	
	Height	10 ~ 100 mm		10 ~ 150 mm	
	Rejectors Available	Flip Bar Slide Carrier Air Blast Pusher on Belt Drop Belt	Flip Bar Slide Carrier Air Blast Pusher on Belt Drop Belt	Flip Bar Slide Carrier Air Blast Pusher on Belt Pusher on Roller Drop Belt	Flip Bar Slide Carrier Air Blast Pusher on Belt Pusher on Roller Drop Belt

NCB3000-35##-1200		NCB3000-40##-3000	NCB3000-45##-6000	NCB3000-50##-20000	NCB3000-60##-30000	NCB3000-70##-40000	NCB3000-70##-60000
220	250	300	360	380	480	580	680
350		400	450	500	600	700	700
320/380/440		450/550	550/650				
320/380/440	380/440	450/550	550/650	1300	1300	1300	1300
C2 + C3 + 4mm		C2 + C3 + 7mm		1300	1300	1300	1300
620/680		750/850	850	590/914	914/1100	1100/1300	1100/1300
600 ±50, 100	600 ±50, 100	600 ±50, 100	600 ±50, 100	650 ±50, 100	650 ±50, 100	650 ±50, 100	650 ±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
± 0.4	± 0.6	± 1.5	± 3.0	± 10g		± 20	± 40
0.2		0.5	1.0	5.0		10	20
180 ea	140 ea	100 ea	75 ea	60 ea	45 ea	30 ea	20 ea
10 ~ 74 m	10 ~ 69 m	10 ~ 58 m	10 ~ 53 m	10 ~ 54 m	10 ~ 52 m	10 ~ 49 m	10 ~ 33 m
30 ~ 220 mm	30 ~ 250 mm	30 ~ 300 mm	30 ~ 360 mm	30 ~ 380 mm	30 ~ 480 mm	30 ~ 580	30 ~ 680
30 ~ 320 mm	30 ~ 380 mm	30 ~ 450 mm	30 ~ 550 mm	30 ~ 700 mm	30 ~ 900 mm	30 ~ 1100	30 ~ 1100
10 ~ 220 mm	10 ~ 250 mm	10 ~ 300 mm	10 ~ 360 mm	10 ~ 380 mm	10 ~ 480 mm	10 ~ 580	10 ~ 680
Flip Bar Air Blast Pusher on Belt Pusher on Roller Drop Belt	Flip Bar Air Blast Pusher on Belt Pusher on Roller Drop Belt	Flip Bar Air Blast Pusher on Belt Pusher on Roller Drop Belt	Flip Bar Pusher on Belt Pusher on Roller Drop Belt	Pusher on Belt Pusher on Roller	Pusher on Belt Pusher on Roller	Pusher on Roller	Pusher on Roller