

AUTO CHECK WEIGHER

NWC3000 Series

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.



Certified by CE mark **CE**

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

Digital Signal Processing Sensor (32-Byte Microprocessor)

Dynamic Calibration

Auto/Manual Zero Adjust

3 Kinds of User Level Choices

Built-in Temperature Change and Noise Compensation Circuit

Easy Production Record Statistic Function

3 Kinds of User Level Passwords

3 Kinds of Operating Screens

No More Paper Manual Book

Selectable Conveyor Belt Type

Easy Production Record Statistic Function

Internal Memory and USB Disk Backup / Recovery

Display & IOB Board Firmware Update

Free Monitoring Program through Ethernet Port

European M&S & Tesco Guidelines (Optional)

External Printer (Optional)

Metal Detector (Optional)

Communication Interfaces (Optional)

Feedback Control (Optional)

IP66 Wash Down (Optional)

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 Sensor (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.

Easy Production Record Statistic Function

Internal Memory and USB Disk Backup / Recovery

Display & IOB Board Firmware Update

Free Monitoring Program through Ethernet Port

Optional Features

Various Rejecting Systems & Sensors for European Supermarket Specification (Ex: M&S, Tesco & Etc.,) Reject Confirmation, Bin Full/Open Sensor, Photo Sensor Error, Release Lock with Password & Etc.,

External printer

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



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

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

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.

IP66 Wash Down for Conveyor & Control Unit

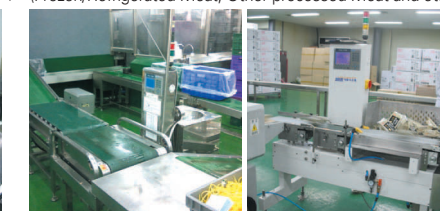
> Water Proof Motors and Stainless Steel Rollers are used for water proof.

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.)



NWC3000 Series *ABACUS* AUTO CHECK WEIGHER

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.

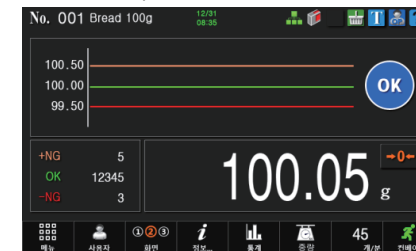
> Basic Main Screen



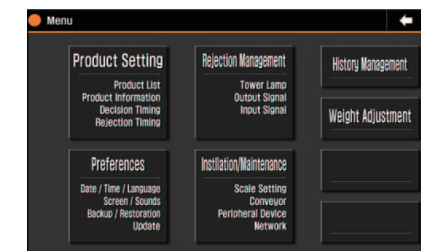
> Enlarged Weight Screen



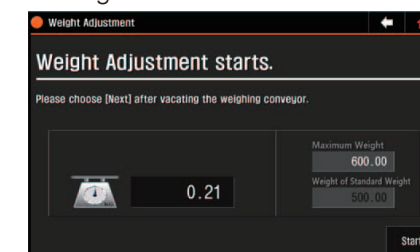
> Line Graph Screen



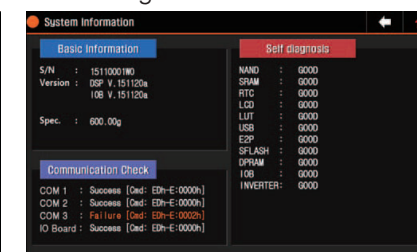
> Menu Tree Screen



> Weight Calibration Screen



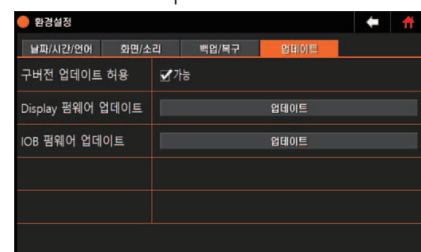
> Self-Diagnosis Screen



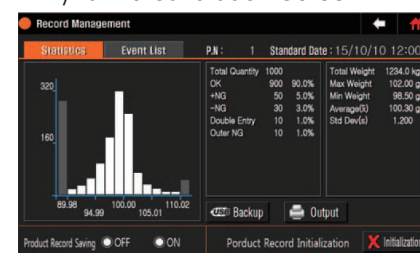
> Weight Judgement Timing Screen



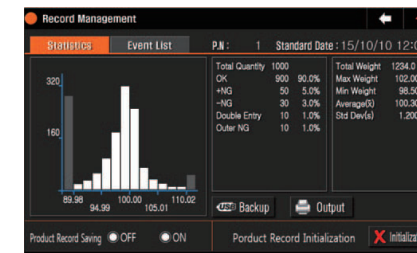
> Firmware Update Screen



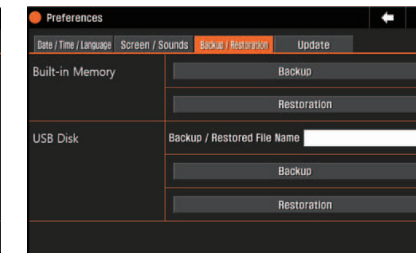
> Dynamic Calibration Screen



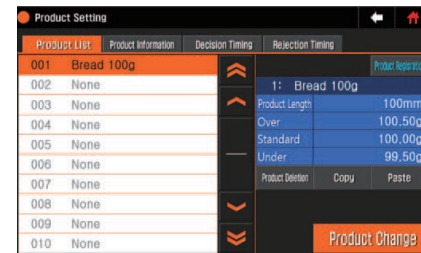
> Statistic Result Screen



> Data Backup / Recovery Screen



> Product Registration Screen



Outputs

> 8 Ports Outputs (AC or Dry Contact)

Power Supply

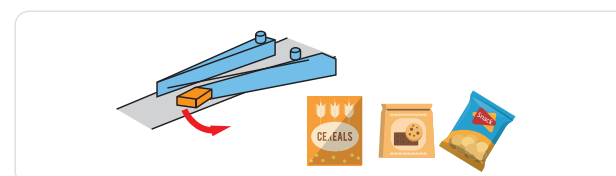
> Single Phase (110 to 220V)
> Three Phase (220 to 380V and etc.)
> Free Cycle (50/60Hz)
> Fuse (3A)

Operating Temperature

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

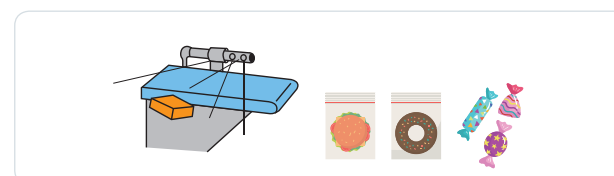
Auto Rejectors Available as option

Flip Bar



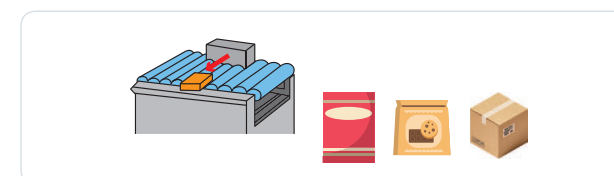
The most common type of rejector is the Flip Bar. NG products are pushed aside by the rejector gates (arms). It is ideal for products in boxes and thick bags.

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 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(Around Max. 0.6 Kg) products
*Pusher on Roller: For relatively heavy weighted (Around Max. 30.0 kg) products contained in a box and bag.

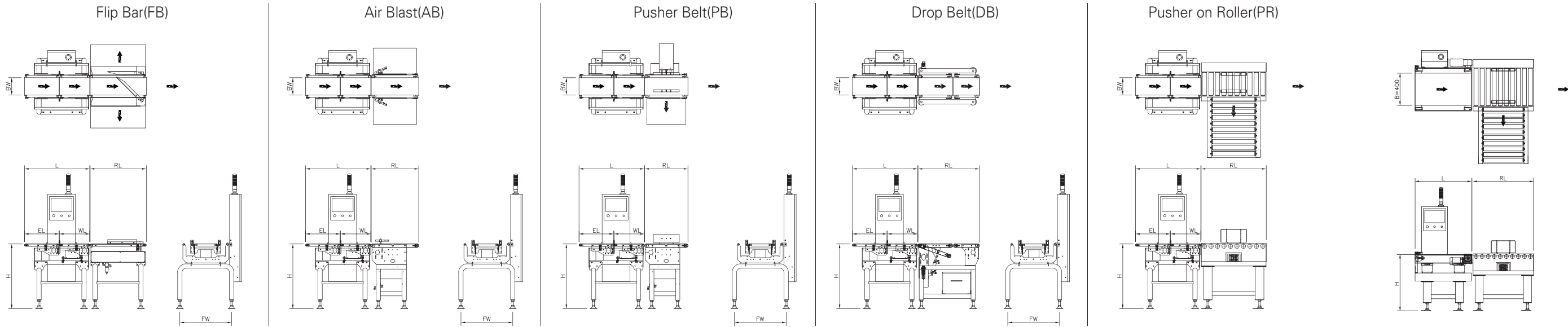
Drop Belt Type



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

NWC3000 - 150~450

NWC3000-400~700



Specification

Model Name			NWC3000-150-600-FB/AB/PB/DB	NWC3000-200-1200-FB/AB/PB/DB	NWC3000-250-1200-FB/AB/PB/DB	NWC3000-300-3000-FB/AB/PB/DB	NWC3000-350-6000-FB/AB/PB/DB	NWC3000-400-6000-FB/PB/PR/DB	NWC3000-450-6000-PB/PR
Width (mm)	Belt (BW)		150	200	250	300	350	400	450
	Weigher Width (MW)		600	600	600	700	700	800	800
Length (mm)	In-Feed Conveyor (EL)		250/300/350/400/450	250/300/350/400/450	350/400/450	450/500/550/600/650	450/500/550/600/650	550/600/650	550/600/650
	Weighing Conveyor (WL)		250/300/350/400/450	250/300/350/400/450	350/400/450	450/500/550/600/650	450/500/550/600/650	550/600/650	550/600/650
	Rejecting Conveyor	Flip Bar (FB)	500/600/650	600/650/700	700/750/800	750/800/850/900	800/850/900	900	N/A
		Air Blast (AB)	550	550	550	550	N/A	N/A	N/A
		Pusher on Belt (PB)	500	500	500	600	600	600	600
		Drop Belt (DB)	400-300/500-500	400-300/500-500	400-300/500-500	500/500	500/500	500/500	N/A
		Pusher on Roller (PR)	N/A	N/A	N/A	N/A	N/A	600	600
In-Feed + Weighing + Rejecting Conveyor			EL+5+WL+5+FB/AB/PB/DB	EL+5+WL+5+FB/AB/PB/DB	EL+5+WL+5+FB/AB/PB/DB	EL+5+WL+5+FB/AB/PB/DB	EL+5+WL+5+FB/AB/PB/DB	EL+5+WL+5+FB/PB/PR/DB	EL+5+WL+5+PB/PR
Min. Conveyor Height (mm)			600 ±50	600 ±50	600 ±50	650 ±50	650 ±50	650 ±50	650 ±50
Weighing Capacity (gram)			600	1,200	1,200	3,000	6,000	6,000	6,000
Weighing Range (gram)			6 ~ 600	12 ~ 1,200	12 ~ 1,200	30 ~ 3,000	60 ~ 6,000	60 ~ 6,000	60 ~ 6,000
Optimum Accuracy (gram) *Depending on product size/weight/working environment			± 0.3	± 0.4	± 0.6	± 1.5	± 3.0	± 6.0	± 6.0
Scale Interval (gram)			0.1	0.2	0.2	0.5	1.0	2.0	2.0
Max. Weighing Speed / Min. *Depending on product size/weight/working environment			200 ea/min	200 ea/min	150 ea/min	100 ea/min	75 ea/min	60 ea/min	50 ea/min
Belt Speed / Min.			10 ~ 70 m/min	10 ~ 70 m/min	10 ~ 70 m/min	10 ~ 60 m/min	10 ~ 60 m/min	10 ~ 50 m/min	10 ~ 50 m/min
Testing Product Size (mm)	Width		30 ~ 150 mm	30 ~ 200 mm	30 ~ 250 mm	30 ~ 300 mm	30 ~ 350 mm	30 ~ 400 mm	30 ~ 450 mm
	Length		30 ~ 350 mm	30 ~ 350 mm	30 ~ 350 mm	30 ~ 500 mm	30 ~ 500 mm	30 ~ 500 mm	30 ~ 500 mm
	Height		10 ~ 150 mm	10 ~ 200 mm	10 ~ 250 mm	10 ~ 300 mm	10 ~ 350 mm	10 ~ 400 mm	10 ~ 450 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						
Outputs			8 Ports Outputs (AC or Dry Contact)						
Protection Cover (Optional)			Material: PC (Polycarbonate)						
External Printer (Optional)			HP-320						
Tower Lamp			Green, Red & Yellow (3 Colors) / Buzzer						
Power Supply			Single Phase (110 to 220V) & Three Phase (220 to 380V and etc.), Free Cycle (50/60Hz) & Fuse (3A)						
Operating Temperature			0oC to 50oC (advised to use the machine under the normal temperature)						
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	FB: Flip Bar PB: Pusher on Belt PR: Pusher on Roller DB: Drop Belt	PB: Pusher on Belt PR: Pusher on Roller