

Optional Features

► Printer

A printer can be attached to the control unit. Preset parameter data and various performance data can be recorded and printed.

► Interface Capability

Communication interfaces with a host computer, Ishida CCW multihead weighers, or other external devices are available to help optimize your production line's performance.

► Feedback Control

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.

► Web-RCU



- **Large 12.1 inch color LCD touch screen panel**
- **Built-in Camera**
Takes and loads product photo onto the operating screen to assist operators in selecting the correct product preset.
- **Data storage by CF card**
CF card stores weighing results and setting parameters. This data can be loaded by PC.
- **iTPS-net**
The Ishida Total Packaging System (iTPS) network integrates the DACS-WN and other Ishida equipment. Preset and production data can be easily shared with this network.

Rejectors



Arm



Air-jet



Push-plate



Roller



Drop-belt



Caterpillar-separator

Other types of rejectors are available upon consultation.

Notes:

1. A waterproof model which conforms to IP65 standards is also available.
2. The DACS-WN with built-in metal detector is available.



Ishida, the world leader in weighing technology, also manufactures a full line of multihead weighers.

DACS WN Series

A Broad Range of Checkweighers



DACS-WN-003

Feel our State-of-the-Art Technology for Superior Precision and High Performance

DACS-WN Series

Using ISHIDA's proven technology, the DACS-WN Series has been developed to satisfy the strictest production requirements, providing ease of operation, flexibility, hygiene, high-speed processing and optimal accuracy. The unique modular design allows easy on-site adjustment for installation, and remarkable accessibility for maintenance which enables minimal downtime. Furthermore, the checkweigher can be interfaced via a "DDE" server to many Windows® packages for integration into your management and control systems.

Note: Windows® is a trademark of Microsoft Corporation.



DACS-WN-003 with air-jet rejector



DACS-WN-012 with arm rejector



DACS-WN-020 with arm rejector

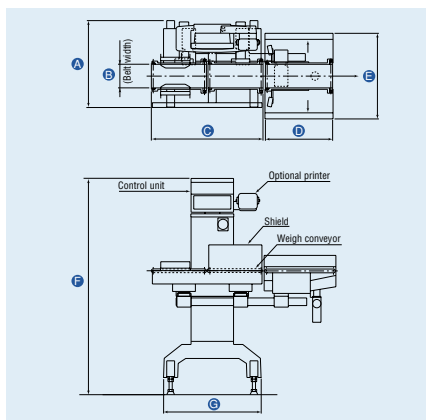


DACS-WN-050 with arm rejector

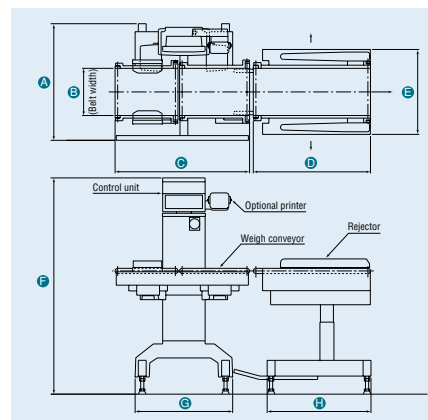


DACS-WN-180/300/500 with push-plate rejector

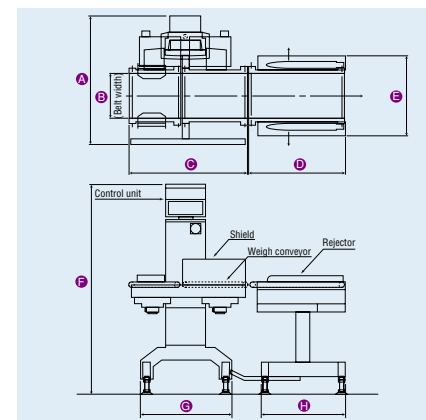
DACS-WN-003/012 + Air-jet Rejector



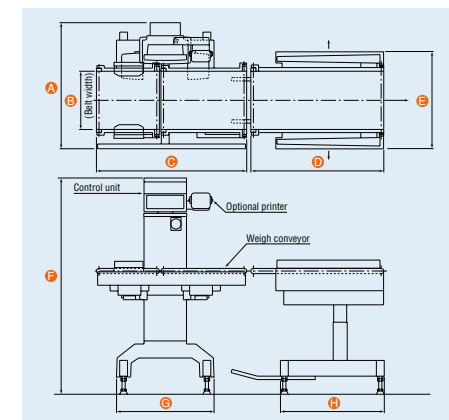
DACS-WN-003/012 + Arm Rejector



DACS-WN-020 + Arm Rejector



DACS-WN-030/050 + Arm Rejector



Specifications

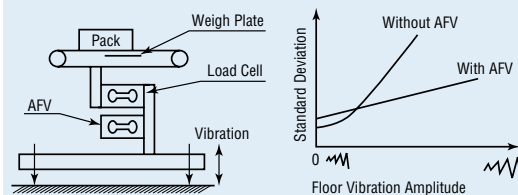
Model	DACS-WN-003-SB/PB(WP)		DACS-WN-012-SB/PB(WP)		DACS-WN-020-SB/PB(WP)
Weighing capacity	300g		1200g		2000g
Weighing range	3 ~ 300g		10 ~ 1200g		20 ~ 2000g
Weighing accuracy*	±0.2g (±0.7g)		±0.2g (±0.7g)		±0.4g (±1.4g)
Minimum graduation	0.1g		0.1g		0.2g
Weigh sensor	Double-beam load cells		Double-beam load cells		Double-beam load cells
Weighing speed*	250 times/min. (max.)	330 times/min. (max.)	210 times/min. (max.)	270 times/min. (max.)	210 times/min. (max.)
Weigh conveyor dimensions (mm)	450(L) x 165(W) (445(L) x 160(W))	350(L) x 165(W) (345(L) x 160(W))	450(L) x 245(W) (445(L) x 230(W))	350(L) x 245(W) (345(L) x 230(W))	445(L) x 330(W) (440(L) x 310(W))
Product dimensions Length (mm)	Length	60 ~ 410 (80 ~ 410)	60 ~ 420 (80 ~ 410)	60 ~ 320 (80 ~ 310)	80 ~ 400
	Width	30 ~ 150	30 ~ 220	30 ~ 220	30 ~ 300
	Height	10 ~ 130	10 ~ 130	10 ~ 130	10 ~ 140
Belt speed	18 ~ 116m/min. (18 ~ 117m/min.)		15 ~ 95m/min. (15 ~ 96m/min.)		15 ~ 96m/min.
Zero adjustment	During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key		During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key		During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key
Preset	Max. 100 items		Max. 100 items		Max. 100 items
Construction	IP-30 (IP-65)		IP-30 (IP-65)		IP-65
AFV	Standard		Standard		Standard
Main body weight	Approx. 65kg		Approx. 65kg		Approx. 80kg
Power supply	Single phase AC100V~240V, 50/60Hz		Single phase AC100V~240V, 50/60Hz		Single phase AC100V~240V, 50/60Hz
Dimensions (mm)	003(Air-jet)		012(Air-jet)		020(Arm)
	A 550	A 550	A 580	A 580	A 760(835)
	B 150	B 150	B 220	B 220	B 300
	C 710(705)	C 710(705)	C 810(805)	C 810(805)	C 955(990)
	D 450(445)	D 450(445)	D 450(445)	D 550(545)	D 745(740)
	E 550(540)	E 400(380)	E 620(610)	E 405(405)	E 540(515)
	F 1405±50	F 1405±50	F 1405±50	F 1405±50	F 1405±50
	G 620	G 620	G 620	G 620	G 620
	H 620	H 620	H 410	H 410	H 560

DACS-WN-030-SB/PB(WP)	DACS-WN-050-SB/PB(WP)	DACS-WN-180-SB/PB	DACS-WN-300-SB/PB
3000g	5000g	18000g	30000g
30 ~ 3000g	50 ~ 5000g	180 ~ 18000g	300 ~ 30000g
±1.0g (±2.0g)	±2.0g (±3.0g)	±2.0g	±10.0g
0.5g	1g	1g	5g
Double-beam load cells	Double-beam load cells	Double-beam load cells	Double-beam load cells
170 times/min. (max.)	210 times/min. (max.)	110 times/min. (max.)	130 times/min. (max.)
545(L) x 330(W) (540(L) x 310(W))	445(L) x 330(W) (440(L) x 310(W))	545(L) x 410(W) (540(L) x 380(W))	445(L) x 410(W) (440(L) x 380(W))
80 ~ 500 (110 ~ 490)	80 ~ 400 (110 ~ 390)	80 ~ 500 (110 ~ 490)	80 ~ 400 (110 ~ 390)
30 ~ 300	30 ~ 370	210 ~ 590	210 ~ 740
10 ~ 300	10 ~ 300	50 ~ 450	50 ~ 500
15 ~ 96m/min. (15 ~ 94m/min.)	15 ~ 60m/min.	10 ~ 55m/min.	10 ~ 40m/min.
During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key	During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key	During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key	During operation: Continuous automatic dynamic compensation** During standby: Manual compensation by touch key
Max. 100 items	Max. 100 items	Max. 100 items	Max. 100 items
IP-30 (IP-65)	IP-30 (IP-65)	IP-30	IP-30
Standard	Standard	Unavailable	Unavailable
Approx. 80kg	Approx. 80kg	Approx. 120kg	Approx. 130kg
Single phase AC100V~240V, 50/60Hz	Single phase AC100V~240V, 50/60Hz	Single phase AC200V~240V, 50/60Hz	Single phase AC200V~240V, 50/60Hz
030 (Arm)		050 (Arm)	
A 740 (800)	A 800	A 766	A 815
B 300	B 370	B 400	B 450
C 955 (990)	C 955 (990)	C 650	C 800
D 745 (740)	D 845	D 800	D 800
E 540 (515)	E 620	E 1135	E 1185
F 1405 ± 50	F 1370 ± 50	F 1370 ± 50	F 1370 ± 50
G 620	G 620	G 2270	G 2420
H 660	H 660	H 200	H 200
180 (Push-plate)		300 (Push-plate)	

*Depends on the product shape, installation environment and other conditions.

**Depends on weighing speed.

A major breakthrough in checkweigher accuracy, the AFV actually cancels out influence from external vibration. Stable and reliable weighing results are achieved even in a vibration-intensive factory environment.



The top drawing is a side elevation of the SCS 1000 system. It shows a conveyor layout with a central weighing section. Labels include:

- A**: Overall height of the system.
- B**: Height of the weighing section.
- C**: Height of the rejector section.
- D**: Height of the control unit section.
- E**: Height of the rejector section.
- F**: Height of the optional infeed conveyor.

 The bottom drawing is a top-down plan view of the SCS 1000 system. It shows the layout of the conveyor sections. Labels include:

- A**: Overall width of the system.
- B**: Width of the weighing section.
- C**: Width of the rejector section.
- D**: Width of the control unit section.
- E**: Width of the rejector section.
- F**: Width of the optional infeed conveyor.

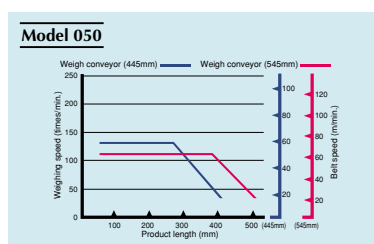
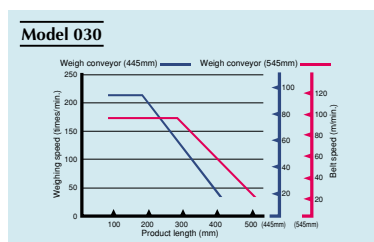
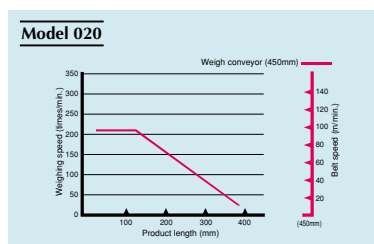
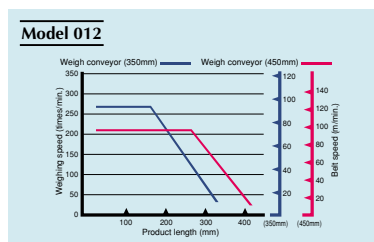
 Labels for components include:

- Weigh conveyor**: The central weighing section.
- Optional infeed conveyor**: The conveyor section on the left.
- Control unit**: The control unit on the right.
- Rejector**: The rejector section on the right.

DACS-WN-500-SB/PB	
	50000g
	500 ~ 50000g
	±10.0g
	5g
	Double-beam load cells
	18 times/min. (max.)
	1100(L) x 600(W)
	210 ~ 1040
	50 ~ 600
	50 ~ 500
	10 ~ 40m/min.
During operation:	Continuous automatic dynamic compensation**
During standby:	Manual compensation by touch key
	Max. 100 items
	IP-30
	Unavailable
	Approx. 140kg
Single phase	AC200V~240V, 50/60Hz
500 (Push-plate)	
	Ⓐ 915
	Ⓑ 550
	Ⓒ 1100
	Ⓓ 1100
	Ⓔ 1385
	Ⓕ 1370 ± 50
	Ⓖ 3320
	Ⓗ 200

Model 003

Product length (mm)	Weighing speed (t/rammin.)	Belt speed (mm/min.)
0	350	100
100	350	100
150	350	100
200	280	100
250	210	100
300	140	80
350	70	40
400	0	0
450	0	0



An easy-to-operate control unit with a large 256-by-64-dot display helps eliminate reading errors, while the interactive operation system makes presetting extremely simple. Data is clearly shown on the screen, and graphs and histograms are provided for easy understanding and enhanced production.



Control Unit with Optional Printer



Printout Example

- 5.0 g 60.0 g + 5.0 g
 No. 1 CHOCOLATE 59.4
 Proper

During operation the easy-to-read bar graph will continuously display current degree of variance from target weight.

```

57.7      REFS      MT:      60.5
58.7      PROPER COUNT: 28
59.7      OVER COUNT: 27
60.7      UNDER COUNT: 12
61.7      TOTAL COUNT: 67
62.7      TOTAL MT: 4.1
63.7      MUSH MT: 51.1
64.7      SLOWDOWN D: 1.169

```

The number of over, under, proper and total batch weighments, as well as reference, mean, and standard deviation data, can be displayed in an easy-to-read histogram format.

[Span Adjustment] - 0.0 g
Weight: 1 kg
Place weight on weigh conveyor
then press [ENTER] key.

The easy-to-follow conversational menus guide the operator through necessary set-up and operational procedures.

```

[Preset Number] 1
0: 60.0 JELLY BEAN 4: 70.0 LICORICE
1: 64.0 CHOCOLATE 5: 100.0 PAW
2: 70.0 CANDY 6: 100.0 NUTS
3: 148.0 SUNDROPS 7: 100.0 FLUGE
Press [SELECT ITEM] key to set

```

Up to 50 sets of preset product parameters can be stored for instant retrieval. This facilitates rapid product start-up and changeover, and ensures accurate and consistent weight checking.

67 pc

The current weight and total count values can be displayed in an enlarged format for easy monitoring.

```

[Level 1&2 Passwords Setting
+Level 1 Password Setting
+ Level 2 Password Setting

```

Operational functions are divided into 3 levels: Operator, Supervisor and Installation Engineer. Passwords for non-operator levels are programmable on site.

```
[Left Rejector Error]
Press [EXIT] key.
```

An alarm sounds and the diagnostic message is instantly displayed for easy troubleshooting of operational problems.

X-bar Chart

Sample	Mean
1	60.40
2	60.20
3	61.60
4	60.80
5	61.20
6	60.00

To evaluate weighing trends during operation, the average for each ten weighments is displayed.