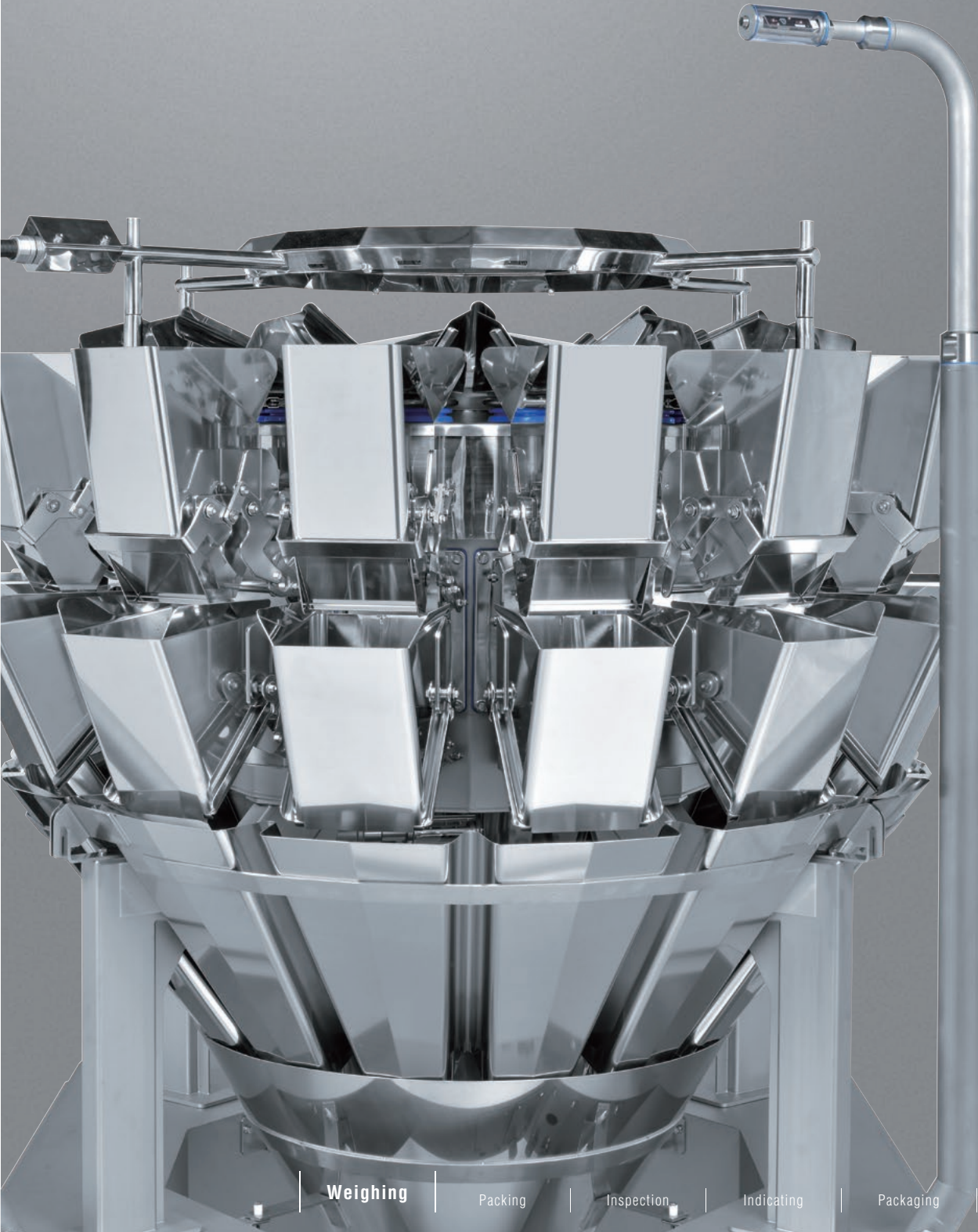




Multihead Weigher

# CCW-AS



Weighing

Packing

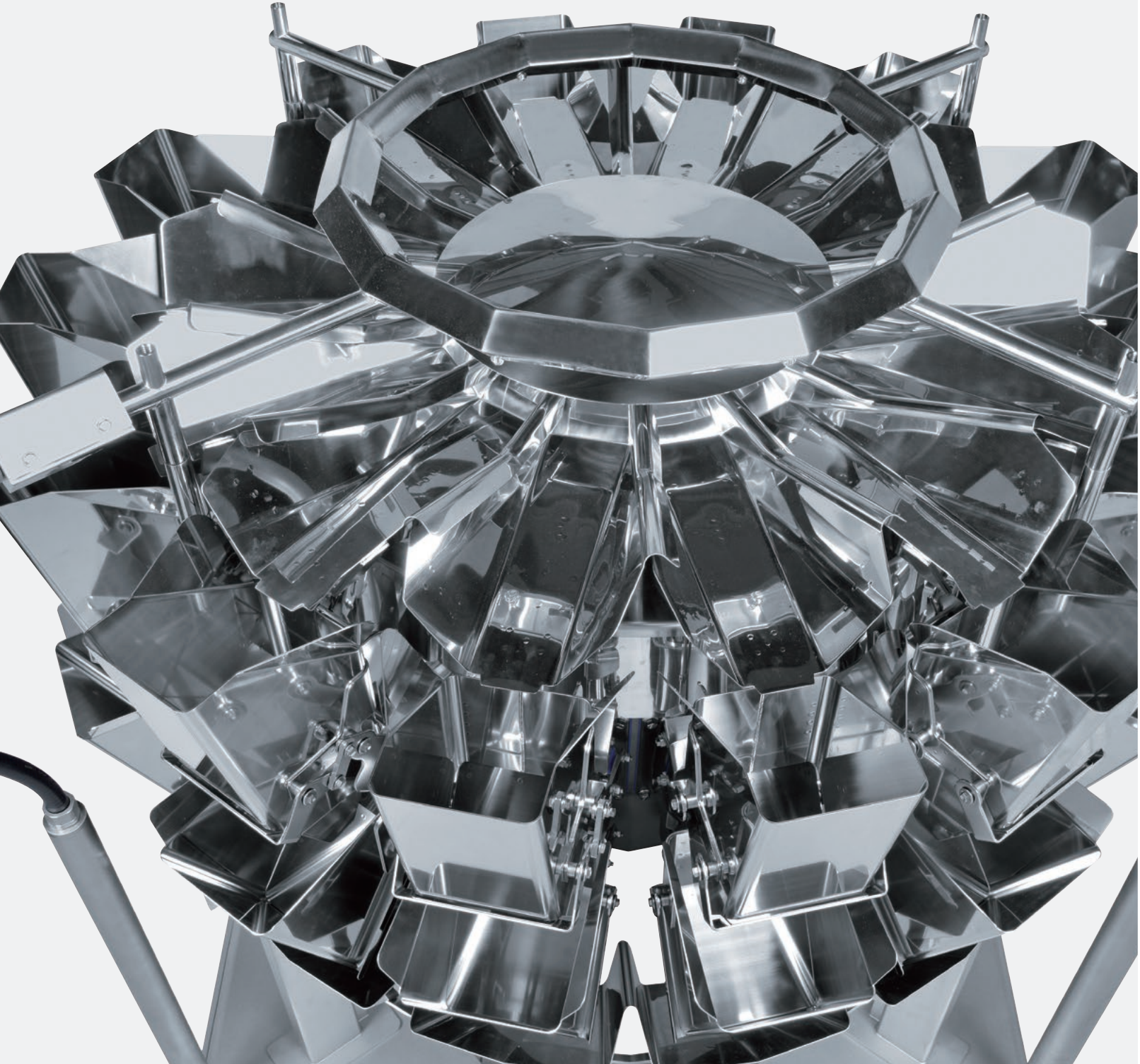
Inspection

Indicating

Packaging

Unequaled productivity provides solutions to workforce shortages

**CCW-AS**



## Based on more than 50 years of combination weighing know-how, additional functions to improve productivity

The CCW-AS multihead weigher increases overall equipment effectiveness and reduces workload through line automation.

Ishida continues to evolve as a market leader in multihead weighing, contributing to sustainable objectives and a diverse range of weighing solutions that use the latest weighing technology.

CCW-AS opens a new era for multihead weighing.



### Advanced productivity

The fully redesigned electrical platform achieves higher accuracy and efficiency. New features include optical charge control (OCC), automatic adjustment of hopper open/close interval, and XRF-7 to enhance product feeding and maximize production output.

### Advanced operation

A redesigned drive unit improves sanitation and allows faster cleaning. Multiple cameras are mounted on the CCW to verify the machine status. It contributes to minimize workload for machine adjustment.

### Advanced HMI

A 15.6" color LCD touch panel improves visibility and operability. The HMI is unified with other Ishida equipments for easy integration.

### Advanced ecological model

New motor drive control reduces power consumption and contributes to reduced environmental impact. The redesigned feed drive control minimizes noise.

# Advanced productivity

## New feeder (XRF-7) for optimum feeding

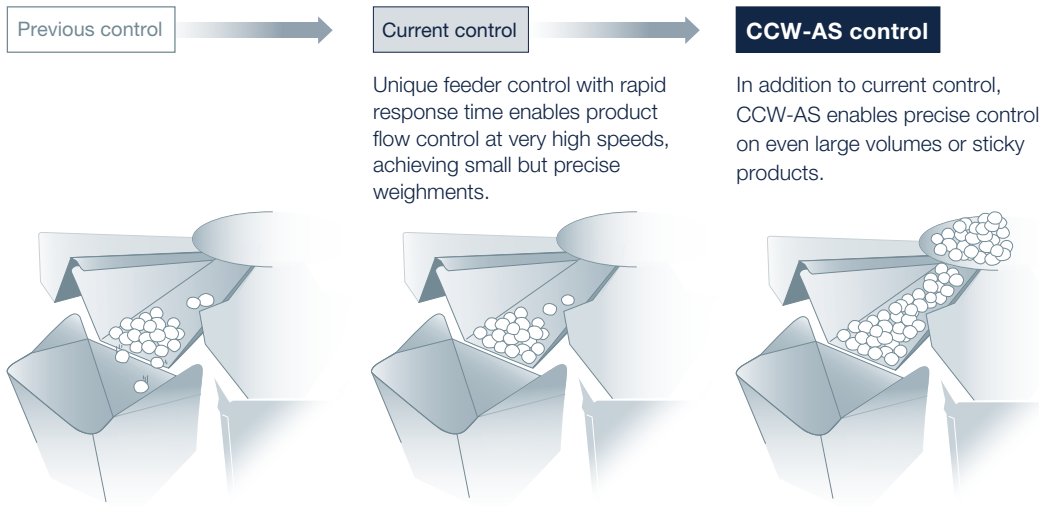
Radial feeders are essential in combination weighing to feed product to pool and weigh hoppers. The newly developed XRF-7 radial feeder has more conveying power for large volumes and sticky products than conventional feeders. By increasing the responsiveness of the feeders, the optimum quantity of product can be delivered to each weigh hopper, resulting in higher efficiency rates with more hoppers available for the combination.

Higher feeding capacity

Increased efficiency

## Increased feeding ability while maintaining high conveying accuracy

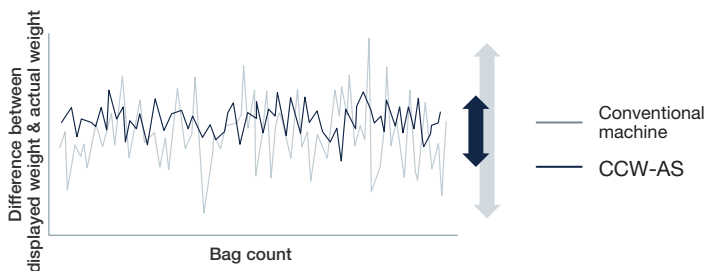
### Feeder response image



## Best yield

New circuit board advances resolution and improves accuracy.

Increase weighing yield



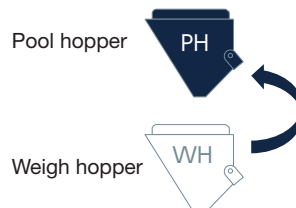
Minimum differences between displayed and actual weight with high weighing accuracy

## Automatic adjustment of hopper open/close intervals

CCW-AS utilizes mass data and automatically adjusts the movement timing between hoppers. Even unskilled operators can adjust hopper open/close interval timing with high precision and high operating rates.

Quick automatic optimization

Increased efficiency

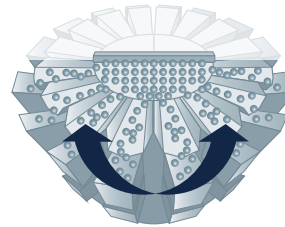


Automatically optimizes hopper open/close intervals to improve production efficiency.

## Multi-directional dispersion feeder for stable feeding Option

Product feeding condition on dispersion table is censored and maintained so stable amount of product flows to each trough.

Increased efficiency



Full control of product amount to each trough

Uneven product feeding



Direction of transport

Even product feeding



Direction of transport

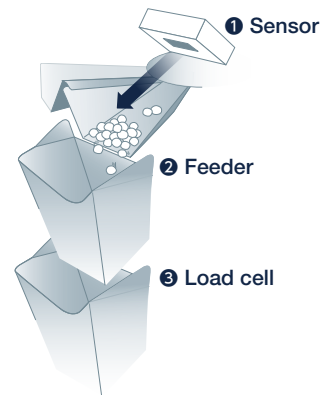
## Optical charge control (OCC) for long production Option

High efficiency is achieved in any type of product feature and feeding condition from upstream line.

Sensor monitors the product layer on the trough, and feeder drive vibrates to transfer the appropriate amount of product to each hopper.

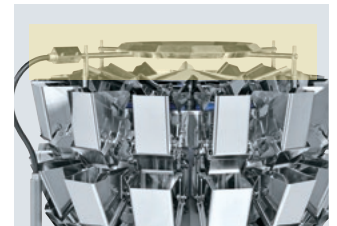
- ① Sensors monitor product layer thickness and indicate an amplitude to feeder for appropriate product volume to hoppers to make target weight. The formula is based on product layer thickness, vibration intensity, and feeding volume.
- ② Feeder vibrates at an indicated intensity.
- ③ Machine learning with feedback of the actual feed quantity supplied to the ① sensor control unit.

Machine learning of feeding volume results



Maintaining best efficiency

Flexible production



## Advanced operation

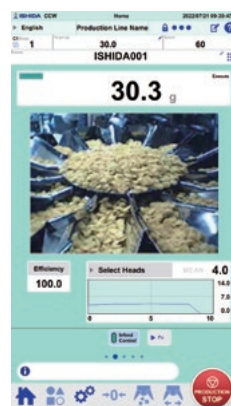
### Easy adjustment by camera monitoring Option

Multiple cameras monitor product condition simultaneously to enhance and to drive increased production efficiency. Live camera footage can be viewed from the operator screen or remotely via an external network.

Save operator's workload



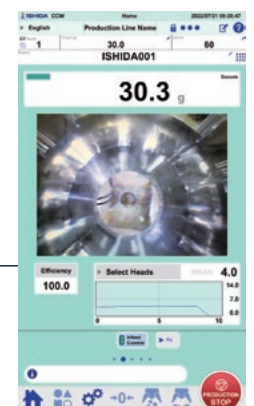
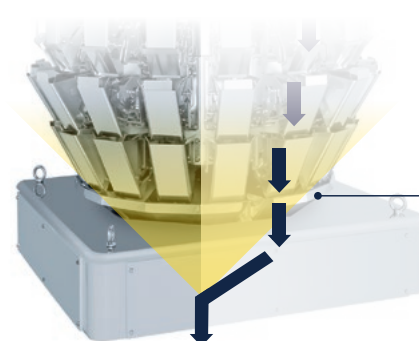
Dispersion camera



### Verify product discharge timing Option

A camera installed in the discharge chute enables constant monitoring of product condition or deposits on the HMI and guides operators to optimize timing setting. Operators can check and adjust production status on the HMI screen.

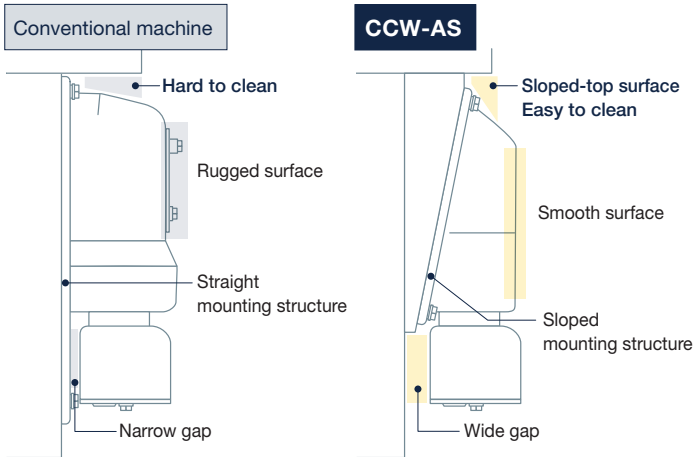
Minimize operator's workload



## New easy to clean and hygienically designed drive unit

Even after long hours of production, product debris does not stay on drive unit. Smooth surface and wider gap make cleaning easier and improved cleanability ensures hygienic use.

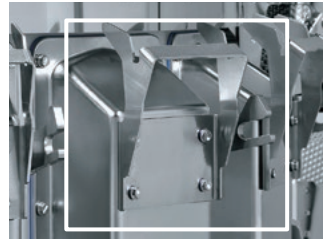
### Faster cleaning time



## Easily removable hoppers

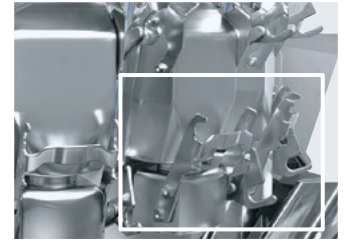
The hopper's new design makes them easily detachable. The mounting position is clearly identified to guide operators for correct remounting. This minimizes the weighing error as well as the risk of damaging products due to incorrect remounting.

### User friendly design



#### Pool hopper hanger

The new hopper hanger design prevents incorrect remounting.



#### Weigh hopper hanger

A new stay bar smooths detaching.

## Advanced HMI

### User friendly operation by smartphone-like HMI

Smartphone-like interface with intuitive graphical icons enable easy operation for anyone.

#### Intuitive operability

#### Reduced human error



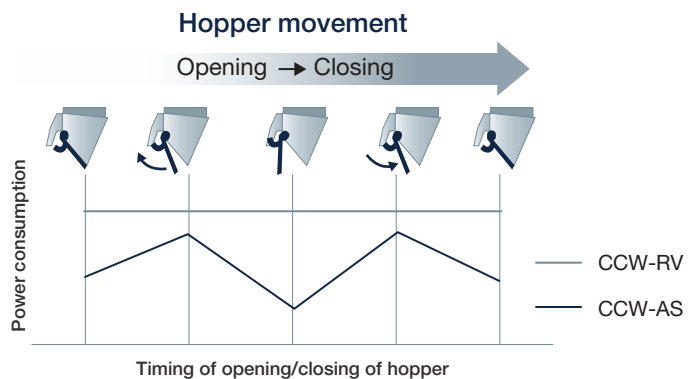
## Advanced ecological model

### Save energy and reduce the running cost

The CCW-AS uses 20% less power than the CCW-RV due to new hopper motor drive programming.

### Noiseless feeder drive (-16.5 dB compared with CCW-RV)

New feeder (XRF-7) improves working environment by reducing noise of feeder drive.



# Multihead Weigher

Weighing range : medium capacity type



Dynamic type



Dustproof construction\*5  
SS type



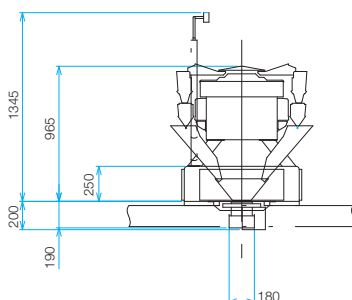
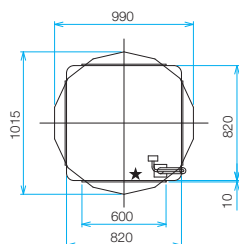
Waterproof construction\*5\*6  
WP type

**CCW-AS-214W-\*/15 -SS/WP**  
**CCW-AS-214W-\*/20 -SS/WP**  
**CCW-AS-214W-\*/30 -SS/WP**

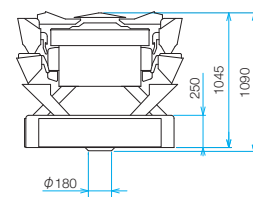
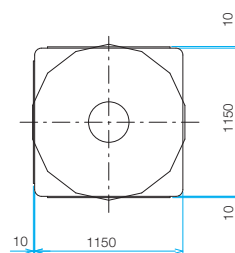
	CCW-AS-214W-*/15-SS CCW-AS-214W-*/15-WP	CCW-AS-214W-*/20-SS CCW-AS-214W-*/20-WP	CCW-AS-214W-*/30-SS CCW-AS-214W-*/30-WP
Weighing range	15-500g / 45-1000g		
Weighing volume (MAX)*1	<b>15:</b> 2500cc	<b>20:</b> 3000cc	<b>30:</b> 4500cc
Weighing speed (MAX)*2	210wpm		180wpm

## Dimensions (Unit: mm)

CCW-AS-214W-\*/15 -SS/WP



CCW-AS-214W-\*/20 -SS/WP  
CCW-AS-214W-\*/30 -SS/WP



These dimensions show standard model

## Standard specification

Model	CCW-AS-214W-□/◇/□ (□=Number of discharge ◇=Hopper capacity □=Environment-resistance)		
	CCW-AS-214W-*/15-SS CCW-AS-214W-*/15-WP	CCW-AS-214W-*/20-SS CCW-AS-214W-*/20-WP	CCW-AS-214W-*/30-SS CCW-AS-214W-*/30-WP
<b>Performance</b>			
Weighing range	15-500g / 45-1000g		
Weighing volume (MAX)*1	<b>15:</b> 2500cc <b>20:</b> 3000cc <b>30:</b> 4500cc		
Weighing speed (MAX)*2	210wpm		180wpm
Weighing accuracy*2*3	0.5-1.0g (400g) / 1.0-2.0g (800g)		
Maximum weighing per head*3	400g / 800g		
Minimum graduation*3	0.1g / 0.2g		
Hopper capacity	<b>15:</b> 1500cc <b>20:</b> 2000cc <b>30:</b> 3000cc		
Display	15.6" sized color LCD touch panel		
Number of presets	500 items		
<b>Specification</b>			
Power supply*4	1-phase AC200-240V 1.1kVA (5.4A in case of AC200V) 50/60Hz or 1-phase AC380V/400V/415V/460V/480V 1.1kVA (2.9A in case of AC380V) 50/60Hz		
Air consumption (only for WP)	110ℓ/min (ANR) 0.02Mpa		
Machine material	Stainless steel		
Ingress protection	<b>SS:</b> IP 50*5 <b>WP:</b> IP69K*5*6		
Operational environment	Temperature	0-40°C	
	Humidity	35-85%RH (without condensation)	
	Elevation*7	Lower than 2000 meters above sea level	
Machine weight	Approx. 400kg		Approx. 550kg

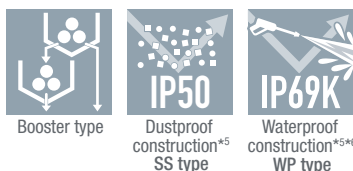
\*1) Max weighing range per discharge \*2) Depends on product shape, product density, target weight, etc. \*3) Depends on weighing range

\*4) Voltage fluctuation: within ±10% Power consumption depends on weighing conditions, please contact us for more details \*5) Based on internal test results

\*6) Protection against high-pressure washing is evaluated at the time the product is shipped; aging evaluation is not included \*7) Please contact us if the elevation of the installation site exceeds 2000m

## Multihead Weigher

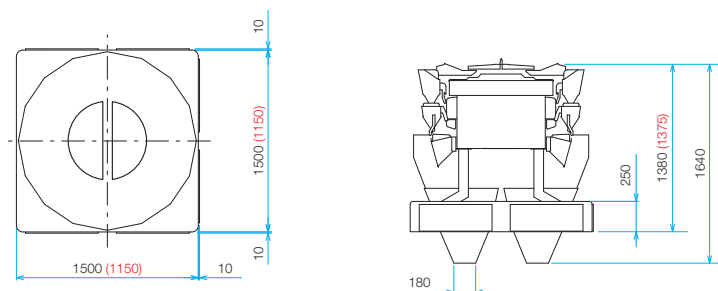
Weighing range : medium capacity type



**CCW-AS-216B-\*/15 -SS/WP**  
**CCW-AS-216B-\*/20 -SS/WP**  
**CCW-AS-216B-\*/30 -SS/WP**

	CCW-AS-216B-*/15-SS CCW-AS-216B-*/15-WP	CCW-AS-216B-*/20-SS CCW-AS-216B-*/20-WP	CCW-AS-216B-*/30-SS CCW-AS-216B-*/30-WP
Weighing range	15-500g / 45-1000g		
Weighing volume (MAX) <sup>*1</sup>	<b>15:</b> 2500cc	<b>20:</b> 3000cc	<b>30:</b> 4500cc
Weighing speed (MAX) <sup>*2</sup>	120wpm x 2		110wpm x 2

### Dimensions (Unit: mm)



\* Dimensions in red are for 15 size.

These dimensions show standard model

### Standard specification

Model	CCW-AS-216B-■/◇/□ (■=Number of discharge ◇=Hopper capacity □=Environment-resistance)		
	CCW-AS-216B-*/15-SS CCW-AS-216B-*/15-WP	CCW-AS-216B-*/20-SS CCW-AS-216B-*/20-WP	CCW-AS-216B-*/30-SS CCW-AS-216B-*/30-WP
<b>Performance</b>			
Weighing range	15-500g / 45-1000g		
Weighing volume (MAX) <sup>*1</sup>	<b>15:</b> 2500cc <b>20:</b> 3000cc <b>30:</b> 4500cc		
Weighing speed (MAX) <sup>*2</sup>	120wpm x 2		110wpm x 2
Weighing accuracy <sup>*2*3</sup>	0.5-1.0g (400g) / 1.0-2.0g (800g)		
Maximum weighing per head <sup>*3</sup>	400g / 800g		
Minimum graduation <sup>*3</sup>	0.1g / 0.2g		
Hopper capacity	<b>15:</b> 1500cc <b>20:</b> 2000cc <b>30:</b> 3000cc		
Display	15.6" sized color LCD touch panel		
Number of presets	500 items		
<b>Specification</b>			
Power supply <sup>*4</sup>	1-phase AC200-240V 1.4kVA (6.7A in case of AC200V) 50/60Hz or 1-phase AC380V/400V/415V/460V/480V 1.4kVA (3.6A in case of AC380V) 50/60Hz		
Air consumption (only for WP)	110ℓ/min (ANR) 0.02Mpa		
Machine material	Stainless steel		
Ingress protection	<b>SS:</b> IP 50 <sup>*5</sup> <b>WP:</b> IP69K <sup>*5*6</sup>		
Operational environment	Temperature	0—40°C	
	Humidity	35—85%RH (without condensation)	
	Elevation <sup>*7</sup>	Lower than 2000 meters above sea level	
Machine weight	Approx. 700kg		Approx. 750kg

\*1) Max weighing range per discharge \*2) Depends on product shape, product density, target weight, etc. \*3) Depends on weighing range

\*4) Voltage fluctuation: within ±10% Power consumption depends on weighing conditions, please contact us for more details \*5) Based on internal test results

\*6) Protection against high-pressure washing is evaluated at the time the product is shipped; aging evaluation is not included \*7) Please contact us if the elevation of the installation site exceeds 2000m



# Multihead Weigher

Weighing range : medium capacity type



Dynamic booster type



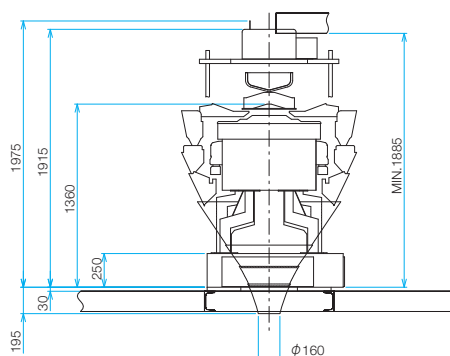
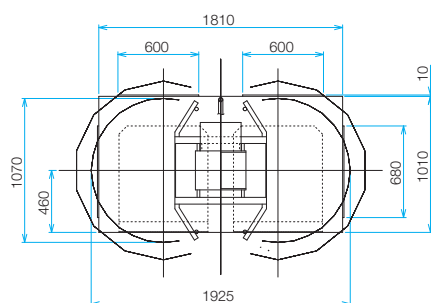
Dustproof construction\*5  
SS type

Oval type

**CCW-AS-218WB-\*\*/20-SS-OVL**  
**CCW-AS-218WB-\*\*/30-SS-OVL**

	CCW-AS-218WB-**/20-SS-OVL	CCW-AS-218WB-**/30-SS-OVL
Weighing range	15-500g / 45-1000g	
Weighing volume (MAX)*1	<b>20:</b> 3000cc	<b>30:</b> 4500cc
Weighing speed (MAX)*2	140wpm x 2	120wpm x 2

## Dimensions (Unit: mm)



These dimensions show standard model

## Standard specification

Model	CCW-AS-218WB- <span style="border: 1px solid black; padding: 0 2px;"> </span> / <span style="border: 1px solid black; padding: 0 2px;"> </span> -OVL ( <span style="border: 1px solid black; padding: 0 2px;"> </span> =Number of discharge <span style="border: 1px solid black; padding: 0 2px;"> </span> =Hopper capacity <span style="border: 1px solid black; padding: 0 2px;"> </span> =Environment-resistance)	
	CCW-AS-218WB-**/20-SS-OVL	CCW-AS-218WB-**/30-SS-OVL
<b>Performance</b>		
Weighing range	15-500g / 45-1000g	
Weighing volume (MAX)*1	<b>20:</b> 3000cc	<b>30:</b> 4500cc
Weighing speed (MAX)*2	140wpm x 2	120wpm x 2
Weighing accuracy*2*3	0.5-1.0g (400g) / 1.0-2.0g (800g)	
Maximum weighing per head*3	400g / 800g	
Minimum graduation*3	0.1g / 0.2g	
Hopper capacity	<b>20:</b> 2000cc	<b>30:</b> 3000cc
Display	15.6" sized color LCD touch panel	
Number of presets	500 items	
<b>Specification</b>		
Power supply*4	1-phase AC200-240V1.4kVA (7.0A in case of AC200V) 50/60Hz or 1-phase AC380V/400V/415V/460V/480V 1.4kVA (3.6A in case of AC380V) 50/60Hz	
Air consumption (only for WP)	125ℓ/min (ANR) 0.02Mpa	
Machine material	Stainless steel	
Ingress protection	IP 50*5	
Operational environment	Temperature	0—40°C
	Humidity	35—85%RH (without condensation)
	Elevation*6	Lower than 2000 meters above sea level
Machine weight	Approx. 950kg	

\*1) Max weighing range per discharge \*2) Depends on product shape, product density, target weight, etc. \*3) Depends on weighing range

\*4) Voltage fluctuation: within ±10% Power consumption depends on weighing conditions, please contact us for more details

\*5) Based on internal test results \*6) Please contact us if the elevation of the installation site exceeds 2000m

The information in this catalog is current as of February 10, 2023.  
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The machine color in this catalog may differ from the actual machine.  
The machine appearance and specifications described in this catalog are subject to change without any notification.



**ISHIDA CO., LTD.** [www.ishida.com](http://www.ishida.com)

44 Shogoin Sannocho, Sakyo-ku,  
Kyoto, 606-8392, Japan  
Tel: +81 (0)75 751 1618 Fax: +81 (0)75 751 1634



**HEAT AND CONTROL, INC.** [www.heatandcontrol.com](http://www.heatandcontrol.com)

21121 CABOT BLVD. HAYWARD, CA 94545-1132 USA  
Phone : 1(800)227-5980 1(510)259-0500 Facsimile :1(510)259-0600  
info@heatandcontrol.com