

# Yamato

## Dataweigh

**$\alpha$ <sup>PLUS</sup> ALPHA PLUS series**

*Versatile and Cost-Effective*



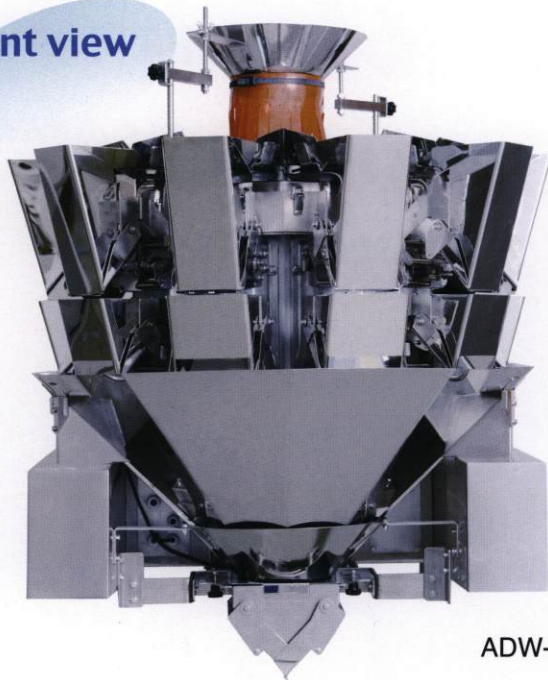


# Simple design and superb operation

## High Performance Weighing Accuracy

The Yamato Alpha Plus Series weighers achieve the high accuracy by combining Yamato's proprietary Strain Gauge Load Cells with Yamato's patented Digital Filtering that virtually eliminates the influence of external vibration.

Front view



Rear view



ADW-510ACC

Stainless steel common bed and collection bucket are optional.

Common bed of the ADW-510ACC is designed for easy maintenance to adjust the packaging system.

## Flexibility, High Speed, Economical

The Yamato Alpha Plus Series weighers are available in three configurations: 10 head for speed up to 70 weightment per minute, 14 head for 120 weightment per minute, and 20 head for twin applications.

Each represents an excellent combination of value and performance.

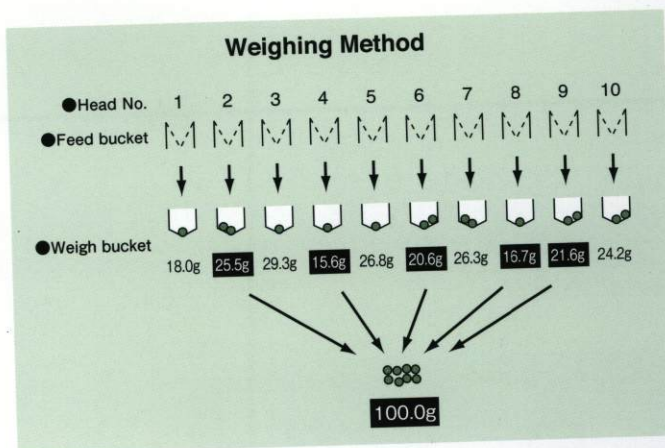




## Weighing Method

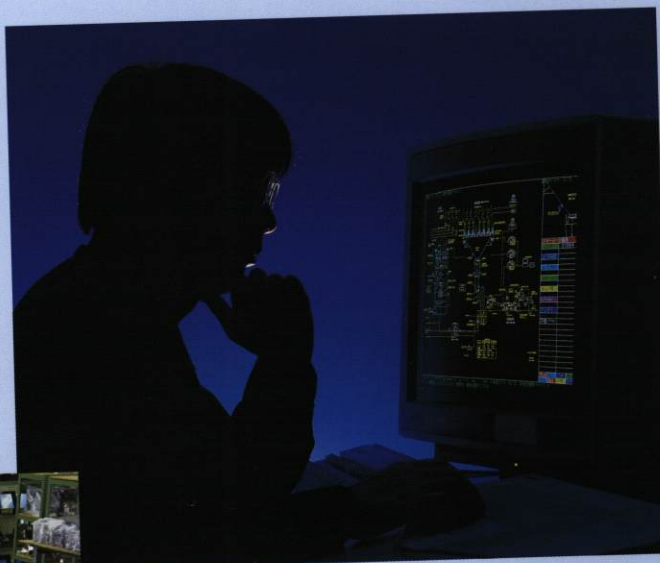
Using Strain Gauge Load Cells, the computer examines the weight in each weigh bucket. From those weights, the optimal combination to obtain the target weight is instantaneously selected and discharged. If a combination of 5 weigh buckets is selected out of 10 the number of possible combinations is 252.

In the same way, if 4 out of 10, or 6 out of 10 are selected there are 210 possible combinations. The total available number of possible combinations then becomes 672 for each cycle.



## Yamato Profile

Since 1922, Yamato has specialized in the science and application of load cells and weighing machines. Among our extensive range of applications is the Dataweigh family of multihead combination weighers which Yamato introduced more than 3 decades ago. In all aspects of providing our customers with superior products - R & D, Design, Production Quality Assurance and shipping - Yamato offers the best quality, support and service through our Global Yamato Network and all of our distributors. Yamato is ISO9001 certified.



Research and Development



Dataweigh Final Assembly

## Worldwide Sales & Service Network





## Easy Operation

The color touch screen uses intuitive graphics to make operation, troubleshooting, and recovery easy to learn and simple to use.



## Color Touch Screen Operator Interface

Liquid Crystal Color Touch Screen uses easy-to-understand graphics in a simple and straightforward way to make training quick and operation easy. And, the display can be viewed in any of 16 languages: English, German, French, Spanish, Italian, Dutch, Danish, Finnish, Swedish, Hungarian, Czech, Polish, Russian, Slovene, Chinese and Japanese.

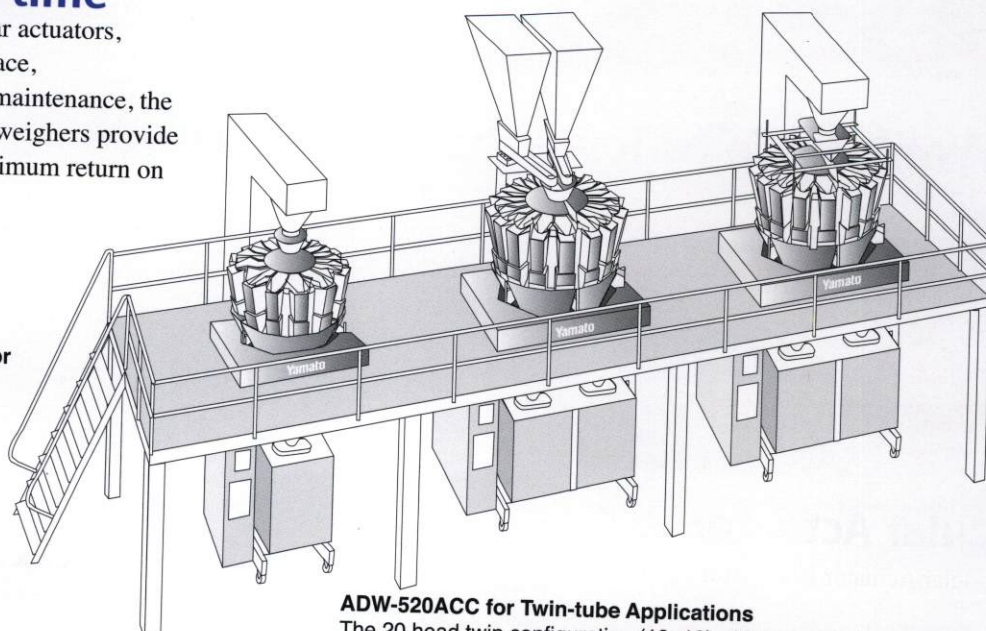
## Self-diagnostics

All important system conditions, including voltages, input/output status, software versions, and analog/digital converter values can be monitored and diagnosed through the color touch screen operator interface.

## Maximum Up-time

Through the use of modular actuators, easy-to-use operator interface, self-diagnostics, and easy maintenance, the Yamato Alpha Plus Series weighers provide maximum up-time for maximum return on investment.

**ADW-514ACC / 514AHCC for Single Tube Applications**  
Deck Mount (leg mount also available)



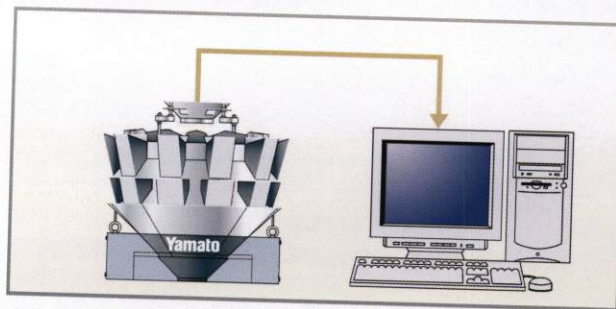
## Weigh Sensor

The load cell level sensor under the top cone controls the product flow from the feeding system ensuring proper feed conditions to maximize efficiency and accuracy. The color touch screen displays the amount of product on the top cone.

## Digital Filter

Yamato's Patented Digital filter reduces the influence of external vibration resulting in highly accurate weighments.

## Communication to PC through RS232C (Option)



Dataweigh Alpha Series

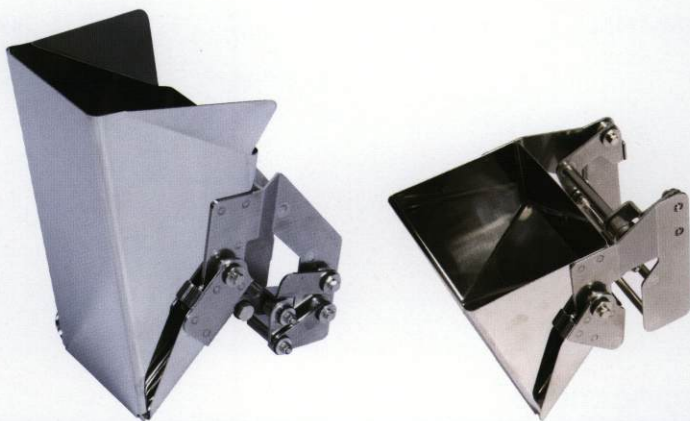
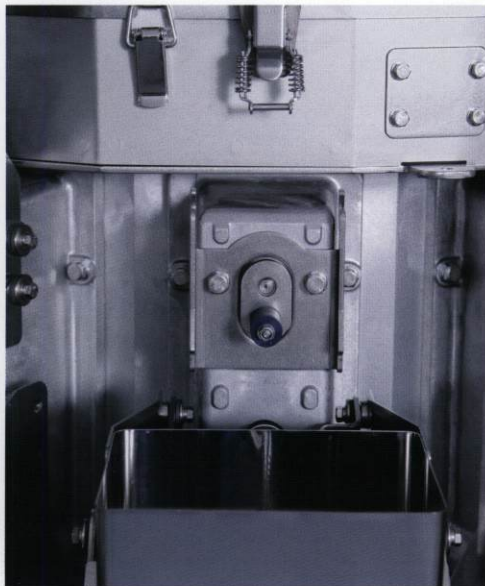
## ADW-520ACC for Twin-tube Applications

The 20 head twin configuration (10+10) with two controllers provides great flexibility. Each side can run the same product into each side of a twin-tube bagger, different products into each side of a twin-tube bagger or even two product blends into one single-tube bagger.



## Excellent Sanitation

All operating systems, including the radial feeders, are totally enclosed to provide superior sanitation. And, Linear Feeder Pan, Buckets, collating chute and Funnel are removable without the use of tools.

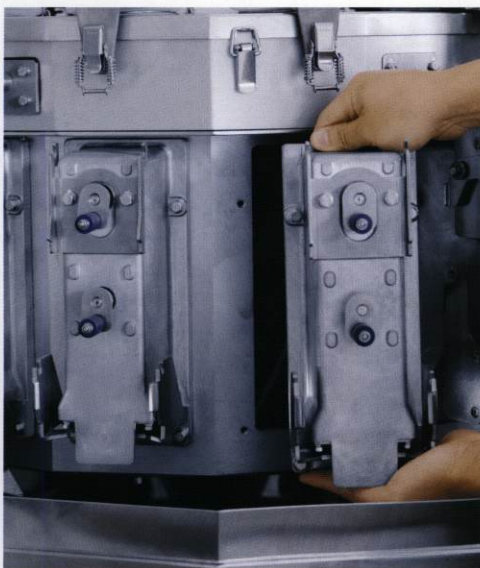


## Radius Corner and Springless Bucket

The springless buckets design with large radius corners makes it easy and quick to clean, reducing downtime.

## Drive System

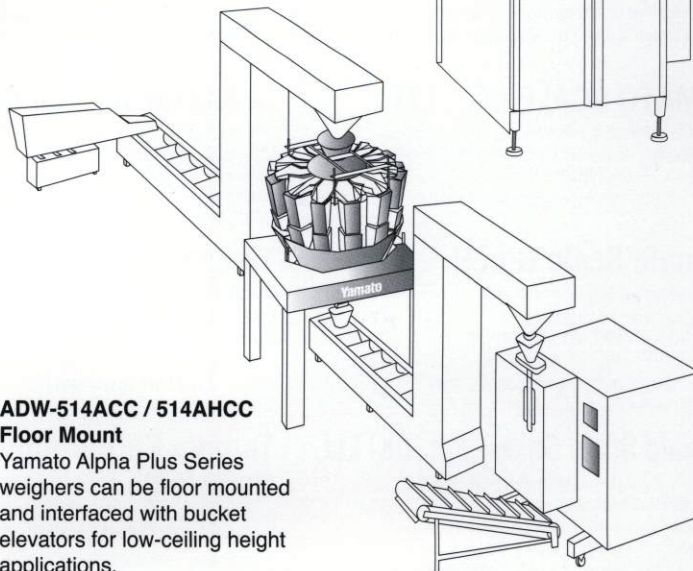
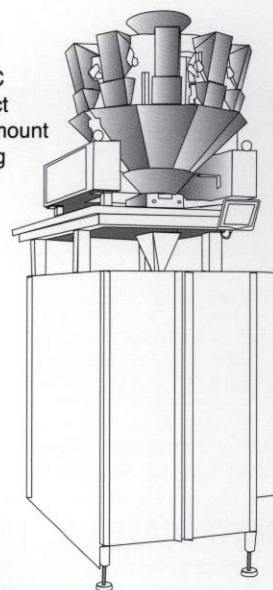
The Alpha Plus Series weighers use accurate and repeatable stepper motors for bucket door actuation. Motor patterns are adjustable and programmable to ensure the highest speed and efficiency for a wide variety of products.



## Modular Actuator Unit

The modular Actuator Unit incorporates the high-performance Yamato Strain Gauge Load Cell with the stepper motor driven system. This modular design makes troubleshooting and maintenance easy and quick.

The ADW-510ACC weigher is compact enough to Direct-mount onto the packaging machine.

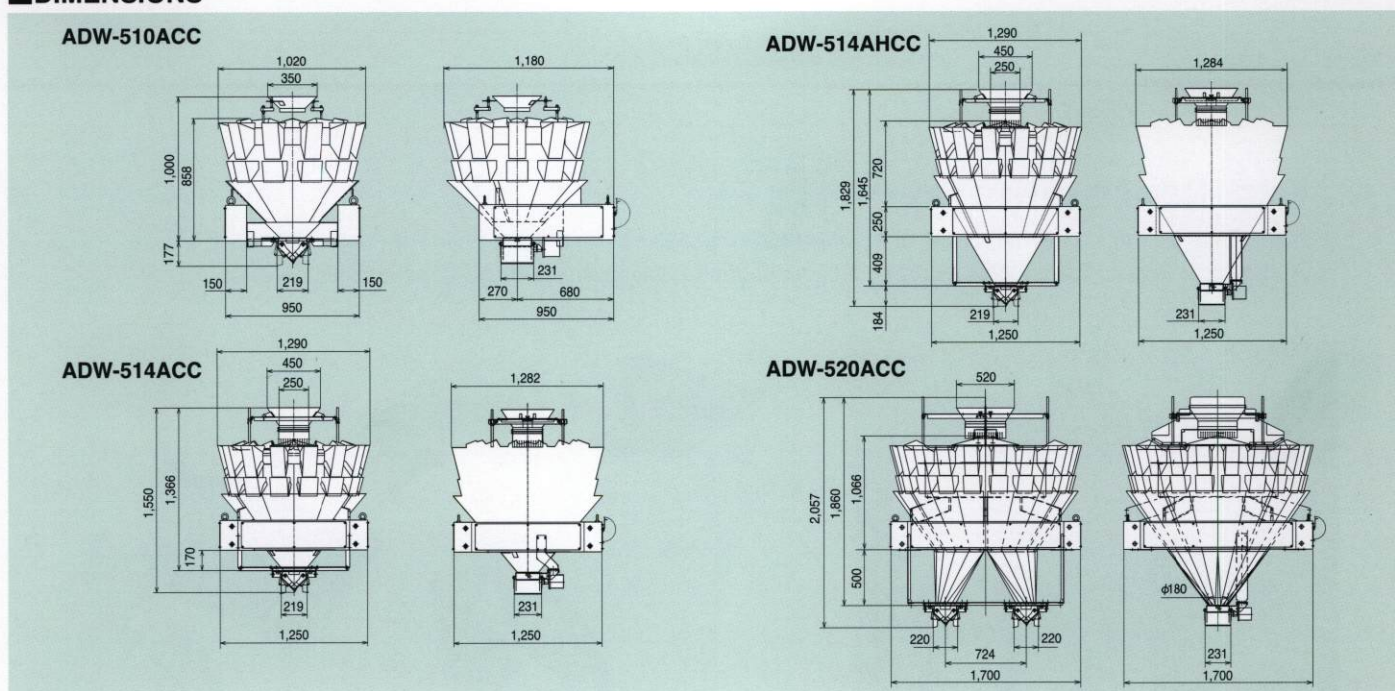


### ADW-514ACC / 514AHCC Floor Mount

Yamato Alpha Plus Series weighers can be floor mounted and interfaced with bucket elevators for low-ceiling height applications.



## DIMENSIONS



Collection bucket is optional.

## SPECIFICATIONS

MODEL	ADW-510ACC	ADW-514ACC	ADW-514AHCC	ADW-520ACC
Number of Weigh Head	10	14	14	20
Max. Speed	70 wpm	120 wpm	140 wpm	2 × 70 wpm
Max. Combination Volume	3,000 ml			
Weighing Range	4 ~ 500 g / 8 ~ 1,000 g			
Min. Increment digit	0.1 g / 0.2 g			
Max. Product's Length	80 mm			
Main Dimensions (W)×(D)×(H) (※Without Collection Bucket)	1,020 × 1,180 × 1,000 mm	1,290 × 1,282 × 1,366 mm	1,290 × 1,284 × 1,645 mm	1,700 × 1,700 × 1,860 mm
Controller	RCU-901C color, Liquid Crystal Touch Screen			
Hopper Actuator	Stepper Motor driven			
Power requirement	AC200/ 220/ 240V (+10 to -15%), 50/ 60 Hz, 1.0 ~ 3.0 kVA, 1 phase			
Air requirement	Not required.			
Standard Accessory	Infeed Funnel	Infeed Funnel	Infeed Funnel	Infeed Funnel
Net Weight	350 kg	400 kg	450 kg	700 kg

This machine is covered by a number of patents worldwide.

All illustrations and specifications are subject to change without notice and any drawing dimensions are not to scale and are approximate.

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