Yamato



Dataweigh™ α Advance™

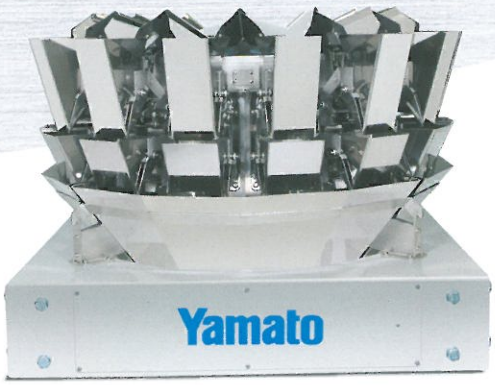
DATAWEIGH ALPHA ADVANCE

INNOVATION IN MOTION

Smart, Tough and Accurate

The new Alpha Advance series has raised the bar for industry standards. Operation has progressed to a more simple design, yet it is strong enough to withstand heavier loads. Product giveaway is dramatically reduced by increasing accuracy to unsurpassed levels.

The Alpha Advance series delivers high-speed weighing of 75wpm by the 10-head model and 140wpm by 14-head model.



＊Stainless steel common bed is optional

Improving productivity

- High frequency load cell shortens the settle time of the weighing cycle and enables high-speed weighing.
- Yamato AFC system (Auto feeder control system) ensures optimal feeding and greatly improves the accuracy and productivity.
- Improved feeder amplitude, ability to handle sticky or fragile products.

Environmental responsiveness

- RoHS compliance

Ease of maintenance

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



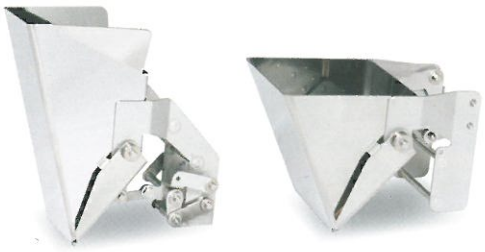


- Buckets and linear feeder pans can be removed and attached easily without tools.
- Load cells can withstand up to 150kg load, and rigid buckets improves maintenance and cleaning works. (3,000ml and 4,500ml model)

Food Safety

Radius Corner and Springless Bucket

- Large radius corners make it easy and quick to clean, reducing downtime. Hygienic springless buckets are available depending on usage. (3L model)



Hygienic structure of main body

The modular Actuator Units are fully covered by stainless steel plates for excellent sanitation. (3L and 4.5L model)



Easy Operation

Color Touch Screen Operator Interface

- 10.4 inch color touch screen
- User-friendly icons enable easy operation.
- Up to 100 pre-set programs can be memorized.





USB Memory port



- Data acquisition
- Program update

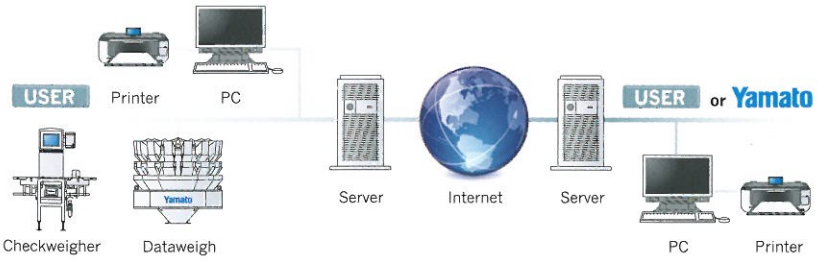
Self-diagnostics

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

Network Remote Control and Data Acquisition

Network connection capabilities (optional)

- PC remote control by LAN
- Data acquisition via USB, Ethernet
- Feed back control between checkweigher and multihead weigher



Production control function

Enter the number of packs required for a certain recipe and once the production batch reaches this number, the scale recipe can be automatically changed to the next one.

Standard



Wide variety of weighing application

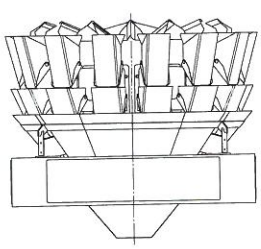


Dataweigh Alpha Advance series model

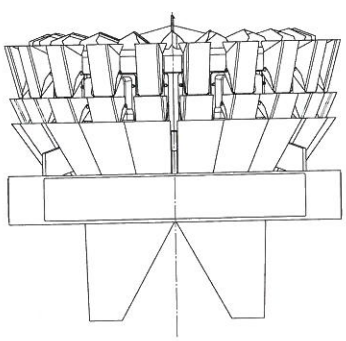
Model	ADW-A-0310S	ADW-A-0310SL	ADW-A-0314S	ADW-A-0314SL	ADW-A-0314F	ADW-A-0320S
Number of Weigh Head	10		14		14	20
Max.Speed	75wpm	60wpm	140wpm	120wpm	140wpm	2x75wpm
Max.Combination Volume	3,000ml	4,500ml	3,000ml	4,500ml	3,000ml	
Weighing Range	8~1,000g					
Min.Increment digit	0.1g					
Max.Product's Length	80mm	120mm	80mm	120mm	80mm	
Main Dimensions(W)X(D)X(H)mm (*Without Infeed funnel and Collection Bucket)	1,050x1,200x860	1,110x1,270x1,030	1,300x1,290x1,100	1,440x1,470x1,230	1,360x1,340x1,840 (with Collection Bucket)	1,720x1,720x1,570
Controller	RCU-920, 10.4 inch color touch screen					
Hopper Actuator	Stepper Motor Driven					
Power requirement	AC200/220/230/240V (+10% to -15%) 50/60Hz,0.7kVA, 1phase		AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase		AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.4kVA, 1phase
Operating Temperature	-10℃~40℃ (14℉~104℉)					
Humidity	35~85%(there should be no condensation)					
Air requirement	Not required					
Net Weight	350kg	350kg	400kg	400kg	400kg	600kg
IP Protection Class	IP54					

This machine is covered by a number of patents worldwide
Above specifications and dimensions are subject to change without notice.

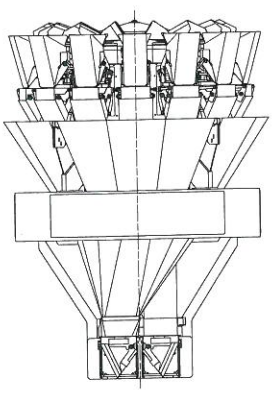
Standard



Twin



Frontier model



Compact model

Dataweigh α advance
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- Optimum for small products, small weights and small package with high accuracy.
- Small footprint
- Each part is compact and detachable for easy to clean
- Low profile design suits to handle fragile products and can transfer products to the bottom fast.

Wide variety of weighing application



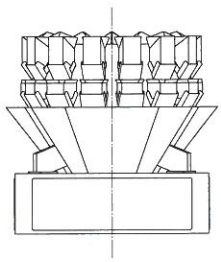


Dataweigh Alpha Advance Compact model

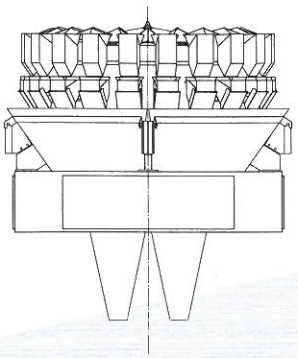
Model	ADW-A-0110S	ADW-A-0114S	ADW-A-0114F	ADW-A-0120S	ADW-A-124S	ADW-A-0124M
Number of Weigh Head	10	14	14	20	24	24
Max.Speed	75wpm	140wpm	140wpm	2x75wpm	2x120wpm	2x150wpm
Max.Combination Volume	1,000ml					
Weighing Range	4～500g					
Min.Increment digit	0.1g					
Max.Product's Length	60mm					
Main Dimensions(W)X(D)X(H)mm (*Without Infeed funnel and Collection Bucket)	990x840x800	880x900x830	880x870x1,390 (with Collection Bucket)	1,170x1,170x1,230	1,270x1,280x1,270	1,270x1,280x1,320
Controller	RCU-920, 10.4 inch color touch screen					
Hopper Actuator	Stepper Motor Driven					
Power requirement	AC200/220/230/240V (+10% to -15%) 50/60Hz,0.7kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.4kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.5kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.5kVA, 1phase
Operating Temperature	-10℃～40℃ (14℉～104℉)					
Humidity	35～85%(there should be no condensation)					
Air requirement	Not required					
IP Protection Class	IP54					

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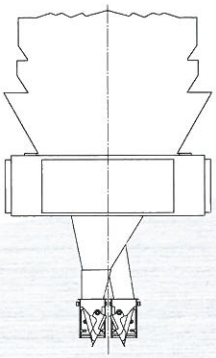
Standard



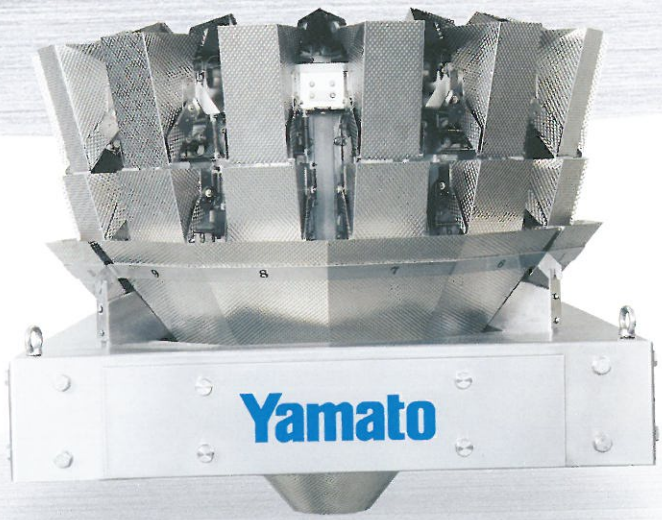
Twin



Frontier model



Waterproof model



- IP65 Compliant
- Hygienic construction for food safety
- Embossed stainless steel surface optimizes the product feeding.
- Large volume products can be handled by large bucket models ADW-A-0310SWL/ADW-A-0314SWL.

Wide variety of weighing application

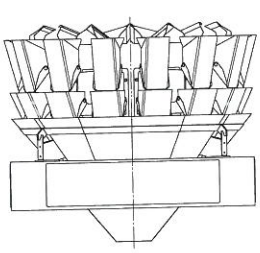


Dataweigh Alpha Advance Waterproof model

Model	ADW-A-0310SW	ADW-A-0310SWL	ADW-A-0314SW	ADW-A-0314SWL
Number of Weigh Head	10	10	14	14
Max.Speed	75wpm	60wpm	140wpm	120wpm
Max.Combination Volume	3,000ml	4,500ml	3,000ml	4,500ml
Weighing Range	8~1000g			
Min.Increment digit	0.1g			
Max.Product's Length	80mm	120mm	80mm	120mm
Main Dimensions(W)X(D)X(H)mm (*Without Infeed funnel and Collection Bucket)	1,050x1,200x860	1,110x1,270x1,030	1,300x1,290x1,100	1,440x1,470x1,230
Controller	RCU-920, 10.4 inch color touch screen			
Hopper Actuator	Stepper Motor Driven			
Power requirement	AC200/220/230/240V (+10% to -15%) 50/60Hz,0.7kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,0.7kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase	AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase
Operating Temperature	-10℃~40℃(14℉~104℉)			
Humidity	35~85%(there should be no condensation)			
Air requirement	Not required			
Net Weight	350kg	350kg	400kg	400kg
IP Protection Class	IP65			

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Standard



Maximizing packaging performance

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Providing various discharge patterns

● Single Discharge



● 2-Point Discharge



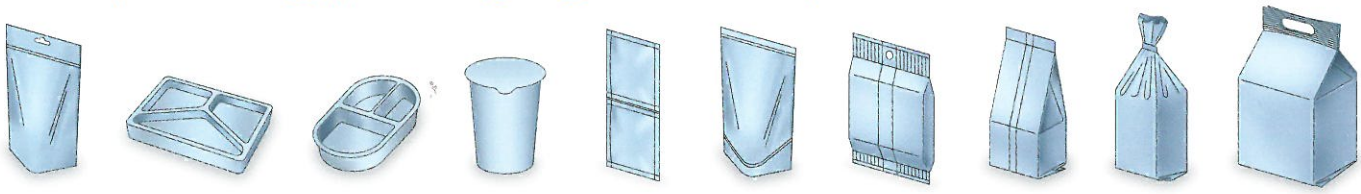
● 3-Point Discharge



● 4-Point Discharge



Expanding packaging flexibility



Benefits of Dataweigh Alpha Advance Frontier model

Maximize Production output

- Increase productivity through high-speed multipoint discharge
- Minimize production waste through wider product window
- Small footprint

Increase Production output

- Applicable to duplex VFFS
- Applicable to 2 point horizontal packaging machines and tray lines.

Contribute to environmental protection

- Reduce packaging waste and weight
- Lower total cost of ownership

Mixing Application

20head, 24head, 24 head with memory model

- Yamato's mix applications, which use a high-speed combination calculation system, can mix up to 4 different products on one weigher.
- Dataweigh Alpha's mixing software handles a wide range of combination calculations. It optimizes among different product groups to achieve the best mix with high accuracy of individual components, for a total package weight.

