Yamato Scale Co., Ltd. was founded in 1920 and has always been a leading manufacturer in the world of weighing machinery. In 1979, the first Dataweigh ADW-110 was developed. Since then, we have introduced many groundbreaking technologies, creating today's high-speed and highly accurate multihead weigher 'Dataweigh Series', which is used throughout the world. Our headquarters are in Akashi, Japan, and we have regional offices in the U.S.A., Germany, Netherlands, U.K., France, Russia, China, India, UAE, Mexico and Thailand. We also have a joint-venture in Korea and cover more than 70 countries with our representatives. Our highly experienced sales and service network provides customers around the world with a high level of expertise and service.
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.

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)
Smart, Tough and Accurate

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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.

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RoHS compliance

Environment responsiveness

Ease of maintenance

Improving productivity

Modular Actuator Unit

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)

Food Safety

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.
### Dataweigh Alpha Advance series model

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Number of Weigh Head</td>
<td>10</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Max.Speed</td>
<td>75wpm</td>
<td>60wpm</td>
<td>140wpm</td>
<td>120wpm</td>
<td>140wpm</td>
<td>2x75wpm</td>
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<tr>
<td>Max.Combination Volume</td>
<td>3,000ml</td>
<td>4,500ml</td>
<td>3,000ml</td>
<td>4,500ml</td>
<td>3,000ml</td>
<td></td>
</tr>
<tr>
<td>Weighing Range</td>
<td>350kg</td>
<td>400kg</td>
<td>400kg</td>
<td>400kg</td>
<td>600kg</td>
<td></td>
</tr>
<tr>
<td>Min.Increment digit</td>
<td>10</td>
<td>10</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Max.Product’s Length</td>
<td>80mm</td>
<td>120mm</td>
<td>80mm</td>
<td>120mm</td>
<td>80mm</td>
<td></td>
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<tr>
<td>Power requirement</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz, 0.7kVA, 1phase</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz, 1.0kVA, 1phase</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz, 1.0kVA, 1phase</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz, 1.4kVA, 1phase</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz, 1.4kVA, 1phase</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C<del>40°C  (14°F</del>104°F)</td>
<td>-10°C<del>40°C  (14°F</del>104°F)</td>
<td>-10°C<del>40°C  (14°F</del>104°F)</td>
<td>-10°C<del>40°C  (14°F</del>104°F)</td>
<td>-10°C<del>40°C  (14°F</del>104°F)</td>
<td>-10°C<del>40°C  (14°F</del>104°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>35~85% (there should be no condensation)</td>
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<td>35~85% (there should be no condensation)</td>
<td>35~85% (there should be no condensation)</td>
<td>35~85% (there should be no condensation)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>350kg</td>
<td>350kg</td>
<td>400kg</td>
<td>400kg</td>
<td>400kg</td>
<td>600kg</td>
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<td>IP Protection Class</td>
<td>IP54</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

- **Standard**
- **Twin**
- **Frontier model**

This machine is covered by a number of patents worldwide.

Above specifications and dimensions are subject to change without notice.

---

**Wide variety of weighing application**

- **RCU-920, 10.4 inch color touch screen**
- **Stepper Motor Driven**
- **With Collection Bucket**
### Dataweigh Alpha Advance Compact model

<table>
<thead>
<tr>
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<tbody>
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<td>24</td>
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<tr>
<td>Max.Speed</td>
<td>75wpm</td>
<td>140wpm</td>
<td>140wpm</td>
<td>2x75wpm</td>
<td>2x120wpm</td>
<td>2x150wpm</td>
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<tr>
<td>Max.Combination Volume</td>
<td>1,000ml</td>
<td>3,000ml</td>
<td>3,000ml</td>
<td>2x750ml</td>
<td>2x1200ml</td>
<td>2x1500ml</td>
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<tr>
<td>Weighing Range</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min.Increment digit</td>
<td>0.1g</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Max.Product's Length</td>
<td>60mm</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Main Dimensions(W)X(D)X(H)mm</td>
<td>990x840x800</td>
<td>880x900x830</td>
<td>880x870x1,390</td>
<td>1,170x1,170x1,230</td>
<td>1,270x1,280x1,270</td>
<td>1,270x1,280x1,320</td>
</tr>
<tr>
<td>Controller</td>
<td>RCU-920, 10.4 inch color touch screen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hopper Actuator</td>
<td>Stepper Motor Driven</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirement</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz,0.7kVA, 1phase</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz,1.0kVA, 1phase</td>
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<td>AC200/220/230/240V (+10% to -15%) 50/60Hz,1.9kVA, 1phase</td>
<td>AC200/220/230/240V (+10% to -15%) 50/60Hz,1.9kVA, 1phase</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C～40°C (14°F～104°F)</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Humidity</td>
<td>40～80%(there should be no condensation)</td>
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<td></td>
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<tr>
<td>Air requirement</td>
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</tr>
</tbody>
</table>

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---

**Wide variety of weighing application**

- 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.
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.

Increase productivity through high-speed multipoint discharge
Minimize production waste through wider product window
Small footprint
Maximize Production output
Reduce packaging waste and weight
Lower total cost of ownership
Contribute to environmental protection

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

Dataweigh Alpha Advance
Maximizing packaging performance
Providing various discharge patterns

- Single Discharge
- 4-Point Discharge
- 2-Point Discharge
- 3-Point Discharge

Expanding packaging flexibility

Benefits of Dataweigh Alpha Advance Frontier model

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
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<td>60wpm</td>
<td>140wpm</td>
<td>120wpm</td>
</tr>
<tr>
<td>Max Combination Volume</td>
<td>3,000ml</td>
<td>4,500ml</td>
<td>3,000ml</td>
<td>4,500ml</td>
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<tr>
<td>Weighing Range</td>
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<td>Min.Increment digit</td>
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<td>Mix.Product's Length</td>
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<td>120mm</td>
<td>80mm</td>
<td>120mm</td>
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<tr>
<td>Max.Product's Length</td>
<td>1,050x1,200x860</td>
<td>1,110x1,270x1,030</td>
<td>1,300x1,290x1,100</td>
<td>1,440x1,470x1,230</td>
</tr>
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<tr>
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<td>350kg</td>
<td>400kg</td>
<td>400kg</td>
</tr>
<tr>
<td>Air requirement</td>
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<tr>
<td>IP Protection Class</td>
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</table>

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Maximizing packaging performance

Providing various discharge patterns

<table>
<thead>
<tr>
<th>Single Discharge</th>
<th>2-Point Discharge</th>
<th>3-Point Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Single Discharge" /></td>
<td><img src="image2" alt="2-Point Discharge" /></td>
<td><img src="image3" alt="3-Point Discharge" /></td>
</tr>
</tbody>
</table>

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.
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Spare Parts & Service
Yamato Spare Parts and Service are subject to the same high demands of quality as the machines themselves.

Speed, weight and volume listed are standard. Other ranges are also available when required, please contact Yamato.

This machine is covered by many patents worldwide. All illustrations and specifications are subject to change without notice.

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Teletex: +81(78)918-5552

About Yamato & Dataweigh™