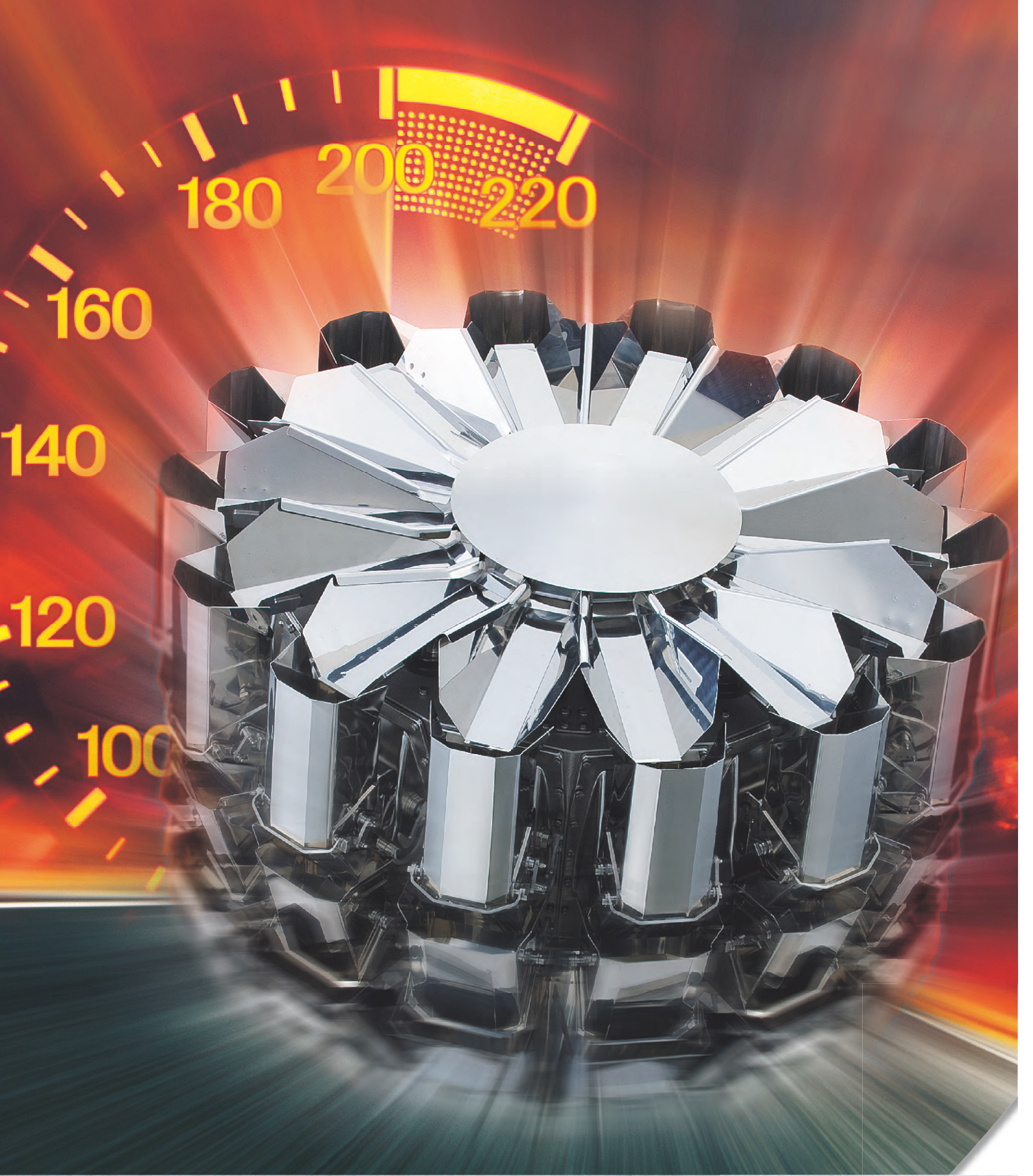
Yamato



Dataweigh Ω™

INNOVATION IN MOTION





INNOVATION IN MOTION

Dataweigh Ω™

Yamato has been at the leading edge of weighing technology for almost 90 years. "Dataweigh Omega"™ series utilizes groundbreaking multihead weighing technology. PATENT PENDING

IMPROVING PRODUCTIVITY

200wpm High speed

*The above speed is for 14H double shift operation.



EASY OPERATION

Auto-tuning
for optimum control

FOOD SAFETY

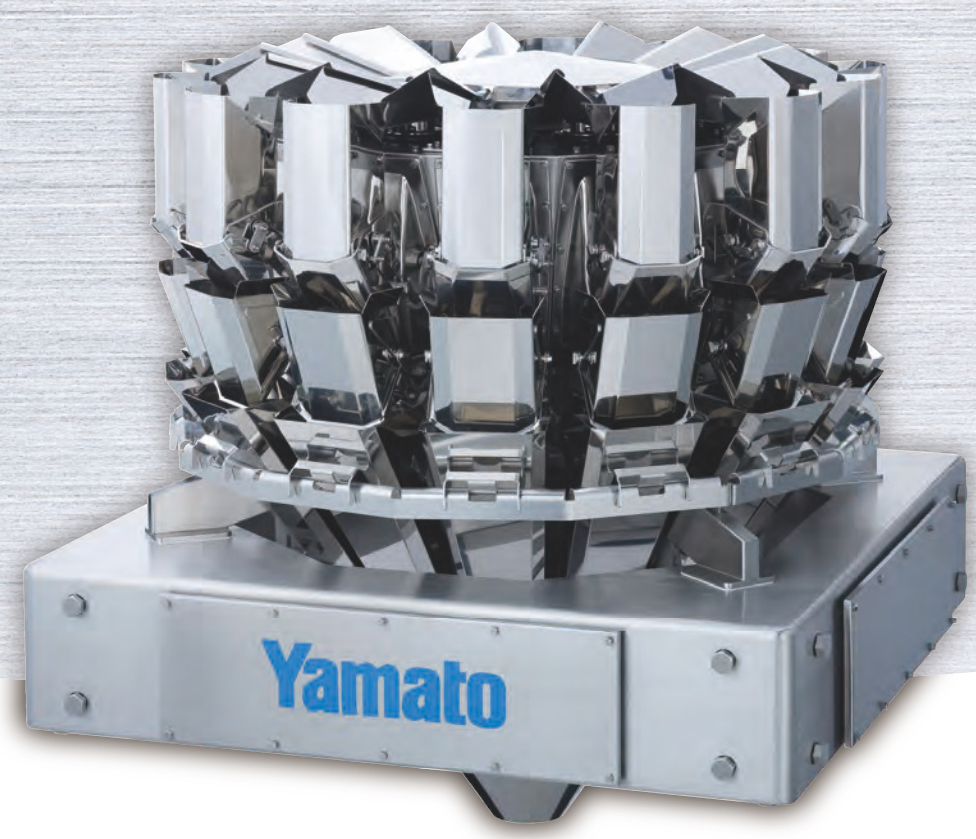
Easy to clean
WATERPROOF
IP67 | **Best Sanitation Structure**

EASY MAINTENANCE

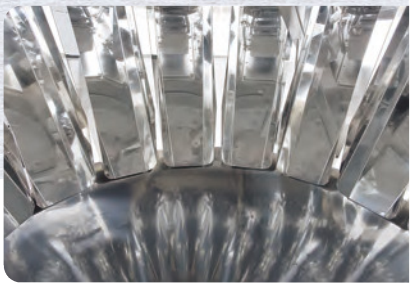
Quick recovery and minimum downtime

ENVIRONMENTAL RESPONSIBILITY

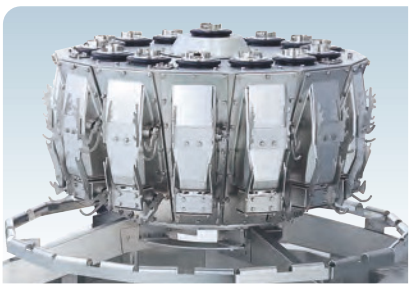
60%less Reduced power consumption



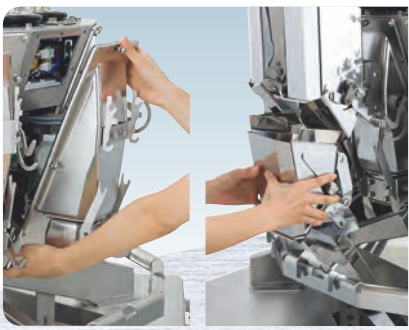

Optimum control of product flow


Individual collating chute


YDB bucket


Streamlined main body


Polygon-shaped feed and weigh buckets


Unitization of actuator and feeder

Easily removable and attachable buckets

"Dataweigh Omega"™ Series introduces innovative technology that is first in the world. This completely new multihead weigher provides customers with great benefits for productivity, operation, maintenance, food safety and environmental responsibility.

Increased productivity

Higher output and yield

- High-natural-frequency load cells minimize vibration impacts.
- Lattice digital filters reduce the influence of external vibrations and ensure higher weighing accuracy.
- Dual cell system eliminate low frequency vibrations.
- Toggle-less gating mechanisms reduce mechanical impacts on load cells and suppress bucket gating noise.
- Individually adjustable collating chute angles maximize product discharge speed.
- Auto-tuning and Yamato AFC (automatic feeding control) ensure continuous optimum product flow.

Food safety

Best sanitation structure

- Simplified fully stainless steel streamlined design.
- Seamless YDB bucket* design leaves no spaces for dust or bacterial growth.

*Yamato Diffusion Bonding (YDB) buckets are used in specific models.

Easy to clean

- Compliant with IP67.
- Polygon-shaped bucket facilitates cleaning.

Ease of maintenance

- Improved design ensures easy replacement of actuators and feeders.
- No tools are needed to remove buckets and linear feeder pans.
- Enhanced protection of load cells can withstand up to 150 kg.

Improved troubleshooting

- Simple screen diagnostics allow quick identification of problem areas.
- Part replacement time indicators prevent possible failures.

Environmental responsibility

- Feedback control of feeders can achieve up to 60% power consumption reduction.*
- Wider product windows reduce sealing errors and contribute to reducing packaging waste.

*Compared to a conventional model



AICC+

Advanced Interactive Command Console Plus (RCU-1000)

This powerful new interactive command console provides easy access to all operational functions.

- 12.1-inch Color Touchscreen
- 300 Programs
- USB access port
- Built-in Printer
- 16 Languages
- Fingerprint authentication
- Ethernet access port
- Built-in Camera



Automatic operation display



Built-in operation manual



Maintenance information display

Easy Operation

- Auto-tuning, feeder amplitude and bucket gating set automatically, ensuring continuous optimal product flow
- Image-scanning with built-in cameras prevents program selection mistakes.
- Barcode readers use built-in cameras.
- Login management uses fingerprint authentication.
- Built-in operation manual

Optional Features

- Counting Software
- Priority head
- Mixing Software
- Multi-point Discharge
- Product Inspection Camera*

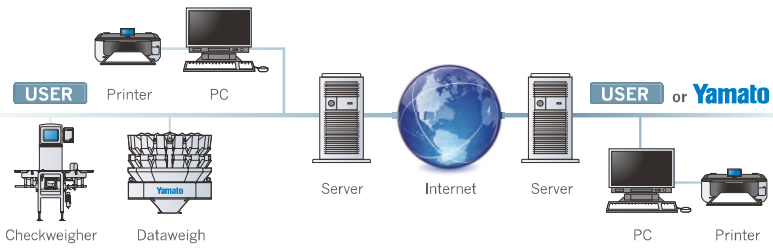
*CCD camera for real-time product monitoring on top cone and linear feeder pans



Network Remote Control and Data Acquisition

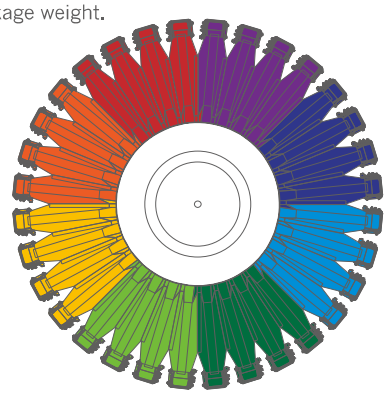
Network connection capabilities (optional)

- PC remote control by LAN
- Data acquisition
- OPC & COM interface for data accumulation
- Feedback control between checkweigher and multihead weigher
- Troubleshooting and FAQs available in AICC+ support section of Yamato website



Mixing Application

- Yamato's mix applications, which use a high-speed combination calculation system, can mix up to 8 different products on one weigher.
- Dataweigh Omega'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.



"Dataweigh Omega"™ series models

	Model	Weigh Heads	Max. weighing range (g)	Volume per pack (ml)	Max. speed (wpm)	Max. discharge points	Dimensions	
							Width (mm)	Height (mm)
Dataweigh Omega series	O-0114S	14	500	1,000	210	1	800	1,000
	O-0116M	16	500	1,000	240	2	900	1,300
	O-0120S	20	500	1,000	210	2	1,100	1,300
	O-0124M	24	500	1,000	420	4	1,300	1,500
	O-0128S	28	500	1,000	420	2	1,400	1,600
	O-0132M	32	500	1,000	420	4	1,800	1,800
	O-0310S	10	1,000	3,000	100	1	1,200	1,100
	O-0312M	12	1,000	3,000	140	2	1,200	1,500
	O-0314S	14	1,000	3,000	200	1	1,200	1,200
	O-0316M	16	1,000	3,000	200	2	1,600	1,600
	O-0320S	20	1,000	3,000	200	2	1,500	1,500
	O-0320M	20	1,000	3,000	250	2	1,600	1,800
	O-0324M	24	1,000	3,000	300	4	1,800	1,800
	O-0610S	10	2,000	6,000	85	1	1,400	1,400
	O-0614S	14	2,000	6,000	170	1	1,400	1,420
	O-0616M	16	2,000	6,000	170	2	1,600	1,600
	O-0620S	20	2,000	6,000	170	2	1,600	1,600
	O-0620M	20	2,000	6,000	215	2	1,600	2,200
	O-0624M	24	2,000	6,000	255	4	1,800	2,200
	O-1214S	14	3,000	12,000	130	1	1,600	1,800
	O-1220S	20	3,000	12,000	130	2	2,200	2,700
	O-1224M	24	3,000	12,000	200	4	2,200	2,800
	O-1814S	14	5,000	18,000	100	1	1,800	2,000

Above specifications and dimensions are subject to change without notice.

Wide variety of weighing applications



Snacks | Bakery | Confectioneries | Pasta



Cereal | Nuts & dried fruits | Pet food | IQF products

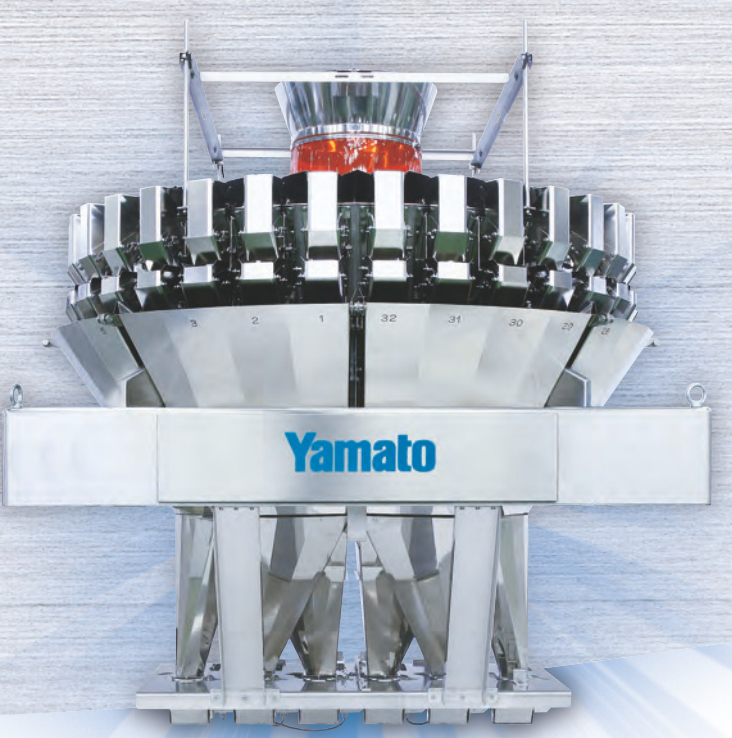


Fresh produce | Meat,seafood & poultry | Cheese | Non-food/ household items

Maximizing packaging performance

Dataweigh Ω™

Frontier/Divided Weigher



ADW-O-0132F

Benefits of "Dataweigh Omega"™ Frontier

Maximize production output

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

Increase packaging versatility

- VFFS (duplex, triplex, 4-tube, 6-tube) versatility
- Applicable to multi-point horizontal packaging machines and multi-lane tray lines

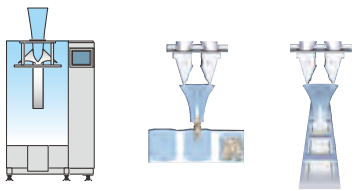
Contribute to environmental protection

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

Providing various discharge patterns

"Dataweigh Omega"™ Frontier series offers various types of discharge patterns

● Single Discharge



● 2-Point Discharge



● 3-Point Discharge



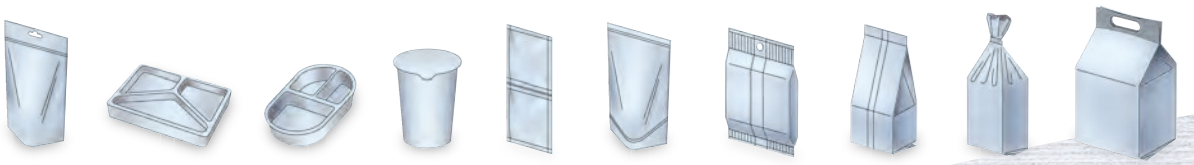
● 4-Point Discharge



● 6-Point Discharge

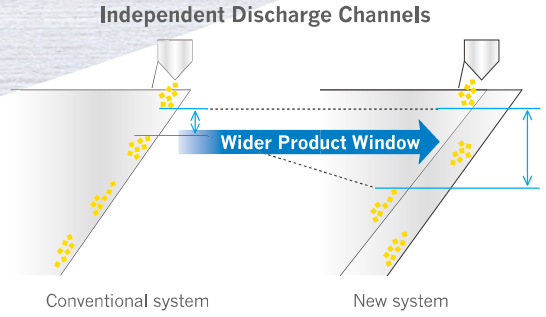


Expanding packaging flexibility



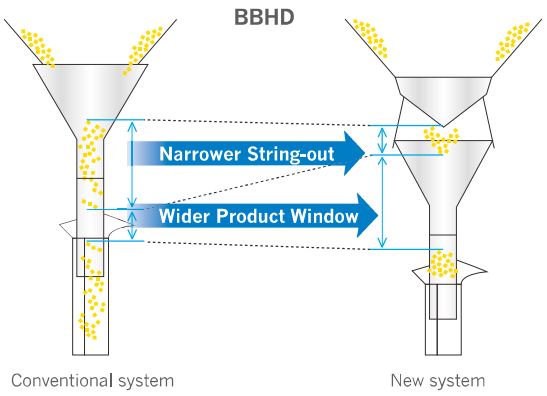
Independent Discharge Channels

Changing from a standard single chute structure to a dual chute structure provides wider product discharge windows in high-speed operation.



Bottom Based Handling Device (BBHD)

The bottom based handling system temporally retains the product that has dropped to the discharge chutes and on release ensures that no product is within the seal zone of the bag-maker. This reduces product waste and allows the use of thinner packaging film with ensuring sufficiently sealing time.



Simultaneous combination

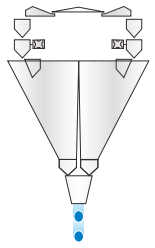
High accuracy and output are realized.
Less loss means a fast return-on-investment.

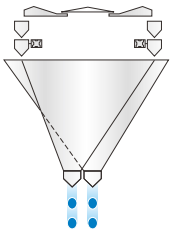
Multi-point Discharge

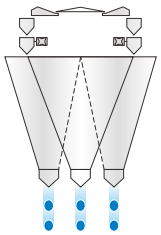
Yamato Multihead weighers with 1 to 6 discharge gates can fill tray lines, cup lines, HFFS, VFFS, rotary packing machines and other similar packaging applications. Multipoint discharge allows increased production.

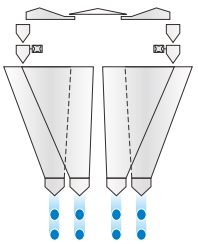
Divided Weigher

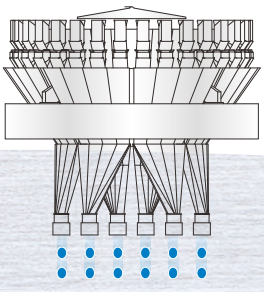
Divided weigher is comprised of completely independent discharge channels divided from one weigher, allowing weighing with higher speed and accuracy. Wider product windows with BBHD maximize multihead weigher performance in high-speed small bag lines.


Divided Weigher


2-point


3-point


4-point


6-point

"Dataweigh Omega"™ Frontier series models

	Model	Weigh Heads	Max. weighing range (g)	Volume per pack (ml)	Max. speed (wpm)	Max. discharge points	Dimensions	
							Width (mm)	Height (mm)
Dataweigh Omega Frontier series	O-0114F	14	500	1,000	210	2	800	1,200
	O-0120F	20	500	1,000	315	3	1,100	1,500
	O-0128F	28	500	1,000	420	2	1,600	2,000
	O-0132F	32	500	1,000	600	6	1,800	1,600
	O-0314F	14	1,000	3,000	200	2	1,200	1,700
	O-0320F	20	1,000	3,000	300	3	1,600	2,000
	O-0324F	24	1,000	3,000	300	3	1,800	2,300
	O-0328F	28	1,000	3,000	400	2	2,000	2,400
	O-0614F	14	2,000	6,000	170	2	1,400	1,800
	O-0620F	20	2,000	6,000	255	3	1,600	2,200
	O-1214F	14	3,000	12,000	130	2	1,600	2,600
	O-1220F	20	3,000	12,000	195	3	2,200	3,100

Above specifications and dimensions are subject to change without notice.

About Yamato & Dataweigh™

Yamato Scale Co., Ltd. was founded in 1922 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., Canada, Germany, Netherlands, U.K., France, Russia, China and India. 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 a high level of expertise and service.

On-site-service


Installation



Application


Training

In-house-service


Repairs

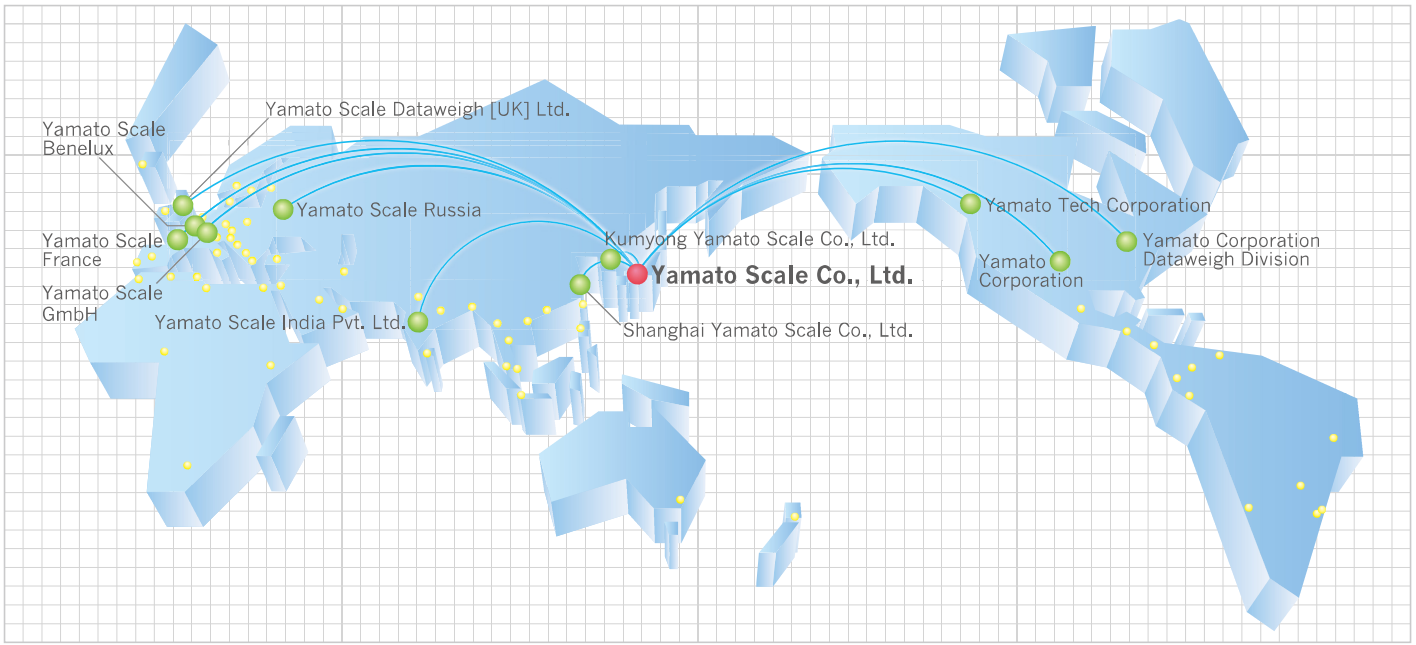


Maintenance


Helpdesk & hotline

Worldwide Sales & Service Network

Yamato is the only manufacturer of multihead weighers with wholly owned operations in America, Europe and Asia.



Spare Parts & Service

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

Yamato GENUINE PARTS AND SERVICE

Yamato | BLUE ORIGINAL

Speed, weight and volume listed are standard. Other ranges are also available when required, please contact Yamato.
This machine is covered by number of patents worldwide.
All illustrations and specifications are subject to change without notice.

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