



Yamato

Checkweigher

I series / Metal Detection

Self Diagnosis
Self Recovery
Optimum Control
Remote Maintenance

INNOVATION IN MOTION

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Outstanding Performance & Flexibility

- Speed: 480ppm (max 50% UP *)
- Accuracy: $\pm 0.15g$ (max 50% UP *)
- Checkweigher and metal detector assembled in single, easy to clean compact design.
- Confirms product weight, rejecting underweights, overweights and metal contaminates.
- Increases profits by eliminating costly product overweight giveaways.
- Conveyors can be removed on entire combo system without the need for any special tools.

* Compared to conventional models



Complete Inspection Efficiency

- Optimum food safety & maintenance.
- Detects all ferrous, non-ferrous and stainless steel metal contaminants.
- Flexible design means lower ownership costs.
- Waterproof construction, hose down cleaning.
- FDA approved conveyor belt with tool-less belt replacement.
- Easy operation and troubleshooting with touchscreen and intuitive graphics.

Checkweigher *I* series / Metal Detection

Industry Leading Performance Level

- Digital load cell does not require auto zeroing due to temperature changes, resulting in faster operation.
- Optional dual load cell further increases weighing accuracy.
- Highly responsive load cell stabilizes the products impact with expedience, allowing high speed and high accuracy weighing.
- A wider variety of infeed and weighing conveyor sizes maximize speed and accuracy by suiting the specific product being weighed.



Anti-bacterial conveyor belt

Outstanding Food Safety

- I series waterproof models are IP67 compliant. IP69K compliance (optional) enables high pressure and temperature water cleaning.
- The tubular legs minimize dust accumulation, while the flat design and open-frame structure provide ease of cleaning and a high level of food safety.
- Anti-bacterial conveyor belt made of resin.
- Compliant with HACCP and GMP.



Open-frame structure

Easy Operation

- Yamato's Automatic Program Setting System allows initial settings to be performed without complicated parameters.
- CE3000 indicator utilizes 12.1-inch color touch screen and 3D Animation, offering higher visibility and better usability.
- LED lights can be set to 7 different colors in accordance with the operation so current operational status can be seen from a distance.
- Any operational level on the display can be reached in 3 quick and easy steps.



Automatic program setting display



Operation history retrieve function

Ease of Cleaning & Maintenance

- Parts Replacement Alert Indicator shows the time for replacing consumable parts and making maintenance checks, malfunctions and downtime.
- Overload Protection - The round, bar-shaped stopper enables the load cell to withstand up to 3000N decreasing downtime. PATENT PENDING
- The Error Status display indicates a malfunction and advises how to respond, enabling quick and appropriate recovery.
- Modularization of parts makes previously complicated repair and maintenance easy.
- Conveyors can be removed and reattached simply without the need for any special tools.
- Status Monitor and Alert Function (weighing error, photo sensor error, etc.)



Maintenance history display



Error status display



Alert function display



Easy removal of conveyor

Checkweigher *I* series / Metal Detection

Reliability & Safety

- All-direction Reject Verification Function (optional) PATENT PENDING. This function is able to confirm whether defective products are being properly rejected and prevents those products from being passed on to further handling.
- Self Diagnosis and Countermeasure Display Function. Error and abnormal situations, such as overload error, A/D converter error, and countermeasure are displayed.
- Check Item Alert Function. The indicator shows items which need to be checked before starting daily operation.



Options

- IP69K (Factory fitted only)
- Wide Range of Pass Line Height Variations
- Determinate Quantity and Weight Packing Function
- All-Direction Reject Verification Function PATENT PENDING
- Signal Light
- Tri-colored Signal Light
- Printer
- Dual Load Cell
- BCD Product Input
- Feedback Control
- Automatic Conveyor Stop Function
- Wireless LAN Function
- Data Acquisition
- Wind Cover for Reject Device
- Cover Open Safety Sensor
- RS232C / Ethernet
- External Indicator
- Conveyor Guide
- Blue Belt
- BCD Output
- Wind Cover

Environmental Responsibility

- The 7-color LED light function makes operation without the main screen possible, using only LED light indication.
- The backlight is automatically turned off when the unit is not in operation for a specified period of time. The conveyor can also be stopped automatically when the unit is not operated for a period of time in order to save energy.
- Minimizes the environmental impact by reducing the number of components by 10%.
- Compliant with RoHS



Overall Versatility

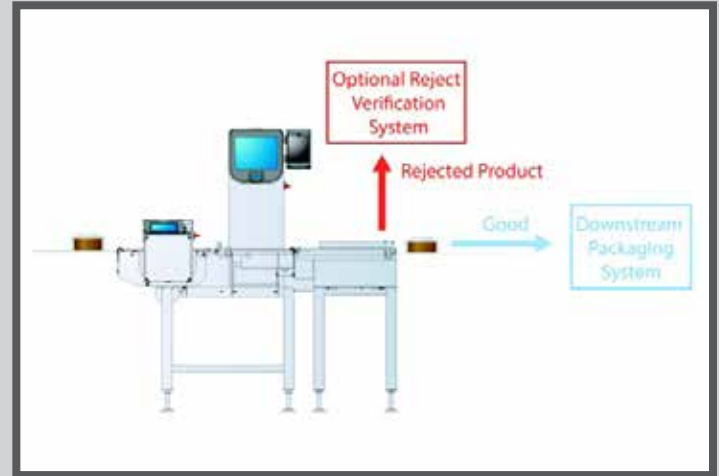
- On-site height adjustment is possible. The main frame and legs can be separated easily. A variety of leg lengths enables almost any requirement to be met without major modifications.
- The compact and flexible design allows the unit to be replaced and installed into almost any production line without major modifications.



INNOVATION IN MOTION

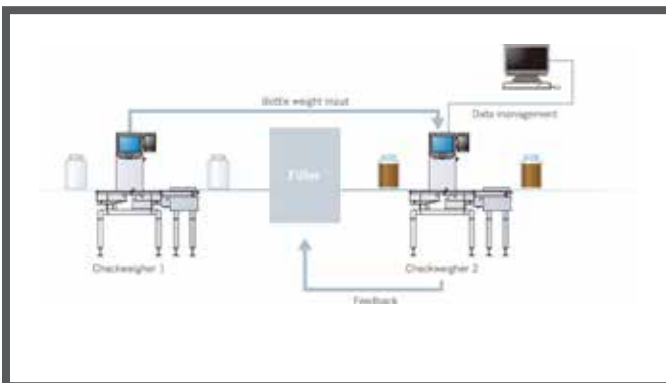
Metal Detection & Product Weights

Space and cost savings are obtained with Yamato's integrated inspection solution. The checkweigher and metal detector combination system delivers high accuracy weighing and a high sensitivity metal detection. This unit is a blend of the industry leading Yamato I-series checkweigher, the Fortress Stealth series metal detector and a Yamato diverter reject system. The Stealth detects all ferrous, non-ferrous and stainless steel metal contaminants. Checkweighing confirms correct product weight, eliminating under/overweight items and the diverter reject system separates the costly erroneous product. The combination merges these two top technologies necessary for safety compliance in all food, pharma, and CPG industries with IP69 and IP67 fabrication models available.



Net Weight Fill Function

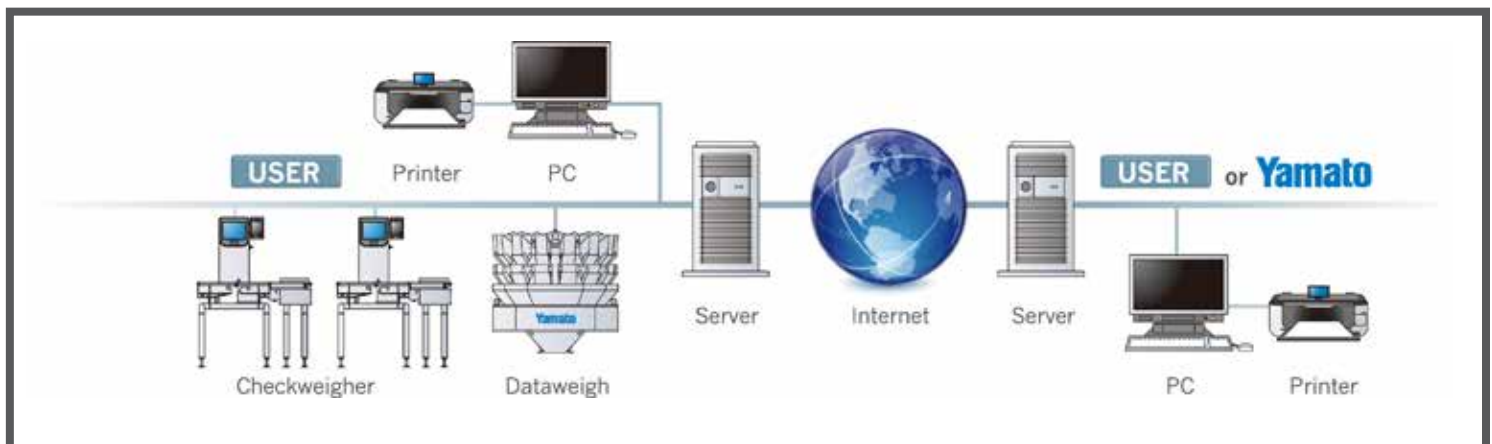
Checkweigher 1 weighs the empty container, then the Filler inserts the contents. Checkweigher 2 weighs the filled container, calculates the net weight, and feeds back that net weight to the Filler for more accurate feeding.



Network Connection Capabilities

The ability to network with peripheral devices improves the production yield rate and saves labor costs

Operation History Data Retrieval Function. After products pass the Checkweigher, the weighing value and operation history data is automatically recorded and transferred to a PC or saved on a USB memory. That production output data can be managed centrally and easily utilized for analysis or diagnosis purposes. This function improves traceability and enables the most demanding needs to be met, including customer requests for verification data.



INNOVATION IN MOTION

Features of Control Panel



12.1" Color touch screen



Printer (option)

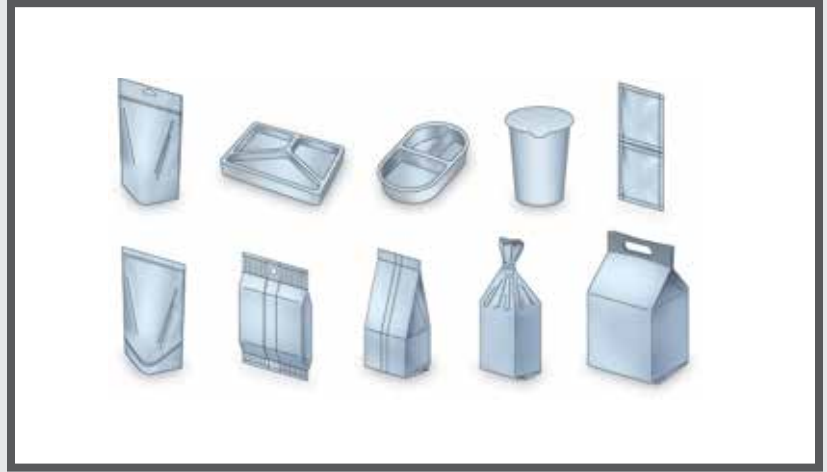


USB memory port



Cumulative production data

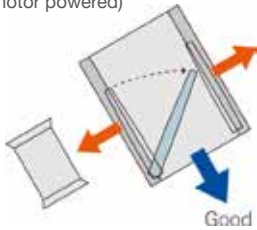
Handling Capabiliy



Broad range of packaging

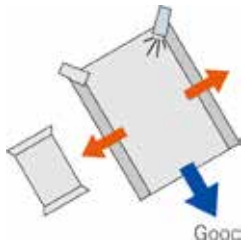
Reject Device

Diverter Reject (air/motor powered)

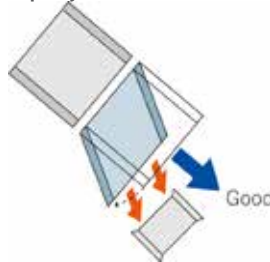


Model		F131660WF (Air)	F131660WFM (H) (Motor)	F132460WF (T) (Air)	F132460WFM (H) (Motor)
Products size (Max.)	Width	160mm	160mm	240mm	240mm
	Length	400mm	400mm	400mm	400mm
	Height	200mm	200mm	200mm	200mm
	Weight	2200g	2200g (1100g)	2200g (3300g)	2200g (1100g)
Speed (Max.)		270ppm	180ppm (220ppm)	200ppm	100ppm (150ppm)
Air supply		0.4 ~ 0.7MPa, 0.4NL / time	—	0.4 ~ 0.7MPa, 0.4NL / time	—

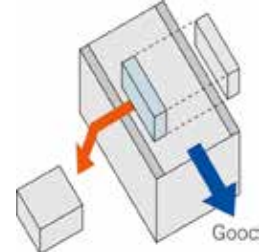
Air Blast Reject



Driven Drop Flap Reject



Pusher Reject



Model		AI21624WI AI2(3)1633WI AI2(3)1644WI	AI2(3)2433WI AI2(3)2444WI
Products size (Max.)	Width	160mm	240mm
	Length	400mm	400mm
	Height	160mm	160mm
	Weight	300g	300g
Speed (Max.)		400ppm	400ppm
Air supply		0.4 ~ 0.7MPa, 5NL / time	

Model		SI21624WF SI21633WF SI21644WF	SI22433WF SI22444WF
Products size (Max.)	Width	160mm	240mm
	Length	400mm	400mm
	Height	130mm	130mm
	Weight	2200g	3300g
Speed (Max.)		100ppm	100ppm
Air supply		0.4 ~ 0.7MPa, 0.4NL / time	

Model		PI21624WF PI21633WF PI21644WF	PI22433WF PI22444WF
Products size (Max.)	Width	160mm	240mm
	Length	400mm	400mm
	Height	200mm	200mm
	Weight	2200g	3300g
Speed (Max.)		180ppm	160ppm
Air supply		0.4 ~ 0.7MPa, 2.5NL / time	

Checkweigher **I** series / Metal Detection

Specifications

Model	CS106LMW	CS122LMW	CS133LMW		CM106LMW	
Range	6~600g	20~2200g	30~3300g		60~6000g	
Minimum graduation	0.05g	0.1g	0.1g	0.2g	0.2g	
* Accuracy (Max.)	± 0.15g	± 0.3g	± 0.3g	± 0.5g	± 0.5g	
Weigh System	Digital load cell					
* Speed (Max.)	480ppm	480ppm	310ppm	190ppm	130ppm	
Conveyor Variation	Length	240/ 330 /440mm	240/ 330 / 440 mm	240/ 330 / 440 mm	400/ 500 /600mm	400/ 500 / 600 mm
	Width	160 /240mm	160/ 240 mm	240 mm	320 mm	320/ 400 mm
	Height	950 +100 /-50mm	950 +100 /-50mm	950 +100 /-50mm	950 +100 /-50mm	950 +100 /-50mm
IP Protection Class	IP67 (Option : IP69K)					
Power Supply	AC100 ~ 240V ±10%, 50/60Hz, Single Phase					
Air supply (Reject device*option)	0.4~0.7MPa	0.4~0.7MPa	0.4~0.7MPa	0.4~0.7MPa	0.4~0.7MPa	
Number of programs	300	300	300	300	300	
Fortress Metal Detector Head	W300 /H150mm			W450 /H150		

Design, specifications, and descriptions are subject to change without notice.
 Standard specification is indicated by bold font.
 *Depends on product characteristics.

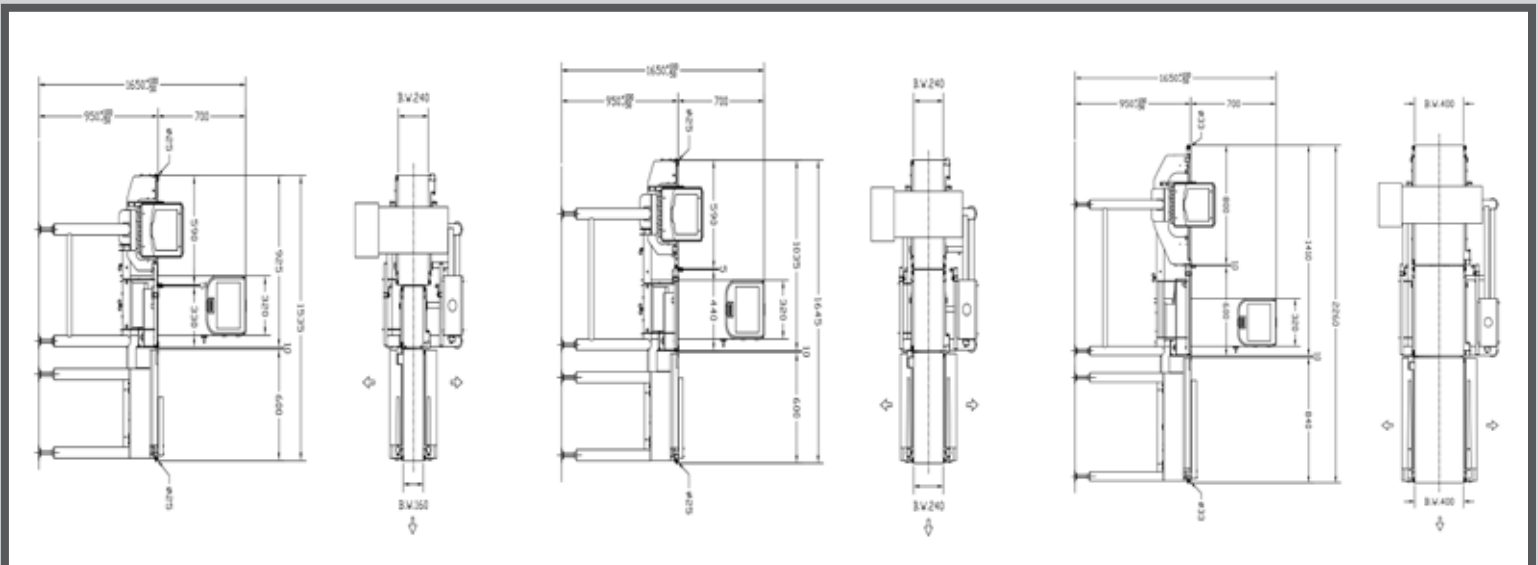


Dimensions

CSI06LMW/CE3000

CSI22LMW/CE3000
 CSI33LMW/CE3000

CM106LMW/CE3000



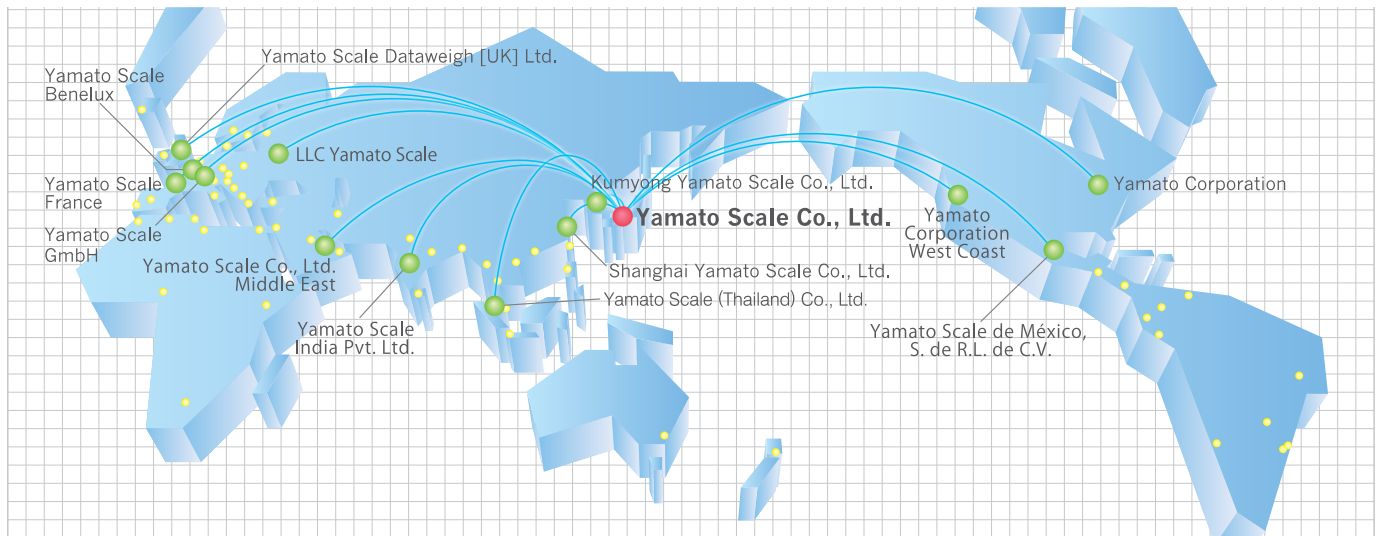
The above system layout is merely an example. Actual layout and dimensions will vary according to the combination of the Infeed Device, Weigh Conveyor and Reject Device. Contact our sales representative for layout and dimensions appropriate to your particular requirements.

The listed speed, weight and volume are standard values. Other specifications are also available. Please contact Yamato for details. This machine is covered by number of patents worldwide. All illustrations, specifications and descriptions are subject to change without notice.

About Yamato & Dataweigh™

Yamato Scale Co., Ltd. was founded in 1920 and has always been a leading manufacturer in the world of weighing machinery. In 1966, we introduced the Checkweigher CB3. We have supplied high-performance, robust and user-friendly Checkweigher Series units for about 50 years now, while building up a global customer base over that time. Our headquarters are located in Akashi, Japan, and we have regional offices in the U.S.A., Mexico, Germany, the Netherlands, U.K., France, Russia, Korea, China and India. Our worldwide sales network includes representatives in more than 70 countries, and our highly experienced sales and service staff provides customers everywhere with a high level of expertise and service.

Worldwide Sales & Service Network



Spare Parts & Service

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



On-site Services



Installation



Application



Training



Repairs



Maintenance



Helpdesk & Hotline

In-house Services

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