

Anritsu



Checkweigher

AW9 Series Ultra-Fast Type

An exploded view of a complex industrial scale, showing various components like the weighing pan, load cells, and structural frame. The image is rendered in a blue and white color scheme with a dark background.

AW9 Series Ultra-Fast Type

Ultimate in dynamic weighing technologies by Anritsu

World-leading dynamic weighing performance *

Maximum throughput of 1,000 products/min



Opening the future of productivity:

The pinnacle of Anritsu checkweighers that achieve ultra-fast and precision weighing

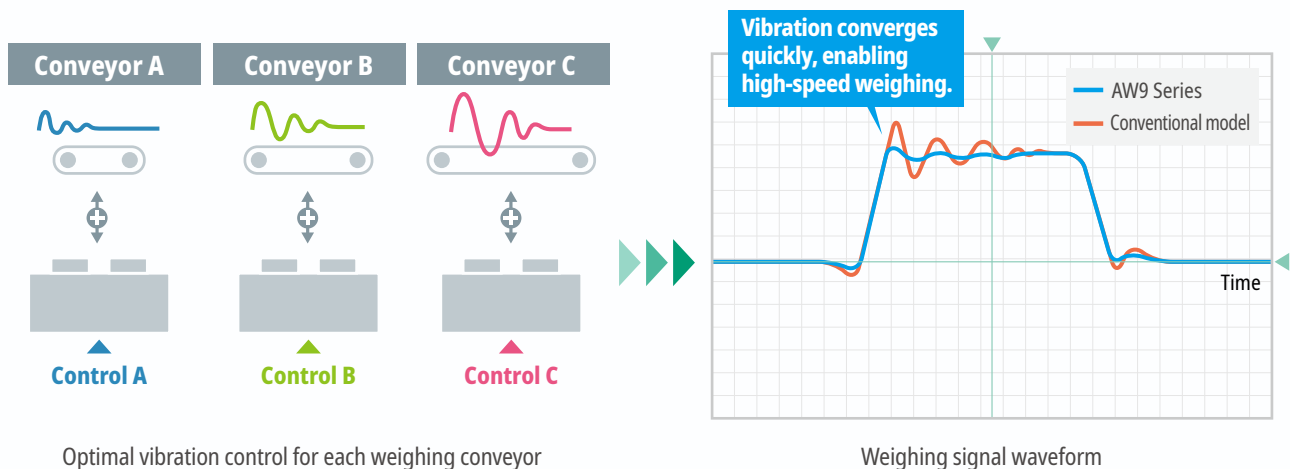
Anritsu Checkweigher AW9 Series Ultra-Fast Type is the culmination of over 50 years of development in dynamic weighing technology. It incorporates a number of new technologies, including a new force balance, digitalization of weighing signals, and a high-rigidity center-balance layout. As a result, the equipment achieves a maximum weighing throughput of 1,000 products per minute. It is compatible with ultra-fast packaging lines for light-weight products, which were previously difficult to handle. The AW9 Series Ultra-Fast Type is the perfect solution for manufacturers who need to improve productivity and quality in their packaging lines.

*Based on research by Anritsu as of August 2023

Ultra-high speed and high precision: Technologies that realize the world's highest level of weighing ability

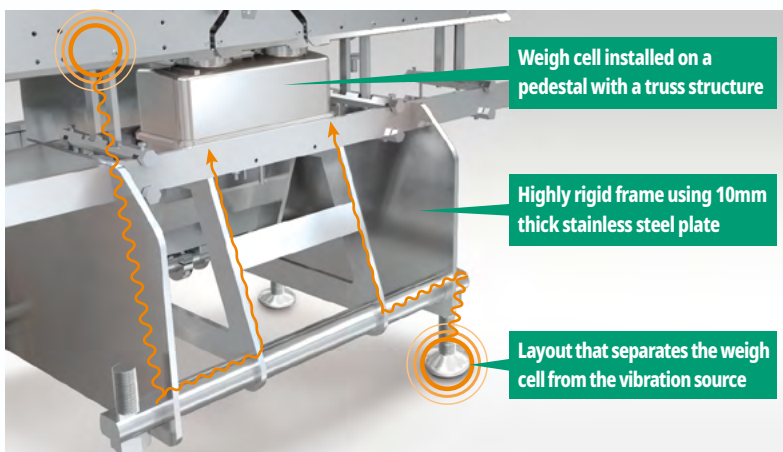
Advanced vibration control technology

As production speeds increase, the vibration of the conveyor has a greater impact on weighing accuracy. Therefore, it is essential to have technology to control (eliminate) the effects of vibration. The vibration characteristics vary depending on the size of the weighing conveyor, but in the past, only a single control was possible. However, in the AW9 Series, precise control is now possible to match the individual vibration characteristics of each weighing conveyor by digitalizing the control. This realizes high-speed and high-precision weighing.



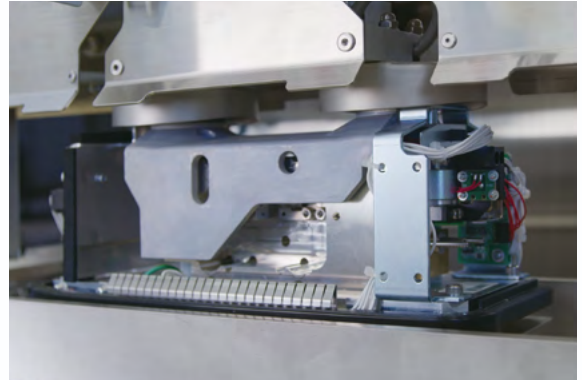
Vibration-resistant frame structure and center balance layout

Vibration is a major obstacle to accurate weighing. However, in production lines, checkweighers are always subjected to vibration from surrounding machines and their own conveyor vibrations. To address this, Anritsu has developed a new frame structure based on detailed simulations. The frame itself has been significantly strengthened over previous models, and the weigh cell is mounted on an independent base to physically isolate it from the vibration source. This minimizes the effects of vibration and maximizes the checkweighing performance.



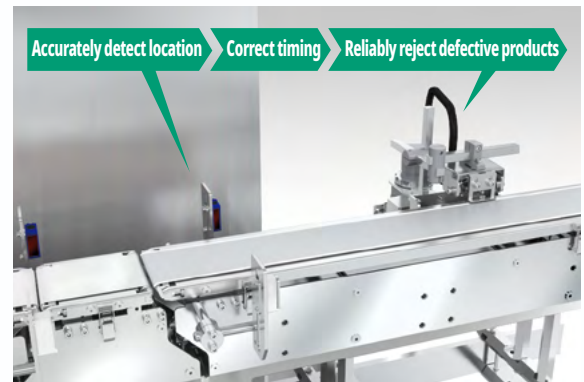
New digital force balance

With further improvements to the performance of the previous generation, it achieves a maximum weighing accuracy of ± 0.006 g even at high-speed weighing.



High-speed air-blast rejector

The AW9 Series Ultra-Fast Type comes standard with a dedicated high-speed air-blast rejector that enables accurate rejection even at 1,000 products per minute. By detecting the position of the product at a stable stage after it has been transferred to the rejection conveyor, the sensor compensates for the rejection timing, ensuring accurate rejection.



Small diameter rollers for smooth product transfer

Adopts small diameter rollers of 5 mm that enable good product transfer even during high-speed conveyance. Stable product transport leads to high-speed and high-precision weighing as well as reliable rejection of defective products.



Full windshield cover

The checkweigher is equipped with a full windshield cover as standard, which prevents disturbances in measurement accuracy caused by wind from the front, back, top, and bottom directions, such as those caused by air conditioning. It is also effective for worker safety and protecting equipment from falling objects.



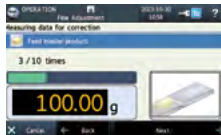
Maximized operational efficiency through the pursuit of useability and operability

Enhanced operability

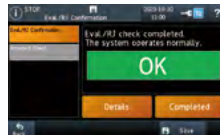
Equipped with a large 15-inch touch panel, the screen can be adjusted to a convenient angle. Intuitive operability and extensive guidance functions make it easy to operate even for beginners.



Product setup wizard



Dynamic calibration

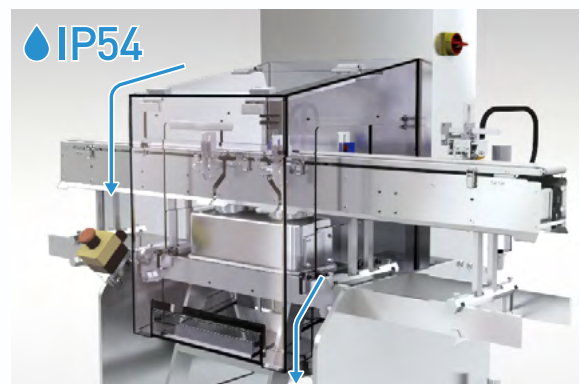


Operation check



Excellent cleanability and hygienic design

The equipment has a sanitary design that is easy to clean. By minimizing the horizontal surface area, the structure prevents water and dust from accumulating. Also, reducing the hollow structure prevents the growth of bacteria. (Using solid material or welding all around.) The protection rating is "IP54", so there is no need to worry about damage even if the package breaks and water leaks.



Tool-free belt removal

The conveyor belt can be easily removed and attached without tools and is easy to clean.



Connectivity and data output

Equipped with Ethernet and USB interfaces as standard, it is possible to output measurement data and statistical information. By adding optional units, it supports connection to major industrial networks such as OPC UA and EtherNet/IP, contributing to digital transformation and smart factories.

*OPC UA is a registered trademark of OPC Foundation.

*EtherNet/IP is a registered trademark of ODVA (ODVA, Inc.).

*CC-Link is a trademark of Mitsubishi Electric Corporation and is controlled by the CC-Link Partner Association.



Examples of product applications

Suitable for relatively small packaged products that require high productivity.

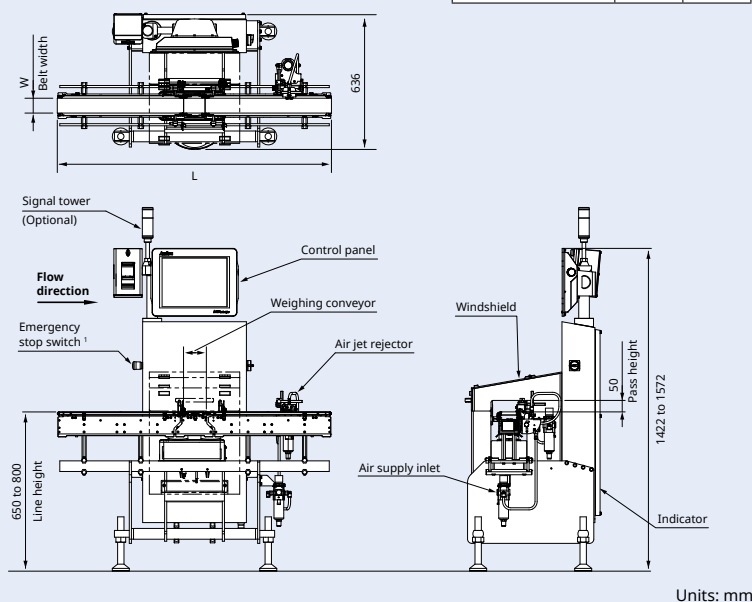


External Dimensions



KWA7241APANN
KWA7242APANN
KWA7243APANN
KWA7244APANN
KWA7245APANN

Model	W	L
KWA7241APANN	70	1296
KWA7242APANN	100	1316
KWA7243APANN	100	1346
KWA7244APANN	100	1396
KWA7245APANN	100	1466



Units: mm

1: The mounting positions of the emergency stop switch can be changed as an option.

Lineup

You can choose the most suitable model from the following five models depending on conditions such as the dimensions of the item to be weighed and production throughput.

Please refer to the specification catalog for details.

Model	KWA7241APANN	KWA7242APANN	KWA7243APANN	KWA7244APANN	KWA7245APANN
Weighing conveyor size	W70 × L100 mm	W100 × L120 mm	W100 × L150 mm	W100 × L200 mm	W100 × L270 mm
Maximum speed ¹	1000 products/min	900 products/min	720 products/min	540 products/min	400 products/min
Conveyor speed	10 to 110 m/min	10 to 132 m/min	10 to 165 m/min	10 to 180 m/min	
Weighing range ²	1.2 to 660 g				
Scale interval	0.002 g				
Maximum accuracy (3σ) ¹	±0.006 g				

1: The speed and accuracy vary according to the products to be weighed and the rejector.

2: The maximum product weight that can be discharged by the rejector varies depending on the production speed.



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ISO14001, ISO9001 Certified

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- Some products shown in this catalog may not be available in your country or region. Contact our sales representatives for details.
 - To ensure proper operation, read the Operation Manual before using the machine.
 - In addition to daily inspection, a full maintenance inspection should be completed annually.

Specifications are subject to change without notice.
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