

Capsule Checkweigher



Industry-leading weighing performance enhances both production and research & development efforts.



Best weighing solution for capsules containing active pharmaceutical ingredients.

Slight variances in active pharmaceutical ingredients can have a large impact on a drug's efficacy.

Anritsu's force balance weighing technology provides the industry's highest weight accuracy of ± 0.5 mg, meeting even the most stringent standards for capsules containing high potency active pharmaceutical ingredients.



Force Balance Load Cell

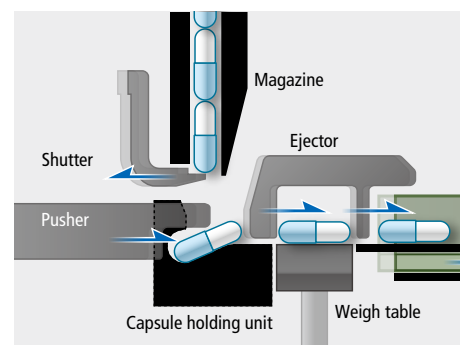
For over 50 years, Anritsu has proudly developed and manufactured load cells in-house.

Our advanced force balance load cell achieves ultra-precise weighing all while maintaining a compact size well suited for pharmaceutical applications.

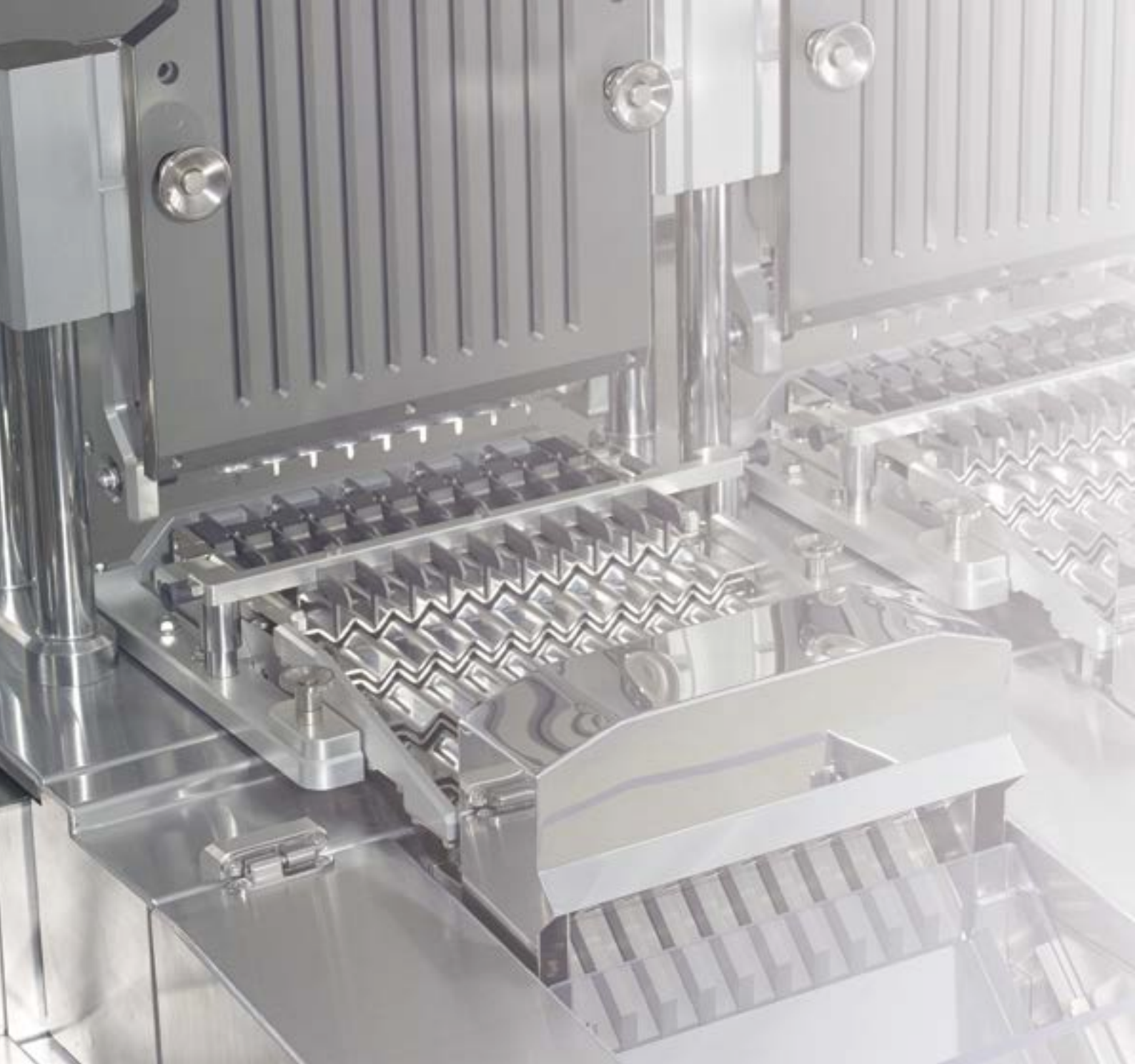


Stable and reliable feeding of semi-locked capsules - Achieved!

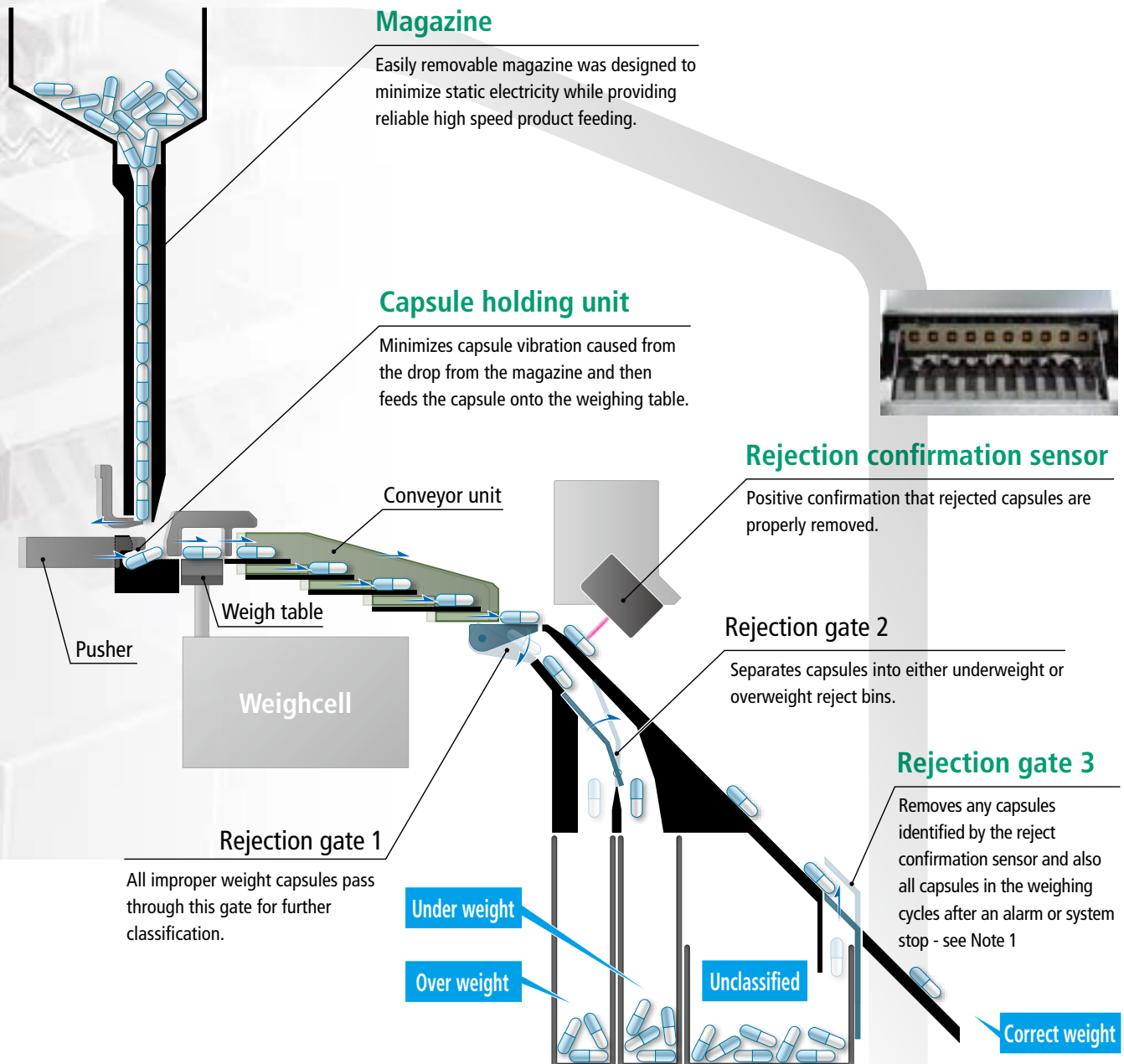
Our unique capsule handling technology eliminates empty capsules from bouncing and provides stable feeding throughout the inspection process. Minimizing product vibration is critical for high accuracy weighing. Accurately weighing empty capsules can also improve the reliability of clinical trials and new drug testing.



Capsules in the magazine are fed by the shutter individually. The capsule holding unit minimizes any vibration generated from the impact of the drop from the magazine. The capsule is then fed onto the weigh table.



**Every capsule in the system is monitored and tracked.
Three rejection gates remove all defective products.**



Note 1: After an alarm or system stop, capsules remaining in the weigh table and conveyor are forcibly discharged at the time of resuming system operation.

High precision weighing - made easy.

At a glance complete line monitoring.

Large touch panel and user-friendly display offer simplified operation.
Complete line status displayed on a single screen.

Large, intuitive touch screen GUI provides fast evaluation of production trends.

Displays histograms and trending information as well as underweight and overweight counts for each line, up to 10 lines at a time.



Designed within simplicity and safety in mind.

Tool-free parts removal

Tool-less changeover parts for capsules sizes 000 to 5.

Preventing changeover part errors

An alarm will alert the operator if a wrong or mismatched part is installed on the system.

Protection of weighcells

Overload protection mechanism protects the load cell from accidental overload during magazine changeover.

Quick and easy sensitivity confirmation

It only takes 30 seconds for the built-in weight check to verify weigh cell sensitivity. Time, effort and risk of making an error are greatly reduced compared to traditional verification procedures. Each weigh cell can be individually calibrated with the built-in weights.

Data security

Anritsu capsule checkweighers comply with FDA 21 CFR Part 11 standard for electronic records data compliance.



Changeover of magazine

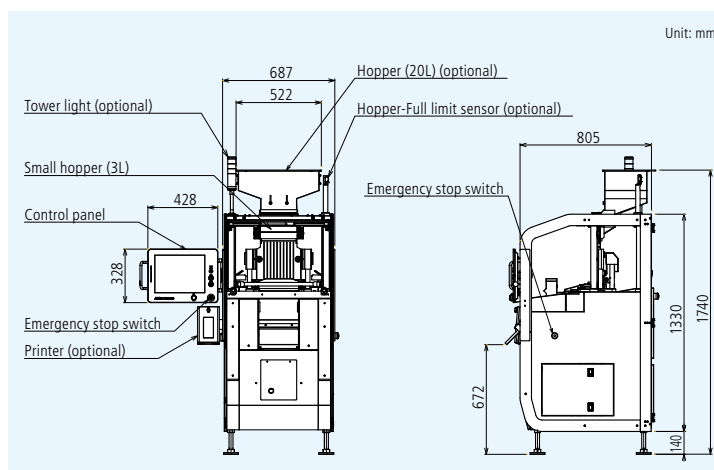


There are two built-in verification weights available, 500 and 2,000 mg. The weight closest to the capsules in upper and lower limit weight values should be used for proper calibration.

External Dimensions

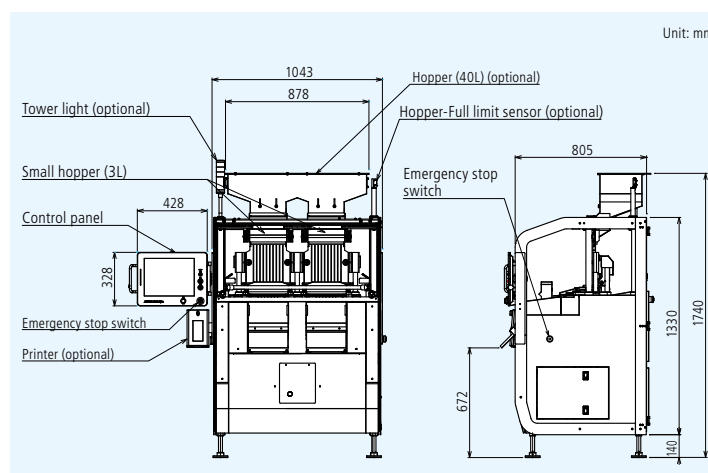
KWS9001AP10 (10 lanes)

Maximum throughput: 75,000 capsules/h



KWS9001AP20 (20 lanes)

Maximum throughput: 150,000 capsules/h



Specifications



Model	KWS9001AP10	KWS9001AP20
Weighing range	2 to 2000 mg	
Scale interval	0.1 mg	
Maximum throughput ¹	75,000 capsules/h	150,000 capsules/h
Lane	10 lanes	20 lanes
Maximum accuracy (3σ)	±0.5 mg	
Display	15-inch color LCD	
Operation method	Touch panel + Key (Start, Stop, and Home are direct push buttons)	
Indication range	2045.0 mg	
Preset memory	Maximum 50	
Classification ²	4 ways (overweight/correct weight/underweight/unclassified)	
Product size	Capsule No. 000 to 5	
Power requirements ³	100 Vac to 115 Vac +10% -15%, single phase, 50/60 Hz, rush current 74 A (typ) (90 ms or less)	
Power consumption	550 VA	1200 VA
Air requirements	0.3 to 0.9 MPa, Air supply port: nylon tube of 8 mm dia.	
Mass	350 kg	500 kg
Environmental conditions	15°C to 30°C (variation not to exceed 1°C/h to maintain accuracy), relative humidity 30% to 70% (non-condensing)	
Protection class	IP30 (IP50 for weighcell)	
Exterior	Stainless steel (SUS304)	
Data output	USB port (USB 2.0)	

1: Maximum throughput and maximum accuracy may vary depending on capsule size, filling content and quantity.

2: A rejection gate is installed per 10 lanes.

3: 120 Vac, 200 Vac to 240 Vac are available as an option.

Note: The noise level of the checkweigher is 78 dB(A) or less.

Pharmaceutical Quality Assurance based on GMP

We offer a wide range of inspection solutions including weight check, contaminant and shape detection for the pharmaceutical manufacturing and packaging process.

Filling control/Weight check

Seal/Missing tablet check



Tablets



Capsules



Sachets / Sticks



Tube



Bottles / Cans

Pharmaceutical
Metal Detector



Capsule Checkweigher



Built-In Multi-Lane
Weighing System



Multi-Lane
Checkweigher



Aerosol Inhaler
Checkweigher



Small Bottle
Checkweigher



*Non-conforming
to CE marking

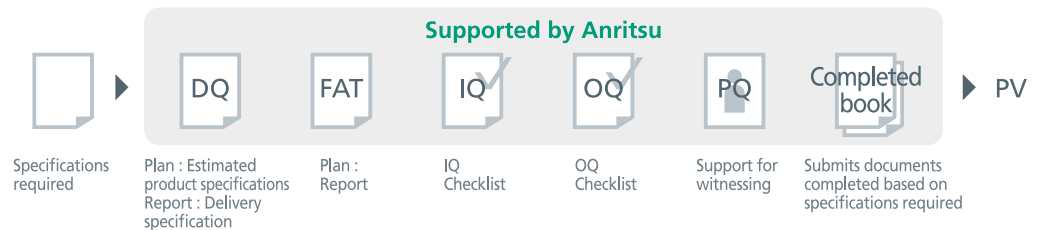
Pharmaceutical
X-ray Inspection
System



*Non-conforming to CE marking

Supporting CSV guidelines :
Validation support

Anritsu also provides IQ/OQ checklists and on-site support during PQ process.



Missing blister pack check



SSV-h Series Checkweigher conforming to CFR 21 Part 11



Missing insert check (magnetic ink)



Package Insert Inspection System



Missing pack check



SSV-h Series Checkweigher



Missing carton check



Case Checkweigher



Quicca Pharma

Total Quality Management and Control System for Pharmaceutical

Support making good use of data by various CFR 21 Part 11 complied functions.

Delivering Data Integrity as specified by CFR 21 Part 11 by utilizing the data from the machine connected to the network.

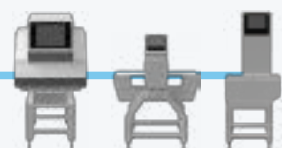
- **User Authorization**
Centralized managing all user information.
- **Audit Trail**
Records production operation, history of operation and result of operation check with list view style.
- **Production Analysis**
Monitors production progress and OEE (operating ratio, performance and quality) in real-time.
- **Data for quality**
Statistic data and individual data are recorded via Ethernet.



Displaying each data with different statistic method as your preference.

Ethernet << Inspection results

Various inspection machines





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ISO14001 CERTIFICATE No.JQA-EM0210
ISO 9001 CERTIFICATE No.JQA-0316

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- 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.

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