

Capsule Checkweigher



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

Industry's highest
weighing accuracy *
+/-0.5 mg

Maximum
processing speed
230,000
capsules/hour



* Based on our survey results.



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

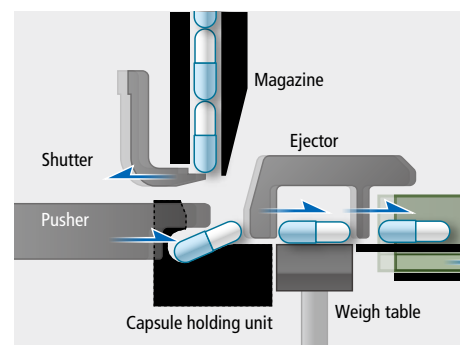
For over 50 years, Anritsu has proudly developed and manufactured load cells in-house.

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!

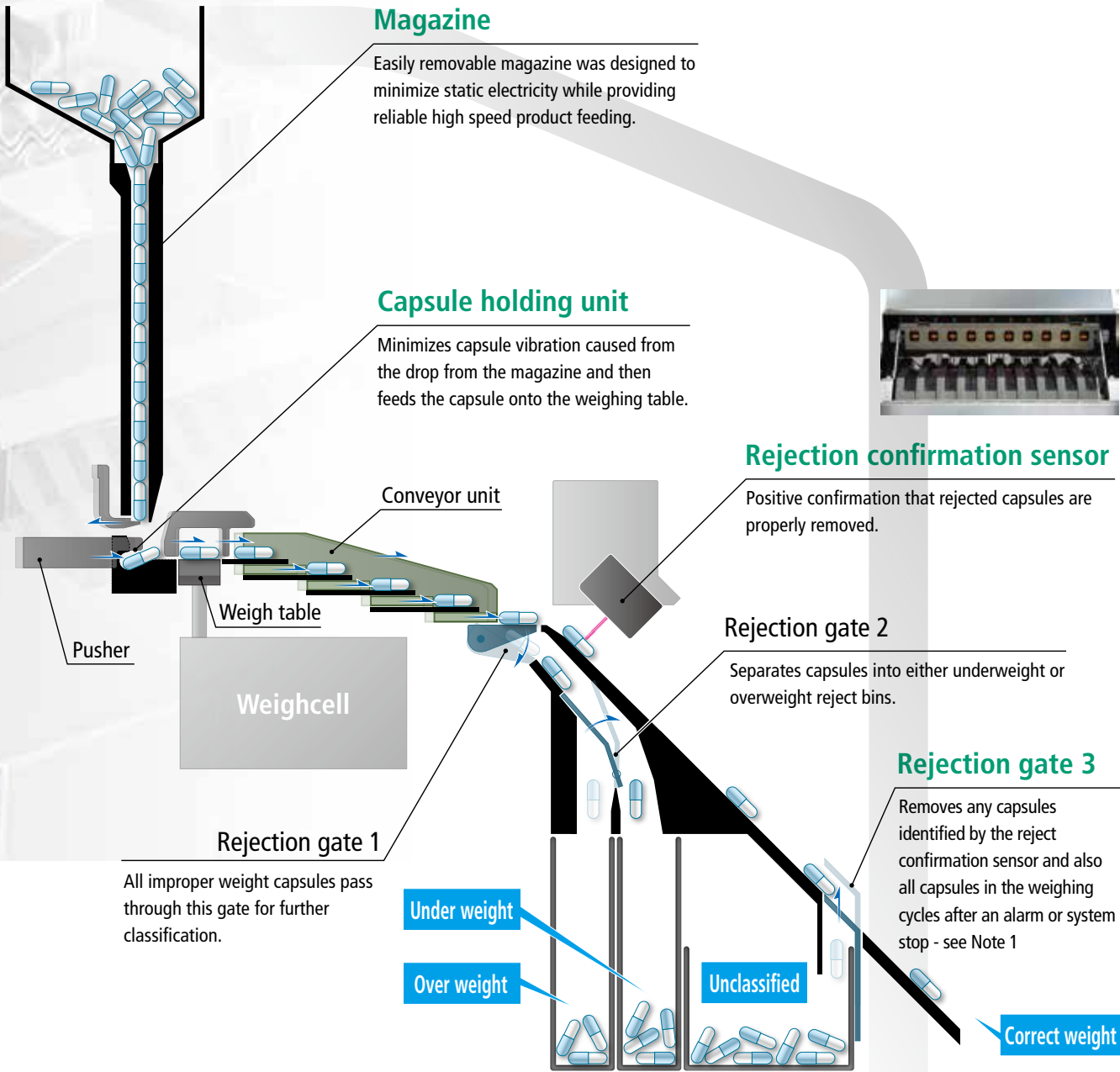
Our unique capsule handling technology eliminates empty capsules from bouncing and provides stable feeding throughout the inspection process. Minimizing product vibration is critical for high accuracy weighing. Accurately weighing empty capsules can also improve the reliability of clinical trials and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

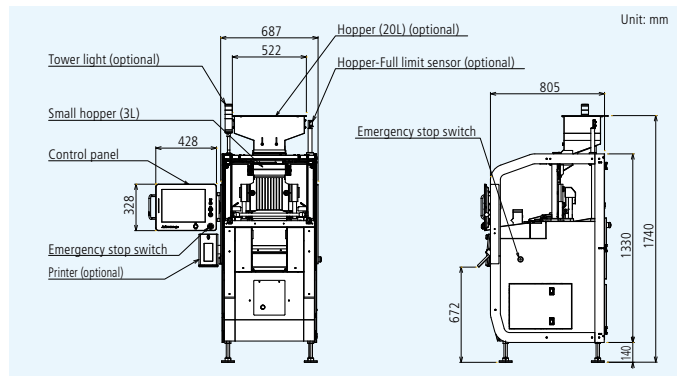


There are two built-in verification weights available, 500 and 2,000 mg. The weight closest to the capsules in upper and lower limit weight values should be used for proper calibration.

External Dimensions

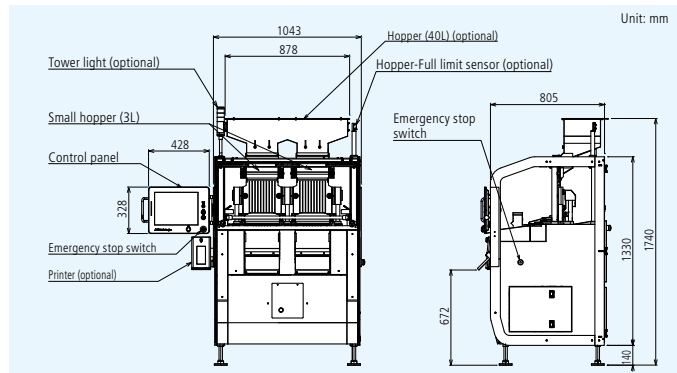
KWS9001AP10 (10 lanes)

Maximum throughput: 75,000 capsules/h



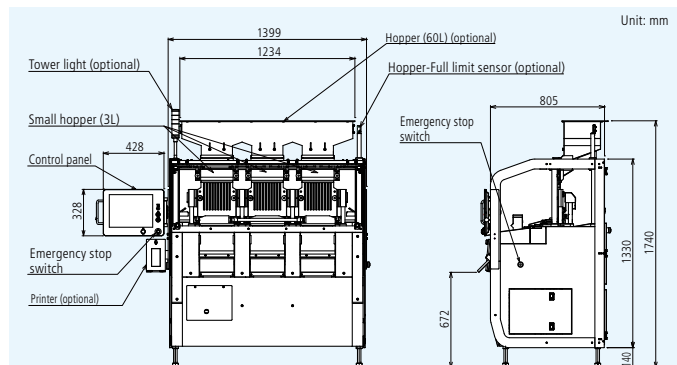
KWS9001AP20 (20 lanes)

Maximum throughput: 150,000 capsules/h



KWS9001AP30 (30 lanes)

Maximum throughput: 230,000 capsules/h



Specifications



Model	KWS9001AP10	KWS9001AP20	KWS9001AP30
Weighing range	2 to 2000 mg		
Scale interval	0.1 mg		
Maximum throughput ¹	75,000 capsules/h	150,000 capsules/h	230,000 capsules/h
Lane	10 lanes	20 lanes	30 lanes
Maximum accuracy ¹	+/-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	1800 VA
Air requirements	0.3 to 0.9 MPa, Air supply port: nylon tube of 8 mm dia.		
Mass	350 kg	500 kg	700 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

Tablets or Capsules Checkweigher



Capsule Checkweigher



Built-In Multi-Lane Weighing System



Multi-Lane Checkweigher



Aerosol Inhaler Checkweigher



Small Bottle Checkweigher



Pharmaceutical X-ray Inspection System



Missing blister pack check



Missing insert check (magnetic ink)



Missing pack check



Missing carton check



Supporting FDA 21 CFR Part 11,
SSV-h Series Checkweigher



SSV-h Series Checkweigher

M Series Metal Detector

Case Checkweigher





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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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