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

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 pre-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.
Magazine
Easily removable magazine was designed to minimize static electricity while providing reliable high speed product feeding.

Capsule holding unit
Minimizes capsule vibration caused from the drop from the magazine and then feeds the capsule onto the weighing table.

Conveyor unit

Rejection confirmation sensor
Positive confirmation that rejected capsules are properly removed.

Rejection gate 1
All improper weight capsules pass through this gate for further classification.

Rejection gate 2
Separates capsules into either underweight or overweight reject bins.

Rejection gate 3
Removes any capsules identified by the reject confirmation sensor and also all capsules in the weighing cycles after an alarm or system stop – see Note 1

Correct weight

Under weight

Over weight

Unclassified

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
External Dimensions

KWS9001AP10 (10 lanes)
Maximum throughput: 75,000 capsules/hour

KWS9001AP20 (20 lanes)
Maximum throughput: 150,000 capsules/hour

KWS9001AP30 (30 lanes)
Maximum throughput: 230,000 capsules/hour

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>KWS9001AP10</th>
<th>KWS9001AP20</th>
<th>KWS9001AP30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighing range</td>
<td>2mg to 2000mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scale interval</td>
<td>0.1mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum throughput</td>
<td>75,000 capsules/hour</td>
<td>150,000 capsules/hour</td>
<td>230,000 capsules/hour</td>
</tr>
<tr>
<td>Lane</td>
<td>10 lanes</td>
<td>20 lanes</td>
<td>30 lanes</td>
</tr>
<tr>
<td>Maximum accuracy</td>
<td>+/- 0.5 mg</td>
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</tr>
<tr>
<td>Display</td>
<td>15-inch color LCD</td>
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<tr>
<td>Operation method</td>
<td>Touch panel + Key (Start, Stop, and Home are direct push buttons)</td>
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<tr>
<td>Indication range</td>
<td>2045mg</td>
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<tr>
<td>Preset memory</td>
<td>Maximum 50</td>
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<tr>
<td>Classification</td>
<td>4 ways (overweight/correct weight/underweight/unclassified)</td>
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<tr>
<td>Product size</td>
<td>Capsule No. 000 to 5</td>
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<tr>
<td>Power requirements</td>
<td>100 to 115 Vac +10% -15%, single phase, 50/60 Hz, rush current 74A (typ) (90 ms or less)</td>
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<tr>
<td>Power consumption</td>
<td>550VA</td>
<td>1200VA</td>
<td>1800VA</td>
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<tr>
<td>Air requirements</td>
<td>0.3 to 0.9 Mpa, Air supply port: nylon tube of ø8mm</td>
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<tr>
<td>Mass</td>
<td>350kg</td>
<td>500kg</td>
<td>700kg</td>
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<tr>
<td>Environmental conditions</td>
<td>15 to 30 °C (variation not to exceed 1°C/h to maintain accuracy), relative humidity 30% to 70% (non-condensing)</td>
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<td>Protection class</td>
<td>2P30 (IP50 for weighcell)</td>
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<tr>
<td>Exterior</td>
<td>Stainless steel (SUS304)</td>
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<tr>
<td>Data output</td>
<td>USB port (USB 2.0)</td>
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</tr>
</tbody>
</table>

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 to 240 Vac are available as an option.
Note: The noise level of the checkweigher is 78dB(A) or less.