

# CWI

## CAPSULE WEIGHT INSPECTION MACHINE

INSPECTION



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## Engineering Excellence Man and Machine in Harmony

At Qualicaps®, we do our part to contribute to health and wellness on a worldwide scale through the manufacture and supply of two-piece capsules and pharmaceutical processing equipment. To support the needs of solid oral dosage from production, we offer a proprietary product line of capsule filling and sealing machines, weight and visual inspection machinery, as well as imprinting machines. Our equipment is suitable for manufacturing on integrated production lines and the company provides comprehensive solutions. All machines are specially designed to meet your unique production or research needs. Our research and development team is always innovating, developing faster, more reliable machinery to meet emerging needs in the pharmaceutical and nutritional markets. Qualicaps® equipment incorporates the best technology to help you successfully and easily manufacture your product.



Qualicaps® has developed easy-to-use, accurate machines to meet your needs for dosage weight inspection.

# CAPSULE WEIGHT INSPECTION MACHINE CWI

The CWI is a highly accurate capsule weight inspection machine. The machine weight checks by electromagnetic force compensation balance, which makes high measuring accuracy possible.



### Name of parts

- 1 Capsule hopper
- 2 Service hopper
- 3 Roller cavity
- 4 Spring chute
- 5 Transfer roller
- 6 Discharge chute
- 7 Electronic balance
- 8 Belt conveyor(Optional)

## Features

### 1. Weight checking by electromagnetic force balance

Weighing precision of  $\pm 2\text{mg}$  is accomplished with an electromagnetic balance measuring apparatus within 15 to 500 mg.



### 2. Automatic verification of an electromagnetic force balance is available

A capsule is weighed with an electromagnetic force balance and is then diverted to an analytical balance located within the machine. The computer then compares the weight measured by the electromagnetic force balance with the weight measured by the analytical balance. If the two weights are within programmed parameters, the machine continues to run. If an error is detected the machine will alarm and stop. It will do this for each channel on timed programmed intervals.



### 3. Defective capsules rejection system / Defective system discharge check device

There are two types of sensors in the reject system. The first sensor verifies the reject flap is open. The second sensor verifies the rejected capsule passed into the reject chute. If either sensor fails to operate properly the machine will alarm and stop. The conveyor will reverse and place all suspect capsules into a separate container for further processing.



#### 4. Prevention of unexpected discharge of defective capsules by setting up a belt conveyer

In case of the malfunction of the discharge flap, the belt rotates reversely and prevents defective capsules from being collected with non-defective capsules. (Optional extra)



#### 5. Operation touch panel

Non-defective capsules and defective capsules are counted correctly and displayed on the touch panel. The weight result is processed statistically (standard deviation, coefficient of variation, and mean) and displayed.



#### 6. Change parts installation is possible without tools

Change parts can be removed and replaced without tools to enable swift switching of lots. This allows for quick installation of change parts.



#### 7. CWI can inspect sealed capsules

The thickness of the seal part is located the edge of the scale pan to steady a capsule.



Conventional scale pan

Current scale pan

## Specification

Model	CWI-60	CWI-125	CWI-250
Sortingspeed	60,000 capsules	125,000 capsules	250,000 capsules
Hard Capsule size	00~5(6 columns)	00~5(12 columns)	00~5(12×2 columns)
Weighing range	15~1,000mg		
Weighing precision	±2 mg However,weighing precision is within 15 to 500 mg and ±3 mg for 501 to 1,000 mg.		
Electricity	3-phase 200 V ±10% 10A(1.0 kVA) 50/60 Hz		3-phase 200 V ±10% 15A(3.0 kVA)50/60 Hz
Compressed air	0.5MPa	0.1m <sup>3</sup> /min	0.5MPa 0.4m <sup>3</sup> /min
Dimensions	W825×D614×H1,987(mm)		W1,374×D614×H2,060(mm)
Weight	Approx.490 kg	Approx.540 kg	Approx. 800 kg
Inspection method	electromagnetic balance		
Noise	85dB(A) or less		

\*The above specifications and capacities are subject to change without notice for reasons that include technological improvement.

## Overall size

