

RoboCAP RL-300 Series Liquid Capsule Filler

Made in Canada 🇨🇦

This is your cost efficient CGMP Compliant liquid filling capsule machine. It's ideal for Clinical Trials and Small Scale Production.

RL-301 - 3,000 Caps/hr, **RL-302** - 6000 Caps/hr, **RL-303** - 8000 Caps/hr, **RL-304** - 11,000 Caps/hr



RoboCAP RL-304 Liquid Capsule Filler

The RoboCAP is a flexible system, which is capable of automatically filling liquids into capsules or vials as well as small container. It can also be used as a stand-alone, manual powder capsule filler.

Process Sequence

1. Capsule Orientation and Separation
2. Empty capsule body is placed onto the robotic units mounting fixture.
3. Empty capsule bodies are filled with liquid product by robot dispensing valve.
4. Manual capsule filler is removed from the robotic fixture.
5. The capsules are reassembled and locked into place.

Technical Specs

RL-300 Work Area (X x Y x Z):..... 300x300x100 mm
Tool Load: 5.0 Kg
Max Tool Speed (X&Y / Z):..... 500 / 300 mm/sec
Repeatability:..... +/- 0.01 mm/Axis
Resolution:..... 0.001 mm/Axis
Data Memory Capacity: 100 Programs
Points / Program: 4000 Points

Process Description

Product is forced from the 316L pressure tank, into the product line and to the product inlet of the 316L dispensing needle valve.
The Liquid dispensing controller sends a pulse of air to the inlet of the valve, which forces the piston back against the spring, therefore pulling the product plunger off of the seat. This allows the flow of product out of the dispensing nozzle. The valve dispenses product into the empty capsule body, with a fill weight tolerance of +/- 2%.
At the end of the cycle, the plunger is resealed stopping the product flow.

Drive System/Stepping Motor:..... 3 Phase Micro Stepper
Power Supply: 110V/220V
Current:..... 2.5mA
Dimensions: 485 x 500 x 590 mm
Net Weight: 45 Kg
Options:..... 2, 3, 5 & 10 Gallon Tanks

Also Available the RoboCAP RL-200 Series with a 200 mm work area - (RL-201-1 - 1,400 Caps/hr, RL-201 - 2,500 Caps/hr, RL-202 - 4,500 Caps/hr)

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