



電動缸 (伺服驅動)
 Electrical cylinder
 (Driven by servomotor)

7 吋彩色觸控人機
 7" Color touch screen (HMI)

自動升降充填機構
 Automatic lifting filling system

上下調整手輪 (充填管高度)
 & 位置顯示器
 Up / Down adjusting device
 (for filling nozzle)
 & Position indicator

活塞式定量缸
 (#316 不鏽鋼)
 Volumetric piston
 (#316 stainless steel)

瓶罐固定調整座
 (附雷射刻度)
 Adjustable bottle clamp
 with laser-engraving scale

FL-020P 半自動定量充填機 (活塞式)

Semi-automatic Volumetric Liquid Filling Machine (Piston type)

適用範圍

- 適用於各行業具流動性及無腐蝕性的液體。
- 適合要求充填高精準度的產品。
- 可設定連續充填以達到大容量範圍，大瓶小瓶一機搞定。

特色介紹

- 特別採用高階「電動缸」控制充填定量缸，充填速度可從人機畫面直接精準設定，取代傳統式氣缸，不必再手動費時調整。
- 充填系統採用「伺服馬達 & 活塞式定量缸」，充填精準度高。充填嘴伸入瓶內，以不同之充填速度進行三段式充填，液體高速充填時，不會噴濺至瓶外並降低液體起泡程度。
- 液體接觸面使用「316L 不鏽鋼、食品級矽膠軟管 / 鋼絲軟管、鐵氟龍」，衛生等級高。
- 日本三菱 PLC，搭配日本富士 7 吋彩色人機觸控螢幕，可直接輸入所需充填量，直覺式操作最方便。
- 使用者友善介面：快拆模組與多種免工具調整設計，換線快速。
- 內建 50 組記憶模組，適合生產多種產品，不需重覆設定。
- 兩種啟動模式：可任選「腳踏開關」或「電眼自動感應」啟動。

機台規格

機台尺寸	675(長) x 1130(寬) x 1994(高) mm
動力需求	電壓 220V，頻率 50/60Hz，單相 / 三相，視在功率 0.8KVA
需求空壓	5kg/cm ² 以上 (請自備空壓來源)
機台產能	約 6 ~ 12 瓶 / 每分鐘
充填範圍	200 ~ 1000 ml
充填精度	± 3g (以充填 1000g 清水為例)
選配項目	(1) 補料泵浦 (2) 100 公升料桶 (#316 不鏽鋼)

Field of Application

- Apply to various flowable and non-corrosive liquids.
- For products which need high filling precision.
- Continuous filling to reach larger volume for different volume of products.

Features

- Electrical cylinder controls volumetric piston and also replaces traditional air cylinder, so accurate filling speed can be set directly from touch screen. No more wasted time on adjusting air cylinder manually.
- Servomotor and piston type of filling system offer excellent filling precision. Filling nozzles enter into bottles with 3 stages of filling speed to prevent spraying out of bottle while filling and reduce foaming degree.
- Liquid contact parts made of 316L stainless steel, food grade silicone tube / wire hose, Teflon meet high sanitary demands.
- Japan Mitsubishi PLC and 7" color touch screen (HMI). Filling volume and filling time can be set from the screen conveniently.
- User-friendly interface: Quick changeover design helps most adjustments can be finished without using tools.
- 50 sets of memory storage: Perfect for various products without repeated setting.
- Two filling start-up modes: Foot switch or a Photoelectric sensor.

Specifications

Machine Dimension	675(L) x 1130(W) x 1994(H) mm
Power Requirement	220V, 50/60Hz, 1 or 3 Phase, 0.8KVA
Pneumatic Requirement	5kg/cm ² at least (prepared by buyer)
Production Capacity	About 6 ~ 12 PCS / per minute
Filling Range	200 ~ 1000 ml
Filling Precision	± 3 g (based on filling 1000g water)
Optional Item	(1) Liquid feeding pump (2) 100 L liquid tank (#316 stainless steel)