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## *Linear Bottle Unscrambler*

### 營業項目:

1. 理瓶機
2. 洗瓶機
3. 液體充填機
4. 鎖蓋機
5. 貼標機
6. 熱熔膠薄膜貼標洗瓶機
7. 套標機
8. 整廠規劃

### BUSINESS ITEMS:

1. Bottle Unscrambler
2. Bottle Rinsing Machine
3. Auto Filling Machine
4. Auto Capping Machine
5. Labeling Machine for Adhesive Labels
6. Roll-Fed Labeling Machine
7. Shrink Sleeve Labeler
8. Complete Line Solutions



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# KWT-101A

## Linear Bottle Unscrambler

KWT-101A is linear bottle unscrambling machines designed to provide oriented bottle to the production line, it is the perfect labor-saving equipment, no longer are employees required to manually sort bottles and stand them upright on a conveyor.

Randomly oriented bottles are received in bulk by the hopper and supplied to the centrifugal disc, the bottles are directed into the proper position suitable for the stand-up unit to process them into the required discharge position, bottles are stood upright before reaching the filling line.

Bottle unscrambler of KWT-101A series operates with great simplicity, efficiency and minimal maintenance, suitable for a wide variety of bottle shapes and sizes. They will satisfy the needs of most demanding customers.

## 直線式理瓶機

KWT-101A為直線式理瓶機，利用篩選機構將瓶子有規律、整齊地送到生產線上，此設備可節省人力成本，不需再使用人工排瓶於輸送帶上。儲瓶桶隨機將大量的瓶子送至離心式圓盤，圓盤順向輸出空瓶，有效防止空瓶表面刮傷或卡瓶，利用篩選機構將瓶子呈現同一方向，整齊排列站立到充填線。KWT-101A系列理瓶機操作簡易，提高生產效率，低保養成本，適用於各種瓶型和尺寸，符合各產業自動化需求。



## FEATURES 特性

- Sturdy mechanical construction, coating frame and safety cover.
- SUS 304 stainless steel for bottle contacts.
- PLC controlled with touch screen panel, easy access to all settings.
- Memory capacity for 20 job settings.
- Bottle orientating assembly is accurate and user friendly.
- Bottles are discharged upright and properly arranged onto existing conveyor.
- All of the motor speed settings, machine feature selections and timing settings are accessible through the operator's HMI panel.

- 堅固的機械設計，機台結構為黑鐵烤漆，並加安全外罩。
- 瓶子接觸面為不銹鋼 SUS 304。
- PLC 控制系統，搭配人機顯示介面，容易操作各設定值。
- 備有 20 組記憶區，能夠迅速更換產品。
- 精確的瓶子選向機構，容易調整。
- 確保瓶子可筆直送出，且適當安排於既有輸送帶。
- 馬達速度設定、機台功能選擇和時間設定都可透過人機介面調整。

## TECHNICAL DATA 機械規格

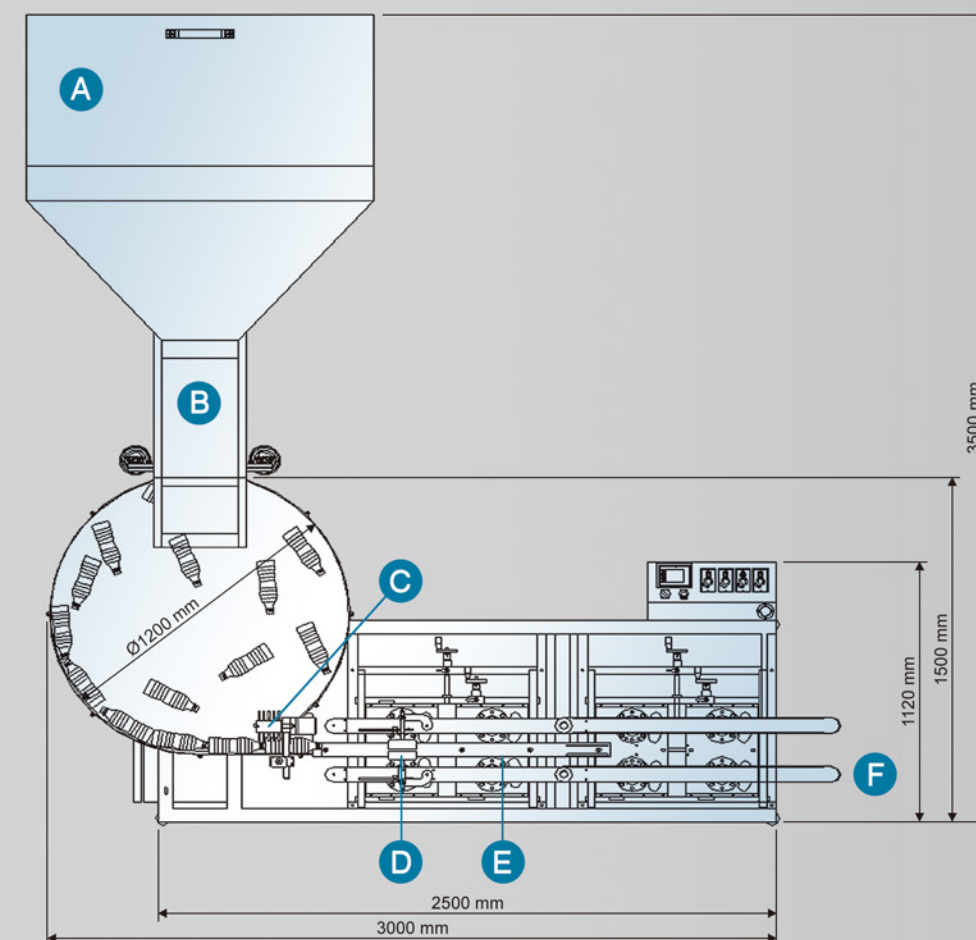
Capacity	產能	60 - 80 BPM
Bottle Diameter	瓶子直徑	50 - 130 mm
Bottle Height	瓶子高度	50 - 300 mm
Machine Dimension	機械尺寸	L. 3000 mm x W. 1500 mm x H. 3500 mm
Power Consumption	動力消耗量	6 KW
Air Consumption	空氣消耗量	18.85 L/min
Power Supply	電源	220V, 50/60Hz, 1 Phase

## PERFORMANCE 運作步驟



Bottle are loaded into the **Hopper A**, and supplied to the centrifugal disc through an **Elevator B**. In the disc, bottles are directed into the orientation area by bottle **Presorter C**. Bottles are delivered one by one, and the **Bottle Orientating Hook D** grab the neck of the bottles for correcting position. After that, the **Roller E** guide the bottle to suit for stand-up unit to process them into the required discharge position, bottle are stabilized and released on the **Bottle Exit Conveyor F**.

將空瓶置入**儲瓶桶 A**，利用**送瓶輸送帶 B**將瓶子送入離心式轉盤，**篩選機構 C**將瓶子整列後，排成一  
直線，陸續送往轉向導引機構，將不同方向的瓶子利用**選向勾 D**進行瓶子方向選向，經過**壓瓶滾輪 E**，  
使瓶子呈現同一角度並整齊地朝前行進，以利**出瓶導引輸送帶 F**將瓶子帶出送至生產線。



## MACHINE DETAIL 機台細部圖片



### ● Hopper 儲瓶桶

The hopper is designed with swing-open doors and windows for easy loading and viewing. Can be supplied in a variety of capacities and dimensions.

儲瓶桶附有可開式的門和窗戶，可輕易倒入瓶子並查看內部狀況。儲瓶桶的容量可根據需求數量和瓶子尺寸設計。



### ● Elevator 送瓶輸送帶

The conveyor elevator efficiently delivers bottles to the centrifugal disc.

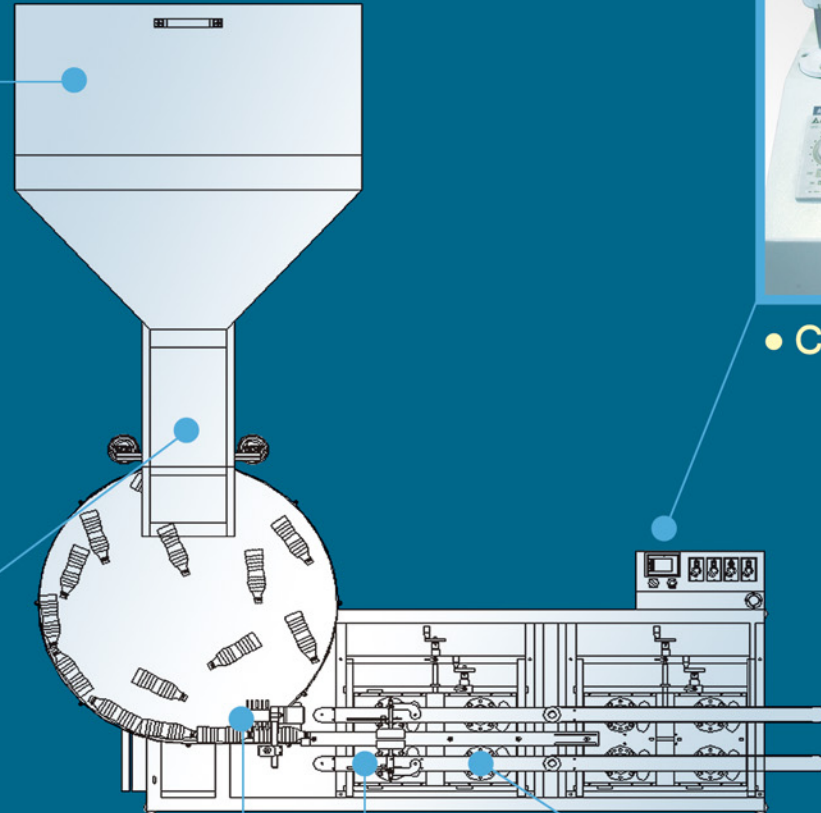
送瓶輸送帶有效地將瓶子送入離心式轉盤。



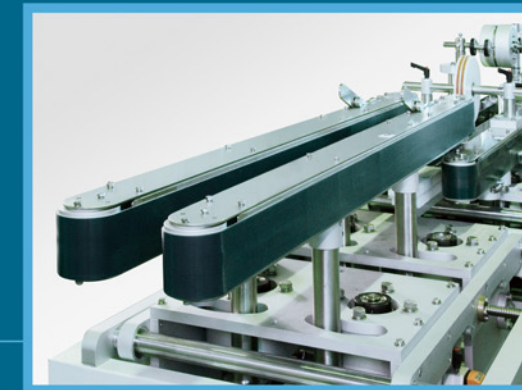
### ● Presorter 篩選機構

Bottles are positioned single file into the bottle orientating area.

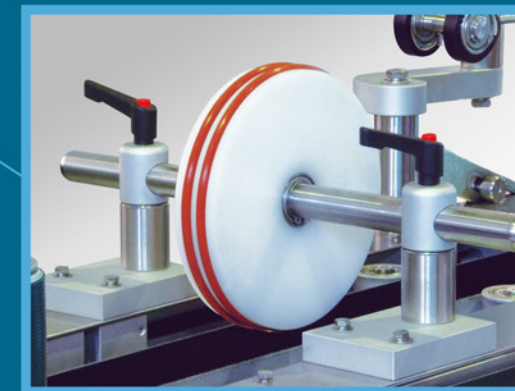
篩選機構將瓶子整列整齊，排成一直線進入轉向導引機構。



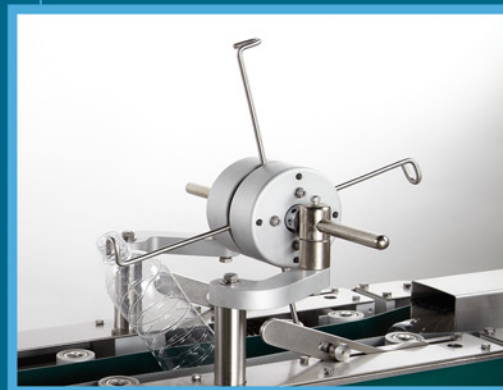
### ● Control Panel 操作箱



### ● Bottle Exit Conveyor 出瓶導引輸送帶



### ● Roller 壓瓶滾輪



### ● Bottle Orientating Hook 選向勾

The system is designed to orientate bottles. 採用選向勾將瓶子導引成正確的出瓶方向。