

# PET

雙軸延伸拉吹機  
Stretch Blow Moulding Machine

**L series**  
Fully Electric and  
Continuous Heating  
System

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# PET 雙軸延伸拉吹機

## Stretch Blow Moulding Machine

### Features

#### Feeding System

- Top-mounted unscrambler for saving space
- Multiple protection devices for precise preform feeding and ejecting unqualified preforms
- Continuous preform feeding system ( Same as CHUM POWER Rotary technology)

#### Transfer System

- Compact preform-chain pitch design for efficient heating and reduce energy consumption
- Horizontal rotation transfer system to eliminate preform flipping

#### Heating System

- Easy access for oven maintenance and lamp changing
- Cooling ramps throughout for maximum preform neck protection
- Excellent ventilation system to ensure cool preform surface
- Infrared heat sensor for preform temperature monitoring

#### Transfer and Variable Pitch System

- Servo driven preform transfer system with grips assembly mounted on timing belt
- Servo driven Variable Pitch System for quick transfer and precise preform locating

#### Blowing and Clamping System

- Servo driven clamping system with synchronized base mold operation

#### Pressure/ Blowing System

- Precision electromagnetic valves for fast responding time and high volume production

#### Control System

- Touch-panel control system for simple operation
- 10.4" LCD touch screen with 64k colors

#### Others

- Fully electric mechanism to ensure high-speed operation and precise locating
- Design for quick mold change
- Low energy consumption , low wear , low pollution



## L Series

### Fully Electric and Continuous Heating System

### 特點

#### 入胚系統

- 整列機固定於機台上減少機台配置空間。
- 入胚系統有多重安全保護裝置，確保入胚確實和不良胚無法進入機台。
- 使用連續入胚系統。

#### 公轉系統

- 有效縮短加熱間距，減少能耗並提高加熱效率。
- 水平配置，瓶胚無翻轉、結構簡單。

#### 加熱系統

- 換燈管時，加熱箱能於機台上直接翻轉維修。
- 加熱箱水道直接貫穿，保護牙口。
- 優化的抽風系統使瓶胚表面冷卻。
- 瓶胚溫度檢測功能。

#### 移位及變節距系統

- 移位採用伺服馬達，且夾爪固定於時規皮帶上。
- 採用變導程螺桿與伺服驅動確保高速運轉和精確定位。

#### 拉吹及成型系統

- 成型組採用伺服驅動並與底模結構連動。

#### 氣壓/吹氣系統

- 採用高速精密吹氣閥組的搭配，能達到高產能要求。

#### 電控系統

- 人機介面控制系統，操作簡單
- 10.4吋圖形觸控式顯示器，顯示器為64K顏色。

#### 其他

- 全電式連動結構，確保機台高速運轉與精確定位。
- 採用快速換模結構。
- 低耗能，低磨耗，低污染。





# PET 雙軸延伸拉吹機

## Stretch Blow Moulding Machine



- 1 Feeding System  
入胚系統
- 2 Transfer System  
公轉系統
- 3 Heating System  
加熱系統
- 4 Transfer and Variable Pitch System  
移位及變節距系統
- 5 Blowing and Clamping System  
拉吹及成型系統

### L series can provide the bottles for :

Water, CSD, Juice, Teas,  
Alcohol drinks, Oils, Sauces,  
Ketchup, Cosmetics.



## L Series

### Fully Electric and Continuous Heating System



全電式高速吹瓶機適用範圍：  
水瓶、油瓶、藥瓶、果汁、茶飲、  
調味罐、碳酸飲料、化妝品瓶...等包裝充填容器。



|                              |   |                           | UNIT               | CPSB-L1G  | CPSB-LS2G   | CPSB-LL4     | CPSB-LS6      | CPSB-LS6H     | CPSB-LSS8     | CPSB-LS8     | CPSB-LS9     | CPSB-LSS12   | CPSB-LSS12H | CPSB-LS12     | CPSB-LS14     | CPSB-LSS16    |
|------------------------------|---|---------------------------|--------------------|---|-------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|-------------|---------------|---------------|---------------|
| 成形組規格<br>MOLDING             | 合模力   | Clamping force            | kg                 | 64000   | 64000       | 72000        | 64000         | 64000         | 64000         | 72000        | 72000        | 72000        | 7200        | 140000        | 140000        | 140000        |
|                              | 模具行程  | Clamping stroke           | mm                 | 380   | 280         | 205          | 130           | 130           | 110           | 130          | 110          | 110          | 110         | 130           | 130           | 130           |
|                              | 拉伸行程  | Stretch rod stroke        | mm                 | 500   | 480         | 350          | 350           | 350           | 350           | 350          | 350          | 350          | 350         | 360           | 350           | 350           |
|                              | 底模行程  | Base mold stroke          | mm                 | 50  | 50          | 50           | 50            | 50            | 50            | 50           | 50           | 50           | 50          | 50            | 50            | 50            |
|                              | 瓶子間距  | Cavity pitch              | mm                 | -   | 280         | 240          | 114.3         | 114.3         | 76.2          | 120          | 106          | 80           | 80          | 120           | 106           | 80            |
|                              | 模穴數   | Number of cavity          | cavities           | 1   | 2           | 4            | 6             | 6             | 8             | 8            | 9            | 12           | 12          | 12            | 14            | 16            |
|                              | 加熱間距  | Spindle chain pitch       | mm                 | 90  | 90          | 76           | 50            | 50            | 38            | 50           | 38           | 38           | 38          | 50            | 38            | 38            |
| 瓶型規格<br>CONTAINER            | 瓶子最大容量  | Max. capacity             | ltr                | 12-20   | 4-12        | 6            | 2             | 1             | 0.6           | 2            | 1.5          | 0.6          | 0.6         | 2             | 1.5           | 0.6           |
|                              | 牙部內徑尺寸  | Neck inner diameter       | mm                 | MAX 72  | MAX 72      | MAX 55       | MAX 38        | MAX 38        | MAX 30/25     | MAX 38       | MAX 30/25    | MAX 30/25    | MAX 30/25   | MAX 38        | MAX 30/25     | MAX 30/25     |
|                              | 牙部高度尺寸  | Neck height               | mm                 |   |             |              |               |               |               |              |              |              |             |               |               |               |
|                              | 支撐環外徑   | Support-ring diameter     | mm                 |   |             |              |               |               |               |              |              |              |             |               |               |               |
|                              | 最大瓶胚高度  | Preform height            | mm                 | 450   | 350         | 50-150       | 50-150        | 50-150        | 50-100        | 50-150       | 50-150       | 50-100       | 50-100      | 50-150        | 50-150        | 50-100        |
|                              | 最大瓶身直徑  | Max. diameter             | mm                 | 340   | 240         | 180          | 105           | 85            | 68            | 110          | 95           | 70           | 70          | 110           | 95            | 70            |
|                              | 最大瓶身高度  | Max. height               | mm                 | 500   | 450         | 350          | 350           | 350           | 240           | 350          | 350          | 240          | 240         | 350           | 350           | 350           |
| ※ 理論產能                       | THEORETICAL OUTPUT  | B.P.H                     | 900 (12L)          | 1800 (12L)  | 4000 (5L)   | 10200 (0.6L) | 6000 (0.5L)   | 13600 (0.6L)  | 12000 (0.6L)  | 13500 (0.6L) | 18000 (0.6L) | 11800 (0.5L) | 18000(0.6L) | 21000 (0.6L)  | 24000(0.6L)   |               |
| 電力規格<br>ELECTRICAL<br>SYSTEM | 加熱箱數量   | Number of oven            | units              | 6   | 6           | 8            | 6             | 6             | 6             | 8            | 8            | 8            | 8           | 10            | 10            | 10            |
|                              | 燈管數量  | Number of lamp            | pcs                | 96  | 96          | 80           | 54            | 54            | 36            | 72           | 72           | 48           | 48          | 90            | 90            | 60            |
|                              | 額定電量  | Total installed power     | KW                 | 110   | 110         | 224          | 152           | 154           | 109           | 202          | 202          | 146          | 146         | 259.7         | 262           | 155           |
|                              | 加熱功率  | Max. heating power        | KW                 | 96  | 96          | 204          | 138           | 138           | 93            | 184          | 184          | 124          | 124         | 230           | 240           | 140           |
|                              | 電壓  | Power supply              | -                  | 3P4W 400V+6%-10% 50/60Hz  |             |              |               |               |               |              |              |              |             |               |               |               |
| 空壓規格<br>AIR SYSTEM           | 耗電量   | Power consumption         | KW                 | -   | -           | 102 (5L)     | 38 (0.6L)     | 34 (0.6)      | 39 (0.6L)     | 44.2 (0.6L)  | 38 (0.6L)    | 50.4 (0.6L)  | 67.6 (0.5L) | 66.3(0.6L)    | 67.2 (0.6L)   | 67.2(0.6L)    |
|                              | 操作壓力  | Operating pressure        | kg/cm <sup>2</sup> | 7   | 7           | 7            | 7             | 7             | 7             | 7            | 7            | 7            | 7           | 7             | 7             | 7             |
|                              | 低壓耗氣量   | Low pressure consumption  | L/min              | 1000  | 1000        | 1000         | 1000          | 1000          | 1000          | 1000         | 1000         | 1000         | 1000        | 1000          | 1000          | 1000          |
|                              | 吹瓶壓力  | Blowing pressure          | kg/cm <sup>2</sup> | 35  | 35          | 35           | 35            | 35            | 35            | 35           | 35           | 35           | 35          | 35            | 35            | 35            |
| 冷凍水規格<br>CHILLED<br>WATER    | 高壓耗氣量   | High pressure consumption | L/min              | 6700  | 13200       | 13300        | 10900         | 14000         | 9500          | 13200        | 14800        | 13700        | 28500       | 18400         | 23150         | 16800         |
|                              | 操作壓力  | Operating pressure        | kg/cm <sup>2</sup> | 4   | 4           | 4            | 4             | -             | 4             | 4            | 4            | 4            | -           | 4             | 4             | 4             |
|                              | 溫度範圍  | Temperature range         | °C                 | 10-12   | 10-12       | 10-12        | 10-12         | -             | 10-12         | 10-12        | 10-12        | 10-12        | -           | 10~12         | 10-12         | 10-12         |
|                              | 消耗量   | Consumption               | kcal/hr            | 22682   | 22682       | 30242        | 33048         | -             | 33048         | 30242        | 38880        | 30242        | -           | 38880         | 38880         | 38880         |
| 模溫規格<br>TEMP.<br>CONTROLLER  | 流量  | Flow rate                 | L/min              | 100   | 100         | 100          | 160           | -             | 160           | 160          | 160          | 160          | -           | 160           | 160           | 160           |
|                              | 溫度範圍  | Temperature range         | °C                 | -   | -           | -            | -             | 60-180        | -             | -            | -            | -            | 60-180      | -             | -             | -             |
|                              | 功率  | Power                     | kw                 | -   | -           | -            | -             | 24            | -             | -            | -            | -            | 48          | -             | -             | -             |
| 冷卻水規格<br>COOLING<br>WATER    | 控制點   | Control                   | -                  | -   | -           | -            | 18            | -             | -             | -            | -            | -            | 36          | -             | -             | -             |
|                              | 操作壓力  | Operating pressure        | kg/cm <sup>2</sup> | 4   | 4           | 4            | 4             | 4             | 4             | 4            | 4            | 4            | 4           | 4             | 4             | 4             |
|                              | 溫度範圍  | Temperature range         | °C                 | 25  | 25          | 25           | 25            | 25            | 25            | 25           | 25           | 25           | 25          | 25            | 25            | 25            |
|                              | 消耗量   | Consumption               | kcal/hr            | 78000   | 78000       | 104000       | 78000         | 78000         | 78000         | 104000       | 104000       | 104000       | 104000      | 130000        | 130000        | 130000        |
| 機台規格<br>MACHINE              | 流量  | Flow rate                 | L/min              | 260   | 260         | 260          | 260           | 260           | 260           | 260          | 260          | 260          | 260         | 260           | 260           | 260           |
|                              | 機台尺寸  | Size (L x W x H)          | meter              | 5 x 4 x 3.7   | 5 x 4 x 3.7 | 7 x 2 x 3.5  | 5.8 x 2 x 3.5 | 5.8 x 2 x 3.5 | 5.8 x 2 x 3.5 | 7 x 2 x 3.5  | 7 x 2 x 3.5  | 7 x 2 x 3.5  | 7 x 2 x 3.5 | 9.5 x 4 x 3.5 | 9.9 x 2 x 4.2 | 9.7 x 2 x 4.2 |
| 備註<br>REMARK                 | 機台重量  | Weight                    | kg                 | 12000   | 12000       | 12000        | 9000          | 9000          | 9000          | 12000        | 12000        | 12000        | 12000       | 18000         | 20000         | 20000         |
|                              | ※ 1. 模具壁厚不得小於7mm，若小於7mm必須使用不銹鋼材質模具。<br>※ 2. 最終產能須依據瓶胚、瓶型而定。<br>※ 3. 規格有變更，恕不另行通知。 |                           |                    | 1. If mold thickness is less than 7mm, it is required to be made in stainless steel.<br>2. The actual output depends on the preform quality and bottle shape.<br>3. Specification are subject to change without notice. |             |              |               |               |               |              |              |              |             |               |               |               |