

# Link You To The Hybrid Technology



## HB Series

*HYBRID DRIVE  
INJECTION MOLDING MACHINE*



# 油電複合動力科技

新昌億創新的「油電複合動力科技」

不只是改變原有的製造概念，更加提升成品量產的綜合效益，同時也滿足客戶對成品精準度、生產效率、製程中的穩定以及綠能效益之關鍵訴求。

## 特點 Features

- 1** 射出單元全電驅動，座台線軌帶動，擁有先進的機器配置以及引人注目的外觀。

Built up with All-electric injection unit & linear guided injection carriage, state-of-the-art machine configuration and attractive appearance.

- 2** 射出動作以伺服馬達驅動滾珠螺桿取代傳統蓄壓器，射速高達330 mm/sec，位置精度0.01。締造完美射出再現性，動作切換過程相對穩定、安靜、省電。

Servo-electric injection driven with ball screw to replace conventional accumulative system. Injection speed up to 330 mm/sec, position accuracy 0.01 can be easily achieved.

- 3** 儲料計量單元採用伺服馬達驅動，搭配loadcell不斷追蹤與調整壓力，極致精準的射出保壓與儲料背壓，成就完美的成品重複精度。

Servo-electric metering unit equipped with the loadcell, continuously adapts to precise injection, holding pressure & back pressure and carries out ultimate product consistency.

**170HB**  
Series



ALL ELECTRIC INJECTION



PRODUCTION-EFFICIENT



PRECISE



STEADY



ENERGY-EFFICIENT



## Oil-Electric Hybrid Drive Technology

SCY's innovative Hybrid Drive technology can change your manufacturing concept, by improving your productive synergy while precision, steadiness, production efficiency and energy efficiency are all maintained.

**4** 儲料與開模動作同步，有效地縮短成型時間，提升產能。

Parallel motion of material charge during mold open for optimized cycle time and productive output.

**5** 採用數位通訊CAN-EtherCAT架構的控制器，不僅操作靈巧，運算速度飛快且安全。

Use of digitally communicated CAN-EtherCAT based controller, operating smartly, fast and secure.

**6** 全程運作無需使用冷卻水，內建氣冷式冷卻器足以提供機器所需冷卻。

No additional cooling agent is required. The machine has a built-in air cooler strong enough to cool down the machine.



12" Touch Panel

搭載12吋LED觸控螢幕與按鍵面板，支援26個語種。耗電量自動演算，便於標示碳足跡。

12 inch LED touch panel controller supports 26 languages. Auto calculation of power consumption makes it easy to identify the carbon footprint of each production piece.

Ethernet

CANopen

EtherCAT



Sandal

Servo Hydraulic System

Servo Electric System



Main Axis

Refilling Axis

Injection Axis

# HB Series

| 機 型 MODEL<br>項 目 ITEM                     |         | 50HB        |      |      | 100HB           |      |      | 140HB           |      |      | 170HB         |      |      | 210HB         |      |      | 250HB           |      |      |
|-------------------------------------------|---------|-------------|------|------|-----------------|------|------|-----------------|------|------|---------------|------|------|---------------|------|------|-----------------|------|------|
|                                           |         | A           | B    | C    | A               | B    | C    | A               | B    | C    | A             | B    | C    | A             | B    | C    | A               | B    | C    |
| 射出系統 Injection Unit                       |         |             |      |      |                 |      |      |                 |      |      |               |      |      |               |      |      |                 |      |      |
| 螺桿直徑<br>Screw Diameter                    | mm      | 18          | 20   | 22   | 20              | 22   | 25   | 28              | 32   | 36   | 32            | 36   | 40   | 36            | 40   | 45   | 40              | 45   | 50   |
| 理論射出容積<br>Theoretical Shot Volume         | cm³     | 21          | 28   | 38   | 28              | 38   | 55   | 78              | 116  | 165  | 116           | 165  | 226  | 165           | 226  | 322  | 226             | 322  | 442  |
| 射出重量 (PP)<br>Shot Weight of Injection(PP) | g       | 19          | 25   | 34   | 25              | 34   | 50   | 70              | 104  | 148  | 104           | 148  | 203  | 148           | 203  | 290  | 203             | 290  | 397  |
| 射出行程<br>Injection Stroke                  | mm      | 90          | 100  | 110  | 100             | 110  | 125  | 140             | 160  | 180  | 160           | 180  | 200  | 180           | 200  | 225  | 200             | 225  | 250  |
| 射出壓力<br>Injection Pressure                | kg/cm²  | 2800        | 2268 | 1874 | 2800            | 2314 | 1792 | 2800            | 2144 | 1694 | 2700          | 2133 | 1728 | 2500          | 2025 | 1600 | 2500            | 1975 | 1600 |
| 射出效率<br>Injection Rate                    | cm³/sec | 84          | 104  | 125  | 104             | 125  | 162  | 203             | 265  | 336  | 265           | 336  | 415  | 270           | 333  | 421  | 333             | 421  | 520  |
| 射出速度<br>Injection Speed                   | mm/sec  | 330         |      |      | 330             |      |      | 330             |      |      | 330           |      |      | 265           |      |      | 265             |      |      |
| 螺桿轉速<br>Screw Rotation Speed              | rpm     | 330         |      |      | 330             |      |      | 330             |      |      | 330           |      |      | 330           |      |      | 330             |      |      |
| 鎖模系統 Mold Clamping Unit                   |         |             |      |      |                 |      |      |                 |      |      |               |      |      |               |      |      |                 |      |      |
| 鎖模力<br>Mold Clamping Force                | ton     | 50          |      |      | 100             |      |      | 140             |      |      | 170           |      |      | 210           |      |      | 250             |      |      |
| 開模行程<br>Mold Opening Stroke               | mm      | 215         |      |      | 300             |      |      | 345             |      |      | 420           |      |      | 490           |      |      | 540             |      |      |
| 模板間最大距離<br>Max Daylight                   | mm      | 535         |      |      | 660             |      |      | 795             |      |      | 940           |      |      | 1040          |      |      | 1120            |      |      |
| 導柱內距(寬×高)<br>Space Between Tie Rods(H×V)  | mm      | 314 x 238   |      |      | 360 x 360       |      |      | 410 x 410       |      |      | 460 x 460     |      |      | 510 x 510     |      |      | 555 x 555       |      |      |
| 模板尺寸(寬×高)<br>Platen Dimension(H×V)        | mm      | 470 x 405   |      |      | 530 x 530       |      |      | 600 x 600       |      |      | 670 x 670     |      |      | 750 x 750     |      |      | 820 x 820       |      |      |
| 容模厚度<br>Mold Thickness                    | mm      | 100 - 320   |      |      | 120 - 360       |      |      | 130 - 450       |      |      | 160 - 520     |      |      | 180 - 550     |      |      | 200 - 580       |      |      |
| 頂出力<br>Ejector Force                      | ton     | 3           |      |      | 3               |      |      | 4               |      |      | 4             |      |      | 5             |      |      | 5               |      |      |
| 頂出行程<br>Ejector Stroke                    | mm      | 60          |      |      | 70              |      |      | 90              |      |      | 115           |      |      | 130           |      |      | 145             |      |      |
| 動力系統 Power System                         |         |             |      |      |                 |      |      |                 |      |      |               |      |      |               |      |      |                 |      |      |
| 電熱<br>Heater                              | kw      | 5           |      |      | 6               |      |      | 7               |      |      | 8             |      |      | 11            |      |      | 14              |      |      |
| 溫控段數<br>Temperature Zone                  | zone    | 3           |      |      | 4               |      |      | 4               |      |      | 4             |      |      | 5             |      |      | 5               |      |      |
| 油箱容積<br>Oil Tank Capacity                 | l       | 120         |      |      | 160             |      |      | 180             |      |      | 200           |      |      | 220           |      |      | 220             |      |      |
| 機械尺寸(長×寬×高)<br>Machine Dimension          | m       | 4 x 1 x 1.7 |      |      | 4.5 x 1.1 x 1.8 |      |      | 5.2 x 1.1 x 1.9 |      |      | 5.5 x 1.2 x 2 |      |      | 6.2 x 1.4 x 2 |      |      | 6.4 x 1.6 x 2.1 |      |      |
| 機械重量<br>Machine Weight                    | ton     | 3           |      |      | 4               |      |      | 5               |      |      | 6.5           |      |      | 7.5           |      |      | 9               |      |      |

射出重量以聚丙烯(PP)比重0.9計算，電力來源220伏特，60赫茲交流電。  
保壓壓力約為最高射壓的70%。  
規格表與機台顏色如因研發而更動，恕不另行通知。

Shot weight is based on polypropylene(PP) at gravity of 0.9 with power source 220V, 60HZ.  
Specification or color of machine is subject to change without prior notice.  
Holding pressure id about 70% of the maximum injection pressure



新昌億機器廠有限公司  
SHIN CHANG YIE MACHINE WORKS CO., LTD.

守億企業股份有限公司  
HSOU YIE ENTERPRISE CO., LTD.

70949台南市安南區府安路六段103巷60號  
No. 60, Ln. 103, Sec. 6, Fu An Rd., Annan Dist., Tainan City 70949, Taiwan  
886-6-258-1286 886-6-258-1141 sales@scylnj.com



uCloud