

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

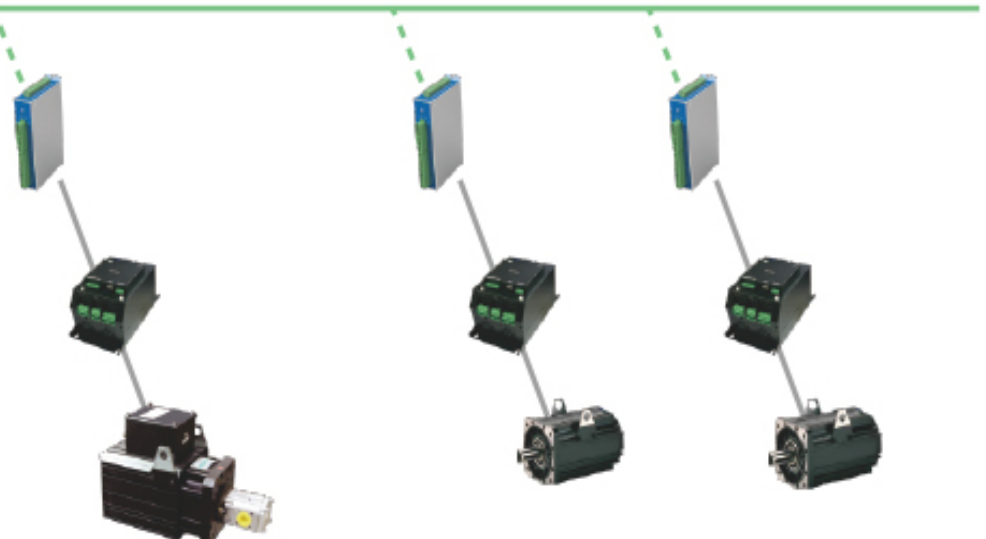
EtherCAT



Sanda

Servo Hydraulic System

Servo Electric System



Main Axis

Refilling Axis

Injection Axis

HB Series

機 型 MODEL 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 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 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) 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 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 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 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 Injection Speed	mm/sec	330			330			330			330			265			265		
螺桿轉速 Screw Rotation Speed	rpm	330			330			330			330			330			330		
鎖模系統 Mold Clamping Unit																			
鎖模力 Mold Clamping Force	ton	50			100			140			170			210			250		
開模行程 Mold Opening Stroke	mm	215			300			345			420			490			540		
模板間最大距離 Max Daylight	mm	535			660			795			940			1040			1120		
導柱內距(寬×高) 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) 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 Mold Thickness	mm	100 - 320			120 - 360			130 - 450			160 - 520			180 - 550			200 - 580		
頂出力 Ejector Force	ton	3			3			4			4			5			5		
頂出行程 Ejector Stroke	mm	60			70			90			115			130			145		
動力系統 Power System																			
電熱 Heater	kw	5			6			7			8			11			14		
溫控段數 Temperature Zone	zone	3			4			4			4			5			5		
油箱容積 Oil Tank Capacity	l	120			160			180			200			220			220		
機械尺寸(長×寬×高) 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 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



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