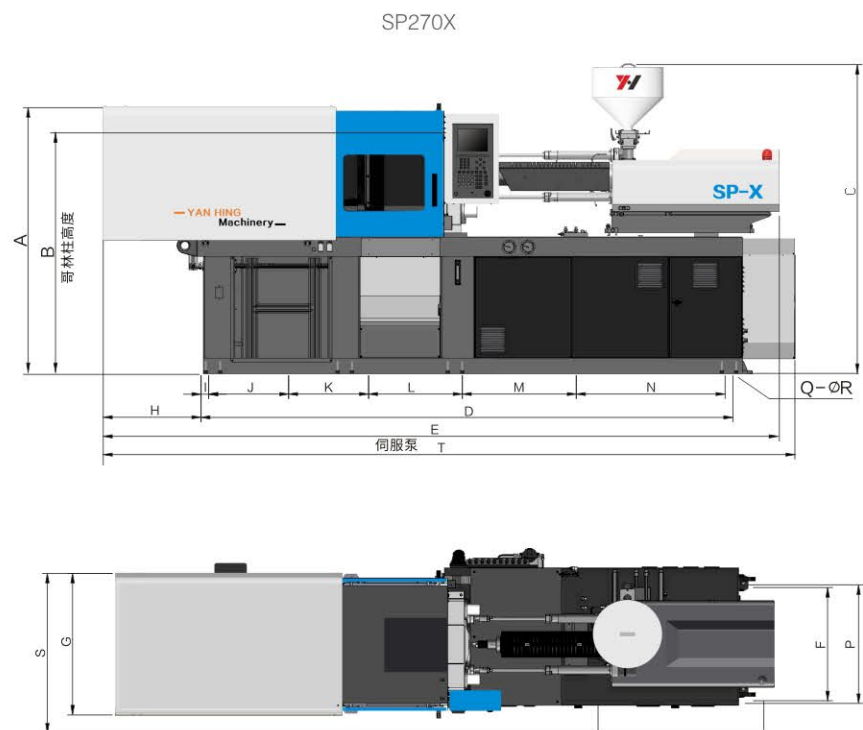
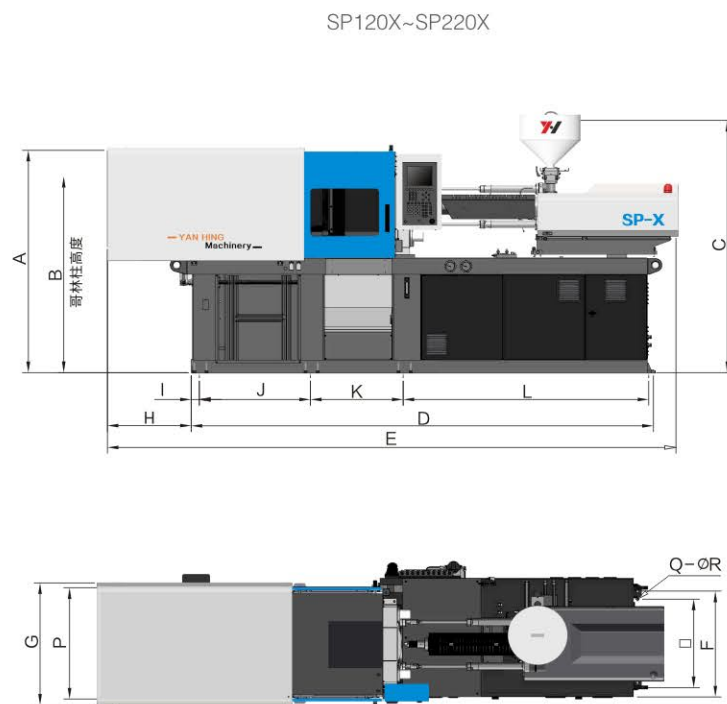


SP-X 高效伺服泵注塑機系列

SP-X EFFICIENT SERVO HYDRAULIC TOGGLE
INJECTION MOULDING MACHINE SERIES



機身尺寸 Machine Dimension



機型	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q-ΦR	S	
SP120X	1717	1522.5	1994	3787	4633	850	974	626	61	900	850	1946	--	--	652	900	8-Φ20	--	
SP180X	1814	1607.5	2069	4177	5169	900	1028	682	66	950	950	2181	--	--	770	950	8-Φ20	--	
SP220X	1870	1655	2172	4755	5816	1010	1125	742	68	1200	1400	2057	--	--	870	1060	8-Φ20	--	
SP270X	1934	1711	2219.5	4992	6107.5	1000	1250	875	73	750	750	880	1070	1396	--	1060	12-Φ22	1410	

注：C--料門高度僅供參考

標準配置

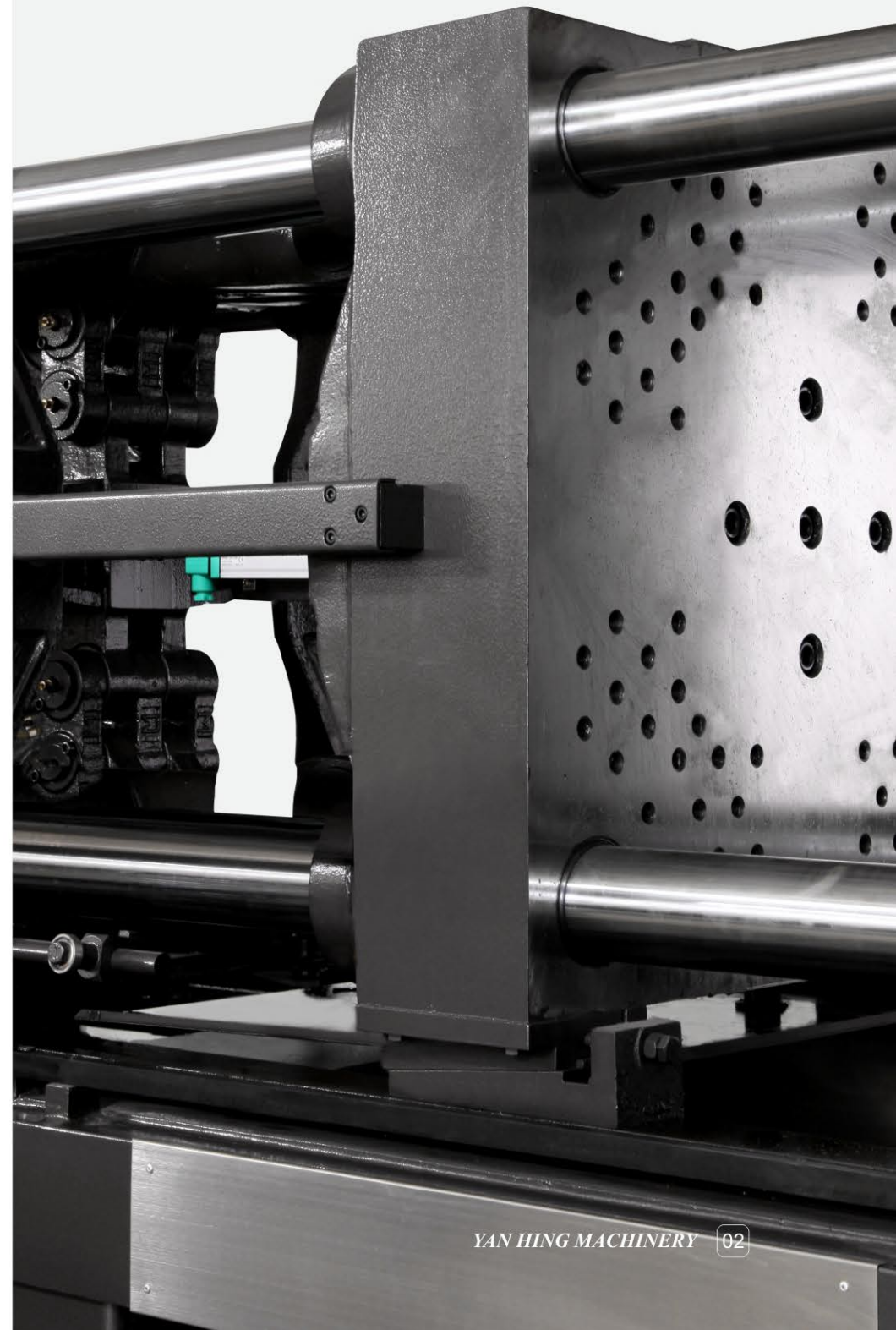
Injection Unit

鎖模部分

- 差動鎖模控制
- 綫性電位尺控制開合模及頂針動作
- 模具低壓保護
- 紅外線電眼控制周期
- 調模行程限位裝置
- 4級鎖模壓力及速度獨立控制
- 4級開模壓力及速度獨立控制
- 不退式，震動或多次液壓頂出功能
- 更換模具時，可以選擇慢速開鎖模動作程式
- 安全模塊與安全閥配合確保鎖模安全
- 自動調模功能
- 容積式分配，自動潤滑裝置及控制程式

Clamping Unit

- Differential hydraulic circuit design
- Precise potentiometers for controlling clamping and ejector position
- Low pressure mould protection
- Infrared photo-cell detector for cycling
- Mould height adjustment limit switch device
- 4 stage independent clamping pressure & speed control
- 4 stage independent mould opening pressure & speed control
- Selection of non-return, vibration or multi-stroke ejection
- Slow mould opening and clamping allowed during mould set-up
- Use of hydraulic safety valve with electrical safety module ensures safety.
- Automatic mould height adjustment device
- Automatic lubrication device with allocation





注射部分

- 兩組移臺油缸裝置
- 鍍硬鉻氮化螺桿，氮化料筒
- 綫性電位尺控制注射動作
- 熔膠缺料報警
- 熔膠轉速顯示
- 熔膠背壓裝置
- 移動式卸料門裝置
- 防冷起動螺桿保護
- 時間或位置保壓切換
- 自動清洗料筒程序
- 自動計算熔膠行程
- 熔膠前或熔膠後抽膠選擇
- 六級射膠壓力及速度獨立控制
- 圖形顯示射膠壓力及速度設定數值
- “U”型支架注射結構
- 16安培單相三腳插座

Injection Unit

- Double hydraulic carriage cylinders device
- Nitrided and chromium plated screw & barrel
- Precise potentiometer for injection control
- Empty hopper warning
- Screw rotation display
- Digitized plasticizing back pressure control
- Moveable hopper
- Screw cold start protection device
- Holding pressure stage transition by time or position
- Automatic purging device
- Plasticizing stroke calculation
- The screw decompression can be activated either before or after the plasticizing process.
- 6 stage independent injection speed and pressure control
- Graphic display of injection pressure and speed setting
- U shaped injection structure support
- 16 Ampere single phase (220v) electrical socket receptacle

控制部分

- 采用PID程式，配合固态继电器控制温度,精度达到 $\pm 1^{\circ}\text{C}$ 。
- 8"彩色液晶显示器
- 通过SD记忆卡存取模具资料、运行结果、警报资料以及更新画面程序
- 设有多层级密码保护，防止资料被更改
- 备有200套数据储存记忆及配置外界记忆卡存取功能。
- 21种语言显示选择。
- 内置储能射胶，两组独立抽芯或螺旋脱牙，六组吹风，封胶针，
- 电眼控制自动循环以及机械手程式。
- 产品数据统计及自动监控功能
- 保温设定及预设时间开关电热功能，节省等待加热的时间及节能
- 完善的警报及提示功能，给维护和操作提供了方便
- 显示界面系统规范及友好，便于操作。
- 主要控制元件采用进口品牌，保证控制的精度、稳定性及可靠性。
- 规范的接地联线及漏电开关确保操作人员安全。

Control Unit

- Heater circuit that consists of built-in PID temperature control program and solid state relays.
- Provides precision as high as $\pm 1^{\circ}\text{C}$.
- 8 inches coloured LCD monitor
- Injection, moulding and warning data can be saved in SD memory card.
- Multi-level password protection、prevents data be mistakenly changed
- Memory storage of 200 moulding data sets (External SD memory card is allowed more data storages)
- Choice of language display including Chinese、English、Thai、Vietnamese, etc up to 21 languages
- Built-in sequence accumulator, 2 sets of core pulling/unscrewing device, 6 sets of air ejectors, photo cell detector and extractor
- Operation parameters analysis and automatic malfunction monitoring function
- Timer control for heater circuit saves waiting time and energy.
- Warning signal and reminder allow ease operation.
- User friendly monitor system
- Imported control parts ensure precision, stability and reliability.
- Effective ground circuit and leakage breaker can ensure operator's safety.

備選配置

Optional Features

鎖模部分

- T形槽模板
- 2~3組抽芯裝置
- 1~4組吹風裝置
- 非標直徑模具定位環
- 電動/液動脫牙裝置
- 電動調模裝置
- 隔熱板
- 容模量擴展
- 冷却水流量計
- 2組模溫控制

Clamping Unit

- T-slot platen
- 2-3 sets of core pulling device
- 1-4 sets of blowing device
- Non-standard diameter mould positioning ring
- Electrical and hydraulic unscrew device
- Electrical mould adjusting device
- Insulation board
- Mould height increase
- Cooling water flow meter
- 2 sets of thermo control device

注射部分

- 射咀伸出碼模面高度：70，100，130，160mm（即加長：40，70，100，130mm射咀）
- 高響應止逆3件（過膠圈旋轉）
- 指定塑料的螺杆組件
- 氣動單向射咀
- 液壓單向射咀
- 彈簧射咀
- 溫控區域增加段數
- 陶瓷加熱圈
- 高溫加熱圈（最大500℃）

Injection Unit

- Nozzle extrude height from fixed platen: 70, 100, 130, 160mm
- 3 piece high responsive screw head (rotational check ring)
- Specific screw module for different plastic materials
- Pneumatic single direction nozzle
- Hydraulic single direction nozzle
- Spring nozzle
- Increase number injection phases
- Ceramic heating ring
- High temperature heating ring (max. 500°C)



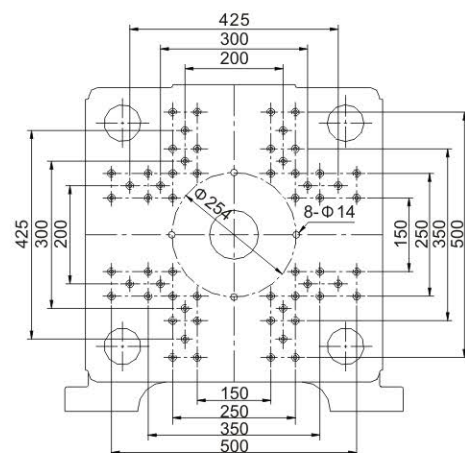
控制部分及其他

- 動力系統加大（1~2級）
- 16A單相插座
- 16A三相五孔防水插座
- 32A三相五孔防水插座
- AC380V/50Hz以外電壓等級供配電
- 3~4組吹風程序
- 油溫檢測功能
- 工具箱（扳手、六角扳手、螺絲刀）

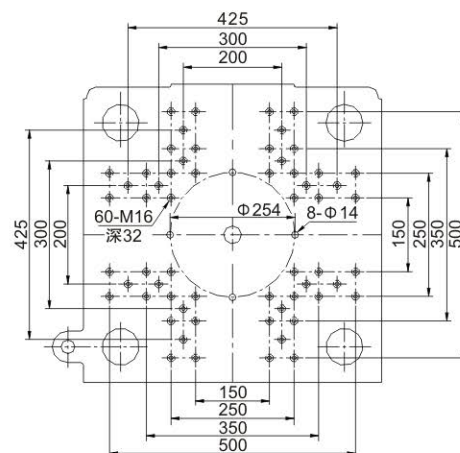
Control Unit and Others

- Increased power system (1~2 levels)
- 16A single phase socket
- 16A 3-phase waterproof socket
- 32A 3-phase waterproof socket
- Other power source option
- 3~4 sets of blower procedure
- Oil temperature sensing function
- Toolbox (wrench and screwdriver)

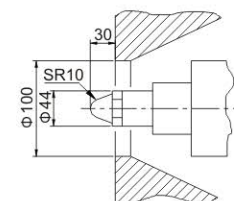
SP120X 模板外形尺寸 (SP120X Platen Size)



固定模板
Fixed Platen

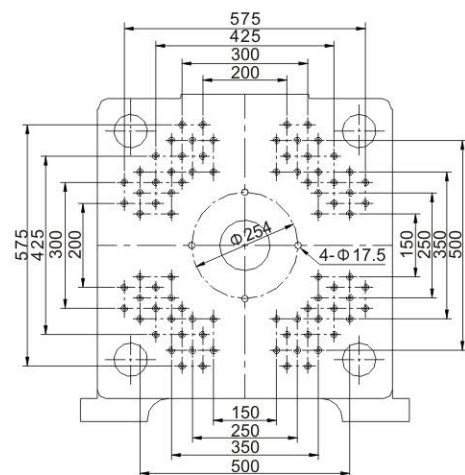


移動模板
Moveable Platen

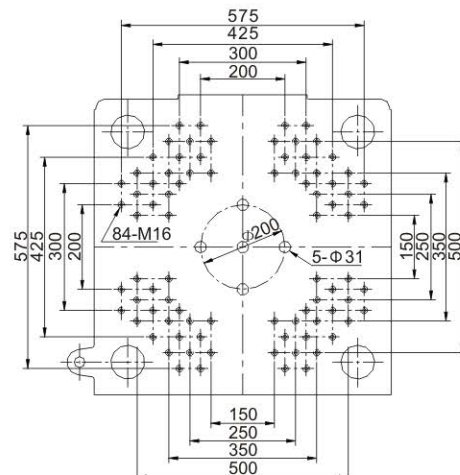


射咀與模板關係尺寸
Nozzle Size for Platen

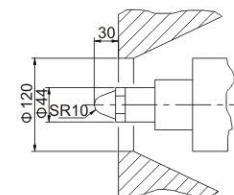
SP180X 模板尺寸 (SP180X Platen Size)



固定模板
Fixed Platen

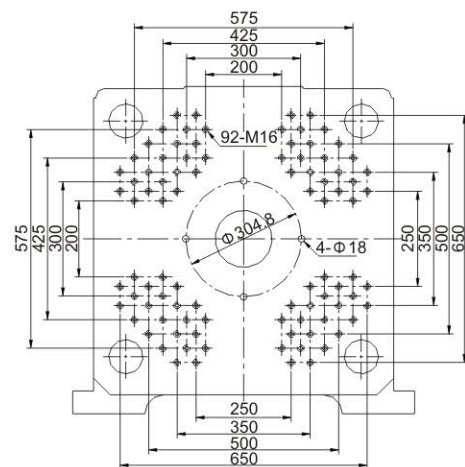


移動模板
Moveable Platen

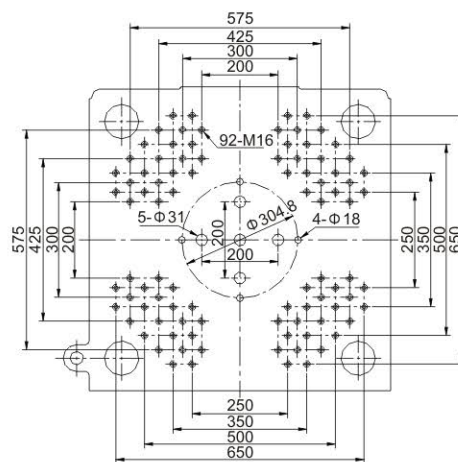


射咀與模板關係尺寸
Nozzle Size for Platen

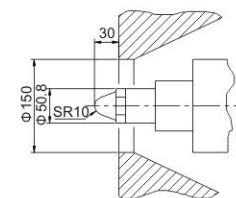
SP220X 模板尺寸 (SP220X Platen Size)



固定模板
Fixed Platen

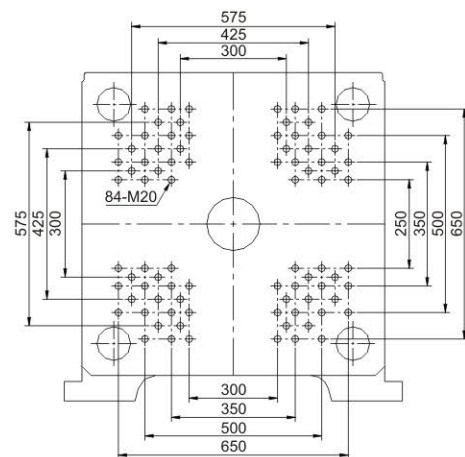


移動模板
Moveable Platen

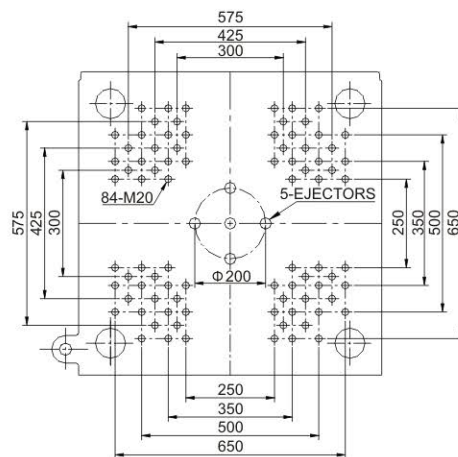


射咀與模板關係尺寸
Nozzle Size for Platen

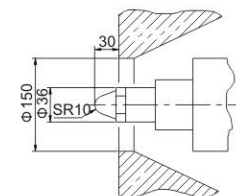
SP270X 模板尺寸 (SP270X Platen Size)



固定模板
Fixed Platen



移動模板
Moveable Platen



射咀與模板關係尺寸
Nozzle Size for Platen

SP-X 高效伺服泵注塑機系列

	項目	單位	SP120X			SP180X			SP220X			SP270X		
注射部份	國際標準型號		430/120			789/180			789/220			1109/270		
	射臺型號		430			790			790			1100		
	螺桿編號		A	B	C	A	B	C	A	B	C	A	B	C
	螺桿直徑	mm	40	45	50	45	50	55	45	50	55	50	55	60
	螺桿長徑比	L:D	22.5	20.0	18.0	22.2	20.0	18.2	22.2	20.0	18.2	22.0	20.0	18.3
	注射壓力	kg/cm2	2015	1592	1290	2276	1843	1523	2276	1843	1523	2189	1809	1520
	注射重量 (PS)	g	180	228	281	292	360	436	292	360	436	426	516	614
		oz	6.4	8.0	9.9	10.3	12.7	15.4	10.3	12.7	15.4	15.1	18.2	21.7
	最高注射率	cc/sec	103	130	160	114	141	170	149	184	223	155	188	224
	理論注射容積	cc	214	270	334	347	428	518	347	428	518	507	613	729
	注射行程	mm	170	170	170	218	218	218	218	218	218	258	258	258
	塑化能力 (PS)	kg/h	54	74	94	64	82	106	84	107	139	92	121	154
	塑化能力 (PS)	g/sec	14.9	20.5	26.1	17.8	22.7	29.6	23.3	29.7	38.7	25.7	33.5	42.7
	螺桿轉速	r.p.m	175	175	175	152	152	152	199	199	199	172	172	172
	射咀接觸力	Tons	3.5	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	射臺行程	mm	250	250	250	320	320	320	320	320	320	432	432	432
鎖模部份	料鬥容積	L	45			60			70			70		
	鎖模系統類別		五點式機鉸			五點式機鉸			五點式機鉸			五點式機鉸		
	鎖模力	Tons	120			180			220			270		
	鎖模行程	mm	360			415			480			525		
	模板最大開距	mm	770			870			1000			1105		
	容模厚度 (小機: 最小模厚)	mm	127-410			150-455			200-520			250-580		
	四柱內距 (水平 x 垂直)	mm	420 x 420			460 x 460			530 x 530			580 x 580		
	模板尺寸 (水平 x 垂直)	mm	645 x 635			704 x 706			790 x 790			856 x 856		
	模具定位孔直徑	mm	Φ100H8			Φ120H8			Φ150H8			Φ150H8		
	頂針力	ton	3.1			5.3			5.3			6.2		
	頂針行程	mm	90			106			116			130		
	頂針數量	pcs	1			5			5			5		
其他	系統壓力	kg/cm2	160			160			160			160		
	油泵電機功率	kW	14			18			23			23		
	電熱功率	kW	5.90			8.40			9.20			14.00		
	溫度控制區	區段	2+1			3+1			3+1			3+1		
	總用電量	kW	19.9			26.4			32.2			37.0		
	電源需求	A	36			48			59			66		
	油箱容積	L	230			300			350			460		
	機器重量	Tons	4.1			5.3			7.0			9.1		
	外形尺寸(LxWxH)	MxMxM	4.64 x 0.99 x 1.7			5.17 x 1.03 x 1.8			6.08 x 1.12 x 1.87			6.3 x 1.4 x 1.9		

◆ 本公司可隨時修改以上規格而無須預先通知。

SP-X Efficient Servo Hydraulic Toggle Injection Moulding Machine Series

	Project	Unit	SP120X			SP180X			SP220X			SP270X		
INJECTION UNIT	International standard model		430/120			789/180			789/220			1109/270		
	Injection Unit		430			790			790			1100		
	Screw Type		A	B	C	A	B	C	A	B	C	A	B	C
	Screw Diameter	mm	40	45	50	45	50	55	45	50	55	50	55	60
	Screw L:D Ratio	L:D	22.5	20.0	18.0	22.2	20.0	18.2	22.2	20.0	18.2	22.0	20.0	18.3
	Specific Injection Pressure	kg/cm2	2015	1592	1290	2276	1843	1523	2276	1843	1523	2189	1809	1520
	Shot Weight (PS)	g	180	228	281	292	360	436	292	360	436	426	516	614
		oz	6.4	8.0	9.9	10.3	12.7	15.4	10.3	12.7	15.4	15.1	18.2	21.7
	Injection Rate	cc/sec	103	130	160	114	141	170	149	184	223	155	188	224
	Swept Volume	cc	214	270	334	347	428	518	347	428	518	507	613	729
	Screw Stroke	mm	170	170	170	218	218	218	218	218	218	258	258	258
	Plasticizing Capacity (PS)	kg/h	54	74	94	64	82	106	84	107	139	92	121	154
	Plasticizing Capacity (PS)	g/sec	14.9	20.5	26.1	17.8	22.7	29.6	23.3	29.7	38.7	25.7	33.5	42.7
	Screw Speed	r.p.m	175	175	175	152	152	152	199	199	199	172	172	172
	Nozzle Sealing Force	Tons	3.5	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	Injection Stroke	mm	250	250	250	320	320	320	320	320	320	432	432	432
	Hopper Volume	L	45			60			70			70		
CLAMPING UNIT	Clamping Type		Five-Point Vertical Double Toggles			Five-Point Vertical Double Toggles			Five-Point Vertical Double Toggles			Five-Point Vertical Double Toggles		
	Clamping Force	Tons	120			180			220			270		
	Opening Stroke	mm	360			415			480			525		
	Max Daylight Opening	mm	770			870			1000			1105		
	Mould Height (Min-Max)	mm	127-410			150-455			200-520			250-580		
	Space Between Tie-bars (WxH)	mm	420 x 420			460 x 460			530 x 530			580 x 580		
	Platen Dimension (WxH)	mm	645 x 635			704 x 706			790 x 790			856 x 856		
	Mould Locator Diameter	mm	Φ100H8			Φ120H8			Φ150H8			Φ150H8		
	Ejector Force	ton	3.1			5.3			5.3			6.2		
	Ejector Stroke	mm	90			106			116			130		
	No. of Ejectors	pcs	1			5			5			5		
OTHERS	System Pressure	kg/cm2	160			160			160			160		
	Electric Motor Power	kW	14			18			23			23		
	Heating Power	kW	5.90			8.40			9.20			14.00		
	Temperature Control Zones	區段	2+1			3+1			3+1			3+1		
	Gross Power Consumption	kW	19.9			26.4			32.2			37.0		
	Electricity Required	A	36			48			59			66		
	Oil Tank Capacity	L	230			300			350			460		
	Machine Weight	Tons	4.1			5.3			7.0			9.1		
	Machine Dimensions (LxWxH)	MxMxM	4.64 x 0.99 x 1.7			5.17 x 1.03 x 1.8			6.08 x 1.12 x 1.87			6.3 x 1.4 x 1.9		

◆ The above specifications can be altered without prior notice.

仁興機器廠有限公司 (香港總部)

地址: 香港九龍觀塘開源道62號駝漆大廈第2座5字樓A&B室

電話: 852-2389 1338 傳真: 852-2797 8661

郵箱: info@yanhing.com

仁興機械(佛山)有限公司 (佛山高明工廠)

地址: 廣東省佛山市高明區楊和鎮高明大道中人景路13號

電話: 0757-8880 3372 傳真: 0757-8880 3329

www.yanhing.com

www.prowin.com.hk

Yan Hing Engineering Works Ltd.

Add: Flat A & B, 5/F., Block 2, Camelpaint Buildings,
62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

Tel: 852-23891338 Fax: 852-27978661

E-mail: info@yanhing.com

Yan Hing Machinery(Foshan)Co., Ltd.

Add: 13 Renjing Rd., Yanghe Town, Gaoming District,
Foshan City, P.R. China.

Tel: 0757-8880 3372 Fax: 0757-8880 3329



官方微信公众号