

# SM Series

## 直壓臥式系列

### Direct Hydraulic Horizontal Injection Molding Machines.

#### 直壓合模系統 DIRECT HYDRAULIC CLAMPING UNIT

獨立開模及射出油壓迴路  
Independent hydraulic circuits for clamping and injection  
寬柱間距及長射出行程，適用特殊模具  
Wider distance between tie bars and longer ejector stroke add flexibility to tooling design  
直壓合模機構，機械磨損率低  
Direct hydraulic clamping unit is designed to withstand mechanical wearing  
副缸結構，快速充油起壓，縮短成型周期  
High speed mold closing driven by jack cylinders to reduce cycle time

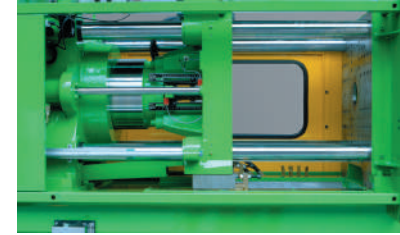
可選購採用全閉環迴路的高速射出裝置  
Optional high-speed injection unit utilizing closed-loop system.



SM-200T

#### 塑化射出系統 PLASTICIZING INJECTION UNIT

多種螺桿尺寸供不同需求使用  
Various screw sizes are available to meet different processing needs  
適當螺桿長徑及壓縮比例以達到最佳塑化效果  
Optimum screw L/D ratio attains excellent plasticizing effect  
全閉環 / ACC 高速射出 (300 mm - 1000 mm)  
Closed loop / ACC high injection speed (300 mm - 1000 mm)



動模形變極低的直壓鎖模結構，材質為高剛性之球墨鑄件  
Zero deformation on moving platen driven by a direct hydraulic clamp cylinder. Made of superior performance casting steel

#### 電控系統 CONTROL UNIT

穩定、多功能、模組化可程式控制器，維修簡易  
Equipped with stable, functional and modular Programmable Logic Controller (PLC). Ease of maintenance  
程式軟體提供快速成型條件設定  
User-friendly software enables quick and easy molding setup

#### 規格 Specifications

型號 MODEL		單位 UNIT	SM-10T	SM-20T	SM-50T	SM-90T	SM-120T	SM-150T	SM-200T	SM-250T	SM-300T	SM-430T	SM-550T																
TYPE			A			B			C			D			E			F			G			H			I		
射出裝置 INJECTION UNIT	螺桿直徑 Screw diameter	mm	∅16 ∅18 ∅20	∅18 ∅22 ∅25	∅22 ∅25 ∅20	∅25 ∅30 ∅35	∅30 ∅35 ∅40	∅35 ∅40 ∅45	∅40 ∅45 ∅50	∅50 ∅55 ∅60	∅55 ∅60 ∅65	∅60 ∅65 ∅70	∅70 ∅75 ∅80																
	理論射出容量 Theoretical injection volume	cm <sup>3</sup>	16 20 25	25.5 38 49	45 58 25	68 98 134	113 154 201	173 226 286	276 350 432	540 653 777	712 848 995	919 1078 1250	1443 1656 1885																
	射出重量 Injection capacity(PS)	g	14.5 18.2 22.7	23 35 45	41 53 22.7	62 89 122	103 141 184	158 207 262	252 320 395	494 597 711	651 776 910	840 986 1143	1320 1515 1724																
	射出壓力 Injection pressure	kg/cm <sup>2</sup>	2598 2050 1663	2850 1910 1480	2910 2254 1565	3402 2362 1735	3101 2278 1744	2742 2100 1659	2630 2078 1683	2464 2036 1711	2409 2024 1725	2355 2006 1730	2278 1986 1744																
	射出速率 Injection rate	cm <sup>3</sup> /s	25.9 32.8 40.5	37 55 77	56.2 72.6 104.5	61 88 120	77 104 136	107 140 178	168 213 263	206 249 296	274 326 383	335 393 456	450 516 588																
	可塑化能力 Plasticizing capacity(PS)	kg/h	9 11 13	11.5 18 34	21 28 43	33 49 75	41 64 90	55 78 104	77 103 135	116 140 183	146 190 233	176 215 260	244 289 339																
	螺桿轉速 Screw rotation speed	rpm	10~280	10~285	10~325	10~325	10~300	10~255	10~253	10~218	10~227	10~209	10~196																
	電熱容量 Heating capacity	kW	2.4	2.9	3.7	5	7.1	7.9	10.5	15.8	18.8	22.9	27																
	鎖模裝置 CLAMPING UNIT	鎖模力 Clamping force	ton	10	20	50	90	120	150	200	250	300	430	550															
		最小模厚 Minimum mold height	mm	120	150	150	150	180	200	220	220	260	280	350															
開模行程 Opening stroke		mm	250	280	300	350	460	580	700	780	850	950	1050																
最大開距 Maximum daylight		mm	370	430	450	500	640	780	920	1000	1110	1230	1400																
柱間距離 Distance between tie bars(HxV)		mm	250x250	280x280	320x320	360x360	410x410	460x460	520x520	560x560	650x650	750x750	850x850																
模板尺寸 Platen size(HxV)		mm	325x325	380x380	455x455	530x530	590x590	690x690	770x770	840x840	970x970	1090x1090	1240x1240																
頂針行程 Ejector stroke		mm	60	80	100	100	120	150	150	180	180	200	200																
頂出力 Ejector force		ton	2.2	2.2	3.4	3.4	4.9	4.9	5.8	7.7	7.7	12.5	12.5																
其他 OTHERS	電動馬達 Electric power	hp(kW)	7.5(5.6)	10(7.5)	15(11.2)	20(15)	25(18.7)	30(22.4)	40(30)	50(37.5)	60(45)	75(56.2)	100(75)																
	系統壓力 System pressure	kg/cm <sup>2</sup>	140	140	175	175	175	175	175	175	175	175																	
	油箱容量 Oil tank capacity	l	100	140	210	275	375	460	550	740	920	1150	1140																
	機械尺寸 Machine dimensions(LxWxH)	m	2.0x0.62x1.35	2.8x0.65x1.5	3.2x0.95x1.53	3.7x1.05x1.73	4.5x1.2x1.9	4.9x1.3x2.01	5.23x1.34x2.08	6.2x1.44x2.24	6.15x1.55x2.38	6.85x1.7x2.52	7.55x1.85x2.8																
	機械重量 Machine weight	ton	1.0	2.0	3.0	4.0	5.0	7.0	8.5	11	13.3	17.5	23.7																

為配合設計的改進與更新，以上規格如有更改，恕不另行通知。  
Due to continuous development of our products, specifications are subject to change without prior notice.

本公司亦接受特殊規格之訂製，歡迎垂詢。  
Machine can be custom made upon request. Please call for further details.