

嚴格品質把關

Rigorous Quality Control

百塑機器就是品質的保證

百塑為了徹底落實既定的品質政策，特別成立全面品質系統。在機器製造過程中，都定有詳細的品質標準，作為品質檢驗的依據。無論是進料檢驗、製程檢驗或最後機器成品檢驗與測試等，務必完全達到最高標準。目前百塑已通過 ISO 9002 國際認證。機器也通過 CE 認證，這是對百塑企業在追求品質的具體肯定。

Guaranteed Quality

To fully implement the company's quality assurance policy, Multiplas has set up a total quality control system. Each step during the manufacturing process has quality standards to follow. From incoming inspection, in-process inspection to final product inspection and testing, quality at each stage must reach the highest standards. Nowadays, Multiplas has been certified by ISO 9002 and their machines also certified by CE. These provide an approval for Multiplas' dedication to the pursuance of quality.

國際認證

1997年1月 ISO 9002國際認證
1997年5月 通過歐洲機械安全CE認證
2005年5月 ISO 9002-2001國際認證

International Certifications

Jan 1997 ISO 9002 certified
May 1997 CE certified
May 2005 ISO 9000-2001 certified



百塑射出成型機之特色說明及成型應用

Features and Applications of Multiplas Injection Molding Machine

泛用型 - 直立式

1. 為上下開模、埋件成型較容易，且安全不易造成模具壓傷。
2. 可多模選用，進而提高生產速度及容易控制品質，增加生產效率。
3. 機體結構垂直直裝，拆裝十分容易且管路為開放式，保養及維修輕鬆簡易。
4. 立式為上下開模，四面作業空間較大，配合自動拉帶裝置可達全自動或入成型之目的。
5. 立式機安裝空間較小，可移動機身，生產線上隨線作業。
6. 可多色成型，省時、省力。

General Purpose - Vertical Type

1. Up / down clamping allows easy insertion and enhances safety. Also the tooling would not be damaged easily.
2. Multi-mold option can be selected to improve productivity, quality control and efficiency.
3. The vertical structure of the machine and its flexible arrangement of wires and pipes allow easy assembly, disassembly and maintenance.
4. Up / down clamping allows wider operation area on four sides of the machine. Lead frame device can be equipped to make insert molding process automatic.
5. Less floor space required, more mobility, and on line or off line process easily.
6. 2/3-color process saves time and improves efficiency.



V4-2R-120T



SM-200T-E

泛用型 - 臥式

1. 多段SSR固態電熱控制電器PID溫度控制。
2. 獨特的恆溫射嘴。
3. 高剛性FCD-45最佳化設計模板。
4. 高效率、活動板低變形(±0.02mm)直壓式鎖模結構。
5. 多種轉模仁轉芯功能(可供CSM雙/三色機選購)。
6. 鎖模力自動檢出、顯示功能。
7. 精準確定的低壓合機控制油路設計。

General Purpose - Horizontal Type

1. SSR thermo control and PID temperature control.
2. Nozzle with constant temperature control.
3. High rigid platen made by FCD-45.
4. High efficiency, low deformation (±0.02mm) direct hydraulic clamping system.
5. Rotation table and rotation core functions (option for 2/3-color machines).
6. Self diagnostic and display functions for clamping force.
7. Precision hydraulic system achieves accurate and low pressure clamping control.

產品導覽 Product Guide			
泛用型 General Purpose	立式 Vertical	滑板式 Tables	上射式 Vertical Inj. 側射式 Horizontal Inj.
		無柱式 Tie-barless	側射式 Horizontal Inj.
	臥式 Horizontal	轉盤式 Rotary	上射式 Vertical Inj. 側射式 Horizontal Inj.
		立式雙色機 2-Color(material) vertical	
		單色 Standard-type (direct hydraulic)	
		雙色(料)CSM 2-Color(material) horizontal	
		專業型 Special Application	砂膠射出 LSR (LM) molding BMC射出 BMC molding 系統服務機型 Automation System

直立式射出/鎖模結構簡示 Injection/Clamping Configuration of Vertical Injection Molding Machine					
下模與射嘴方式 Type of Mold / Nozzle	固定下模 Fixed Bottom Platen	單邊滑板 Slide Table (ST)	雙邊滑板 Double Shuttle Tables (SD)	轉盤 Rotary Table (RT)	C型轉盤 C-frame Design (C)
射出/合模方式 Type of Injection / Clamping	V2 V4 VC VH	V2 - S V4 - S VH - S	V2 - SD V4 - SD VC - SD VH - SD	V - R VC - R VH - R	
直立式機 Vertical Injection	V2 V4	V2 - S V4 - S	V2 - SD V4 - SD	V3 - R V4 - R	VCU 15 - 55 tons 0.5 - 9.0 oz.
橫式射出 Horizontal Injection	VC VH	VH - S	VC - SD VH - SD	VC - R VH - R	VC 15 - 65 tons 0.5 - 9.0 oz.

Machine can be custom made upon request. Please call for further details.



CSM/DCM Series

多色/多料臥式系列

'Multi-colour' or 'Multi-component' Horizontal Series



高精度的轉盤結構
High accuracy rotary index table



ACC高速射出機裝置及全閉環油電路
Accumulator for high speed injection, and injection closed loop system



DCM-200T



精密電控系統
Advanced control system



電量之塑化單元
Outstanding plasticizing unit



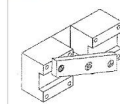
CSM-200T-3C



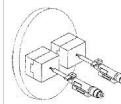
CSM-200T

雙/三色(料)機的射座配置模式 Injection Unit Configuration for 2/3-color (component) machines

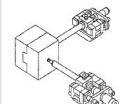
雙色 2-color



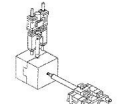
雙射座平行+模仁旋轉技術
Two parallel injection units
Over-molding with rotating mold technique



雙射座平行+旋轉技術
Two parallel injection units
Over-molding with rotary table technique

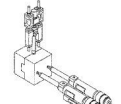
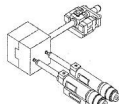
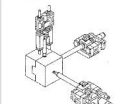


雙射座水平位置
Two injection units in horizontal / L-position



雙射座垂直
Two injection units in horizontal / vertical position

三色 3-color



規格 Specifications

射座配置選項 INJECTION UNIT OPTION	單位 UNIT	A		B		C		D		E		F		G		H	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
射座直徑 Screw diameter	mm	25	38	49	45	58	84	68	98	134	113	154	201	173	226	288	276
理論射注容量 Theoretical injection volume	cm ³	25	38	49	45	58	84	68	98	134	113	154	201	173	226	288	276
射注容量 Injection capacity (PS)	g	23	35	45	41	52	76	62	89	122	103	140	183	157	205	260	262
射注壓力 Injection pressure	kg/cm ²	3038	2033	1575	2812	2033	1404	2800	1844	1428	2800	2057	1574	2603	1993	1574	2460
射注速率 Injection rate	cm ³ /h	36	54	70	42	55	79	56	81	110	78	106	138	98	128	162	128
可塑化能力 Plasticizing capacity (PS)	kg/h	14	23	32	15	21	33	23	35	54	32	49	69	43	60	83	50
射座轉速 Screw rotation speed	rpm	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375	10-375
電熱容量 Heating capacity	kW	3	3	3	3.5	3.5	3.5	5.1	6.8	6.8	7.5	7.5	7.5	8.1	8.1	8.1	11
需求動力 Required driving power	hp (kW)	10(7.5)	10(7.5)	10(7.5)	10(7.5)	10(7.5)	10(7.5)	15(11.2)	20(15)	20(15)	25(18.7)	25(18.7)	25(18.7)	30(22.5)	30(22.5)	30(22.5)	40(30)

射座配置選項 INJECTION UNIT OPTION	序號 SERIAL NO.	CSM-120T		CSM-150T		CSM-200T		CSM-250T		CSM-300T		CSM-430T		CSM-550T	
		I	II	I	II	I	II	I	II	I	II	I	II	I	II
鎖模力 Clamping force	ton	120	150	150	200	200	250	250	300	300	430	430	550	550	550
最小模高 Minimum mold height	mm	180	200	200	220	220	220	220	260	260	280	280	350	350	350
開模行程 Opening stroke	mm	480	580	580	700	700	780	780	850	850	950	950	1050	1050	1050
最大開模 Maximum daylight	mm	640	780	780	920	920	1000	1000	1110	1110	1230	1230	1400	1400	1400
射注距離 Distance between two barrels (mm)	mm	410x410	480x480	520x520	560x560	560x560	650x650	650x650	750x750	750x750	850x850	850x850	950x950	950x950	950x950
模腔尺寸 Platen size (mm)	mm	560x560	690x690	770x770	840x840	840x840	970x970	970x970	1060x1060	1060x1060	1240x1240	1240x1240	1400x1400	1400x1400	1400x1400
射注直徑 Rotary table diameter	mm	Ø530	Ø610	Ø700	Ø740	Ø740	Ø880	Ø880	Ø1020	Ø1020	Ø1120	Ø1120	Ø1240	Ø1240	Ø1240
射注行程 Ejector stroke	mm	120	150	150	180	180	180	180	200	200	200	200	200	200	200
射注力 Ejector force	ton	4.9	4.9	5.8	7.7	7.7	7.7	7.7	12.5	12.5	12.5	12.5	12.5	12.5	12.5
電熱容量 Electric power	hp (kW)	25(18.7)	30(22.5)	40(30)	50(37.5)	50(37.5)	60(45)	60(45)	80(60)	80(60)	100(75)	100(75)	110(82)	110(82)	110(82)
油桶容量 Oil tank capacity	l	290	400	400	540	540	640	640	820	820	930	930	1140	1140	1140
機身尺寸 Machine dimensions (LxWxH)	m	4.4x1.2x1.9	5.0x1.3x2.1	5.5x1.4x2.1	5.8x1.4x2.3	5.8x1.4x2.3	6.3x1.6x2.4	6.3x1.6x2.4	7.1x1.7x2.6	7.1x1.7x2.6	7.8x1.9x2.8	7.8x1.9x2.8	8.5x2.1x3.0	8.5x2.1x3.0	8.5x2.1x3.0
總重量 Machine weight	ton	5.7	7.8	7.8	10.5	10.5	12.2	12.2	14.5	14.5	18.8	18.8	25	25	25

為配合價格的改動而更新，以上規格如有更改，恕不另行通知。
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多色/多料直立式系列 'Multi-colour' or 'Multi-component' Vertical Series



VH-4R-20000T-2C



V4H-SD-2C



V4-4RU-3C



V4-3R-2C

規格 Specifications

射出裝置選項 INJECTION UNIT OPTION		單位 UNIT	A		B		C		D		E		F		G		H									
料管 INJECTION UNIT	螺桿直徑 Screw diameter	mm	Ø20	Ø22	Ø22	Ø25	Ø28	Ø28	Ø25	Ø28	Ø32	Ø32	Ø36	Ø40	Ø45	Ø45	Ø50	Ø55	Ø50	Ø55	Ø60	Ø65				
	理論射出容量 Theoretical injection volume	cm³	31	38		46	59	74	69	86	113	113	143	176	163	201	254	318	393	475	432	523	622	594	707	830
	射出容量 Injection capacity (PS)	g	30	36		43	55	69	65	81	106	106	134	165	153	189	239	299	369	447	406	491	585	558	664	780
	射出壓力 Injection pressure	kg/cm²	2013	1063		2531	1960	1563	2330	1857	1422	2331	1842	1492	1993	1614	1276	1825	1478	1222	1803	1490	1252	1928	1620	1380
	射出速率 Injection rate	cm³/s	32	39		36	47	58	49	62	81	71	90	111	107	132	167	144	178	215	180	218	259	222	264	310
	可塑化能力 Plasticizing capacity (PS)	kg/h	7	9		11	15	20	15	21	29	44	58	73	66	84	101	106	133	155	116	135	161	143	171	201
料管 INJECTION UNIT	螺桿轉速 Screw rotation speed	rpm		164		186			187		269			269					220			220				
	電熱容量 Heating capacity	kW		2.7		3.3			3.9		5.3			6.5					8.3			9.3				

型號 MODEL		單位 UNIT	V4-R-120T-2C		V4-R-120T-2C		V4-R-170T-2C		V4-R-200T-2C		V4-R-240T-2C		V4-R-320T-2C		V4-R-400T-2C		V4-R-700T-2C	
射出裝置選項 INJECTION UNIT OPTION		螺桿直徑 Screw dia.	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
夾緊裝置 CLAMPING UNIT	夾緊力 Clamping force	ton	80(40X2)		120(60X2)		170(85X2)		200(100X2)		240(120X2)		320(160X2)		500(250X2)		700(350X2)	
	最小型號 Minimum mold height	mm	250-330		250-330		280-380		280-380		300-400		350-450		350-500		350-500	
	開模行程 Opening stroke	mm	250		280		350		350		400		400		500		500	
	最大開模 Maximum daylight	mm	500-580		530-610		610-710		630-730		700-800		750-850		850-1000		850-1000	
	成品推出距離 Ejector stroke	mm	100		100		130		130		150		150		200		200	
	頂出力 Ejector force	ton	2.7		2.7		5.4		5.4		5.4		6.2		6.2		7.0	
夾緊裝置 CLAMPING UNIT	料管直徑 Rotary table diameter	mm	Ø880		Ø1000		Ø1200		Ø1200		Ø1350		Ø1500		Ø1800		Ø2000	
	冷卻水容量 Cooling water capacity	l/h	3100		3600		4000		4800		5400		6000		6600		7200	
	電熱容量 Electric power	hp(kW)	20(14.9)		25(18.7)		40(29.8)		50(37.3)		60(44.8)		70(52.2)		100(74.6)		100(74.6)	
	油桶容量 Oil tank capacity	l	310		360		400		480		540		600		660		720	
機身尺寸 MACHINE DIMENSIONS	機械尺寸 Machine dimensions(LxWxH)	m	2,25x1,85x3,4		2,3x2,15x3,45		2,7x2,3x4,1		2,7x2,3x4,1		3,35x2,55x5,05		3,35x2,7x5,35		4,4x,3,05x6,0		4,5x,3,3x6,1	
	機械重量 Machine weight	ton	4.8		8		12.2		12.5		14.5		21		28		40	

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熱固性成型機 Thermoset Injection Molding Machines

- 獨特料管低溫控制。
- 完全符合材料及生產特性。
- 兼有立式、臥式成型機，符合生產實用性。
- 適用於橡膠、BMC、電木、DAP、環氧樹脂、尿素等。

- Special barrel with excellent low temperature control.
- Optimum design to meet material requirements.
- Vertical and horizontal design for different applications.
- Suitable for LSR, BMC, Phenolic, DAP, Rubber, Epoxy, urea



VH-2M-80T-BMC



BMC料管
BMC Material Loading



垂直式BMC擠壓送料裝置
BMC Material Loading Unit



VH-S-2M-110T-BMC

LSR Series

液態矽膠系列

Liquid Silicone Rubber Injection Series

液態矽橡膠

深具市場潛力與開發性的原材料

與MOMENTIVE (GE東芝) 有機硅的長期配合中，百塑累積了各項LSR事業之完備方案：衛浴用品、醫護用具、嬰兒用品、體育產品、廚房配件、按鍵及密封件等。

您將體驗到低廢耗、高品質、高效益的快速矽膠製品生產流程（包括原料整合及模具之開發）。

Liquid Silicone Rubber

A reliable material with a huge market potential and possibility for innovation

By working together with our partner, MOMENTIVE (GE Toshiba) Silicones for many years, Multiplas is well prepared to provide our customers with fully integrated LSR injection molding solutions for applications: Bathroom Products, Medical Devices, Baby Products, Sport Products, Kitchenware, Key pads and Seals...

Come and experience the low waste, high quality and high efficiency LSR production process with us. See how Multiplas assists you in implementing your ideas, from picking the right materials to mold design and making.



V4-SD-LSR



SM-50T-LSR

直立式 V-LSR Series

規格 Specifications

射出裝置選項 INJECTION UNIT OPTION		單位 UNIT	A		B		C		D		E		F		G		H	
射出裝置 INJECTION UNIT	螺桿直徑 Screw diameter	mm	Ø30	Ø35	Ø35	Ø30	Ø30	Ø35	Ø35	Ø40	Ø40	Ø45	Ø45	Ø50	Ø55	Ø60	Ø60	Ø70
	理論射出容量 Theoretical injection volume	cm ³	31	48	64	96	96	134	144	188	200	254	296	353	475	565	822	846
	射出容量 Injection capacity (LSR)	g	33	52	69	105	105	143	155	203	217	274	308	381	513	610	871	914
	射出壓力 Injection pressure	kg/cm ²	1715	1097	1618	1129	1555	1142	1382	1058	1367	1080	1354	1097	1306	1193	1554	1142
	射出速率 Injection rate	cm ³ /s	32	50	47	68	89	122	131	171	163	207	193	239	314	373	303	412
	螺桿轉速 Screw rotation speed	rpm	10 - 240		10 - 220		10 - 200		10 - 200		10 - 200		10 - 200		10 - 200		10 - 200	
	模具電熱容量 Mold heating capacity	kW	2.5 x 3		3 x 3		4 x 3		5 x 3		8 x 3		10 x 3		12 x 3		15 x 3	
	需求馬力 Required driving power	hp (kW)	7.5 (5.6)		10 (7.5)		15 (11.2)		20 (15)		25 (18.7)		30 (22.5)		40 (30)		50 (37.5)	

型號 MODEL		單位 UNIT	V2-18T-LSR	V4-30T-LSR	V4-50T-LSR	V4-80T-LSR	V4-120T-LSR	V4-160T-LSR	V4-200T-LSR	V4-280T-LSR
射出裝置選項 INJECTION UNIT OPTION		型號 SERIES NO.	A	A, B	A, B, C	B, C, D	B, C, D, E	C, D, E, F	D, E, F, G	E, F, G, H
鎖緊裝置 CLAMPING UNIT	鎖緊力 Clamping force	ton	15	35	55	85	120	160	200	250
	最小模厚 Minimum mold height	mm	80 - 160	150 - 550	160 - 280	200 - 300	200 - 300	250 - 350	300 - 400	300 - 400
	開模行程 Opening stroke	mm	220	200	200	250	250	300	360	400
	最大開距 Maximum daylight	mm	280 - 360	350 - 450	380 - 480	450 - 550	450 - 550	550 - 650	650 - 750	700 - 800
	頂針行程 Ejector stroke	mm	50	60	70	80	80	100	120	150
	頂出力 Ejector force	ton	1.8	2.0	2.2	3.0	3.0	4.5	5.0	6.5

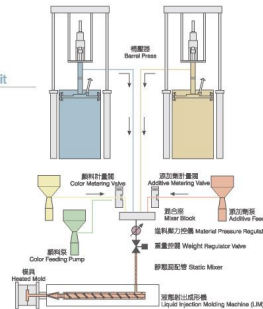
臥式 SM-LSR Series

規格 Specifications

型號 MODEL		單位 UNIT	SM-60T-LSR
射出裝置 INJECTION UNIT	螺桿直徑 Screw diameter	mm	Ø30
	理論射出容量 Theoretical injection volume	cm ³	84
	射出容量 Injection capacity (LSR)	g	76
	射出壓力 Injection pressure	kg/cm ²	1701
	射出速率 Injection rate	cm ³ /s	82.7
	模具電熱容量 Mold heating capacity	kW	4 x 3
鎖緊裝置 CLAMPING UNIT	螺桿轉速 Screw rotation speed	rpm	10 - 280
	鎖緊力 Clamping force	ton	50
	最小模厚 Minimum mold height	mm	280
	開模行程 Opening stroke	mm	350
	最大開距 Maximum daylight	mm	630
	柱內間距 Distance between tie bars (H/V)	mm	320 x 320
頂針行程 Ejector stroke	頂針行程 Ejector stroke	mm	100
	頂出力 Ejector force	ton	3.4

為配合設計之改良及更新，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.
本公司可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.

計量混配系統配置 System Scheme of an LIM Metering Unit



客戶的需求 + 我們的設計 = 生產自動化 Molding Requirements + Multiplas Design = Auto Molding System



V3-2R-85T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



V3-2R-55T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



V3-4R-85T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



V3-2R-85T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



V3-3R-55T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



V3-2R-55T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



VH-S-160T-APC
Full Auto Golf Ball IMM
全自動高爾夫球射出機



V4-S-55T-APC
Auto Insert-Takeout IMM
全自動嵌-取出射出機



V4-55T-APC
Lead Frame Continue IMM
連續料帶端子射出機



V4-S-200T-2C-APC
Full Auto Vertical 2-color IMM
全自動雙色射出



V4-S-250T-2C-APC
Full Auto Vertical 2-color IMM
全自動雙色射出



V4-S-160T-2C-APC
Full Auto Vertical 2-color IMM
全自動雙色射出

我們能完全滿足客戶特殊生產的需求 We Can Meet Special Production Requirements



V3U-R-150T
Vertical Rotary IMM
立式轉盤射出機



V4-30P
Transfer Machine
轉移成形機



V2C-55T
Vertical Rubber IMM
立式橡膠射出機



TG-10T
Transfer Machine
車材專用轉移成形機



NVC-15T
Hot Stamping Machine
熱壓成形機



OM-20T-CQ
Clean Room IMM
無塵室用射出機



VD
Mold Vacuum Device
模內真空裝置



VT-35T
Table Top Vertical IMM
桌上型立式射出機



CV-20T
Bottom Up Top Down
Vertical IMM
上下同步合模立式射出機



V4-SD-55HC
High Speed Vertical IMM
高速立式射出機



HV-10T
L Type IMM
L型射出機



V4-85T-2C
Vertical 2-Color IMM
立式雙色射出機



SMH-100T(1500mm/s)
High Speed High Pressure IMM
高壓高速射出機