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精密射出成型機 總合目錄

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—— 射出成型科技領航者 Injection Molding Technology ——



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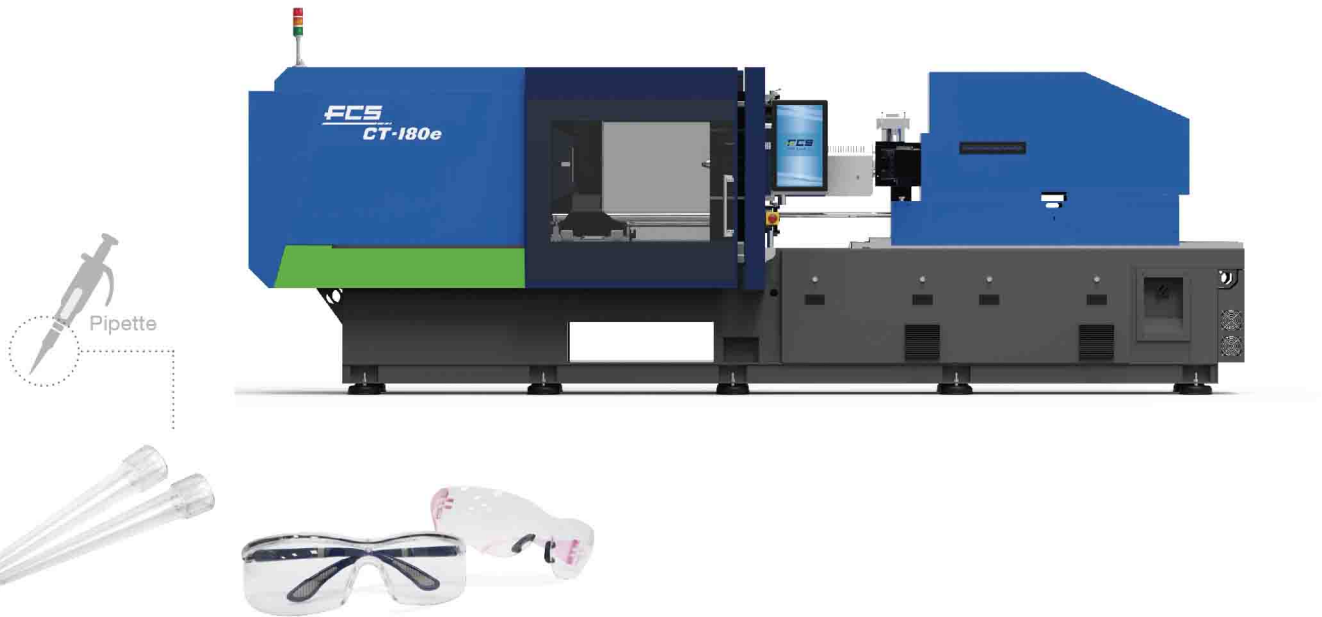
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★ 本資料僅供參考，因產品不斷研究改良，設計變更時恕不另作通知。

The features are for your reference only. Due to continuous improvements, we reserve the right to amend any of the above specifications without prior notice.



本機特點

- 採用高性能伺服系統、控制器和乙太網路總線等高端技術
射出控制精度達0.01mm。
- 採用進口高精密度壓力感測器(LoadCell)與高響應射出單元，
具優越壓力閉迴路運算控制。
- 射出/射座皆採線性滑軌，控制精準穩定。
- 歐系風格結構，採用線性滑軌不抱持大柱設計，低磨損，
伺服驅動更低能耗。
- 標準配置開模中頂出等同步功能，可縮短成型週期。

Features

- The extreme motion control technology and high performance servo system, make injection accuracy up to 0.01mm.
- Ensure highly-responsive injection unit offers optimized pressure closed-loop algorithm.
- Carriage is supported by linear guide to ensure precise and stable injection.
- Tie bars are not held by platen to reduce pollution, abrasion and power consumption, which is suitable for medical products.
- Parallel movement of ejector on fly is standard, effectively shorten the cycle time.

射出單元 Injection unit		UNIT	CT-50e			CT-80e			CT-120e			CT-150e			CT-180e			CT-220e			CT-280e		
類型 Type		-	160H			290H			290H			490H			630H			630H			1000H		
螺桿直徑 Screw diameter	mm		18	25	30	30	35	40	30	35	40	35	40	45	40	45	50	40	45	50	45	50	55
理論射出量 Shot weight of injection (PS)	gram		30	58	84	106	144	189	106	144	189	166	217	275	240	304	375	240	304	375	355	438	530
射出壓力 Injection pressure	kgf/cm ²		3000	2700	1900	2500	2000	1600	2500	2000	1600	2500	2000	1650	2450	1950	1600	2450	1950	1600	2600	2100	1738
夾模單元 Mold clamping unit																							
閉模力 Mold clamping force	tonf		50			80			120			150			180			220			280		
夾模行程 Mold clamping stroke	mm		250			290			335			430			440			490			570		
模厚 Mold thickness	mm		160~430			180~515			180~515			200~620			200~620			250~680			250~730		
大柱內距 Tie bar spacing (H x V)	mm		370x370			420x420			470x470			520x520			560x560			620x620			720x720		

射出單元 Injection unit		UNIT	CT-350e			CT-450e			CT-550e			CT-700e			CT-900e			CT-900e		
類型 Type		-	1400H			2250			2250			3350			5200			6900		
螺桿直徑 Screw diameter	mm		50	55	60	60	65	70	60	65	70	70	75	80	75	80	90	80	90	100
理論射出量 Shot weight of injection (PS)	gram		509	616	733	836	981	1138	836	981	1138	1296	1487	1692	1809	2058	2605	2150	2721	3359
射出壓力 Injection pressure	kgf/cm ²		2450	2321	1974	2450	2088	1800	2450	2088	1800	2400	2090	1900	2583	2268	1790	3038	2400	1982
夾模單元 Mold clamping unit																				
閉模力 Mold clamping force	tonf		350			450			550			700			900			900		
夾模行程 Mold clamping stroke	mm		695			815			900			1000			1200			1200		
模厚 Mold thickness	mm		350~800			350~830			380~900			450~1000			450~1100			450~1100		
大柱內距 Tie bar spacing (H x V)	mm		820x820			920x920			1020x1020			1120x1120			1220x1220			1220x1220		

新一代高效節能射出機

Advanced Servo Hydraulic Injection Molding Machine

FA SERIES
60-530



本機特點

- 射座線性滑軌，負荷輕、減少磨耗，射出控制精準穩定。
- 伺服射出全閉迴路，精準控制每模射速，射出時間穩定性 >99.9%，成型品重量穩定性佳。
- 高混練螺桿，提升L/D比，滿足高射量產品(250 ton以上機型增加D螺桿)(選配)。
- 模組化規格選型，提供高速款規格，彈性化滿足食品包裝、薄壁容器等產業需求。

Features

- Linear guide for injection carriage could lower the wear and tear, and make the injection control precise and stable.
- Servo injection closed-loop system could accurately control the speed of each shot, the injection time stability is >99.9%, and with stable molding product weight.
- High mixing performance screw that improve L/D ratio and meet high injection volume products (and add D-screw choice for models above 250 ton)(optional).
- Optional modular specification, offering the high-speed type for option, to flexibly meet the requirement such as food packaging and thin-walled container industries.

射出單元 Injection unit	UNIT	FA-60	FA-100	FA-125	FA-160	FA-200	FA-250
類型 Type	-	130	300	400	600	850	1050
螺桿直徑 Screw diameter	mm	24 28	32 36 40	36 40 45	40 45 50	45 50 55	50 55 60
理論射出量 Shot weight of injection (PS)	gram	47 64	117 148 183	167 206 260	229 289 357	318 393 475	429 519 617
射出壓力 Injection pressure	kgf/cm ²	2667 1959	2344 1852 1500	2241 1815 1434	2405 1900 1539	2430 1968 1626	2253 1862 1564
夾模單元 Mold clamping unit							
閉模力 Mold clamping force	kN(tonf)	600 (60)	1000 (100)	1250 (125)	1600 (160)	2000 (200)	2500 (250)
夾模行程 Mold clamping stroke	mm	270	320	360	430	490	540
模厚 Mold thickness	mm	120~330	150~400	150~460	180~530	200~650	220~680
大柱內距 Tie bar spacing (H x V)	mm	320x320	370x370	420x420	470x470	530x530	580x580

射出單元 Injection unit	UNIT	FA-300	FA-350	FA-400	FA-470	FA-530
類型 Type	-	1400	1700	2350	3550	4850
螺桿直徑 Screw diameter	mm	55 60 65 70	60 65 70 75	65 70 75	70 80 85	80 85 90
理論射出量 Shot weight of injection (PS)	gram	562 669 785 910	720 845 980 1125	996 1155 1326 1530	1737 1961 2057 2323	2604
射出壓力 Injection pressure	kgf/cm ²	2285 1920 1636 1411	2153 1835 1582 1378	2187 1886 1643 1429	1860 1648 2156 1910	1704
夾模單元 Mold clamping unit						
閉模力 Mold clamping force	kN(tonf)	3000 (300)	3500 (350)	4000 (400)	4700 (470)	5300 (530)
夾模行程 Mold clamping stroke	mm	590	640	700	780	850
模厚 Mold thickness	mm	230~730	250~760	280~800	320~820	350~860
大柱內距 Tie bar spacing (H x V)	mm	660x630	720x680	760x730	830x810	860x830



本機特點

- 射座模組化，可根據不同射出量選擇大小配型式。
- 新型導柱式射出底座結構，料管移動平穩快速且潔淨。
- 曲肘及車壁採無給油軸承，降低油汙及保養成本。
- 配備伺服節能系統，節能效果可達40%~70%。
- 優異的精度控制，成品重量誤差約0.7%~0.4%。

Features

- The injection base is modularized and could choose different matching type in accordance with injection volume.
- It has new type of guide-pillar injection base structure, the material tube does not droop the movement is smooth and fast, and the cleanliness is high.
- Oil-less bearing on the moving parts of platen and toggle, greatly reduces maintenance cost, and provides for a cleaner production environment.
- Adopted FCS servo power-saving system which could reduce the energy consumption up to 70%.
- It has excellent precision control with the weight error of finished product is about 0.7% to 0.4%.

射出單元	Injection unit	UNIT	HT-100		HT-125		HT-150		HT-200		HT-250		HT-300		HT-350		HT-400		HT-470										
螺桿直徑	Screw diameter	mm	30	34	40	34	40	44	40	44	50	54	62	54	62	68	62	68	75	62	68	75	68	75	80				
理論射出量	Shot weight of injection (PS)	gram	96	124	171	149	206	249	229	277	357	311	402	469	429	500	659	583	769	925	840	1011	1230	840	1011	1230	1123	1366	1554
射出壓力	Injection pressure	kgf/cm ²	2481	1932	1396	2471	1785	1475	2205	1822	1411	2224	1722	1476	2500	2144	1626	2497	1894	1574	2387	1985	1631	2387	1985	1631	2440	2006	1763
夾模單元	Mold clamping unit																												
閉模力	Mold clamping force	tonf	100		125		150		200		250		300		350		400		470										
夾模行程	Mold clamping stroke	mm	350		410		460		510		550		610		645		660		730										
模厚	Mold thickness	mm	120~430		120~490		130~550		200~610		200~670		200~730		200~790		250~800		250~800										
大柱內距	Tie bar spacing (H x V)	mm	355x355		405x405		462x462		505x505		555x555		605x605		680x680		730x730		820x800										

射出單元	Injection unit	UNIT	HT-530			HT-600			HT-750			HT-850			HT-1000			HT-1250			HT-1420			HT-1600		
螺桿直徑	Screw diameter	mm	75	85	95	75	85	95	85	95	105	95	100	110	100	110	120	110	120	130	120	130	140	120	130	140
理論射出量	Shot weight of injection (PS)	gram	1688	2168	2708	1688	2168	2708	2219	2772	2387	2901	3215	3890	3536	4279	5092	4668	5555	6519	6018	7062	8191	6018	7062	8191
射出壓力	Injection pressure	kgf/cm ²	2466	1920	1537	2466	1920	1537	2445	1957	1602	2199	1985	1640	2117	1749	1470	2008	1687	1438	2053	1750	1509	2053	1750	1509
夾模單元	Mold clamping unit																									
閉模力	Mold clamping force	tonf	530			600			750			850			1000			1250			1420			1600		
夾模行程	Mold clamping stroke	mm	800			900			1000			1000			1100			1275			1450			1450		
模厚	Mold thickness	mm	350~900			350~1100			350~1100			350~1200			400~1300			450~1400			500~1500			700~1600		
大柱內距	Tie bar spacing (H x V)	mm	840x830			880x880			980x980			1060x1010			1260x1130			1360x1210			1450x1320			1530x1380		

二板式精密射出機

Two-Platen Injection Molding Machine

LM SERIES
500-4000



本機特點

- 開模行程及容模量大，適用產品廣泛，特別是深桶型產品。
- 本機種引進歐洲大廠設計，車壁結構鋼性高，使用壽命長。
- 鎖模機構短，可節省30%以上廠房空間。
- 射出期間加壓缸持續提供補壓，使鎖模力精確，達到誤差值 $\pm 1\%$ 內。
- 鎖模系統無肘節磨耗問題，故可減少潤滑需求與維護成本。

Features

- The mold clamping stroke and capacity are bigger than traditional machines, making the machine suitable to produce more kinds of products especially plastic barrels with deep depth.
- This machine has introduced the design of major companies in Europe. The wall structure has high rigidity with long service life.
- Two-platen structure has shorter clamping unit which saves the factory space more than 30%.
- During the injection, the pressurizing cylinder continues to provide compensating pressure, so that the clamping force is accurate, the error value is within $\pm 1\%$.
- Clamping unit without toggle structure which reduces lubrication and maintenance cost.

射出單元	Injection unit	UNIT	LM-500			LM-700			LM-900			LM-1100			LM-1300			LM-1500		
螺桿直徑	Screw diameter	mm	75	85	95	85	95	105	95	100	110	100	110	120	110	120	130	120	130	140
理論射出量	Shot weight of injection (PS)	gram	1688	2168	2708	2219	2772	3387	2901	3215	3890	3536	4279	5092	4668	5555	6519	6018	7062	8191
射出壓力	Injection pressure	kgf/cm ²	2466	1920	1537	2445	1957	1602	2199	1985	1640	2117	1749	1470	2008	1687	1438	2053	1750	1509
夾模單元			Mold clamping unit																	
閉模力	Mold clamping force	tonf	500			700			900			1100			1300			1500		
模厚	Mold thickness	mm	400~900			400~950			500~1100			600~1250			600~1400			700~1500		
模壁最大間距	Daylight	mm	1650			1750			2100			2650			2900			3100		
大柱內距	Tie bar spacing (H x V)	mm	910x810			1050x930			1180x1010			1250x1120			1400x1280			1530x1380		

射出單元	Injection unit	UNIT	LM-1700		LM-1900		LM-2100		LM-2400		LM-2800		LM-3300		LM-4000	
螺桿直徑	Screw diameter	mm	130	140	140	150	140	150	140	150	150	160	160	170	190	200
理論射出量	Shot weight of injection (PS)	gram	7606	8821	10501	12055	11901	13662	11901	13662	14305	16276	17007	19200	25788	28574
射出壓力	Injection pressure	kgf/cm ²	1750	1509	1920	1673	1920	1673	1920	1673	1815	1595	1706	1511	1390	1254
夾模單元			Mold clamping unit													
閉模力	Mold clamping force	tonf	1700		1900		2100		2400		2800		3300		4000	
模厚	Mold thickness	mm	700~1600		700~1600		700~1800		800~1800		900~1900		1000~2000		1000~2100	
模壁最大間距	Daylight	mm	3300		3300		3500		3700		4100		4200		4500	
大柱內距	Tie bar spacing (H x V)	mm	1650x1480		1800x1550		1900x1600		2000x1700		2200x1800		2300x1900		2400x2050	



本機特點

- 夾模長度縮短23%，減少占地空間，提升廠房利用率。
- 開模行程增加16%，適合成型深度較大產品。
- 鎖模力直接施加於模盤中心，模具均勻受力，降低異常品產生機率，提升產品良率。
- 伺服射出全閉迴路，射出時間穩定性>99.9%，成型品重量穩定性佳。

Features

- The length of the mold clamping unit is shortened by 23% and the floor space is reduced, which could improve plant utilization.
- Increase the mold opening stroke by 16% and suitable for molding plastic products with deep depth.
- The clamping force is directly applied to the center of moving platen, and the mold is uniformly stressed, reducing the probability of defective products and improving product yield.
- Servo injection closed-loop system could accurately control the speed of each shot, the injection time stability is >99.9%, and with stable molding product weight.

射出單元 Injection unit		UNIT	SA-100				SA-125				SA-160				SA-200			
類型 Type		-	300				400				600				850			
螺桿直徑 Screw diameter		mm	32	36	40	36	40	45	40	45	50	45	50	55				
理論射出量 Shot weight of injection (PS)		gram	117	148	183	167	206	260	229	289	357	318	393	475				
射出壓力 Injection pressure		kgf/cm ²	2344	1852	1500	2241	1815	1434	2405	1900	1539	2430	1968	1626				
夾模單元 Mold clamping unit																		
閉模力 Mold clamping force		kN(tonf)	1000 (100)				1250 (125)				1600 (160)				2000 (200)			
夾模行程 Mold clamping stroke		mm	380				450				500				550			
模厚 Mold thickness		mm	100~400				125~460				150~530				150~610			
大柱內距 Tie bar spacing (H x V)		mm	370x370				420x420				470x470				530x530			

射出單元 Injection unit		UNIT	SA-250				SA-300				SA-350				SA-400			
類型 Type		-	1050				1400				1700				2350			
螺桿直徑 Screw diameter		mm	50	55	60	55	60	65	60	65	70	65	70	75				
理論射出量 Shot weight of injection (PS)		gram	429	519	617	562	669	785	720	845	980	996	1155	1326				
射出壓力 Injection pressure		kgf/cm ²	2253	1862	1564	2285	1920	1636	2153	1835	1582	2187	1886	1643				
夾模單元 Mold clamping unit																		
閉模力 Mold clamping force		kN(tonf)	2500 (250)				3000 (300)				3500 (350)				4000 (400)			
夾模行程 Mold clamping stroke		mm	600				660				720				780			
模厚 Mold thickness		mm	180~670				180~730				180~760				200~790			
大柱內距 Tie bar spacing (H x V)		mm	580x580				660x630				720x680				760x730			

薄壁包裝專用機

High-Speed Thin-Wall Injection Molding Machine

SA-h SERIES
170-600



本機特點

- 高剛性模板設計，彈性變形小，成型鎖模力更低。
- 標配KEBA控制系統，動作掃描週期1ms以內。
- 標配紅外奈米加熱圈，升溫快，保溫性能好，節能超過30%。
- 標配高性能伺服動力系統，節能約30%-70%。

Features

- High rigidity platen mechanism, less deformation, lower clamping force.
- Standard equipped with KEBA control system, operation mode scan within 1ms.
- Standard infrared heater, fast heating, good heat preservation, energy saving over 30%.
- Equipped with high performance servo power system, energy saving about 30%-70%.

射出單元 Injection unit	UNIT	SA-170h	SA-220h	SA-290h	SA-330h
類型 Type	-	400	600	770	770
螺桿直徑 Screw diameter	mm	40	45	50	50
理論射出量 Shot weight of injection (PS)	gram	239	333	411	411
射出壓力 Injection pressure	kgf/cm ²	1663	1651	1710	1710
夾模單元 Mold clamping unit					
閉模力 Mold clamping force	tonf	170	220	290	330
夾模行程 Mold clamping stroke	mm	430	500	550	640
模厚 Mold thickness	mm	180~520	200~550	220~580	220~610
大柱內距 Tie bar spacing (H x V)	mm	470x410	530x470	580x515	630x585

射出單元 Injection unit	UNIT	SA-380h	SA-460h	SA-500h	SA-600h
類型 Type	-	900	1000	1000	1100
螺桿直徑 Screw diameter	mm	55	58	58	60
理論射出量 Shot weight of injection (PS)	gram	497	553	553	592
射出壓力 Injection pressure	kgf/cm ²	1655	1707	1707	1712
夾模單元 Mold clamping unit					
閉模力 Mold clamping force	tonf	380	460	500	600
夾模行程 Mold clamping stroke	mm	690	750	790	820
模厚 Mold thickness	mm	250~680	280~730	300~800	300~850
大柱內距 Tie bar spacing (H x V)	mm	670x640	720x720	770x720	830x750



本機特點

- 高剛性模板設計，彈性變形小，成型鎖模力更低。
- 標配KEBA控制系統，動作掃描週期1ms以內。
- 標配紅外奈米加熱圈，升溫快，保溫性能好，節能超過30%。
- 標配高性能伺服動力系統，節能約30%-70%。

Features

- High rigidity platen mechanism, less deformation, lower clamping force.
- Standard equipped with KEBA control system, operation mode scan within 1ms.
- Standard infrared heater, fast heating, good heat preservation, energy saving over 30%.
- Equipped with high performance servo power system, energy saving about 30%-70%.

射出單元	Injection unit	UNIT	SA-220h
類型	Type	-	770
螺桿直徑	Screw diameter	mm	50
理論射出量	Shot weight of injection (PS)	gram	588
射出壓力	Injection pressure	kgf/cm ²	1710
夾模單元	Mold clamping unit		
閉模力	Mold clamping force	tonf	220
夾模行程	Mold clamping stroke	mm	500
模厚	Mold thickness	mm	200-550
大柱內距	Tie bar spacing (H x V)	mm	530x470

射出單元	Injection unit	UNIT	SA-290h
類型	Type	-	900
螺桿直徑	Screw diameter	mm	55
理論射出量	Shot weight of injection (PS)	gram	710
射出壓力	Injection pressure	kgf/cm ²	1674
夾模單元	Mold clamping unit		
閉模力	Mold clamping force	tonf	290
夾模行程	Mold clamping stroke	mm	550
模厚	Mold thickness	mm	220-580
大柱內距	Tie bar spacing (H x V)	mm	580x515

桶專用射出機

High-Speed Injection Molding Machine

SA-p SERIES
220-1000



本機特點

- 標配高速比例閥，開模響應更快，定位更準，循環週期短。
- 採用大L/D比，高混煉螺桿，塑化效果好。
- 射台及座移採用雙線軌設計，摩擦阻力低，精度更高。
- 可以實現雙迴路動作，最大程度縮短成型週期。

Features

- Standard high-speed proportional valve, with fast mold open response, accurate positioning and short cycle time.
- Adopt large L/D ratio, high mixing screw and good plasticization efficiency.
- The injection unit support adopts high-precision double linear guides, the lower friction resistance, the higher precision.
- It can be realized double loops system, improving production efficiency.

射出單元	Injection unit	UNIT	SA-220p	SA-290p	SA-330p	SA-460p	SA-550p
類型	Type	-	770	900	1100	2500	3900
螺桿直徑	Screw diameter	mm	50	55	60	70	80
理論射出量	Shot weight of injection (PS)	gram	411	497	592	1313	2058
射出壓力	Injection pressure	kgf/cm ²	1710	1749	1736	1736	1750
夾模單元	Mold clamping unit						
閉模力	Mold clamping force	tonf	220	290	330	460	550
夾模行程	Mold clamping stroke	mm	500	550	640	750	830
模厚	Mold thickness	mm	200~500	220~580	220~610	280~730	300~800
大柱內距	Tie bar spacing (H x V)	mm	530x470	580x515	630x585	720x720	770x720

射出單元	Injection unit	UNIT	SA-650p	SA-700p	SA-800p	SA-1000p
類型	Type	-	5000e	7600e	7600e	8800e
螺桿直徑	Screw diameter	mm	90	100	100	110
理論射出量	Shot weight of injection (PS)	gram	2605	3931	3931	4757
射出壓力	Injection pressure	kgf/cm ²	1762	1764	1764	1692
夾模單元	Mold clamping unit					
閉模力	Mold clamping force	tonf	650	700	800	1000
夾模行程	Mold clamping stroke	mm	930	970	1100	1300
模厚	Mold thickness	mm	410~1000	400~1000	450~1000	500~1000
大柱內距	Tie bar spacing (H x V)	mm	900x810	910x820	1000x870	1090x950



本機特點

- 高剛性模板設計，彈性變形小，成型鎖模力更低。
- 標配KEBA控制系統。
- 整機管路採用無焊接工藝，降低漏油風險。
- 射台及座移採用雙線軌設計，摩擦阻力越低，精度更高。
- 標配高性能伺服動力系統，響應時間最快至40ms。

Features

- High rigidity platen clamping mechanism, less elastic deformation, lower forming and clamping force.
- Standard equipped with KEBA control system.
- The pipelines adopt no welding processing, decreasing risk of oil leaking.
- The injection table support adopts high-precision double linear guides, the lower the friction resistance the higher precision.
- Equipped with high performance servo power system, the fastest response time is up to 40ms.

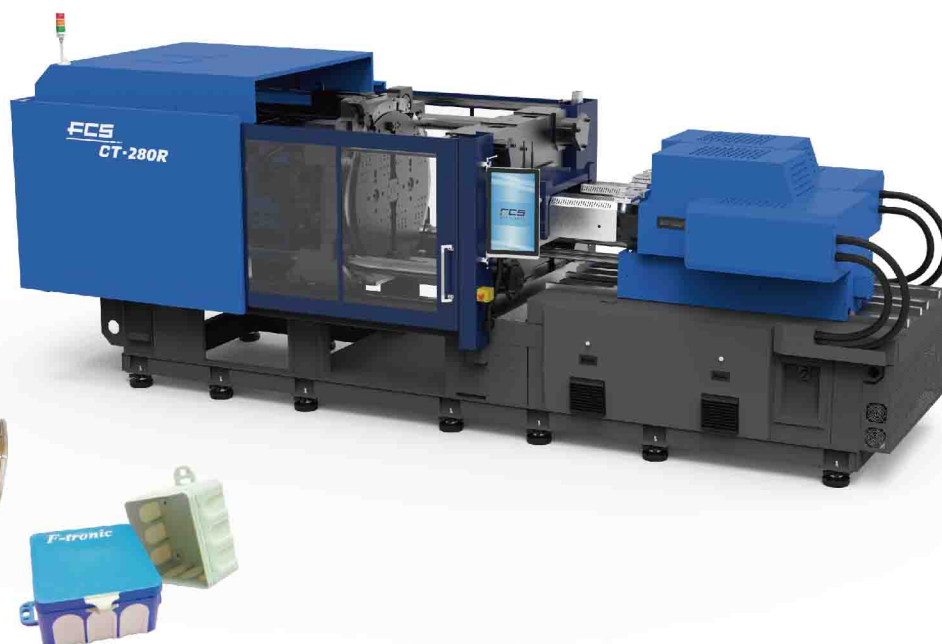
射出單元	Injection unit	UNIT	SA-170c			SA-220c		
類型	Type	-	640			840		
螺桿直徑	Screw diameter	mm	40	45	50	45	50	55
理論射出量	Shot weight of injection (PS)	gram	258	326	402	362	447	541
射出壓力	Injection pressure	kgf/cm ²	2284	1795	1448	2121	1713	1428
夾模單元			SA-170c			SA-220c		
閉模力	Mold clamping force	tonf	170			220		
夾模行程	Mold clamping stroke	mm	430			500		
模厚	Mold thickness	mm	180~520			200~550		
大柱內距	Tie bar spacing (H x V)	mm	510x510			570x570		

射出單元	Injection unit	UNIT	SA-290c			SA-330c		
類型	Type	-	1190			1540		
螺桿直徑	Screw diameter	mm	50	55	60	55	60	5
理論射出量	Shot weight of injection (PS)	gram	491	594	708	649	772	905
射出壓力	Injection pressure	kgf/cm ²	2203	115	1530	2162	1815	1550
夾模單元			SA-290c			SA-330c		
閉模力	Mold clamping force	tonf	290			330		
夾模行程	Mold clamping stroke	mm	550			640		
模厚	Mold thickness	mm	220~600			250~670		
大柱內距	Tie bar spacing (H x V)	mm	620x620			680x680		

全電式雙色射出機

All-Electric Two-Component Injection Molding Machine

CT-R SERIES
180-280



本機特點

- 伺服轉盤速度可提升30%-50%，縮短成型週期，速度切換快速平穩，並採用獨特的定位系統，定位精度可達0.005°，使射出成型產品更加精密穩定。
- 智慧模具低壓保護功能，降低壓模危險。
- 射出部分有兩組或多組獨立料管組，同步做射出動作，大幅縮短成型週期。
- 線軌摩擦力低，加料時儲料背壓阻力低，有效減少射嘴或熱流道熔膠溢流。
- 精準控制，加熱控制精度0.1°C並有效分段控制，提升塑化能力；位置控制更可達0.01mm，準確控制動作行程。

Features

- The rate of servo rotary table improved by 30%-50%, which could shorten the cycle time, make switch speed more stable and positioning precision up to 0.005°, and let injection molding products more precise and stable.
- Intelligent mold clamp low-pressure protection, reduces the risk of mold crush.
- Adopting servo motor and multiple independent barrels for injection, greatly shortens the cycle time.
- Linear guide at injection unit makes back pressure approach 0 when charging, reduces the melt overflow.
- Barrel heating zones are accurate to 0.1°C to ensure stable material plasticizing. Screw position is controlled within 0.01mm to precisely control the shot size and cushion position.

射出單元	Injection unit	UNIT	CT-180R				CT-180R				CT-230R			
類型	Type	-	160				160H				290			
螺桿直徑	Screw diameter	mm	18	25	30	35	18	25	30	35	25	30	35	40
理論射出量	Shot weight of injection (PS)	gram	30	58	84	114	30	58	84	114	74	106	144	189
射出壓力	Injection pressure	kgf/cm ²	3000	2700	2300	1700	3000	2700	2300	1700	2800	2500	2000	1650
料管中心距離	Distance between barrel centers	mm	400				400				500			
夾模單元	Mold clamping unit													
閉模力	Mold clamping force	tonf	180				180				230			
夾模行程	Mold clamping stroke	mm	440				440				490			
模厚	Mold thickness	mm	180~550				180~550				200~700			
大柱內距	Tie bar spacing (H x V)	mm	740x450				740x450				960x680			
轉盤容模直徑	Rotary table diameter	mm	900				900				1218			

射出單元	Injection unit	UNIT	CT-230R				CT-280R				CT-280R			
類型	Type	-	290H				290				290H			
螺桿直徑	Screw diameter	mm	25	30	35	40	30	35	40	45	30	35	40	45
理論射出量	Shot weight of injection (PS)	gram	74	106	144	189	106	144	217	275	106	144	217	275
射出壓力	Injection pressure	kgf/cm ²	2800	2500	2000	1650	2500	2000	2000	1650	2500	2000	2000	1650
料管中心距離	Distance between barrel centers	mm	500				500				500			
夾模單元	Mold clamping unit													
閉模力	Mold clamping force	tonf	230				280				280			
夾模行程	Mold clamping stroke	mm	490				490				490			
模厚	Mold thickness	mm	200~700				200~700				200~700			
大柱內距	Tie bar spacing (H x V)	mm	960x680				960x680				960x680			
轉盤容模直徑	Rotary table diameter	mm	1218				1218				1218			



本機特點

- 轉盤轉動時與模盤不接觸，避免磨耗造成故障。
- 由伺服電機控制轉盤動作，轉動時間可縮短50%以上，速度切換更平穩。
- 轉盤定位夾具，定位精準，確保模具壽命。
- 配合產品插入功能，亦可成型三色、四色產品，擴大使用範圍。

Features

- When the rotary table rotates, it does not touch the mold plate to avoid wear and tear.
- Rotary table controlled by servo motor could shorten rotary time by more than 50%, with more stable rotary speed switch.
- With accurate rotary positioning clasper, it protects the mold.
- With the product insertion function, three-component and four-component products can also be molded to expand the scope of use.

射 出 單 元	Injection unit	UNIT	FB-160R								FB-200R		FB-230R							
類型	Type	-	141				201				251		141				201			
螺桿直徑	Screw diameter	mm	22	24	26	26	28	30	32	36	40	22	24	26	26	28	30	32		
理論射出量	Shot weight of injection (PS)	gram	43	51	60	66	77	88	100	153	189	43	51	60	66	77	88	100		
射出壓力	Injection pressure	kgf/cm ²	2929	2461	2097	2791	2406	2096	1842	1456	1179	2929	2461	2097	2791	2406	2096	1842		
料管中心距離	Distance between barrel centers	mm	400				400				200(250)		500							
夾 模 單 元	Mold clamping unit																			
閉模力	Mold clamping force	tonf	160								200		230							
夾模行程	Mold clamping stroke	mm	320								470		400							
模厚	Mold thickness	mm	200~550								200~550		200~650							
大柱內距	Tie bar spacing (H x V)	mm	730x400								530x530		935x420							
有效頂出行程①	Effective ejector stroke ①	mm	70								150		90							
轉盤容模直徑②	Rotary table diameter ②	mm	810								700		980							

轉盤式雙色射出機

Rotary Table Two-Component Injection Molding Machine

FB-R SERIES
160-1900

射 出 單 元	Injection unit	UNIT	FB-280R														FB-400R											
類型	Type	-	141				201				401				611				401				611				1301	
螺桿直徑	Screw diameter	mm	22	24	26	26	28	30	32	32	36	40	45	40	45	50	32	36	40	45	40	45	50	55				
理論射出量	Shot weight of injection (PS)	gram	43	51	60	66	77	88	100	146	185	229	289	251	318	393	146	185	229	289	251	318	511	618				
射出壓力	Injection pressure	kgf/cm ²	2929	2461	2097	2791	2406	2096	1842	2529	1998	1619	1279	2205	1742	1411	2529	1998	1619	1279	2205	1742	2240	1851				
料管中心距離	Distance between barrel centers	mm	500														550											
夾 模 單 元	Mold clamping unit																											
閉模力	Mold clamping force	tonf	280														400											
夾模行程	Mold clamping stroke	mm	450														600											
模厚	Mold thickness	mm	200~650														200~700											
大柱內距	Tie bar spacing (H x V)	mm	950x540														1100x610											
有效頂出行程①	Effective ejector stroke ①	mm	120														110											
轉盤容模直徑②	Rotary table diameter ②	mm	1050														1200											

射 出 單 元	Injection unit	UNIT	FB-550R										FB-700R													
類型	Type	-	401				611				1301				401				611				1301			
螺桿直徑	Screw diameter	mm	32	36	40	45	40	45	50	55	32	36	40	45	40	45	50	55	32	36	40	45	40	45	50	55
理論射出量	Shot weight of injection (PS)	gram	146	185	229	289	251	318	511	618	146	185	229	289	251	318	511	618	146	185	229	289	251	318	511	618
射出壓力	Injection pressure	kgf/cm ²	2529	1998	1619	1279	2205	1742	2240	1851	2529	1998	1619	1279	2205	1742	2240	1851	2529	1998	1619	1279	2205	1742	2240	1851
料管中心距離	Distance between barrel centers	mm	650										650													
夾 模 單 元	Mold clamping unit																									
閉模力	Mold clamping force	tonf	550										700													
夾模行程	Mold clamping stroke	mm	600										690													
模厚	Mold thickness	mm	320~800										400~900													
大柱內距	Tie bar spacing (H x V)	mm	1196x660										1260x780													
有效頂出行程①	Effective ejector stroke ①	mm	150										150													
轉盤容模直徑②	Rotary table diameter ②	mm	1300										1420													

射 出 單 元	Injection unit	UNIT	FB-850R				☆FB-850R				FB-1000R			
類型	Type	-	1301	3261			401	1301	1301	3261				
螺桿直徑	Screw diameter	mm	50	60	70		30	45	50	60	70			
理論射出量	Shot weight of injection (PS)	gram	511	874	1400		129	414	511	874	1400			
射出壓力	Injection pressure	kgf/cm²	2240	2882	2117		2878	2765	2240	2882	2117			
料管中心距離	Distance between barrel centers	mm	650				650				710			
夾 模 單 元	Mold clamping unit													
閉模力	Mold clamping force	tonf	850				850				1000			
夾模行程	Mold clamping stroke	mm	1000				1000				1080			
模厚	Mold thickness	mm	500~1050				500~1050				550~1350			
大柱內距	Tie bar spacing (H x V)	mm	1060x1010				1060x1010				1260x1130			
有效頂出行程①	Effective ejector stroke ①	mm	145				145				140			
轉盤容模直徑②	Rotary table diameter ②	mm	1460				1460				1570			

射 出 單 元		Injection unit	UNIT	FB-1250R						FB-1420R					
類型	Type	-	1301	3261			1301			3261			5001		
螺桿直徑	Screw diameter	mm	50	60	70		50	60	70	80	90				
理論射出量	Shot weight of injection (PS)	gram	511	874	1400		511	874	1400	2057	2604				
射出壓力	Injection pressure	kgf/cm ²	2240	2882	2117		2240	2882	2117	2198	1737				
料管中心距離	Distance between barrel centers	mm	710						710						
夾 模 單 元		Mold clamping unit													
閉模力	Mold clamping force	tonf	1250						1420						
夾模行程	Mold clamping stroke	mm	1200						1400						
模厚	Mold thickness	mm	600~1400						700~1600						
大柱內距	Tie bar spacing (H x V)	mm	1360x1210						1460x1330						
有效頂出行程①	Effective ejector stroke ①	mm	140						140						
轉盤容模直徑②	Rotary table diameter ②	mm	1800						1900						



本機特點

- 活動車壁上有往復180度旋轉之轉盤，可生產雙色分明之產品。
- 機器動作可依產品需求，做托模再轉動轉盤，或先轉動轉盤再托模。
- 射出及夾模均採用線性電位計，可精確控制，準度達0.1mm。

Features

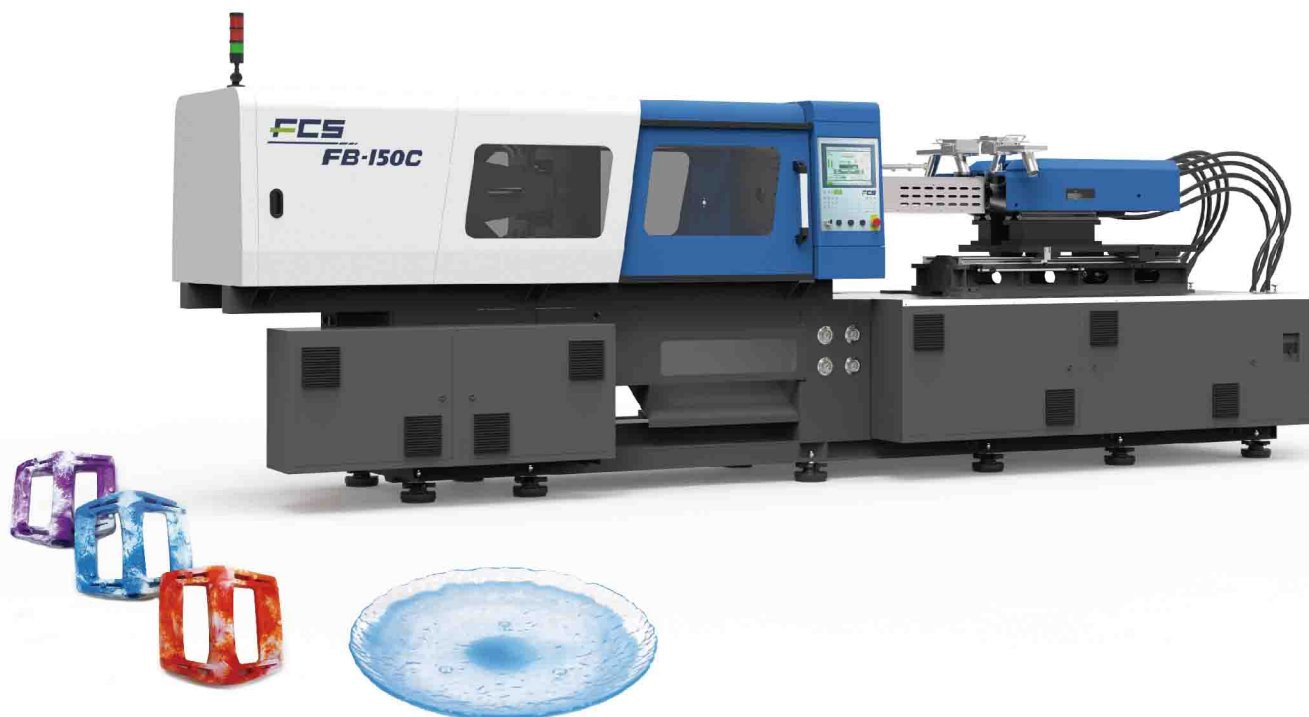
- There is a reciprocating 180-degree rotary table on the wall of moving car, which can produce two-component products.
- According to the request of product, the machine with flexibility could do ejection then turn the rotary table or turn rotary table first then do the ejection action as well.
- Both injection and clamp adopt linear potentiometer, which can be precisely controlled with the precision of 0.1mm.

射出單元	Injection unit	UNIT	FB-160T				FB-220T		FB-250T	
類型	Type	-	201				401		201	401
螺桿直徑	Screw diameter	mm	26	28	30	32	42	45	32	42
理論射出量	Shot weight of injection (PS)	gram	66	77	88	100	252	289	100	252
射出壓力	Injection pressure	kgf/cm ²	2791	2406	2096	1842	1468	1279	1842	1468
料管中心距離	Distance between barrel centers	mm	400				300		300	
夾模單元	Mold clamping unit									
閉模力	Mold clamping force	tonf	160				220		250	
夾模行程	Mold clamping stroke	mm	320				450		530	
模厚	Mold thickness	mm	200~570				200~500		200~580	
大柱內距	Tie bar spacing (H x V)	mm	730x400				520x460		580x580	

射出單元	Injection unit	UNIT	FB-280T				FB-400T		FB-600TW	
類型	Type	-	401				401	1301	1600	550
螺桿直徑	Screw diameter	mm	32	36	40	45	36	50	68	50
理論射出量	Shot weight of injection (PS)	gram	146	185	229	289	185	511	925	357
射出壓力	Injection pressure	kgf/cm ²	2529	1998	1619	1279	1998	2240	1574	1411
料管中心距離	Distance between barrel centers	mm	500				550		160	
夾模單元	Mold clamping unit									
閉模力	Mold clamping force	tonf	280				400		600	
夾模行程	Mold clamping stroke	mm	450				600		900	
模厚	Mold thickness	mm	250~700				250~700		200~1000	
大柱內距	Tie bar spacing (H x V)	mm	950x540				1100x610		880x880	

夾層/混色射出機 Sandwich / Interval Injection Molding Machine

FB-C SERIES
100-350



本機特點

- 兩組射出機構為獨立設計，可任意變換設定不同壓力速度，進而產生不同花紋變化。
- 對內外層不同塑料之產品，可取代二次加工改為一次成型。
- 普通單色模亦可使用本機種射出，而變成多色產品。

Features

- The two sets of injection machine are designed independently and can be set to different pressure speeds, which can generate different pattern changes.
- For products with different outer and inner-layer materials, traditional two-step insert molding becomes one-step.
- Ordinary monochrome mold can also use the type of injection, and become multi-component products.

射出單元	Injection unit	UNIT	FB-100C		FB-150C	
類型	Type	-	201	201	201	201
螺桿直徑	Screw diameter	mm	28	30	30	32
理論射出量	Shot weight of injection (PS)	gram	77	88	88	110
射出壓力	Injection pressure	kgf/cm ²	2406	2096	2096	1842
夾模單元	Mold clamping unit					
閉模力	Mold clamping force	tonf	100		150	
夾模行程	Mold clamping stroke	mm	350		460	
模厚	Mold thickness	mm	100~430		130~550	
大柱內距	Tie bar spacing (H x V)	mm	355x355		462x462	
射出單元	Injection unit	UNIT	FB-250C		FB-350C	
類型	Type	-	401	401	1301	1301
螺桿直徑	Screw diameter	mm	40	40	50	50
理論射出量	Shot weight of injection (PS)	gram	229	229	511	511
射出壓力	Injection pressure	kgf/cm ²	1619	1619	2240	2240
夾模單元	Mold clamping unit					
閉模力	Mold clamping force	tonf	250		350	
夾模行程	Mold clamping stroke	mm	550		645	
模厚	Mold thickness	mm	200~670		200~790	
大柱內距	Tie bar spacing (H x V)	mm	555x555		680x680	



本機特點

- 轉盤採用伺服電機控制，運轉高速，與插銷機構實現六位置雙重精確定位，保證轉盤迴轉精度，並可實現兩工位、三工位、四工位多組分射出成型。
- 搭配比例閥開關模和頂出，中子同動功能，可滿足精確開合模控制及週期快速需求。
- 高強度分離式滑腳結構設計，提升活動範本承載能力和穩定性。
- 二板式夾模單元配置抽大柱功能，方便換模，佔地空間小，有益於工廠空間配置。

Features

- The turntable is controlled by servomotor, and runs at high speed. The latch mechanism realizes the double accurate positioning of six positions, ensuring the rotation accuracy of the turntable. Multi-component injection molding of two stations, three stations and four stations can be realized.
- Matched with the proportional valve switch mold and ejector, and the neutron simultaneous function, the machine can meet the needs of accurate opening and closing mode control and fast cycle.
- The high-strength separate sliding foot structure design improves the bearing capacity and stability of the movable mold plates.
- The two-platen clamping unit is equipped with the function of removing tie bars. It makes mold replacement convenient and occupies a small space, which is beneficial to the factory space configuration.

射 出 單 元	Injection unit	UNIT	GW-1000R				GW-1200R				GW-1400R				GW-1600R							
類型	Type	-	1301 3261				1301 3261				1301 3261 5001				1301 3261 5001							
螺桿直徑	Screw diameter	mm	45	50	60	70	45	50	60	70	45	50	60	70	80	90	45	50	60	70	80	90
理論射出量	Shot weight of injection (PS)	gram	414	511	874	1400	414	511	874	1400	414	511	874	1400	2057	2604	414	511	874	1400	2057	2604
射出壓力	Injection pressure	kgf/cm ²	2765	2240	2882	2117	2765	2240	2882	2117	2765	2240	2882	2117	2198	1737	2765	2240	2882	2117	2198	1737
料管中心距離	Distance between barrel centers	mm	710				710				710				710							
夾 模 單 元	Mold clamping unit																					
閉模力	Mold clamping force	tonf	1000				1200				1400				1600							
夾模行程	Mold clamping stroke	mm	2200~1400				2300~1500				2400~1500				2400~1500							
模厚	Mold thickness	mm	550~1350				600~1400				700~1600				700~1600							
大柱內距	Tie bar spacing (H x V)	mm	1260x1130				1360x1230				1460x1360				1530x1380							

射 出 單 元	Injection unit	UNIT	GW-1800R						GW-2200R						GW-2400R						GW-2900R							
類型	Type	-	1301		3261		5001		1301		3261		5001		1301		3261		5001		1301		3261		5001			
螺桿直徑	Screw diameter	mm	45	50	60	70	80	90	45	50	60	70	80	90	45	50	60	70	80	90	45	50	60	70	80	90		
理論射出量	Shot weight of injection (PS)	gram	414	511	874	1400	2057	2604	414	511	874	1400	2057	2604	414	511	874	1400	2057	2604	414	511	874	1400	2057	2604		
射出壓力	Injection pressure	kgf/cm ²	2765	2240	2882	2117	2198	1737	2765	2240	2882	2117	2198	1737	2765	2240	2882	2117	2198	1737	2765	2240	2882	2117	2198	1737		
料管中心距離	Distance between barrel centers	mm	710						710						710						710							
夾 模 單 元	Mold clamping unit																											
閉模力	Mold clamping force	tonf	1800						2200						2400						2900							
夾模行程	Mold clamping stroke	mm	2550~1650						3200~2000						3200~2000						3500~2200							
模厚	Mold thickness	mm	700~1600						800~2000						800~2000						900~2200							
大柱內距	Tie bar spacing (H x V)	mm	1870x1450						2000x1600						2100x1700						2300x1900							

二板式X型四射多組分射出機

Two-Platen X-Type Multi-Component Injection Molding Machine (with 4-injection)

GW-R SERIES / X型

1600-2200



本機特點

- X型四射呈矩形四角分佈，射出單元結構集中緊湊，布局彈性，可滿足多種產品成型需求。
- 每組射出搭配高精度閉環控制技術，提高重複精度，優化產品品質。
- 四組射出單元可適應多種模具需求，彈性變化使用的射出單元，可進行雙色、三色、四色產品的效率化彈性生產，無需進行射出單元的移動或更換。
- 超大直徑垂直轉盤及迴轉空間，通過特殊的軸承組設計，可承載達25噸模組。

Features

- The X-type four-injection units are distributed in rectangular four corners, the injection unit structure is concentrated and compact, and the layout is flexible, which can meet the molding needs of a variety of products.
- Each injection unit is equipped with high-precision closed-loop control technology to improve repetition accuracy and optimize product quality.
- The four injection units can be adapted to a variety of mold requirements and can be flexibly selected. Two-component, three-component, and four-component products can be efficiently and flexibly produced without moving or changing the injection units.
- The machine has large-diameter vertical turntable and rotation space, which can carry up to 25 tons of modules through a special bearing pack design.

射出單元	Injection unit	UNIT	GW-1600Rp X型			
類型	Type	-	3261	1301	1301	1301
螺桿直徑	Screw diameter	mm	70	45	45	50
理論射出量	Shot weight of injection (PS)	gram	1400	318	318	393
射出壓力	Injection pressure	kgf/cm ²	2083	2765	2765	2240
料管中心距離	Distance between barrel centers	mm	600x600			
夾模單元	Mold clamping unit					
閉模力	Mold clamping force	tonf	1600			
夾模行程	Mold clamping stroke	mm	2550~1650			
模厚	Mold thickness	mm	700~1600			
大柱內距	Tie bar spacing (H x V)	mm	1870x1450			
射出單元	Injection unit	UNIT	GW-2200R X型			
類型	Type	-	3261	1301	1301	1301
螺桿直徑	Screw diameter	mm	70	45	45	50
理論射出量	Shot weight of injection (PS)	gram	1190	318	318	393
射出壓力	Injection pressure	kgf/cm ²	2083	2765	2765	2240
料管中心距離	Distance between barrel centers	mm	600x600			
夾模單元	Mold clamping unit					
閉模力	Mold clamping force	tonf	2200			
夾模行程	Mold clamping stroke	mm	3200~2000			
模厚	Mold thickness	mm	800~2000			
大柱內距	Tie bar spacing (H x V)	mm	2000x1600			



本機特點

- 二組對射式射出單元，單色及雙色重模成型，可一機二用。
- 水平式旋轉盤，降低傳統的慣性問題及重力影響。
- 水平轉盤定位快速，設有安全定位裝置。
- 具模具高承載重量，適用雙色中、大型產品，特別是汽車零組件。
- 具特殊製程之整合性，如搭配特殊四面模具，即可形成疊層模(Stack mold)。

Features

- Its dual-colored injection capabilities could applicable for both single and double component products to increase machine capabilities.
- A horizontal rotary platen decreases issues coming from gravity and inertia.
- Its swivel unit provides quick positioning and is equipped with numerous safety features.
- High loading capacity and self-supporting swivel unit to hold a maximum mold weight of up to 30 tons. Suitable for two-colored, large products like automotive exterior components.
- With a special process integration, such as a special four-sided mold, then can form a stack mold.

射 出 單 元	Injection unit	UNIT	HB-350R		HB-550R		HB-900R	
螺桿標記	Screw type	-	A	B	A	B	A	B
螺桿直徑	Screw diameter	mm	54	54	62	54	75	54
理論射出量	Shot weight of injection (PS)	gram	583	583	840	583	1688	583
射出壓力	Injection pressure	kgf/cm ²	2497	2497	2387	2497	2466	2497
夾 模 單 元	Mold clamping unit							
閉模力	Mold clamping force	tonf	350		550		900	
夾模行程	Mold clamping stroke	mm	1600		1600		2400	
模厚	Mold thickness	mm	400~600	400~600	600~750	600~750	600~1000	600~1000
大柱內距	Tie bar spacing (H x V)	mm	680x680		910x810		1120x1120	

射 出 單 元	Injection unit	UNIT	HB-1400R		HB-1900R		HB-2400R		HB-3500R	
螺桿標記	Screw type	-	A	B	A	B	A	B	A	B
螺桿直徑	Screw diameter	mm	85	54	85	54	110	95	110	95
理論射出量	Shot weight of injection (PS)	gram	2219	583	2219	583	4668	2901	4668	2901
射出壓力	Injection pressure	kgf/cm ²	2445	2497	2445	2497	2008	2199	2008	2199
夾 模 單 元	Mold clamping unit									
閉模力	Mold clamping force	tonf	1400		1900		2400		3500	
夾模行程	Mold clamping stroke	mm	3650		4000		4200		4950	
模厚	Mold thickness	mm	600~1600	600~1600	650~1650	650~1650	800~1800	800~1800	950~2050	950~2050
大柱內距	Tie bar spacing (H x V)	mm	1550x1350		1800x1550		2000x1700		2300x1900	

PET瓶胚專用射出機

PET Preform Injection Molding Machine

HT-P SERIES
200-750



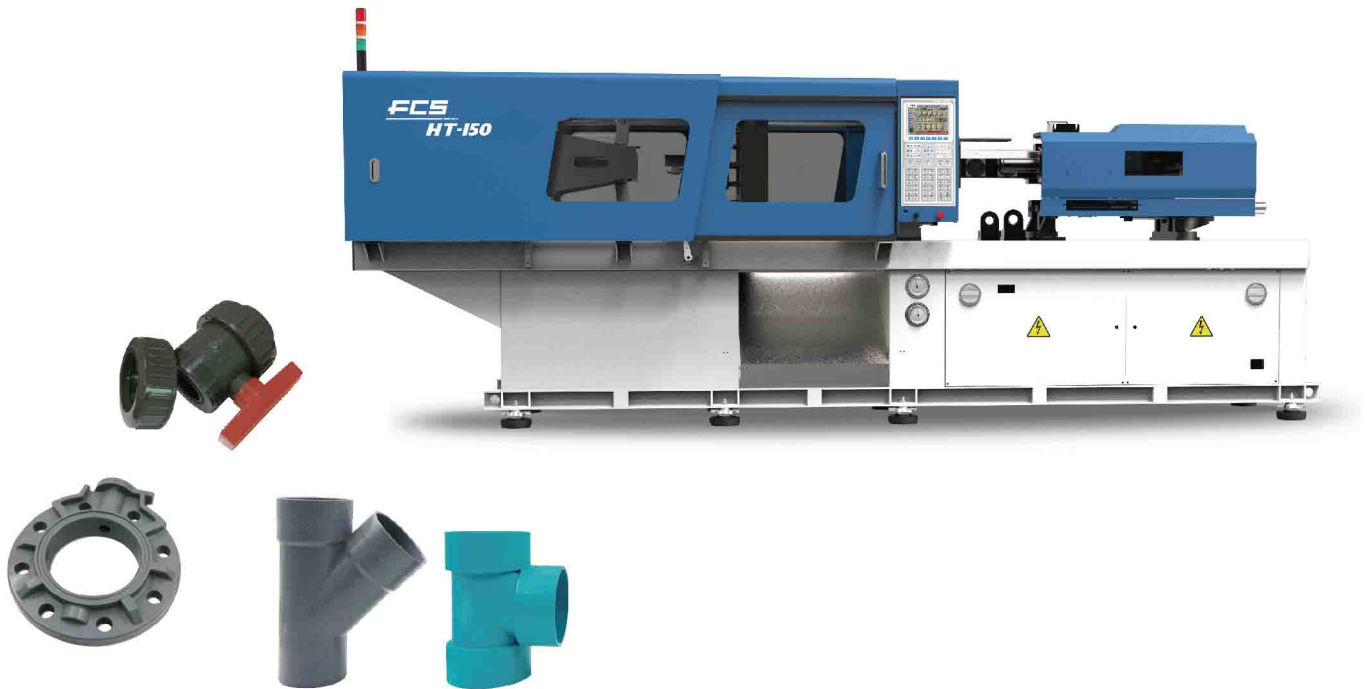
本機特點

- PET專用料管設計，加大螺桿外徑及LD比，提高射出量及加料速度。
- 主要生產24~96穴瓶胚，配置電動加料，形成雙迴路同動（邊開模邊加料），成型週期縮短約4~6秒。
- 可搭配模具、吹瓶、充填、包裝等設備，提供客戶整廠需求解決方案。
- 機種應用廣泛，可生產各式PET瓶胚，如：水瓶、熱充填瓶、油瓶、廣口瓶及5加侖大型瓶胚等。

Features

- PET special material design, increase the screw diameter and LD ratio, increase the injection volume and feed rate.
- It mainly products of 24 to 96 preforms, with the configuration of electric feeding, forming a double loop with the same action (as mold opening as feeding), molding cycle shortened about 4 to 6 seconds.
- It can be used with molds, blow bottles, filling, packaging and other equipment to provide customers with whole plant demand solutions.
- This series is great for producing various PET preforms, such as water bottles, hot-filled bottle, cooking oil bottles, wide mouth bottles, and 5- gallon large performs, etc.

射出單元	Injection unit	UNIT	HT-200P	HT-250P	HT-300P
螺桿直徑	Screw diameter	mm	55	70	90
理論射出量	Shot weight of injection (PET)	gram	522	1015	2140
射出壓力	Injection pressure	kgf/cm ²	1166	1276	1133
夾模單元	Mold clamping unit				
夾模行程	Mold clamping stroke	mm	510	550	600
模厚	Mold thickness	mm	200~610	200~650	200~650
大柱內距	Tie bar spacing (H x V)	mm	505x505	555x555	605x605
射出單元	Injection unit	UNIT	HT-400P	HT-600P	HT-750P
螺桿直徑	Screw diameter	mm	100	115	130
理論射出量	Shot weight of injection (PET)	gram	2936	4796	6275
射出壓力	Injection pressure	kgf/cm ²	1128	1049	1045
夾模單元	Mold clamping unit				
夾模行程	Mold clamping stroke	mm	660	900	1000
模厚	Mold thickness	mm	250~700	300~1100	350~1100
大柱內距	Tie bar spacing (H x V)	mm	730x730	880x880	980x980



本機特點

- PVC (含UPVC或CPVC) 專用料管組，採用鍍硬鉻螺桿組，耐腐蝕性佳。
- 獨立料管風機溫控，風機各段獨立控制，防止塑料過熱裂解、碳化。
- 安全門鉸金加寬設計，可配合客戶需求進行客製化。(選配)
- 大扭矩塑化馬達，專為高黏度PVC (UPVC)所設計，確保塑化過程及熔膠穩定性。
- 標配雙中子迴路(一公一母)，提供模具抽芯使用。

Features

- Specially-designed barrel set for PVC, UPVC, or CPVC processing, nitrided screw tip provides longer life against corrosive PVC processing.
- Independent-controlled blowers on barrel zone prevents thermal degradation of heat sensitive PVC material resulting in black spot on the product.
- Customized safety gate extension allows the customer to use wider range of mold. (Optional)
- Larger torque charging motor, specially-designed barrel set for high viscosity PVC (UPVC) processing ensures the melt stability and excellent plasticizing.
- Standard features with two core pull to connect with core cylinder of molds.

射出單元	Injection unit	UNIT	HT-100PVC		HT-125PVC		HT-150PVC		HT-200PVC		HT-250PVC		HT-300PVC		HT-350PVC	
螺桿直徑	Screw diameter	mm	40	44	40	44	44	50	54	62	62	68	62	68	68	75
理論射出量	Shot weight of injection (PVC)	gram	301	365	301	365	365	471	659	869	1014	1220	1014	1220	1333	1621
射出壓力	Injection pressure	kgf/cm ²	2205	1822	2205	1822	1822	1411	2144	1626	1894	1574	1894	1574	1985	1631
夾模單元	Mold clamping unit															
閉模力	Mold clamping force	tonf	100		125		150		200		250		300		350	
夾模行程	Mold clamping stroke	mm	350		410		460		510		550		610		645	
模厚	Mold thickness	mm	120~430		120~490		130~550		200~610		200~670		200~730		200~790	
大柱內距	Tie bar spacing (H x V)	mm	355x355		405x405		462x462		505x505		555x555		605x605		680x680	

射出單元	Injection unit	UNIT	HT-400PVC		HT-470PVC		HT-530PVC		HT-600PVC		HT-750PVC		HT-850PVC		HT-1000PVC	
螺桿直徑	Screw diameter	mm	68	75	75	85	85	95	85	95	95	105	100	110	110	120
理論射出量	Shot weight of injection (PVC)	gram	1333	1621	2225	2858	2858	3571	2858	3571	3656	4466	4239	5129	5642	6715
射出壓力	Injection pressure	kgf/cm ²	1985	1631	2466	1920	1920	1537	1920	1537	1957	1602	1985	1640	1749	1470
夾模單元	Mold clamping unit															
閉模力	Mold clamping force	tonf	400		470		530		600		750		850		1000	
夾模行程	Mold clamping stroke	mm	660		730		800		900		1000		1000		1100	
模厚	Mold thickness	mm	250~800		250~800		350~900		350~1100		350~1100		350~1200		400~1300	
大柱內距	Tie bar spacing (H x V)	mm	730x730		820x800		840x830		880x880		980x980		1060x1010		1260x1130	

電木射出機

Thermosetting Injection Molding Machine

HN-U SERIES
125-530



本機特點

- 適用於熱固性成型材料，且可由熱固性轉換為熱可塑性機。
- 採用熱固性原料專用螺桿與料管，特別選用耐腐蝕及耐磨耗材質。
- 容積式電動注油裝置，潤滑效果良好，確保機器精密度。
- 拔心和轉牙裝置具有多項功能設計，適用各種模具。

Features

- Suitable for the thermosetting plastic and exchangeable between thermo-plastic and thermosetting barrel.
- Specialized screw and barrel for thermosetting, special treated steel of barrel set for anti-erosion and wear when using thermosetting material.
- Fully automatic lubrication device ensures excellent lubrication and assures machines' accuracy.
- Core pull and unscrewing device has multi-sequence design, suitable for all kinds of molds.

射出單元	Injection unit	UNIT	HN-125U		HN-150U		HN-200U	HN-250U
螺桿直徑	Screw diameter	mm	32	36	36	40	50	62
理論射出量	Shot weight of injection (PF)	gram	177	224	249	308	530	1014
射出壓力	Injection pressure	kgf/cm ²	3110	2458	2999	2429	1722	1894
夾模單元	Mold clamping unit							
閉模力	Mold clamping force	tonf	125		150		200	250
夾模行程	Mold clamping stroke	mm	410		460		510	550
模厚	Mold thickness	mm	120~490		130~550		140~560	160~620
大柱內距	Tie bar spacing (H x V)	mm	405x405		462x462		505x505	555x555
射出單元	Injection unit	UNIT	HN-300U		HN-350U		HN-470U	HN-530U
螺桿直徑	Screw diameter	mm	62		70		80	85
理論射出量	Shot weight of injection (PF)	gram	1014		1412		2050	2314
射出壓力	Injection pressure	kgf/cm ²	1894		1873		1763	1562
夾模單元	Mold clamping unit							
閉模力	Mold clamping force	tonf	300		350		470	530
夾模行程	Mold clamping stroke	mm	610		645		730	800
模厚	Mold thickness	mm	180~680		190~740		250~750	350~850
大柱內距	Tie bar spacing (H x V)	mm	605x605		680x680		820x800	840x830



本機特點

- 採用單缸油壓式自動供料裝置，可提供穩定的進料功能。
- 可搭配ACC蓄壓射出裝置，提供瞬間高速能量，進行高速射出成型。
- 車壁配置隔熱墊板，模溫控制更精準。
- 具有填料台設計，塑料補充作業更方便。(BMC-250以上)

Features

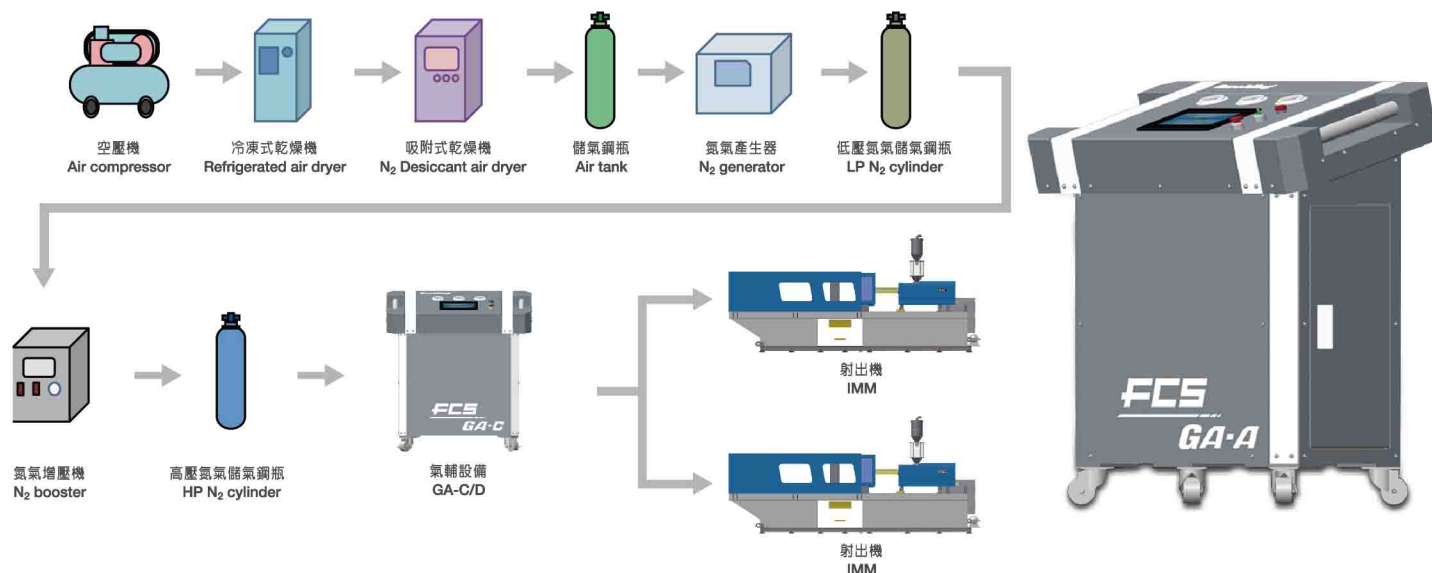
- Single hydraulic cylinder of auto-feeding mechanism, it stabilizes the material feed.
- Applied to Accumulator on injection unit, it can conduct high-speed molding process. (optional)
- The platen is equipped with insulation plate, it provides more precise mold temperature.
- Applied the filling material stand, it is convenient to fill material (over BMC-250).

射出單元	Injection unit	UNIT	HN-150BMC	HN-250BMC	HN-300BMC
螺桿直徑	Screw diameter	mm	62	62	62
理論射出量	Shot weight of injection (BMC)	gram	1331	1331	1331
射出壓力	Injection pressure	kgf/cm ²	1675	1675	1675
夾模單元	Mold clamping unit				
閉模力	Mold clamping force	tonf	150	250	300
夾模行程	Mold clamping stroke	mm	460	550	610
模厚	Mold thickness	mm	130~520	160~640	180~710
大柱內距	Tie bar spacing (H x V)	mm	460x460	555x555	605x605
射出單元	Injection unit	UNIT	HN-350BMC	HN-530BMC	HN-600BMC
螺桿直徑	Screw diameter	mm	68	76	76
理論射出量	Shot weight of injection (BMC)	gram	1601	2285	2285
射出壓力	Injection pressure	kgf/cm ²	1393	1512	1512
夾模單元	Mold clamping unit				
閉模力	Mold clamping force	tonf	350	530	600
夾模行程	Mold clamping stroke	mm	645	800	900
模厚	Mold thickness	mm	190~770	350~880	350~1060
大柱內距	Tie bar spacing (H x V)	mm	680x680	840x830	860x860

氣體輔助射出成型系統

Gas Assisted Injection Molding System

GA SERIES



本機特點

- 人機觸控介面 & 動態圖形監控成型壓力。
- 五段氣體壓力及流量控制。
- 閉迴路壓力控制25~300 kg/cm²；響應時間小於1.5s。
- 有效防止產品表面凹陷縮水。
- 減重省料，降低生產成本。

Features

- With touch panel & graphic display for monitoring pressure within the mold.
- 5 Stages of air pressure of and flow control.
- Closed-loop pressure control from 25~300 kg/cm²; response time is less than 1.5 seconds.
- Effectively prevent product from sinking and shrinking.
- Material saving, keep the cost down.

項 目	Item	UNIT	GA-A/B (完整型 Complete type)		GA-C/D (控制型 Control type)
類 型	Type	-	高壓 High pressure	低壓 Low pressure	-
特 色	Feature	-	適合搭配單一射出成型機試模及少量生產使用 Suit with the single IMM for trial or pilot run.		適合搭配多台射出成型機生產使用 Suit with the multiple IMM to produce.
機台電壓	Voltage	-	AC110V		AC110V
氮氣入口工作壓力	N ₂ input pressure	bar	10-140		依搭配之氮氣增壓機而定 This value may refers to the N ₂ booster used.
氮氣出口工作壓力	N ₂ output pressure	bar	300	依搭配之氮氣瓶而定 This value may refers to the N ₂ cylinder used.	依搭配之氮氣增壓機而定 This value may refers to the N ₂ booster used.
空氣源流量	Air flow	nL/min	>1000		>100
空氣源入口壓力	Air input pressure	bar	8(使用5/16"公快速接頭)x2 8(quick coupling 5/16")x2	7(使用5/16"公快速接頭)x1 7(quick coupling 5/16")x1	8(使用1/4"公快速接頭)
氮氣出口數	N ₂ output	-	A type: 2 / B type: 1		C type: 2 / D type: 1
高壓氮氣儲存鋼瓶	N ₂ high pressure cylinders	-	標準 Standard	-	選配 Optional
氮氣增壓機	N ₂ booster	-	標準 Standard	-	選配 Optional
尺 寸	Dimension (H x L x W)	mm	1200 x 625 x 1030		1200 x 625 x 1030
重 量	Weight	kg	300	180	200
建議選購設備	Peripherals	-	1.空壓機 Air compressor 2.瓶裝氮氣 N ₂ cylinders (6nL/135 bar)		1. 空壓機 Air compressor 2. 冷凍式乾燥機 Refrigerated air dryer 3. 吸附式乾燥機 N ₂ desiccant air dryer 4. 氮氣產生器 N ₂ generator 5. 氮氣增壓機 N ₂ booster 6. 低壓氮氣儲存鋼瓶 LP N ₂ cylinder 7. 高壓氮氣儲存鋼瓶 HP N ₂ cylinder

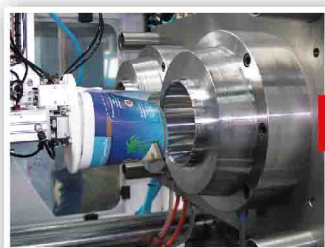
模內貼標系統 In Mold Labeling 整廠規劃服務 Turnkey Solution

模內貼標系統 In Mold Labeling



模內貼標程序 IML Process

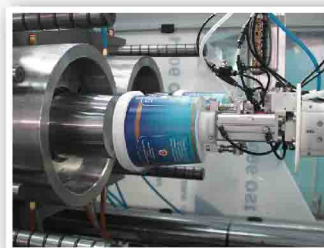
1 開模時置入標籤紙
Inserting label when mold open.



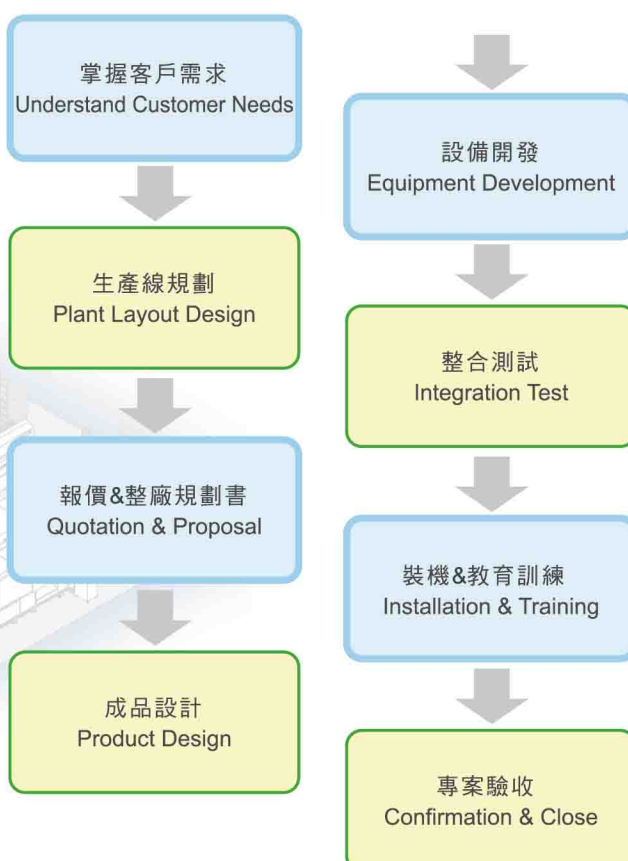
2 關模並射出
Closing mold and finish injection.



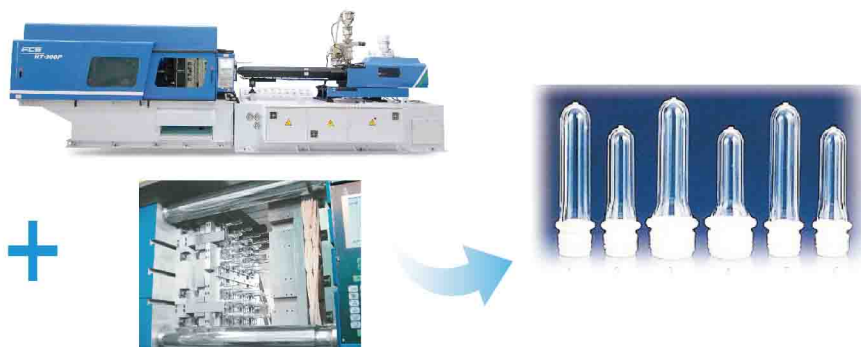
3 成型品取出
Taking out the product.



整廠規劃服務 Turnkey Solution



瓶胚生產
PET PREFORM



瓶蓋生產
CAP PRODUCTION



吹瓶生產
BOTTLE BLOWING



充填包裝
PACKAGING



■ 模具暨營業技術支援服務 Mold & Product Technical Support Service

富強鑫集團(FCS)為臺灣射出成型機製造業的領導品牌，且為業界首家通過CE與ISO-9001認證與股票公開發行的射出機製造廠。為提供全方位服務，FCS成立專責模具開發及成型系統整合的營業技術單位，多年來專注在如多模穴PET瓶胚 / 採血管、IML薄型容器、精密光學元件等產業，透過系統性的整合與整廠規劃，完美提供全面的成型解決方案，滿足客戶一站購足、完整服務的需求。

Fu Chun Shin Machinery Manufacture Co., Ltd., also known as FCS, is the leading brand in the field of plastic injection molding industry in Taiwan, and also the first manufacturer to acquire CE and ISO 9001 certification, and went public on the stock market of Taiwan in IMM industry. FCS established its product technical support team which specializes in multi-cavity PET preforms, and vacuum blood tubes, IML thin-wall containers, precise optical unit molds, and also intelligent manufacturing consultation. With factory planning & systematic coordination, it provides a one-stop shopping and complete service experience, a "Total solution" to the clients.

■ 服務項目 Range of Service

- 各式精密塑膠射出模具設計開發
- 模流分析與最佳化模具設計方案
- 專用成型系統整合與銷售 (PET/IML/MED等)
- 整廠規劃與技術轉移 (含教育訓練)
- Design & development for diversified precise molds.
- Mold flow analysis & optimized solution for mold design.
- Specialized molding system: Sale & Integration. (PET/IML/Medical series)
- Turnkey solution planning & technology transferring. (operator's training included)

■ 各式模具設計開發 Diversified Molds Design

PET 瓶胚 / PET Preform  穴數 / Number of cavity : 8,16,24,32,48,64,72	薄型容器 / Thin wall Container  穴數 / Number of cavity : 1,2,4,8	民生五金 / Houseware  穴數 / Number of cavity : 單穴 / Single
醫療器材 / Disposable Medical Products  穴數 / Number of cavity : 單穴或多模穴 / Single or multi-cavity	汽車零件 / Automotive Parts  穴數 / Number of cavity : 單穴或多模穴 / Single or multi-cavity	PVC 管件 / PVC Fittings  穴數 / Number of cavity : 單穴或多模穴 / Single or multi-cavity

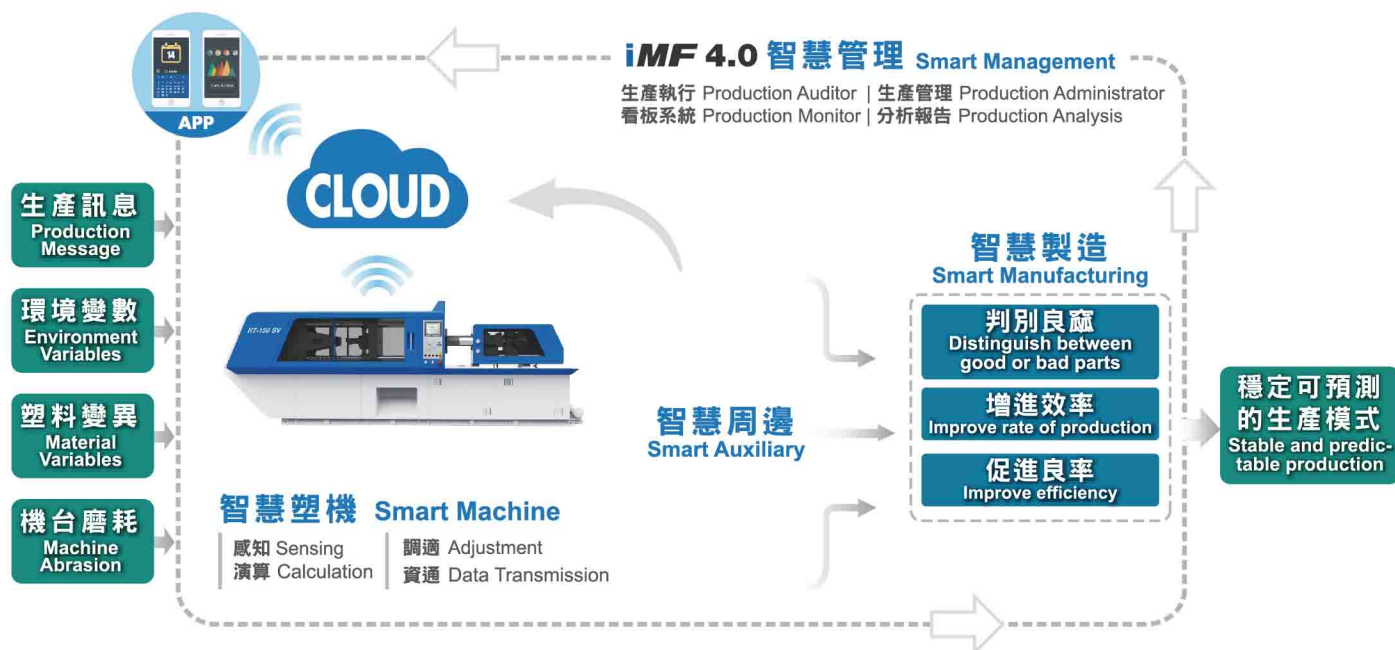
■ 模流分析與最佳化模具設計方案 Mold Flow Analysis & Optimized Solution for Mold Design

優勢能力

- 各類型產品之冷卻水路/流道系統優化分析。
- 光學元件充填分析與光彈模擬。
- 雙色/氣輔等特殊成型方案評估。
- 品質實驗設計與成型參數改善方案建議。
- 週邊自動化機械手整合模具測試。
- Optimal analysis & design of cooling channels & runner systems.
- Mold flow analysis & photoelasticity simulation for optical parts.
- Multi-component products & gas-assisted items molding solutions.
- Design of quality experiment & molding parameter improvement.
- Test with automatic robot integrated.

iMF 4.0 智慧製造工廠

intelligent ManuFactory



智慧塑機 Smart Machine

運用外加感測器，掌握因環境、塑料、設備磨耗的微量變異，提升射出機自適應調控能力。

Applying additional sensors to monitor and meet the slight fluctuations caused by the environment, material, or machine abrasion, and to improve the adaptive control of injection molding machines.

- 大柱鎖模力監視系統
Tie bar clamping force monitoring system
- 智慧化流動平衡系統
Intelligent flow balance system
- 熔體黏度變異自適應
Adaptive control for viscosity variation of melt
- 模具冷卻流量與溫度監視
Mold cooling flow and temperature monitoring system

智慧製造 Smart Manufacturing

- 判別良窳 Distinguish good or bad
- 增進效率 Improve rate of production
- 促進良率 Improve Effectiveness

由熔體變異或模穴壓力感測，即時線上監控品質，並搭配機械手臂檢出不良品，有效降低品檢人力。

Real-time online quality monitoring through the sensors of viscosity variation of melt, or cavity pressure, and detecting the defectives with automations, to effectively reduce the inspection manpower.

智慧周邊 Smart Auxiliary

透過標準通訊協定，達到設備運轉、互聯及調控之目的。

The IMM and auxiliaries could operate, communicate with each other through the standard communication protocol, to be adjusted and controlled.

- 機械手 Robot System
- 供料機 Material Feeding
- 模溫機 Heaters
- 冷凍機 Chillers
- 熱澆道 Hot Runner

智慧管理 Smart Management

透過智慧管理系統收集關鍵熔體變異數據。

Using intelligent managing system to collect the key data of viscosity variation of melt.

- 尋找生產進度瓶頸
Find the bottleneck of a better production
- 檢測品質偏移因素
Detect the deviation factors of molding quality
- 擬定預警維護，減少意外停機
Plan the preventive maintenance and reduce unexpected downtime.

使用微發泡的好處 Benefits

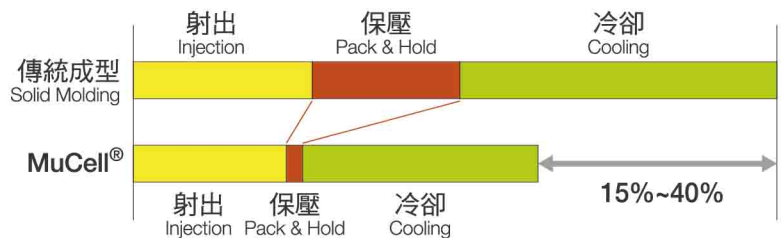
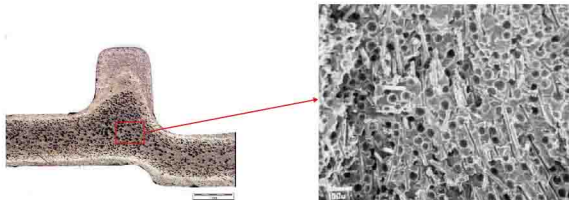
降低成本
Cost Reduction

永續性高
Sustainability

造型自由
Design Freedom

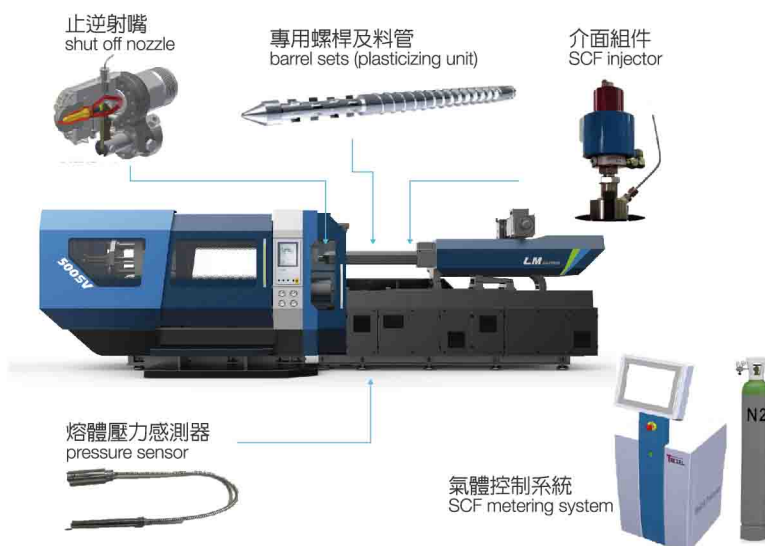
開發期短
Faster to market

MuCell® 應用優勢 Advantages

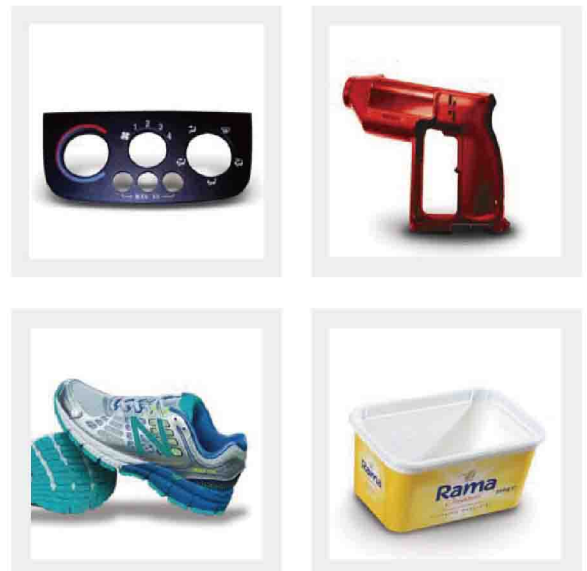


- **減重(輕量化)**
Weight reduction
- **降低鎖模力需求**
Machine clamping force reduction
- **縮短成型週期**
Cycle time reduction
- **減少成型不良問題**
Sustaintially reduce warpage & dimensional defect

MuCell® 製程設備 Implementation



應用實例 Application



塑膠棧板 Plastic Pallet



■ 塑膠棧板優點

- 一般環境使用PP塑料，若有低溫環境需求，建議使用HDPE塑料。
- 耐衝擊，防水，免於受潮腐爛。
- 免於蟲蛀問題，免煙燻。
- 堆高機及托板車皆可作業。

■ Advantages of plastic pallet

- Normal environment is recommended to use PP. Low temperature environment is recommended to use HDPE.
- Excellent impact resistance, waterproof and prevent from damped & rotted.
- Vermin proof, fumigation free.
- Fit for forklift and trailer.

■ 田字型棧板 Grid Plastic Pallet

- 適用於冷凍食品業、五金用品行業、電子產品行業使用。
- Suitable for frozen food, hardware, and electronic product packaging.



■ 川字型棧板 Three Runner Plastic Pallet

- 承載强度高，適用於倉儲理貨使用。
- High loading capacity, suitable for in-plant transportation.



■ 套疊型棧板 Piled Plastic Pallet

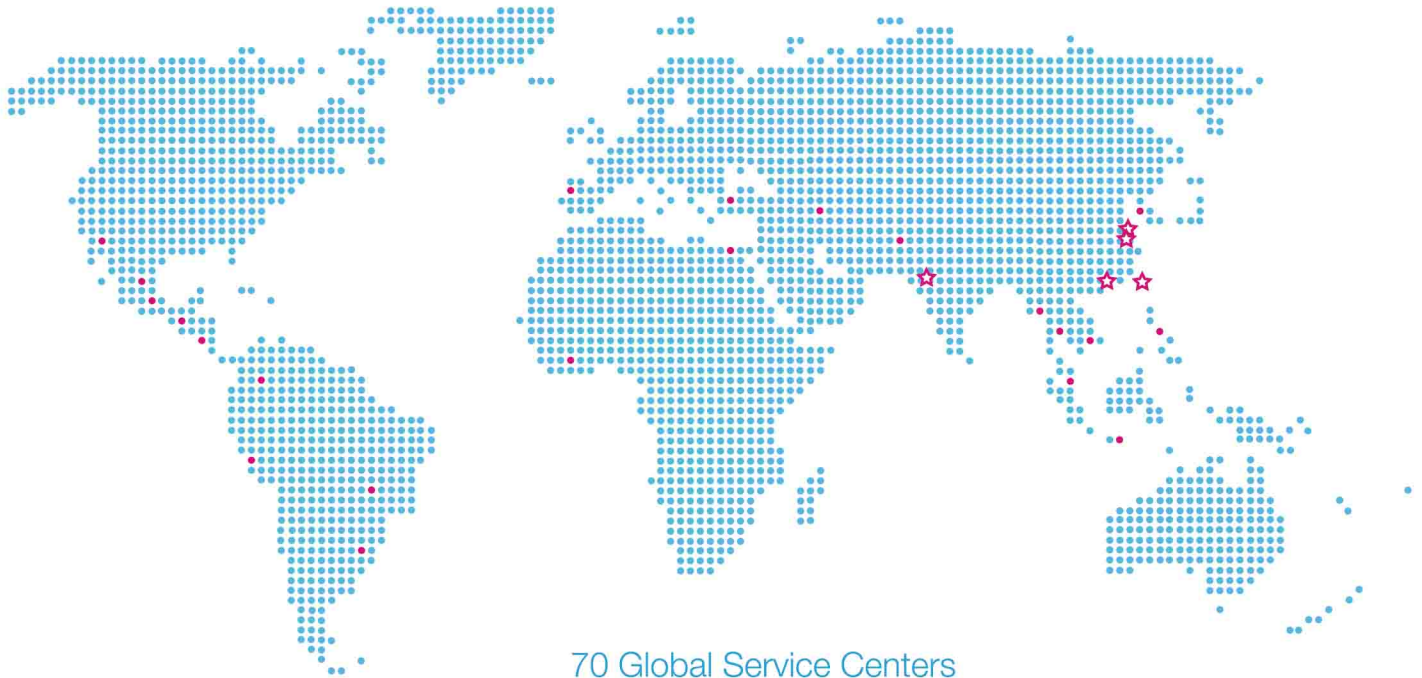
- 輕量型，免煙燻，適用於外銷出口使用。
- 運輸成本低，節省儲位空間達3/4。
- Lightweight, fumigation free, suitable for export packaging.
- Low transportation cost and saving storage space up to 75%.



■ 平面型棧板 Flat Plastic Pallet

- 易清洗，適用於醫藥業、食品業及無塵室用。
- 可正反堆疊，運輸成本低，節省儲位空間達1/2。
- Easy to clean, suitable for pharmaceutical, food packaging and clean room.
- Stackable, low transportation cost and saving storage space up to 50%.





富強鑫集團 FCS Group



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