

【全球行銷服務網】 Global Marketing Network



70 Global Service Centers

富強鑫集團 FCS Group

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HT SERIES

伺服節能環保型射出機

Servo Power-Saving Injection Molding Machine

HT系列機種應用範圍廣泛，如一般家用五金製品、電子資訊產品外殼、汽車部件、一般鏡片、框架等。此外，可配置歐美半閉迴路系統，有效免除油溫變異之干擾，提升成型精度及機台穩定性，可進一步生產光學元件、手機元件等精密度要求較高之產品。

The standard capability of the HT series makes it applicable to a wide range of products like housewares, electronic product casings, automotive parts, lens and frames. This series may apply a semi-closed loop system for more intricate products like optical or handset devices.

● 模組化

機構、油路、配線模組化，更替容易。

● 簡單

射座改良，射嘴校正容易；使用免潤材料，易於保養。

● 精密

選購半閉迴路，成型控制更精密。

● 快速

射速提高，空循環時間減短。

● 穩定

選購半閉迴路與高效率冷卻器，使成型更穩定。

● 潔淨

射出座採二硫化鉬塗佈襯套，永久免潤滑。

● 省能源

配備伺服節能系統，最高節能達70%。

● Modularized

Hydraulic, modularized mechanical components for low maintenance.

● User Friendly

Improved carriage design for easy nozzle alignment, maintenance, and management.

● Precise

A semi-closed loop system gives a more reliable molding process. (Optional)

● Fast

High injection speed to reduce cycle time.

● Stable

Semi-closed loop and high efficiency cooling system for a more stable molding process. (Optional)

● Clean

Uses Molybdenum Disulfide coated bushings, bearings and IHI Auto-lube systems for a clean & messfree maintenance.

● Power-Saving

Adopted FCS servo power-saving system which could reduce the energy consumption up to 70%.



文具用品 Stationery items



叉匙 Multi-Utensil



PVC管件 PVC fittings



FCS-6500S ▲

■ 應用功能

- 全新設計畫面風格與圖示，操作更為便利。
- 具多階密碼保護功能，記錄與限制各階使用者參數修改。
- 提供統計製程控制及射出波形圖，提高生產品質與效率。
- USB資料存取介面，模具參數、顯示畫面存取便利。
- 採多重通訊介面(USB、串行接口、Ethernet、EtherCAT、Sercos III)。
- 支援OPC協定，且依據IEC-61131設計，其特點為模組化並易於軟硬體維護。
- 多種語言可供客戶選擇。

■ Application

- New control is designed for easy operator interface.
- The multi-level password protection function is used to record and limit the parameters modification from various levels of users.
- Provide statistical process control and injection waveforms to improve production quality and efficiency.
- Convenient access to USB data, mold parameters and display screens.
- Multiple communication interfaces (USB, serial interface, Ethernet, EtherCAT, Sercos III).
- Control supports OPC protocol and has a modular design to easily maintain the software and hardware.
- Multiple languages are available for users.



- **新式調模機構**
調模機構與調模壁採整體式設計，使四支大柱受力均勻，鎖模力調整簡易準確。
- **New Mold Adjusting Mechanism**
The new mold adjusting platen mechanism design doesn't require its mounted nut for torque tuning and distributes force evenly on the tie bars.



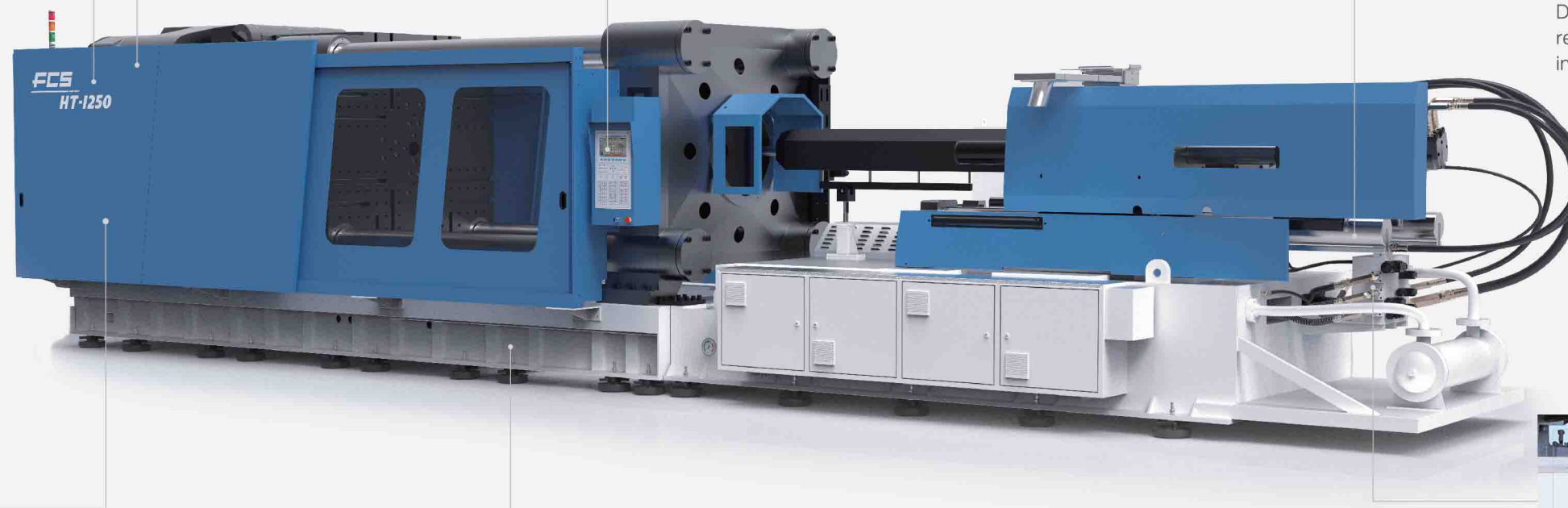
- **無給油軸承**
曲肘及車壁活動部位均採用無給油軸承，減少潤滑油使用，降低保養成本並可減少油污，提升機台清潔度。
- **Oil-less Bearing**
Oil-less bearing on the moving parts of platen and toggle, greatly reduces maintenance cost, and provides for a cleaner production environment.



- **電控單元**
 - 標配KEBA控制系統。
 - 動作掃描週期1ms以內。
 - 符合人體工程學佈局。
 - 具資料圖像監控功能。
- **Control system**
 - Standard equipped with KEBA control system.
 - Operation mode scan within 1ms.
 - Ergonomic layout.
 - Data image monitoring.



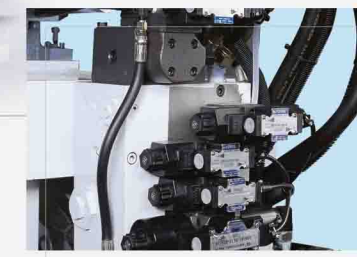
- **導柱式射移結構**
跨距縮短，避免料管前傾及導柱下垂變形。使用二硫化鉬塗佈襯套，阻力小，移動快速，且永久免潤滑，潔淨度高。
- **Injection Sliding Structure**
Injection Sliding Structure pillar guiding plate structure is shortened to avoid barrel inclination and deformation. And with Molybdenum Disulfide coated bushings, it produces a less resistant, faster moving, very clean, oil-free injection sliding structure.



- **自動潤滑系統**
循環式電動注油系統，油量分配平均，潤滑效率高，增長曲肘壽命。
- **Automatic Lubrication System**
An automatic lubrication system circulates and distributes oil equally for greater efficiency in lubrication and enhanced toggle life.

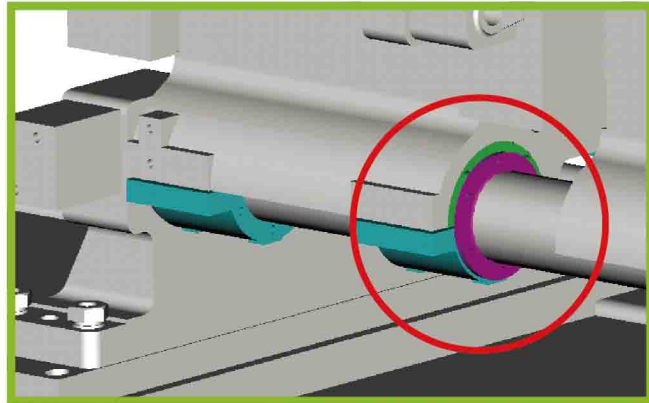
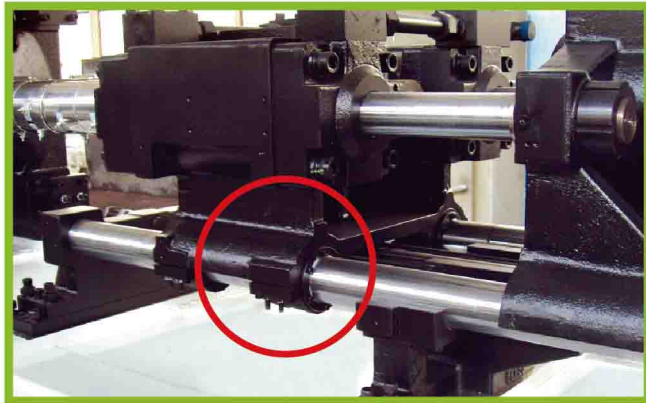


- **高剛性機架結構**
精簡堅固之設計，經有限元素分析變形量及應力分佈，確保機架結構及強度達到最佳化，使HT系列機種「穩如泰山」。
- **Highly Rigid Structure Frame**
Designed based on Finite Element Analysis (FEA) for Stress and Strain effects to ensure the HT's excellent frame structure.



- **數位背壓裝置**
可直接從電控螢幕設定背壓，操作簡易。
- **Digital Back Pressure Installation**
The back pressure can be directly changed and set on the controller for easy operation.

射出單元 Injection Unit



- **導柱射座，維修保養容易**

富強鑫的導柱式射座結構使用專利二硫化鉬塗佈襯套，並以半圓的夾持座適度鎖緊，使導柱孔與導柱軸沒有間隙，解決傳統導柱式射座容易下垂、上翹、變形、干擾及不易組立等問題。

- **免潤材料使用，潔淨環保美觀**

導桿經表面硬化、研磨、鍍鉻處理，而襯套及夾持座表面則經二硫化鉬皮膜處理，兩滑動的金屬表面被二硫化鉬皮膜隔離，使兩金屬面不受磨耗，加上其為乾式皮膜，阻力小，移動平穩快速且永久免潤滑，易於保養、潔淨度高。

- **Pillar guiding injection stand for easy maintenance.**

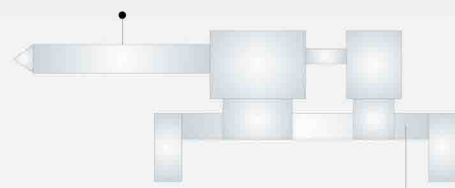
The pillars supporting the injection unit is equipped with patented semi-circular molybdenum disulfide-coated bushings to avoid issues from traditional guide bushings like bending, distortion and other issues.

- **Lubrication free parts for a clean working environment.**

The pillar surface was hardened, chromed, and even treated with molybdenum disulfide coating to avoid the quick wear and tear of the two metal surface during production. The coat layer provides a lubrication-free solution, less resistance, smooth and fast movement.

傳統導柱式 Conventional Guide Plate Design

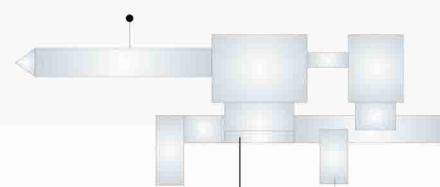
料管前端下垂，導致螺桿磨損。
Barrel deflection will accelerate wear of screw.



固定座跨距大，導柱易下垂彎曲變形。
Guide plate deflected, bent or deformed due to larger stand span.

FCS導柱式 FCS Developed Guide Plate

導柱孔與導柱軸沒有間隙，料管不下垂。
Clearance between the guide rod and plate has been re-designed to prevent deflection of the barrel.



二硫化鉬皮膜處理
無間隙、無磨耗、免潤滑。
Molybdenum Disulfide film treated for permanent lubrication free operation.

固定座跨距縮短，
導柱不彎曲變形。
Reduced span to prevent the guide plate from being bent or deformed.

夾模單元 Clamping Unit



- **機械規格加大，容模範圍更廣泛**

新一代HT系列採超大容模空間及超長行程之四方模板設計，其大柱內距及開模行程均特別加大，可用於更廣泛的模具尺寸及各類成型作業。
搭配新型機架結構，成品落下的空間寬廣，能彈性運用，可放置其它週邊設備，亦可視實際需求搭配多向輸送設備，以達整廠自動化之目的。

- **Extended mechanical specification and wider application range of mold accommodation.**

The next gen HT series feature a large daylight opening and longer opening strokes. All of these were enlarged to accommodate a wider range of mold sizes and types of operations. Its new frame allows even large finished product to freely fall and increase peripheral flexibility like a multi-directed delivery system using conveyers to achieve an automated plant setup.

- **車壁剛性強化，保護大柱及模具**

設計上採用有限元素分析(FEA)進行結構最佳化設計，確保夾模結構之剛性及強度。

- **Enhanced rigidity and reinforced tie bars and platens.**

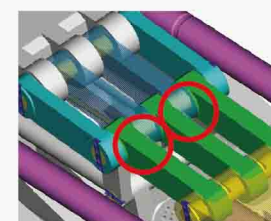
Advanced Pro/Engineer CAD was used to design the next gen HT series. FEA 3D models were set up for the optimal design of the structure to ensure rigidity and strength of the platens. FCS took it further with a performance measuring system that conducts planned analysis and studies on each parameter (including temperature, pressure, and speed) to ensure high consistency and precise performance.

- **內藏式安全桿，免調整安全性高**

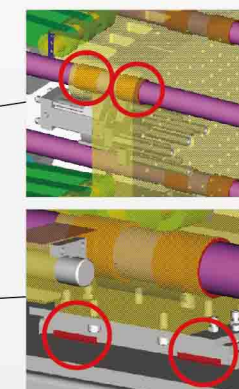
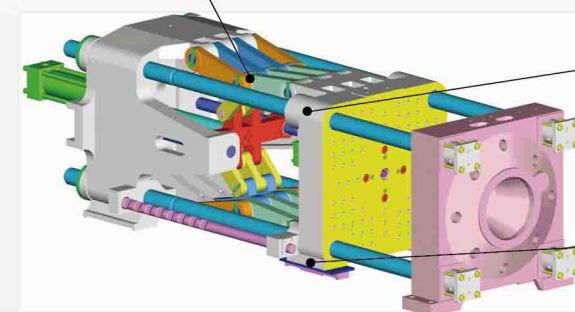
新型免調整安全桿機構，及先進的低壓關模保護迴路，直接由螢幕設定，快速簡便且保護靈敏，確保模具及操作人員安全。

- **Adjustment free, built-in safety bar for improved safety.**

Its newly developed non-adjusting safety bar mechanism and advanced LP mold close protection loop can be directly set up from the controller for a fast, easy and sensitive protection system to ensure the safety of mold and operators.



曲肘襯套使用無給油軸承搭配自動潤滑系統，潤滑確實、使用油量少。
Oiliness bearings used for the toggle sleeve adapted with automatic lubrication system to warrant reliable lubrication and minimum oil consumption.



活動壁襯套及活動壁滑腳使用德國B+S高分子耐磨材，大柱不易刮傷，永久免潤滑，使成型區十分潔淨。

Movable platen skates and movable platen sleeves use German B+S high-density wear resistance material, permanent lubrication free to help maintain the molding area extremely clean.

伺服節能系統 Servo Power-Saving System

高節能 High Power-Saving

在理想狀態下，比變量泵系統節能40%，比定量泵系統節能70%，有效節省能源成本。

Under ideal working conditions, power consumption is reduced by 40%, when compared to that of variable displacement and 70% less than that of fixed displacement pumps in an effort to become more efficient.

高精度 High Precision

低壓、低流量域的重複再現性為±0.5%，成型產品重量誤差約達0.7%~0.4%，接近半閉迴路控制的水平。FCS machine movement is precisely controlled even at low pressure and flow rates with variations of ±0.5%. The semi-closed loop hydraulic system can produce part weight error in the range of 0.4-0.7%.

高應答 Fast Response

性能穩定的伺服電機，配備了高精度、高靈敏的壓力回饋裝置，形成閉迴路精準控制，有效縮短週期，提高生產效率。

The dynamically controlled servo system is equipped with a pressure feedback monitoring device for high precision and sensitivity. The closed-loop design allows precise control, shorter cycle times and improved production efficiency.

低噪音 Low Noise

有別於傳統定量泵油壓機長期的運轉噪音，伺服節能型機台只在需要作動的時候運轉，運行噪音低於70dB，使您的工作區間更寧靜。

As opposed to a standard fixed pump hydraulic system, the HT series servo-pump is only "on" when there is fluid demand, which greatly reduces the noise level in the work area to less than 70dB.

低油溫 Low Oil Temperature

電機只有在需要作功時啟動，不會產生多餘熱能，可降低油路系統發熱現象，有效避免油溫上升，實現大幅節水的效益。

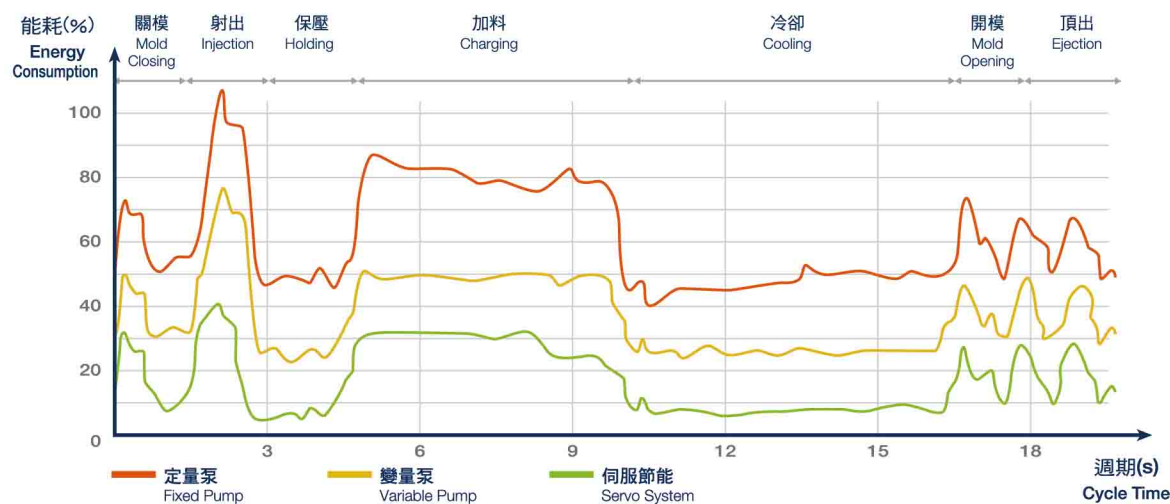
Due to the servo-pump efficiency, the hydraulic oil temperature is maintained at a lower temperature, which intensively saves water.

易操作 PQ Control

由射出機控制輸入壓力(P)、流量(Q)的模擬電路，當達到設定壓力時，會自動切換至壓力控制，無須手動進行複雜之操作。

Pressure (P) and flow (Q) can be controlled by a simple voltage signal into FCS' Computer Control System.

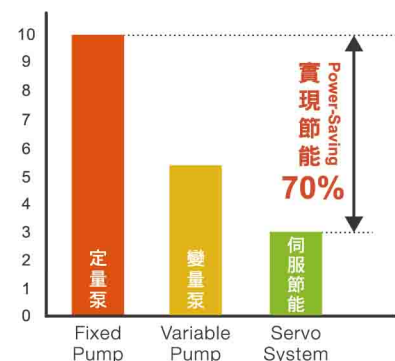
功率消耗曲線圖 Power Consumption Graph



耗電量比較 Power Consumption Comparison

根據產品、成型條件的不同，伺服節能射出機與傳統定量泵射出機相比，最高節能可達70%；與變量泵射出機相比，節能可達40%。

Depending on products and molding conditions the FCS injection molding machine can save up to 70% of the power required of fixed pump, and 40% more than variable pump injection molding machines.



節能效果比較 Comparison of Power-Saving

項目 ITEMS	定量泵 Fixed Pump	變量泵 Variable Pump	伺服節能 Servo System
成型穩定性 Stability	一般 General	差 Worse	佳 Better
射出重複精度 Precision	中等 Medium	低 Lower	高 Higher
機台運轉噪音 Noise	普通 Normal	小 Silent	最小 Silentest
電量節約程度 Power-Saving Degree	-	30~45%	40~70%
成型週期時間 Cycle Time	短 Shorter	長 Longer	中等 Medium
機台應答速度 Response	快 Quicker	慢 Slower	中等 Medium
機台維修成本 Maintenance & Repair Cost	低 Lower	一般 General	高 Higher
機台投資成本 Investment Cost	低 Lower	一般 General	高 Higher
投資回收期間 Payoff Period	短 Shorter	一般 General	長 Longer
節能系統壽命 System Life	長 Longer	壽命短，油路須保持清潔，保養成本較高。 Shorter. Hydraulic system must keep clean, maintenance cost is higher.	一般 General
可應用範圍 Application Scope	所有機種均適用 Can be used on most models.	鎖模力超過500噸以上機種較難應用。 Difficult to apply on models with clamping force higher than 500T.	所有機種均適用 Can be used on most models.
建議適用情況 Suggestion	第一代節能系統，適用於各種成型。 The 1st power-saving system, suitable for all kinds of production.	適用於成型精密度及穩定性要求不高的塑料製品。 Suitable for precise injection, but less steady production.	性價比較高的新世代節能系統，適用於兼顧節能省電及穩定性高的塑料製品。 This new generation system with higher C/P value covers steady and power-saving production.

註：使用上述各項節能系統的最佳條件為保壓時間長、冷卻時間長、一分鐘兩模以內的产品、厚件产品等，如此節能效果較顯著。
Remark: To achieve best performance of these systems, production should be under the following conditions: Long hold pressure time, long cooling time and production speed slower than two cycles under one minute, thick wall products. These energy-saving systems will have outstanding efficiency.

規格表 Specifications

ITEMS		UNIT	HT-100			HT-125			HT-150			HT-200			HT-250			HT-300			HT-350			HT-400			HT-470			
射出單元 Injection Unit	螺桿直徑	Screw diameter	mm	30	34	40	34	40	44	40	44	50	44	50	54	50	54	62	54	62	68	62	68	75	62	68	75	68	75	80
	射出行程	Screw stroke	mm	150			180			200			225			240			280			306			306			340		
	理論射出容積	Theoretical shot volume	cm ³	106	136	188	163	226	274	251	304	393	342	442	515	471	549	724	641	845	1016	923	1111	1351	923	1111	1351	1234	1501	1708
	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
	射出速度	Injection speed	mm/sec	122			120			97			102			87			94			93			93			91		
	射出率	Injection rate	cm ³ /sec	87	111	154	109	150	182	122	147	190	154	199	233	172	200	264	215	283	341	281	338	411	281	338	411	330	401	457
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		
	建議最小模具尺寸	Suggested min. mold dim. (H x V)	mm	234x234			267x267			299x299			332x332			364x364			397x397			429x429			475x475			475x475		
	大柱內距	Tie bar spacing (H x V)	mm	355x355			405x405			462x462			505x505			555x555			605x605			680x680			730x730			820x800		
	模盤尺寸	Mold platen (H x V)	mm	525x525			600x600			670x670			745x745			820x820			894x894			969x969			1080x1080			1200x1185		
	頂出行程	Ejector stroke	mm	90			100			110			130			150			185			200			200			215		
頂出力	Ejector force	tonf	2.7			2.7			4.0			4.0			5.4			8.9			11			11			11.9			
電氣單元 Electrical Equipment	最大油泵動力	Max. pump driving motor	kW(220V)	15.7			15.7			15.7			24.1			31.4			31.4			48			48			47.1		
	最大油泵動力	Max. pump driving motor	kW(380V)	18.2			18.2			18.2			28.3			36.7			36.7			45			45			54.9		
	溫度控制器	Temperature controller	set	5			5			5			6			6			6			6			6			7		
	電熱容量	Heater capacity	kW	6.4			8.9			11.4			14.2			16.5			19.8			23.1			23.1			28.2		
其他 Others	機械尺寸	Machine dimensions (LxWxH)	mm	4600x1400x1700			4950x1500x1750			5300x1600x1800			5900x1700x1900			6500x1700x2000			7000x1800x2100			7600x1800x2150			7800x2000x2300			8500x2000x2300		
	油箱容量	Oil tank capacity	liter	210			240			270			340			460			560			700			800			800		
	機械重量	Machine weight	ton	3.5			4.5			5.5			7.5			11			12			14			16.5			21		
	最高系統壓力	Max. system pressure	kgf/cm ²	140			140			140			140			140			140			140			140			140		

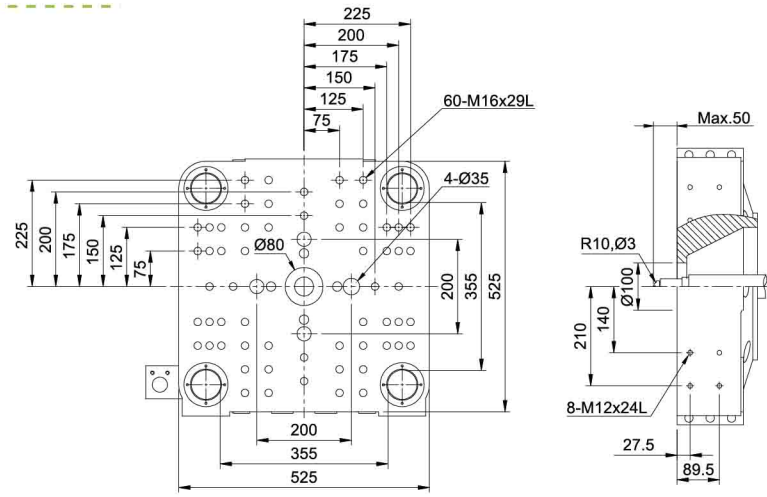
ITEMS		UNIT	HT-530			HT-600			HT-750			HT-850			HT-1000			HT-1250			HT-1420			HT-1600			
射出單元 Injection Unit	螺桿直徑	Screw diameter	mm	75	85	95	75	85	95	85	95	105	95	100	110	100	110	120	110	120	130	120	130	140	120	130	140
	射出行程	Screw stroke	mm	420			420			430			450			495			540			585			585		
	理論射出容積	Theoretical shot volume	cm ³	1855	2382	2976	1855	2382	2976	2439	3046	3721	3188	3533	4274	3886	4702	5595	5129	6104	7164	6613	7761	9001	6613	7761	9001
	理論射出量	Shot weight of injection (PS)	gram	1688	2168	2708	1688	2168	2708	2219	2772	3387	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
	射出速度	Injection speed	mm/sec	86			86			77			86			81			82			81			87		
	射出率	Injection rate	cm ³ /sec	381	489	611	381	489	611	439	548	670	610	676	818	634	767	913	775	922	1083	915	1074	1245	980	1150	1334
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		
	建議最小模具尺寸	Suggested min. mold dim. (H x V)	mm	525x525			560x560			625x625			625x625			690x690			790x790			845x845			950x950		
	大柱內距	Tie bar spacing (H x V)	mm	840x830			880x880			980x980			1060x1010			1260x1130			1360x1210			1450x1320			1530x1380		
	模盤尺寸	Mold platen (H x V)	mm	1240x1220			1310x1310			1440x1440			1460x1460			1730x1600			1840x1740			2110x1980			2190x2040		
	頂出行程	Ejector stroke	mm	220			220			240			260			300			320			340			400		
頂出力	Ejector force	tonf	15.6			15.6			15.6			17.2			21.5			21.5			24.7			24.7			
電氣單元 Electrical Equipment	最大油泵動力	Max. pump driving motor	kW(220V)	63.7			63.7			62.8			96			96			111.7			127.4			144		
	最大油泵動力	Max. pump driving motor	kW(380V)	63.2			63.2			73.4			90			90			108.2			126.7			135		
	溫度控制器	Temperature controller	set	8			8			8			8			8			8			9			9		
	電熱容量	Heater capacity	kW	35.2			35.2			41.7			47.2			51.3			65.2			76.1			76.1		
其他 Others	機械尺寸	Machine dimensions (LxWxH)	mm	9500x2150x2200			10000x2200x2100			11000x2500x2200			12000x2600x2350			13000x2800x2400			14000x2900x2600			14500x3200x2800			15500x3300x2900		
	油箱容量	Oil tank capacity	liter	1180			1180			1270			1510			1830			1960			2400			2400		
	機械重量	Machine weight	ton	25			29			36.4			42			50.8			66			80			88		
	最高系統壓力	Max. system pressure	kgf/cm ²	140			140			140			140			140			140			140			140		

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。

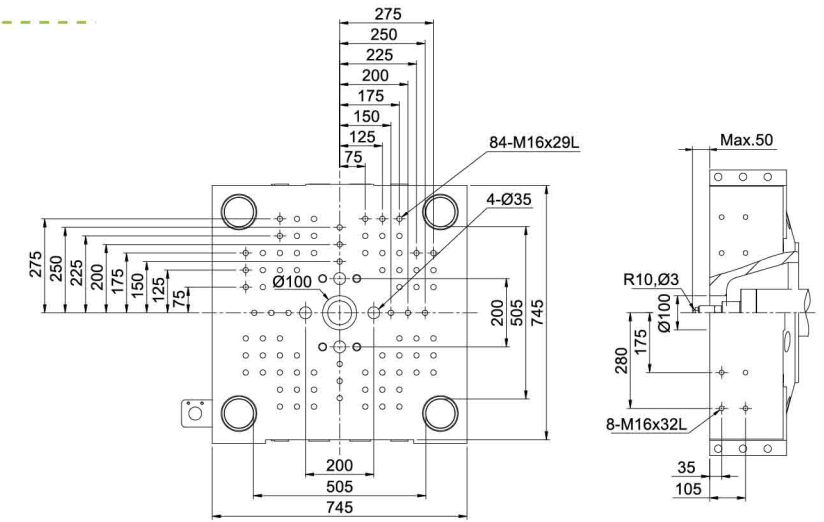
The features are for your reference only. Due to continuous improvements, we reserve the right to amend any of the above specifications without prior notice.

模壁尺寸圖 Mold Platen Dimensions

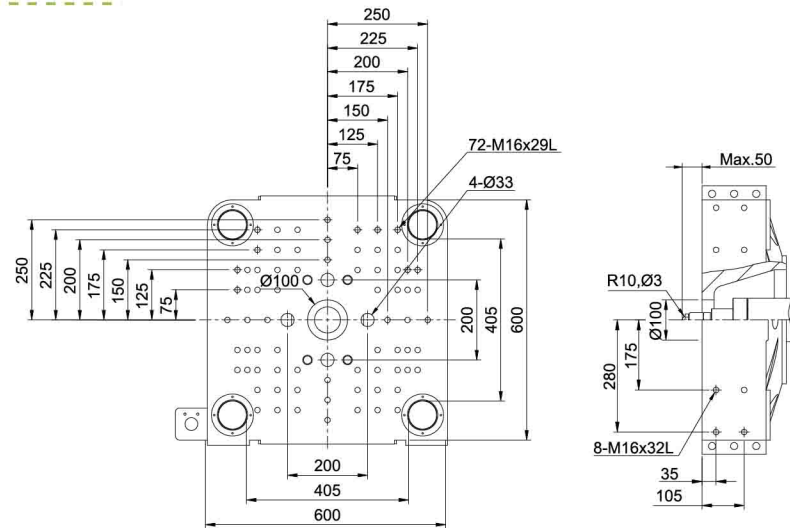
HT-100



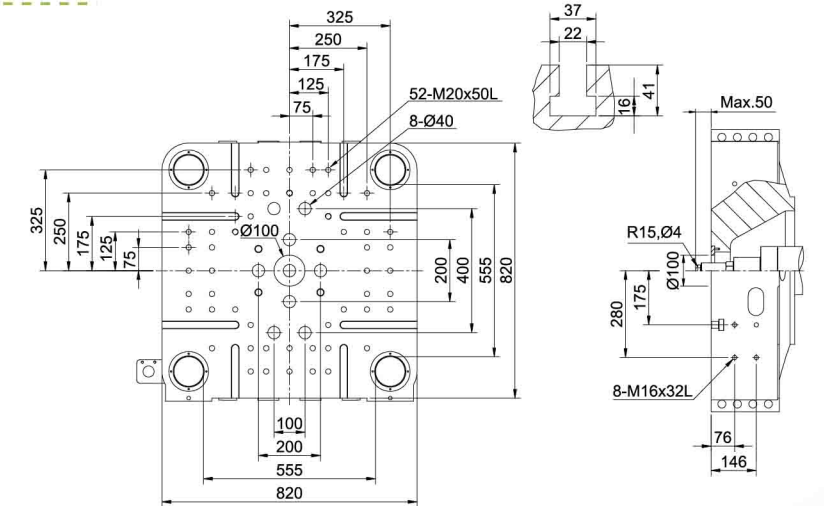
HT-200



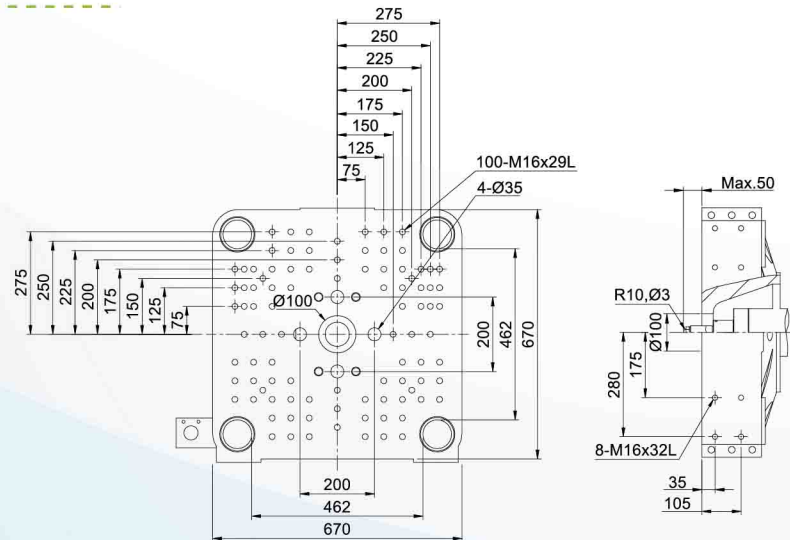
HT-125



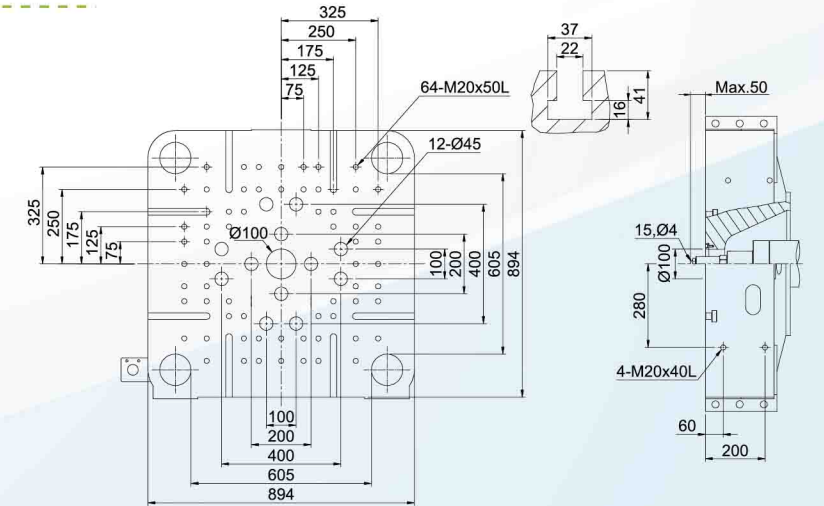
HT-250



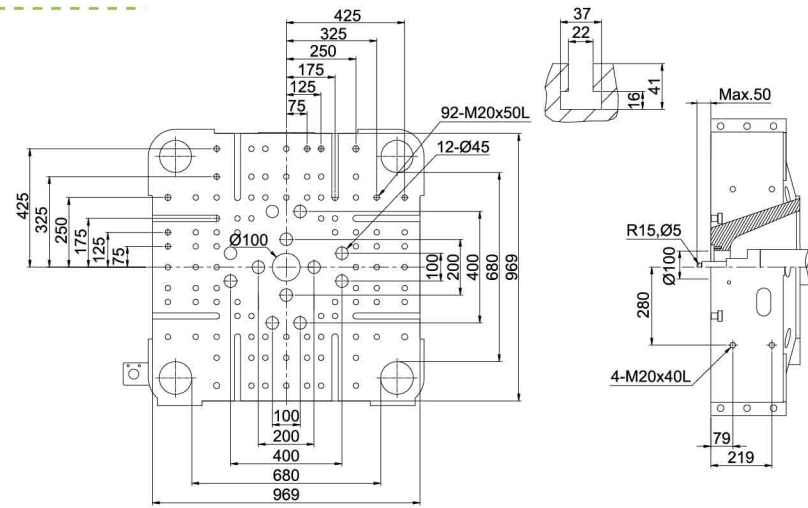
HT-150



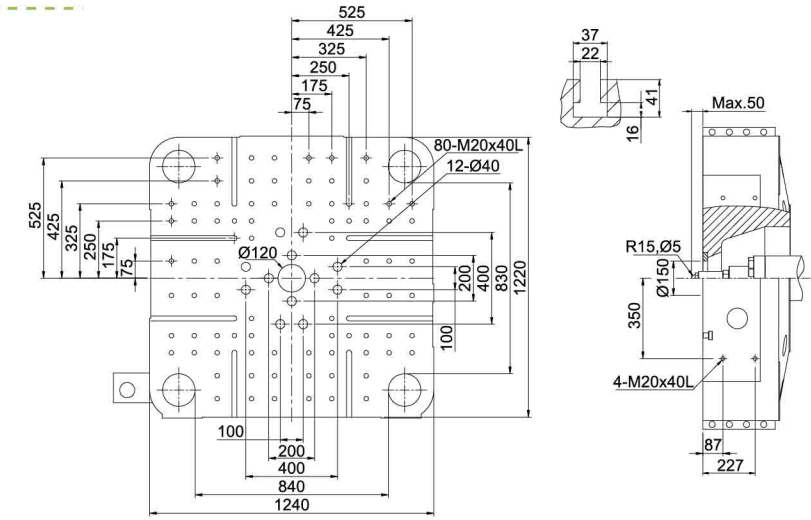
HT-300



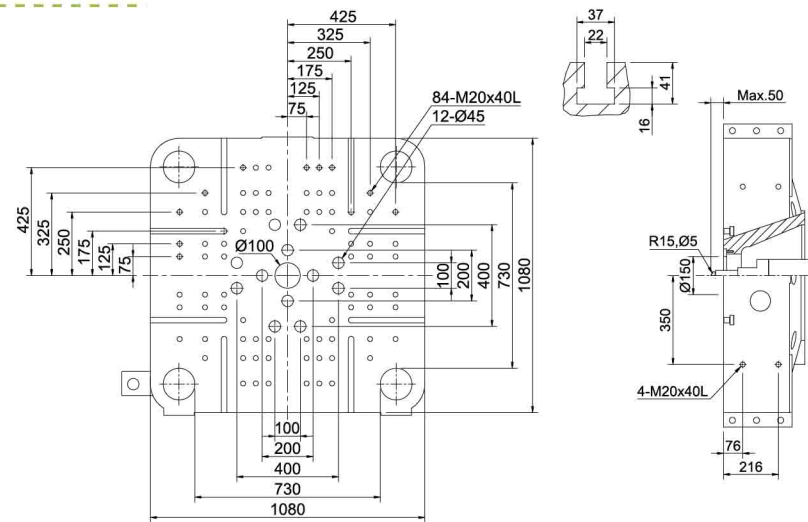
HT-350



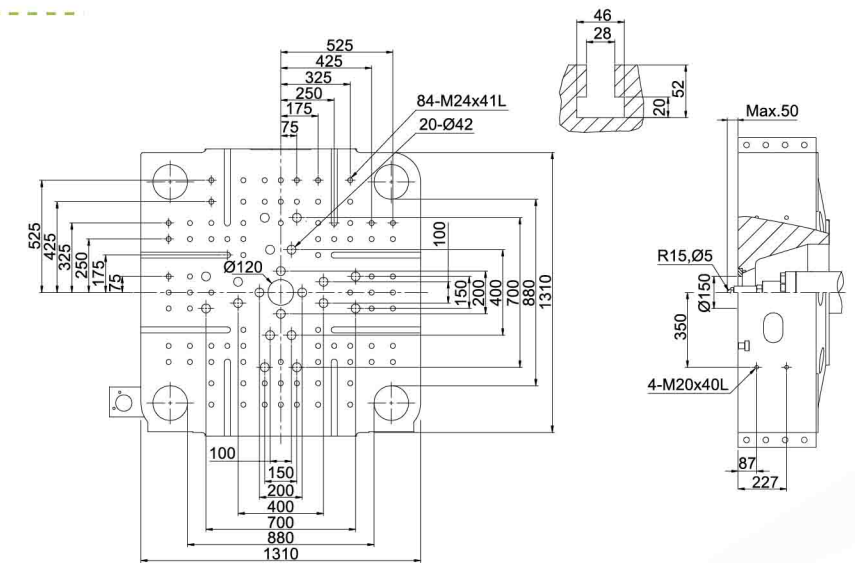
HT-530



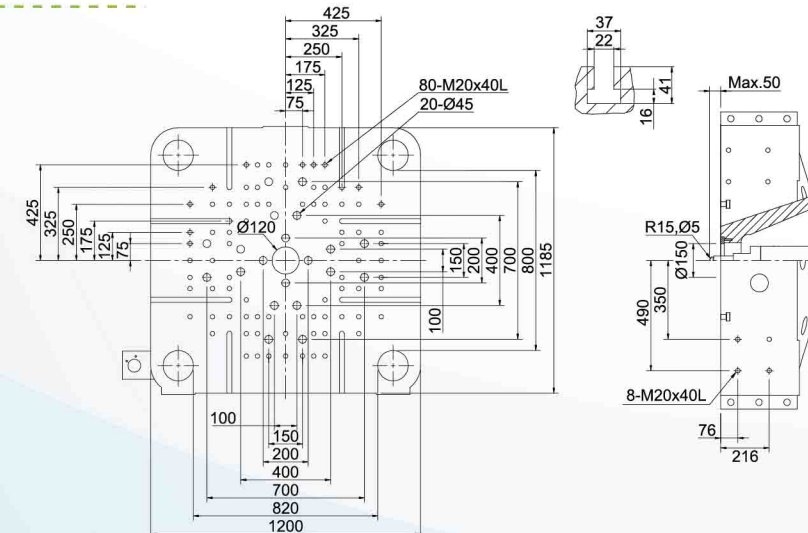
HT-400



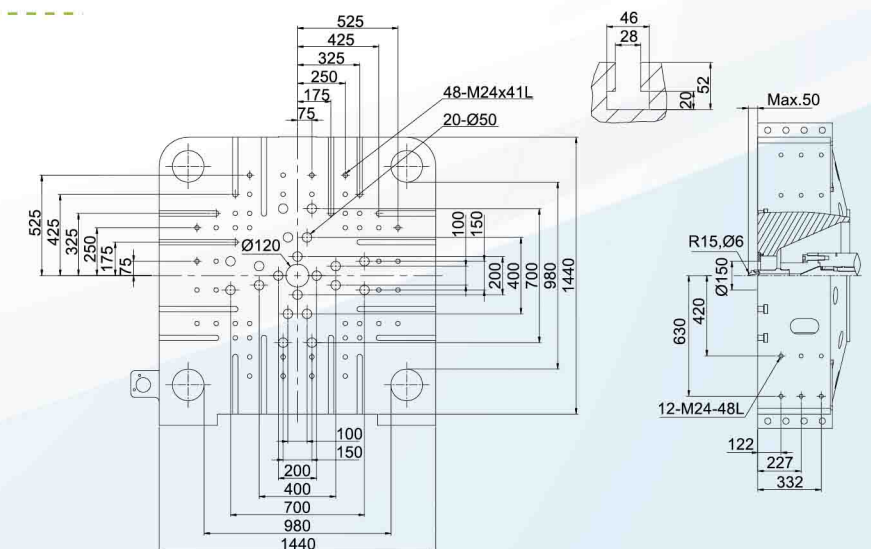
HT-600



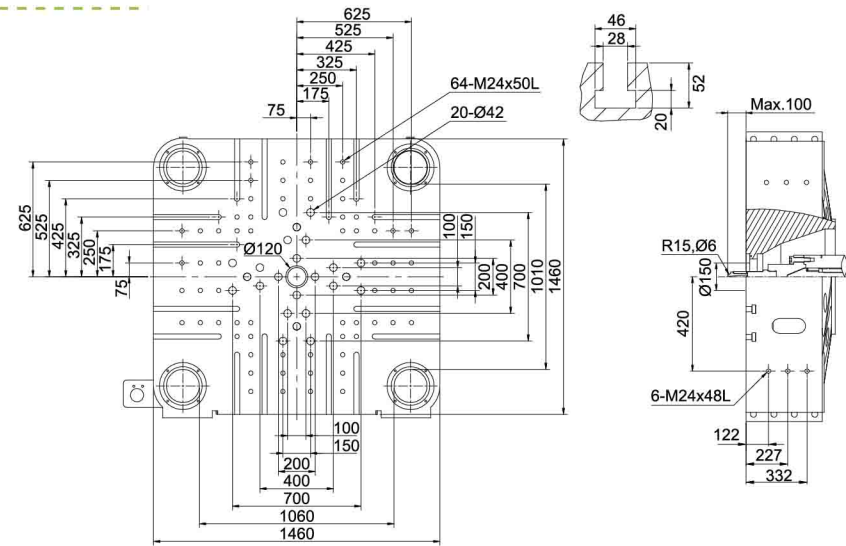
HT-470



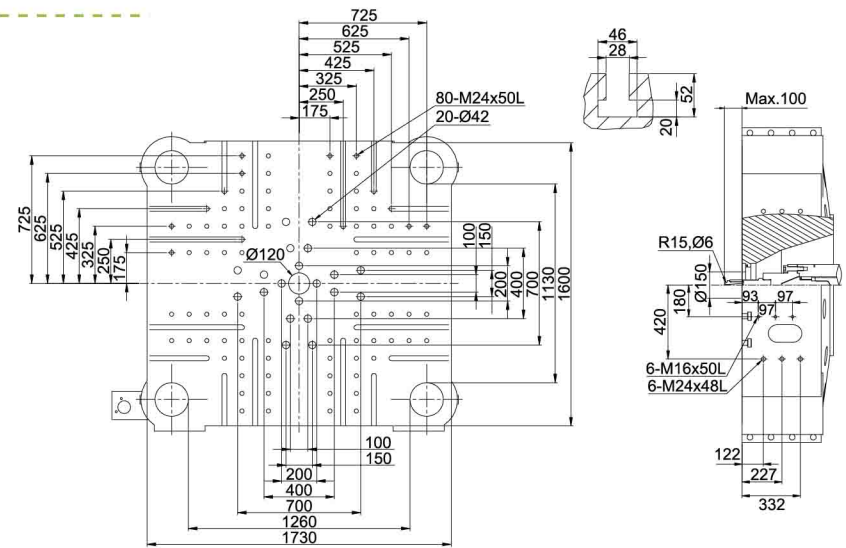
HT-750



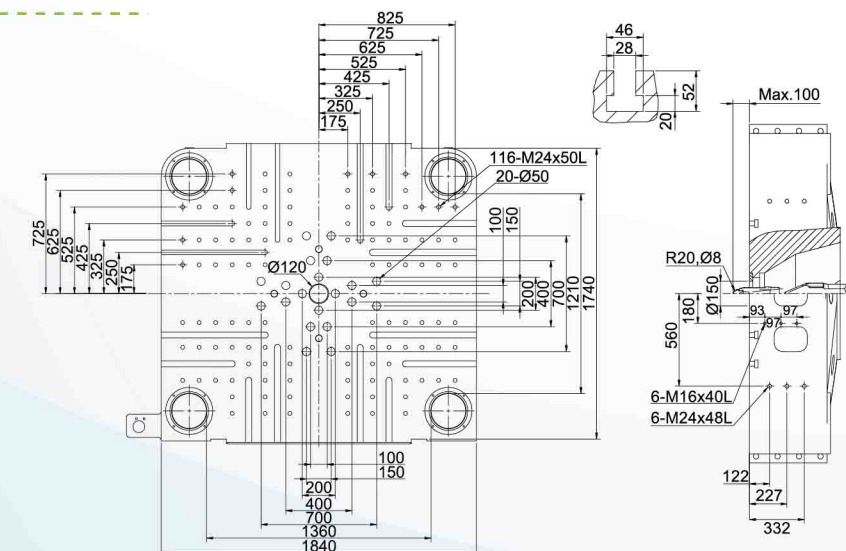
HT-850



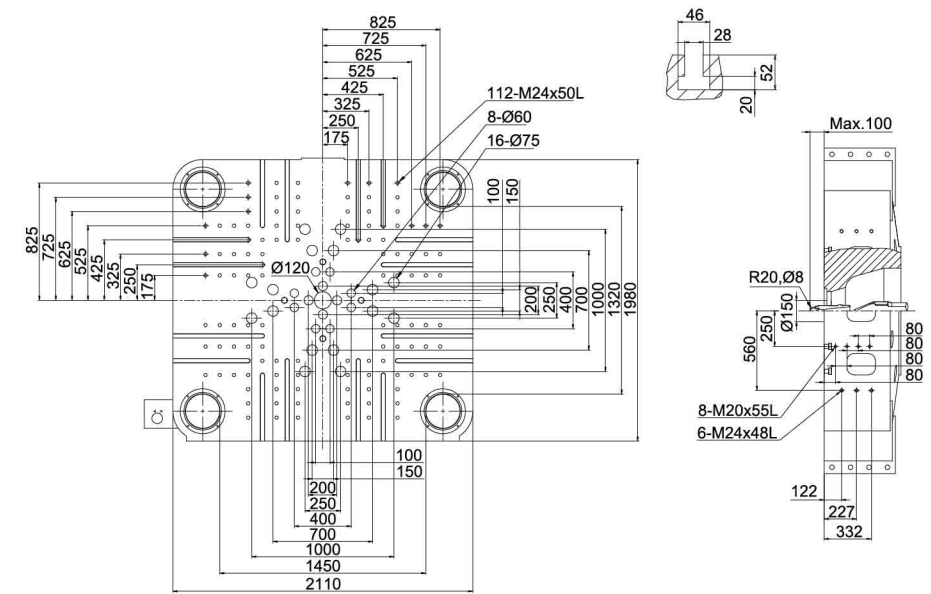
HT-1000



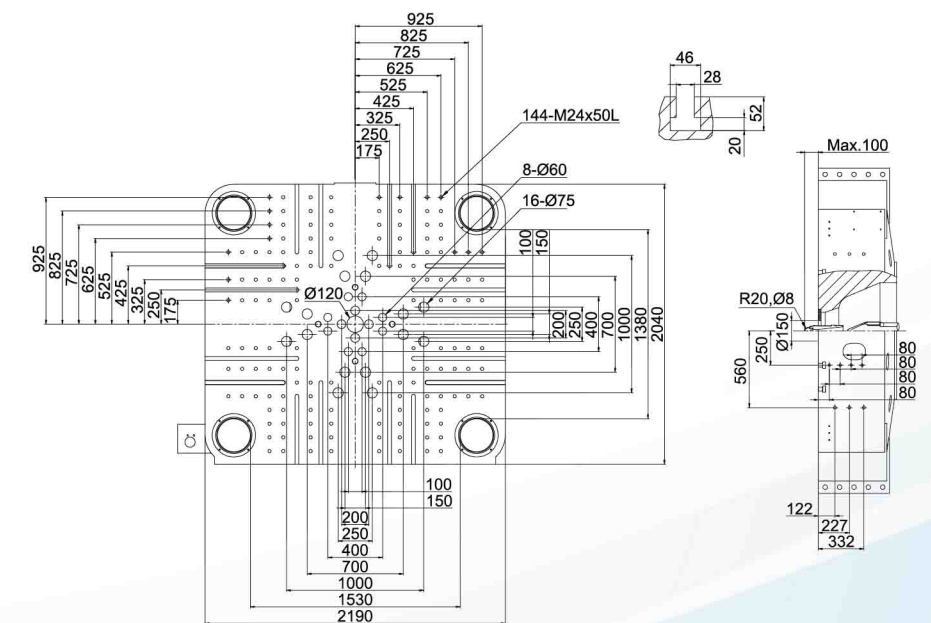
HT-1250



HT-1420



HT-1600



標準及選購配備 Standard & Optional Accessories

配備項目	ITEM	HT-100	HT-125	HT-150	HT-200	HT-250	HT-300	HT-350	HT-400	HT-470	HT-530	HT-600	HT-750	HT-850	HT-1000	HT-1250	HT-1420	HT-1600
射出安全護罩	Safety cover for injection	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
射出止逆裝置	Shot-off Nozzle	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
雙合金螺桿、料管	Bi-alloy Screw/Barrel	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
托拉式落料裝置	Sliding material feeding device	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
曲手：無給油軸承	Oiliness bearing(Toggle)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
曲手：套鋼	Steel bearing(Toggle)	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●
模壁T型槽	T-slot platen	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●
模壁T型墊板	T-slot board	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-
隔熱墊板	Insulator sheets	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
活動式模定位圈	Check ring of mold (Replaceable)	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●
固定式模定位圈	Check ring of mold (Non-replaceable)	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
成品落下口	Article Collecting Channel	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-
電動安全門	Automatic safety gate (Electric type)	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
水流分佈器4入4出(銅製)	Water manifold - 4 in & 4out (copper)	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-
水流分佈器8入8出(銅製)	Water manifold - 8 in & 8out (copper)	○	○	○	○	○	○	●	●	●	-	-	-	-	-	-	-	-
水流分佈器10入10出(銅製)	Water manifold - 10 in & 10 out(copper)	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
安全踏板	Security Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●
機架架高(落下口取物)	High base	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○
機械安全桿保護裝置	Mechanical Safety bar Protection device	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
車壁潤滑：電動注油	Auto Manual lubrication(platen)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
多段數位背壓(螢幕設定)	Multi-stage back pressure control(Screen set up)	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-
多段數位背壓(螢幕設定及顯示)	Multi-stage back pressure control(Screen set up and display)	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
射出閉迴路	Closed-loop control for injection	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
曲手電動注油器(1組)	Auto lubrication system for toggle(1 set)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
曲手電動注油器(2組)	Auto lubrication system for toggle(2 set)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
單中子(一公)	Single core pulling device	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-
雙中子(一公一母)	Double core pulling device	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
轉牙裝置(計時/計次)	Unscrew device by timer or counter	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
雙迴路(開模與托模同動)	Double loops system(mold open - ejector start)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
雙迴路(開模與加料同動)	Double loops system(mold open-screw charge start)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
伺服節能系統	Servo power saving system	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
自封式磁性吸油過濾器	With check valve magnetic suction filter	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●
油溫預熱功能	Oil temperature preheating function	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
開關模比例閥控制	Proportional valve for mould open and close	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
射嘴獨立溫控	Temperature control of injection nozzle	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
落料口溫度顯示	Temperature display of material feeding section	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
落料口溫度控制	Temperature control of material feeding section	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
射出電阻尺	Linear potentiometer for injection	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
射座電阻尺	Linear potentiometer for injection carriage	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
夾模電阻尺	Linear potentiometer for clamping	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
托模電阻尺	Linear potentiometer for ejection	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
兩個風托(一公一母)	Air ejector sets	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
電眼檢出	Photo cell drop-out checking device	○	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-
油溫顯示	Oil temperature display for hydraulic system	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油溫顯示及控制	Oil temperature display & control	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
FCS-6500S微電腦控制器(彩色：KEBA)	FCS-6500S controller (color& key screen:KEBA)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FCS-6500微電腦控制器(彩色觸控：KEBA)	FCS-6500 controller (color & touch screen:KEBA)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
電控穩壓器	Power stabilizer for controller	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
三色警示燈	Three-color alarm lamp	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CE安全插座	CE safty socket	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
電源插座 (110V/220V)	Power socket (110V/220V)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
主電源斷路器	Main power breaker	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
24H料管自動定時預熱	24 hours auto-preheat for barrel sets	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油壓、電氣雙重保護裝置	Dual safety device: hydraulic and electrical	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
資料保護鎖(硬體鎖)	Data lock function(key)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
機械手電氣接口	Robot electrical interface	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
不銹鋼漏斗	Stainless hopper	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
乾燥機	Hopper dryer	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
抽料機	Auto loader	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
模溫機	Mold temperature controller	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
乾燥機磁鐵	Magnet of hopper dryer	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
門式吊桿	Frame hanger	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-
避震器	Anti-vibration mounting pad	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
填料台	Filling material stand	-	-	-	-	-	-	-	-	-	-	▲	▲	▲	▲	▲	▲	▲
工具箱組	Tool box set	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
標準出車附件	Spare parts	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
外銷出車附件	Export accessories	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

● 標準配備 Standard ○ 選購配備 Option ▲ 選附配備 Free Option - 無 N/A