

讓中國裝備技術與世界同步
WE WALK ALONGSIDE THE WORLD!

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伊之密策划2016年10月版

A5 Series Standard High-end Servo Injection Molding Machine

A5標準型高端伺服注塑機

一樣的傑出不一樣的A5
New A5, Excellent As Always



股票代碼
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广东伊之密精密机械股份有限公司
GUANGDONG YIZUMI PRECISION MACHINERY CO.,LTD.



地址：廣東佛山市順德高新區（容桂）科苑三路22號
Address: No.22, Keyuan 3 Road, Hi-tech Zone, Ronggui, Shunde, Foshan City, Guangdong Province, China, 528306
Tel: 86-757-2926 5145 E-mail: imm@yizumi.com

YIZUMI 伊之密

讓中國裝備技術與世界同步
WE WALK ALONGSIDE THE WORLD!

立志成爲所在領域世界級企業



伊之密順德容桂總部
Yizumi's headquarter in Ronggui, Shunde



順德五沙生產基地
Wusha production base in Shunde



蘇州吳江生產基地
Wujiang production base in Suzhou

輕合金及高分子複合材料模壓成型工藝的廣泛應用，改變了近代的工業制造模式，使低成本大批量生產成爲可能。今天，以鋁、鎂、鋅爲代表的輕合金，及以塑料、橡膠爲代表的高分子複合材料，已成爲工業制品和消費產品不可或缺的重要組成原料，從而帶動相關的模壓成型裝備的飛速發展。

2002年，公司在佛山市順德區容桂鎮四基生產出第一台伊之密塑料注射成型機，隨後，伊之密相繼推出鋁、鎂、鋅合金壓鑄機、橡膠注塑機和機器人自動化集成系統，並得到了越來越多模壓成型行業知名客戶的認可和信賴。現在，在中國市場，伊之密注塑機已經位列業內前三名，壓鑄機、橡膠機均位列行業前二。

2015年1月23日，伊之密成功登陸深交所A股市場，開啓企業發展的新徵程。13年來，伊之密一直致力于讓中國裝備技術與世界同步，著力提高自身的技術實力、產品品質和服務。上市後，伊之密繼續朝著這個方向努力，鎖定“成爲所在領域的世界級企業”的新目標，圍繞模壓成型專用機械設備領域多元化地延伸產品，創新產品研發和企業運營方式，積極布局全球市場，最終讓全球的客戶和同行都認可伊之密的產品和品牌。

今天，伊之密除了擁有占地80000m²的順德高新區生產基地外，順德五沙生產基地（占地81117m²）和蘇州吳江生產基地（一期占地33213m²）已全面投產，滿足伊之密未來五到十年的發展需要。另外，伊之密在全球市場運行“伊之密”和“HPM”雙品牌戰略，在北美、印度設立生產基地，開拓和鞏固伊之密的國外市場。

爲進一步把產品做到精益求精，伊之密引入IPD產品集成研發管理模式，從客戶需求出發，以嚴謹的流程開發產品，完善產品升級換代。投入累計超過1.2億元人民幣，打造屬於伊之密自己的精密制造平台，並投資建設恒溫計量與檢測中心，全力升級產品質量。

爲客戶創造更大價值及更佳的投資回報，是我們存在的意義。今後，我們將在節能技術、自動化技術、精密控制技術、產品無故障技術等領域作更大投入，持續保證產品的先進性和可靠性。同時，我們還將致力建設業內更佳服務體系，提供快速、準確的服務，爲提高全球客戶競爭力不懈努力。

We aspire to become a world-class enterprise in our field!

With the widespread application of compression molding technology of light alloy and polymer-based composite, the mode of modern industrial manufacture has been changed and massive production with low-cost becomes possible. Today, light alloy exemplified by aluminum, magnesium and zinc, and polymer composites represented by plastics and rubber have become indispensable raw materials of industrial and consumer products. The relevant molding machinery industry thus achieves rapid development.

At the beginning of 2002, Yizumi manufactured the first injection molding machine in Siji, Ronggui Subdistrict. Then Yizumi launched die casting machines for aluminum, magnesium and zinc alloy, rubber injection machines and robotic automated integrated systems, obtaining high recognition from more and more well-known customers in the molding industry. Yizumi ranks top three among Chinese injection molding machine manufacturers and top two among both Chinese die casting machine manufacturers and rubber injection machine manufacturers.

On January 23, 2015, Yizumi successfully launched an IPO on the A-share market of Shenzhen Stock Exchange, which was a new start for the company's development. Yizumi has been committed to improve Chinese equipment technology to walk alongside the world and enhance its technical strength, product quality and service for 13 years. Yizumi will keep forward as always, set the new goal as becoming a world-class enterprise in the industry, diversify the products around the area of molding machinery for special applications, make innovations in the research and development of

products as well as enterprise operation, so that Yizumi's products and brands are recognized by customers and counterparts worldwide.

In addition to the manufacturing base that covers an area of 80,000m² in Shunde National Hi-tech Industrial Zone, Yizumi's Wusha Factory (covering 81,117m²) and Suzhou factory (1st stage land area of 33,213m²) also have been put into use, which will meet the development needs of Yizumi in the next five to ten years. Yizumi also implements the YIZUMI-HPM dual brand strategy in global markets and builds overseas bases in North America and India to develop and consolidate foreign markets.

To further improve the products, Yizumi introduces IPD mode to develop the products following strict procedures and upgrade the products based on customer needs. Yizumi has spent over 120 million RMB building its own precision manufacturing platform and invested in building a constant-temperature measuring and testing center to fully improve the product quality.

The greatest significance of Yizumi's existence lies in creating more value and better investment return for customers. In the future, the company will devote more input to areas such as technology of energy-saving, automation, precision control and trouble-free products so as to make sure our products are advanced and reliable. Meanwhile, we will be dedicated to setting up the better service system in the industry to provide rapid and quality service, making unremitting endeavor to improve the competitiveness of customers worldwide.

宗旨：我們致力于讓中國裝備技術與世界同步，並爲全球客戶創造更佳的投資回報及客戶體驗。

使命：五年內成爲中國領先的裝備制造商，並于主要新興市場建立全球經營系統，成爲真正的“全球化”企業。

願景：成爲一家經營好、管理好、文化好、讓員工引以爲傲，爲社會仰慕及尊敬的企業，永續經營。

Aim: We are dedicated in providing global clients with better investment return and customer experience.

Mission: We are determined to become a leading Chinese machine manufacturer in five years and a real globalized enterprise with establishment of global business system in major rising markets.

Vision: We wish to become a long-lasting enterprise with effective operation, efficient management and excellent culture, of which the employees are proud and to which social respect are showed.

A5標準型高端伺服注塑機 機型：60T-560T 五大客戶價值主張

繼伺服機成功推向市場多年，在吸收了伊之密收購HPM的先進歐美技術後，
經兩年多的市場調研，充分了解客戶的“痛”和需求後，
采用IPD模式全新打造的壹款標準型高端伺服注塑機。
其為客戶創造的核心五大價值包括：

適用範圍廣 精密穩定 可靠耐用 高效節能 人性化

適用範圍廣

- 更大的規格參數
- 更強的動力和更快的響應速度
- 用戶可獲得更寬的加工範圍降低重複投資成本

Wide range of application

- Larger machine specifications
- Stronger power and faster response
- Wider processing range and lower repeated investment costs

Machine model: 60T-560T

A5 Series Standard High-end Servo Injection Molding Machine Five Value Propositions of

After successfully bringing servo machines to the market for years, mastering advanced European and American technology from HPM Company and completely understanding customer needs through over-two-year market research, Yizumi develops a brand-new standard high-end servo injection molding machine, A5 Series, based on IPD mode. A5 Series creates 5 core values for customers, including:

Wide range of application Precise and stable Reliable and durable High-efficiency and energy-saving User-friendly



可靠耐用

- 整機剛性綜合加強
- 採用均應力壓模技術
- 機器運作更加穩定可靠耐用

Reliable and durable

- Higher overall rigidity of machine
- Uniform-stress molding technology
- More stable and reliable operation of machine

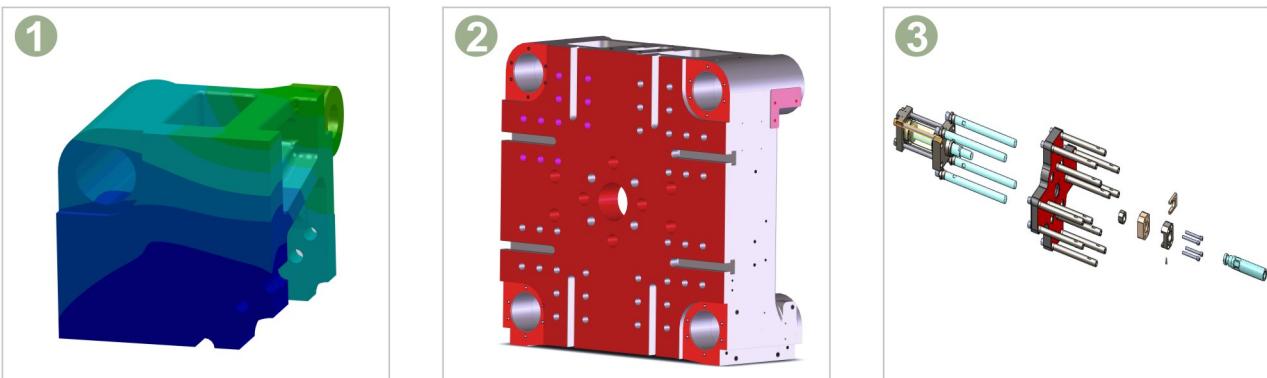
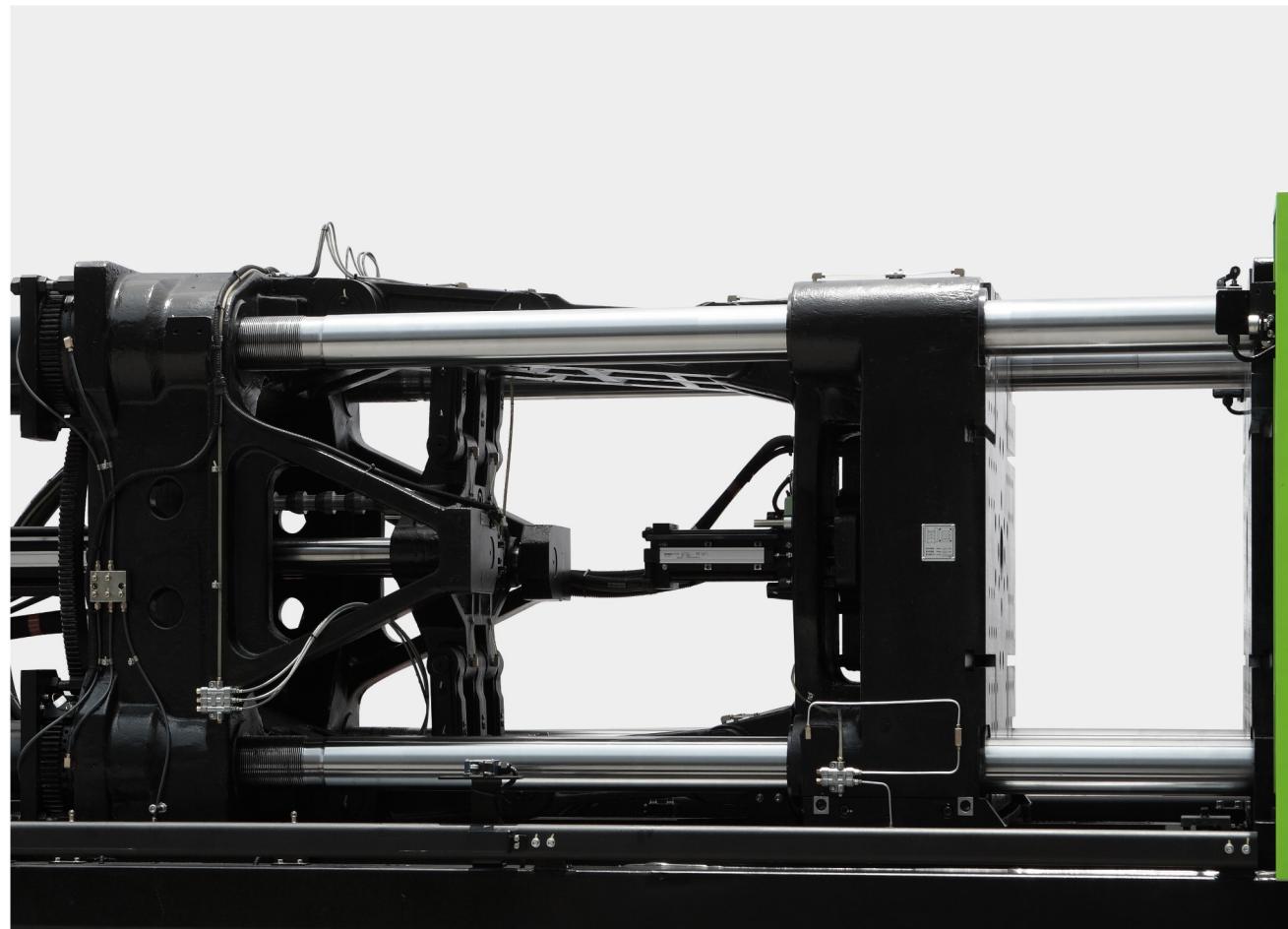
人性化

- 友好的人機界面
- 集成大量常用功能軟件
- 實施可操作性和可維護性方案讓客戶用的更自由舒暢

User-friendly

- User-friendly HMI
- Integrate a great deal of common functional software
- Carry out feasible and maintenance-friendly solutions to give customers more flexibility and ease during use

鎖模單元 Clamping Unit



① 均應力壓模技術

均應力壓模技術，鎖模力分布平均，模板變形小，使用較低鎖模力，生產同樣產品也不會發生成型問題，同時保護模板和模具。

② 高剛性的T型槽模板

全系列模板高剛性設計，鎖模單元整體剛性提升30%；全系列標配T型槽，方便裝卸模板，降低因螺孔長期使用牙損機率，提升模板使用壽命。

③ 頂針強制複位

標配頂針強制複位，滿足特殊模具強制複位要求，模具適用範圍更廣。

④ 開模剎車功能

開模位置重複精度提升，滿足機械手精確取出，有利自動化持續生產。

⑤ 獨特防傾滑腳設計

采用獨特防傾滑腳設計，提升運動的平穩性，降低摩擦力，提升運動效率降低能耗，同時避免模板傾斜保護模具。

⑥ 低壓模保功能

配置低壓模具保護控制單元，確保模具的有效保護。

① Uniform-stress molding technology

Benefits of this technology include evenly distributed clamping force, little deformation of platen, no injection molding defects even with the use of lower clamping force, as well as protection of platens and molds.

② High-rigidity T-slot platen

Platens of the machines in A5 Series are highly-rigid, with overall rigidity of the clamping unit up by 30%. T-slot is a standard feature for the whole series, which brings convenience for installing and unloading the platen, reduces the chance of wear of thread due to long-term use of screw hole and extends the life of platen.

③ Forced ejector reset

This function enables special molds to be forced to reset and the molds are more applicable.

④ Mold opening control

Repeatability of mold-open position is improved so that the manipulator can exactly remove the parts, which facilitates automated continuous production.

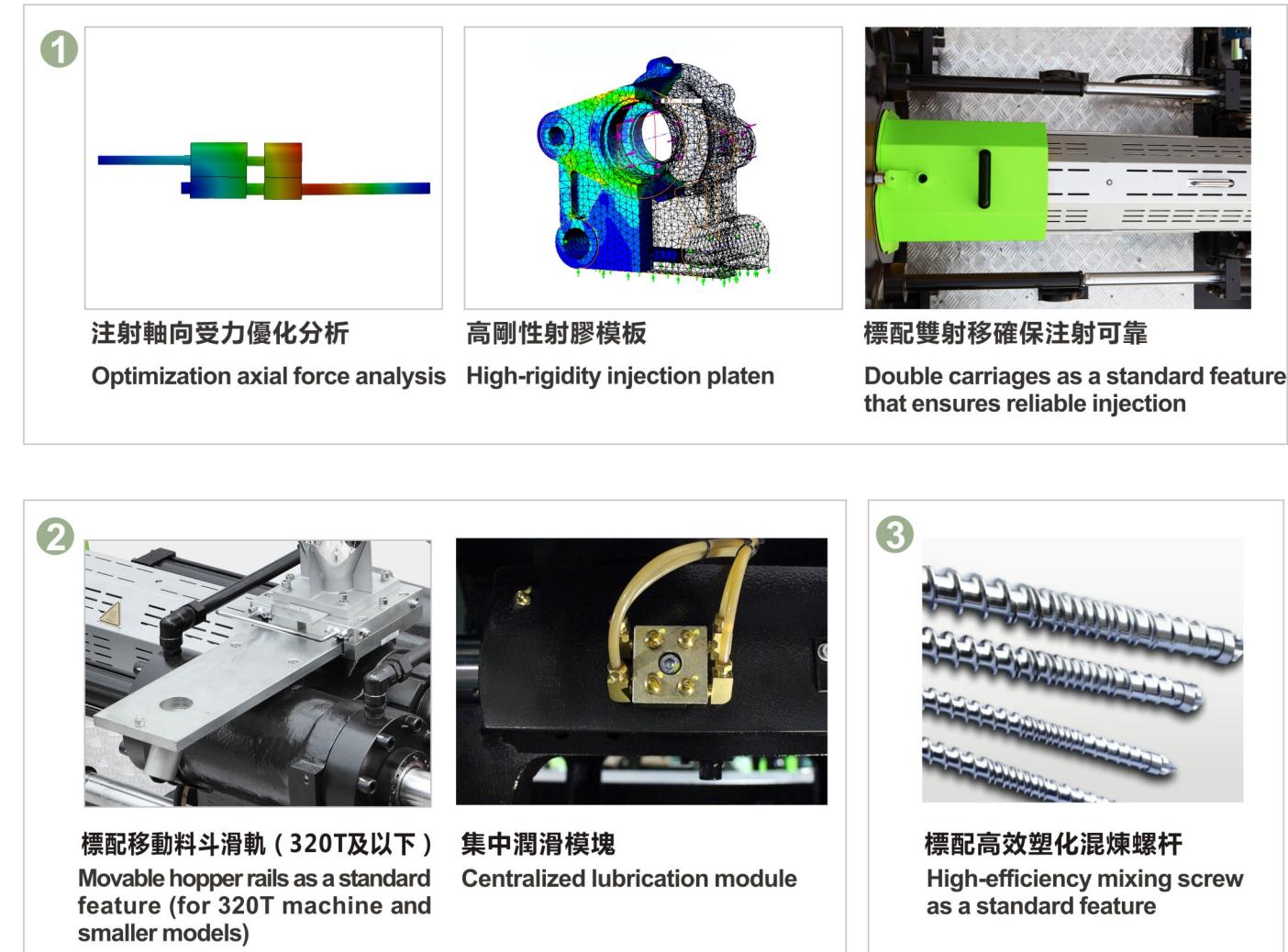
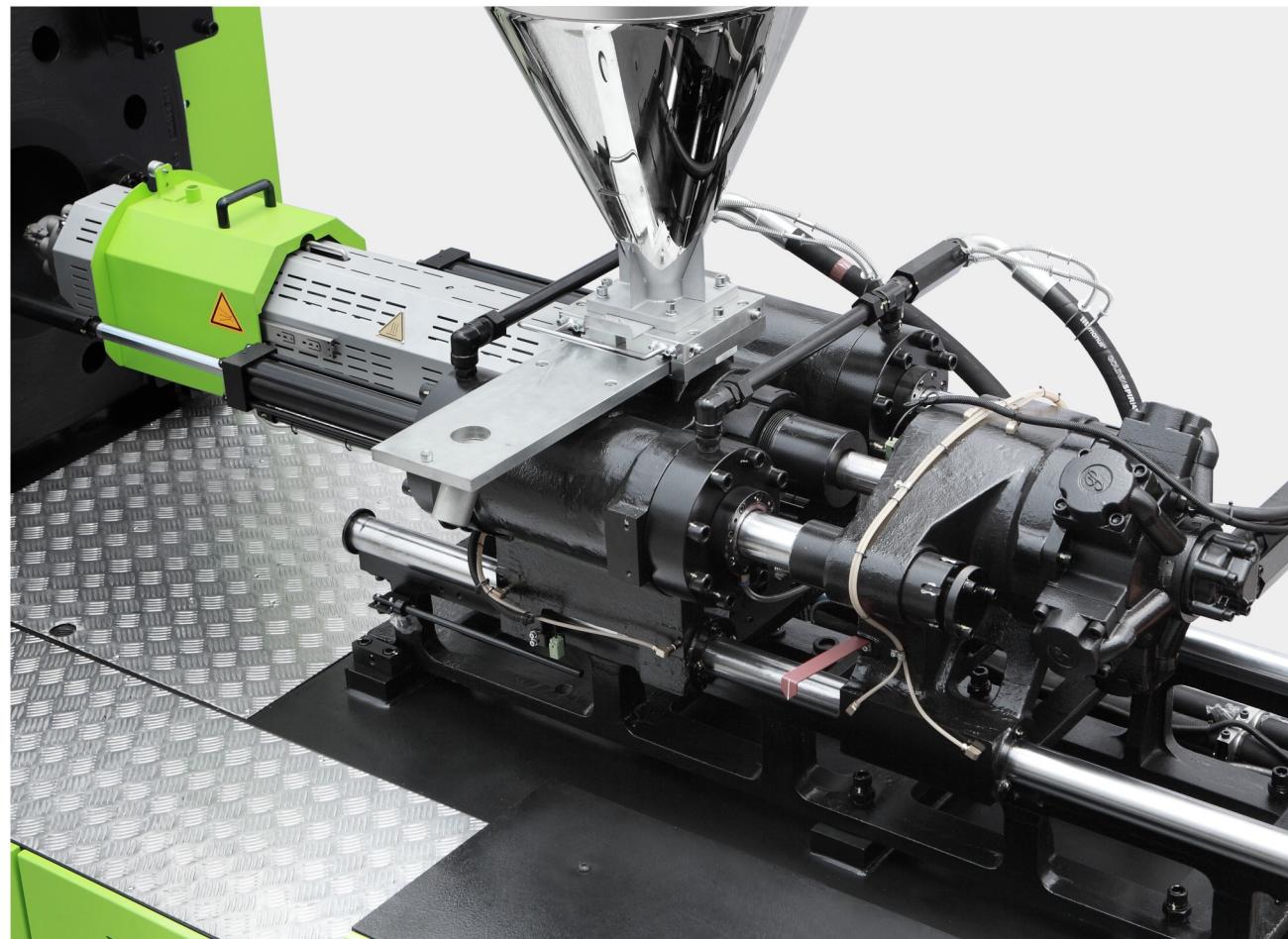
⑤ Anti-tilt platen support design

Special anti-tilt platen support design increases the smoothness of motion, lowers friction, improves the efficiency of motion, reduces energy consumption and prevents the platen tilting so as to protect the mold.

⑥ Low pressure mold protection

Low-pressure mold protection control unit ensures the molds get effectively protected.

注射單元 Injection unit



① 優化注射單元

注射機構優化設計，提升注射剛性，並確保機構運動受力方向和射膠受力同軸，降低阻力，提高注射的穩定性和精度。

② 人性化設計

采用人性化設計，包括電熱護罩、料鬥滑軌、射嘴防護罩、集中潤滑等多項設計，在保護操作安全的同時，降低勞動強度，提高操作和維護方便性。

③ 高效塑化混煉螺杆

A5系列標配高效混煉螺杆，其設計體現了塑化效率、塑化質量及混色效果的極佳平衡。

① Optimized injection unit

Optimized design of injection unit increases the rigidity, ensures coaxiality of the forces on motion and injection, reduces resistance and enhance the stability and precision of injection.

② User-friendly design

Heating device guard, hopper rail, nozzle safety guard and centralized lubrication, etc. are user-friendly designs that ensure the operation safety, reduce labor intensity and offer more ease of operation and maintenance.

③ High-efficiency mixing screw

High-efficiency mixing screw is standard on A5 Series and it is the embodiment of outstanding plasticizing efficiency, plasticizing quality and coloring mixing.

液壓系統 Hydraulic System

伊之密第三代伺服節能技術

自2005年伊之密工程師深入研究伺服節能系統至今，基本上從廣度和深度上比較全面地把握了該系統的應用技術。第三代伺服系統從電機內部結構和磁鋼的要求及油泵的選型和驅動軟件的開發均作了系統的改進優化，實現穩定、可靠、耐用、節能、高效、低噪音等極佳性能，比傳統液壓機節電約30%~80%。

Yizumi's third-generation energy-saving servo technology

So far, Yizumi has comprehensively grasped the application technology of energy-saving servo system since it was further studied in 2005. The third-generation servo system has been improved and optimized in the internal structure of motor, the standard of magnetic steel, the selection of oil pump and the development of drive software to achieve superior performance in stability, reliability, durability, energy conservation, efficiency and low noise; the servo system uses 30%-80% less energy than conventional hydraulic machines.

第三代伺服系統 The third-generation servo system



專業品牌電機
Professional brand-name motor



進口品牌高壓齒輪泵
Imported high-pressure gear pump



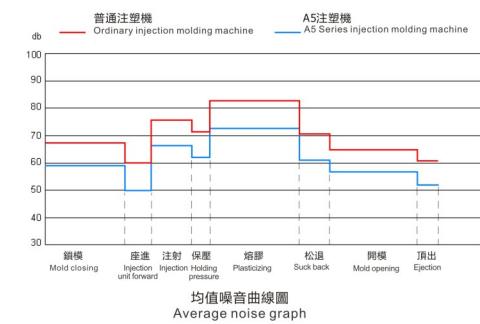
匯川伺服驅動器
INOVANCE servo drive

多年市場應用驗證，更佳組合配置，系統穩定、可靠耐用，並具有高效、節能、低噪音、動力強、響應快等特性。
Proven by years of practical application and higher configured, the third-generation servo system is stable, reliable and durable and characterized by high efficiency, energy saving, low noise, strong power and fast response.

低噪音 Low noise

生產同一產品，在相同的工況下，第三代伺服系統，相對第二代伺服系統噪音降低約20%

Under the same working conditions, the third-generation servo system emits 20% lower noise than the previous generation when producing the same product.



動力強 Strong power

動力系統功率配置充足，過載能力強勁，以120T為例，全速全壓測試可實現5分鐘不超過載報警的極限測試。

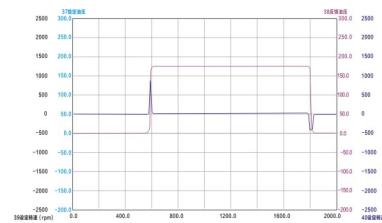
The servo system has sufficient power and strong overload capacity, for example, a 120T machine in A5 Series can raise no overload alarm at maximum speed and under maximum pressure for 5 minutes in a test.



響應快 Fast response

系統響應速度進一步提升，相對二代伺服系統提升一個檔次，以120T為例，系統響應時間約40ms。

The speed of response is further upgraded. Take a 120T machine for example, the response time of servo system is about 40ms.



電控系統 Electrical System

電腦功能 Functions of controller



MH9110電腦

- MH9110電腦控制系統，運行速度快且穩定；
- 10.4" TFT 256色LCD真彩顯示，獨立CPU控制更快更穩；
- 控制單元RISC CPU工業級32bits,主機掃描時間小於1ms，響應速度快，控制精度高；
- 240組模具參數存儲，帶USB接口可無限擴張存儲空間；
- 7+1組PID獨立CPU溫度控制，料筒溫度控制PID參數自動調整功能；
(可擴展6-12組熱流道接口)
- 品質監控管理，主要工藝參數曲線顯示和列表統計；
- 輸出/輸入點擴張功能；(可擴展至64點輸入/64點輸出)
- 集成大量常用軟件，能滿足多種不同的模具成型工藝。

MH9110 controller

- MH9110 control system that is fast and stable
- 10.4" TFT 256 color LCD display. Independent CPU control which is faster and more stable
- 32-bit RISC CPU, with scanning time less than 1ms, fast response and high control accuracy
- Internal memory for up to 240 mold data sets and USB interfaces that support infinite storage space extension
- 7+1 sections of PID temperature control and automatic adjustment of PID barrel temperature control parameters (6-12 sets of hot runner interfaces can be added)
- Production quality control, with display of process parameter graphs and listed statistics
- I/O points extendable to 64/64
- A large number of common software to meet different injection molding requirements

人性化設計 User-friendly design

人工學設計的可旋轉式電腦挂箱，採用獨特的外觀設計，美觀、大方，操作舒適；電箱等部件設計既考慮了走線的安全，同時也提升了操作和維護的方便性。

The ergonomic rotary controller cabinet has a special and nice exterior design while offering comfort during use. The design of electrical cabinet and other components ensures safety of wiring and also makes operation and maintenance easier.



人工學設計旋轉挂箱
Ergonomically-designed controller cabinet



電箱整潔安全易于維護
Electrical cabinet that is neat, safe and maintenance-friendly



各種接口通用標準化
Universal standardized interfaces and connectors

A5標準型高端伺服中大型注塑機

機型：650T-1000T

A5大機的研發背景

自2015年9月A5系列中小型（60T-480T）全面上市后，其“適用範圍廣、高效、精密穩定”的獨特差異化優勢已得到客戶廣泛認同和驗證，同時客戶需求的系列化亦要求A5產品線進一步延伸。經過大量走訪，調研客戶需求和“痛點”，最終確定650T以上的A5中大機系列的核心客戶價值為：可靠穩定。在此背景下，伊之密A5 IPD項目組順勢而為，在保證全系列產品線的優勢下，中大機著重研究并測試了其穩定可靠性和塑化要求，這與客戶的需求和實際的“痛點”高度吻合。

R&D background of A5 series medium-large machine

A5 series of small-medium machine (60T-480T) was introduced to market since Sept. in 2015. Its unique advantage of “wide range of application, high efficiency and precision stability” has been identified and verified by customers, and customers also request to extend existing A5 series. After interviewing, researching customers' needs, YIZUMI finally determined the core customer value of the A5 series medium-large machines (over 650T), which is reliability & stability. Under this background, YIZUMI IPD-program team follows the trend and focuses on research and test of medium-large injection molding machine in its reliability, stability and plasticizing performance, which completely meets customers needs.

High standard A5 series medium-large servo injection molding machine

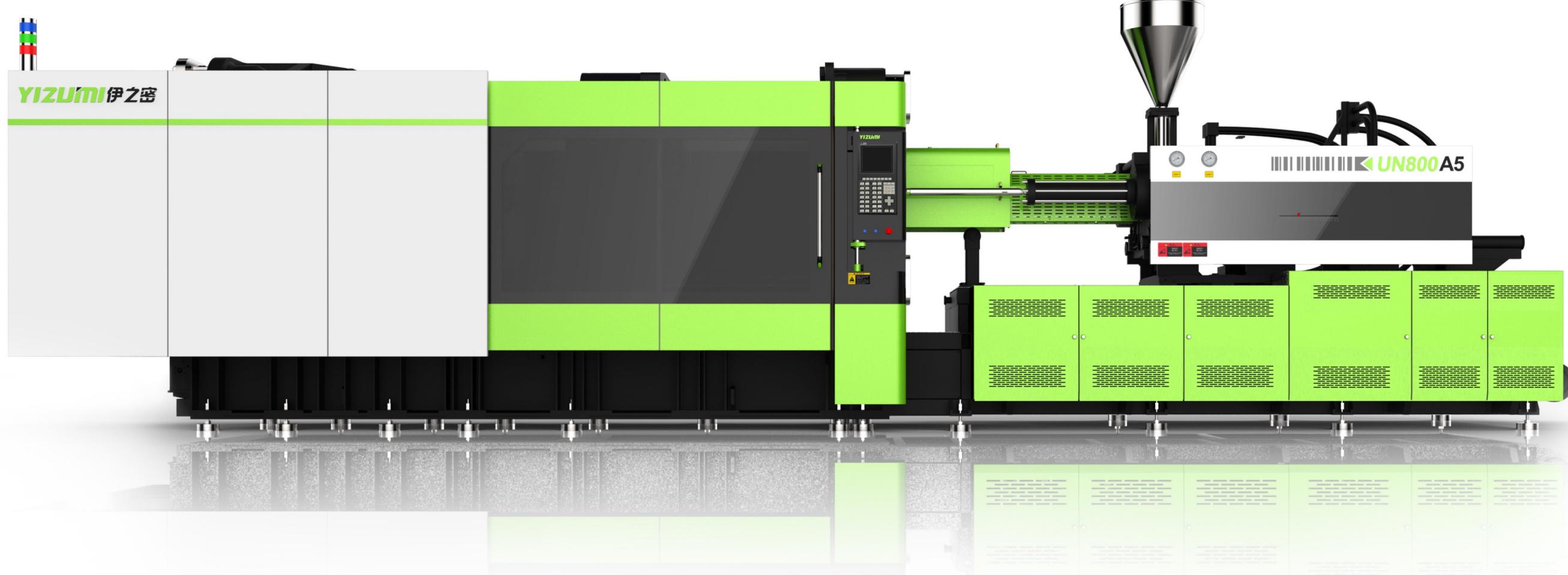
Machine model: 650T-1000T

在A5中大型產品線中，為確保“可靠穩定”的核心價值，我們重新定義并嚴格執行以下關鍵檢驗或性能指標：

- 逆流檢測偏差<1mm
- 熔膠重量偏差<0.5%
- 模板平行度（負載）<0.18mm (UN800A5)
- 模板平行度（開模至100mm）<0.54mm (UN800A5)
- 導柱受力偏差<± 3%
- 鎖模力重複精度<1%
- 開模終點位置精度<2mm

To fulfill the core value of “reliability & stability” in A5 series medium-Large machines, we redefine and strictly implement below key testing and performance index:

- Contra-flow Current detection bias <1mm
- Plasticizing weight deviation<0.5%
- Platen parallelism (after load)<0.18mm (UN800A5)
- Platen parallelism (mold opening to 100mm)<0.54mm (UN800A5)
- Force deviation of tie bar <± 3%
- Repeatability of clamping Force <1%
- Precision of mold opening end <2mm



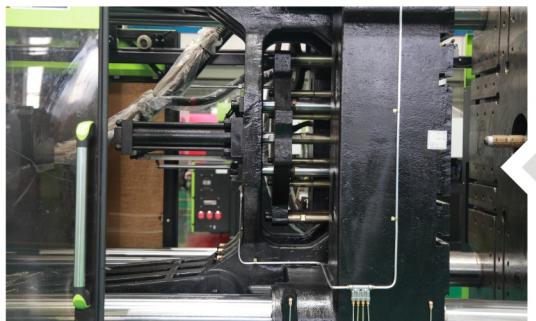
鎖模單元 Clamping Unit

鎖模機械結構——穩重、高剛性

Mechanical structure of Clamping Unit——Stable, High-rigidity

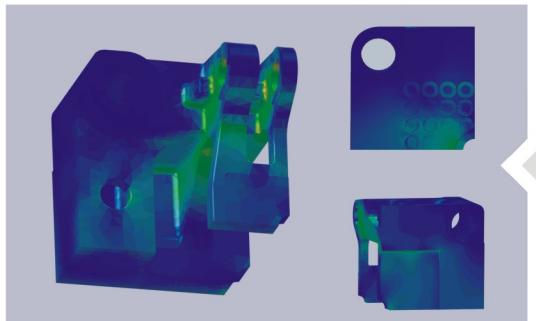
模板結構採用歐洲風格設計、全面優化參數與受力分布，機架採用高剛性材料及制作工藝，確保整機紮實、穩定可靠。

The platen structure adopts the European style design, fully optimized parameters and force distribution, the frame adopts the high rigid materials and production processes, guarantees machine stability and reliability.



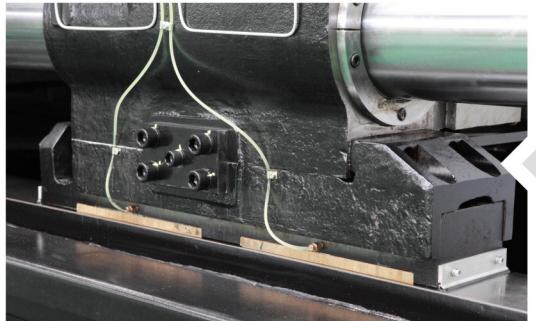
高剛性鎖模單元 Highly rigid clamping unit

- 模板變形小，模板平行度更好，導柱受力偏差更小，鎖模力重複精度更高；
- 可適應高速高壓的特殊注塑工藝，有效提高製品精度。
- Less platen deformation, better parallelism, less force deviation on tie bar, more precise repeatability of clamping force.
- Applicable to high-speed & high-pressure injection molding requirement, effectively improve precision of products.



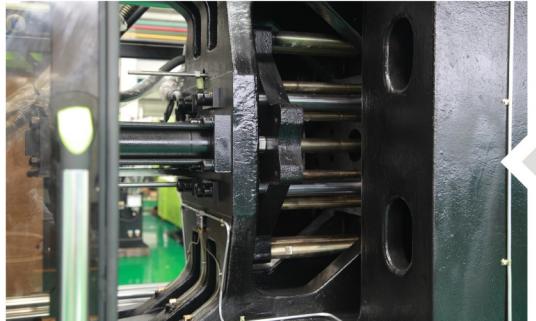
均應力壓模技術 Uniform-stress clamping

- 鎖模力分佈平均，模板變形小；
- 可使用較低鎖模力，生產同樣的產品不會發生飛邊，同時可保護模板和模具。
- Clamping force evenly distributed, less platen deformation on platen.
- Could use lower clamping force to produce same product without flash, protecting platen and mould.



動板前置型重載支撐滑腳（加長導向） Enforced moving platen supportor

- 動模板採用前置型重載支撐滑腳，支撐重心向碼模面前置，避免模板傾斜，重型模具亦然運行平穩。
- Preposition heavy-load supportor under moving platen, avoiding platen inclining, smooth clamping movement even with heavy mould loaded.



加長型頂針板導向設計 Extended ejector guiding plate design

- 頂針板導向採用加長型設計，有效避免頂針板傾斜，提高頂針穩定性；
- 頂出力均勻，頂出位置更準，機器頂出效果更佳。
- Ejector guiding extended, effectively avoiding ejector plate inclining, improve stability of ejection.
- Ejection force evenly distributed, precise ejection position with better ejection performance.

注射單元 Injection Unit

射膠機械結構——穩定、少摩擦

Mechanical structure of Injection Unit——Stable, less friction

射膠結構優化設計，提高註射的剛性；

減少註射過程中的各項摩擦阻力，提高註射精度，確保註射的穩定性。

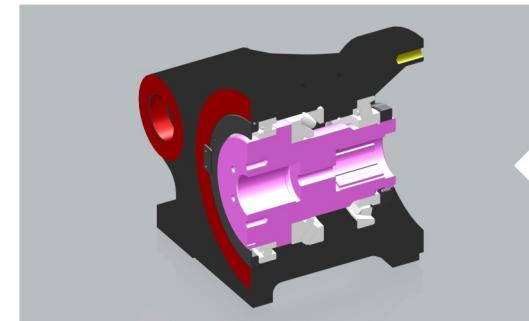
Optimized injection structure design, improves rigidity of injection unit.

Reduces all frictions during injection molding process, enhance the stability & precision of injection.



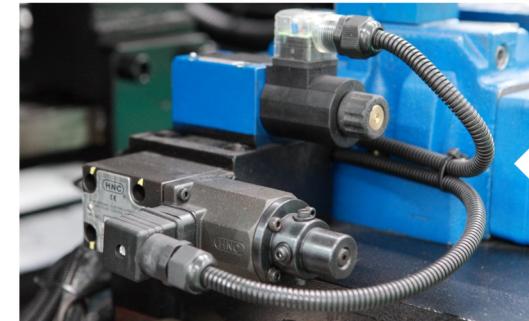
整體式線軌支座 Integrated linear guide rail support

- 中型機採用整體式線性導軌、水平雙射移設計，雙缸平行註射，確保註射穩定可靠；
- 整體式線軌支座，可減小射臺與線軌或導桿的摩擦力，成型制品的重複精度更高。
- Medium size machine adopts integrated linear guide rail, horizontal double carriage, double cylinders injection, ensures injection is reliable & stable.
- Integrated linear guide rail support, reduces the friction between injection unit and linear guide rail or tie bar, enhances production repeatability.



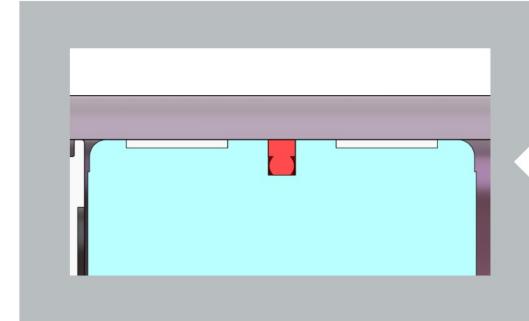
三軸承 Three bearings

- 在傳動軸前端靠近螺杆的位置增加一深溝球軸承，改善軸承對傳動軸的支撐，減少傳動軸旋轉時的跳動，延長推力軸承使用壽命。
- Three-bearings design in transmission shaft.



標配熔膠比例背壓 Proportional Back Pressure for Plasticizing

- 數控背壓方式可方便實現電腦精準控制，提高註射的穩定性。
- Proportional back pressure achieves accurate computer control, enhance the stability of injection.



注射油缸採用低摩擦油封設計 Low friction oil seal inside injection cylinder

- 射油缸採用低摩擦油封重載支撐環設計，充分減小射膠阻力，長期使用精度有保障。
- Injection cylinder adopts low friction oil seal design, fully reduces injection friction, ensures longer service life.

液壓系統 Hydraulic System

伊之密第三代伺服節能技術——可靠耐用、高效節能、低噪音等

**Yizumi third generation of energy saving servo technology——
Durable, Highly efficient, energy-saving & low noise**

伊之密第三代伺服節能技術

自2005年伊之密工程師深入研究伺服節能系統至今，基本上從廣度和深度上比較全面地把握了該系統的應用技術。第三代伺服系統從電機內部結構和磁鋼的要求及油泵的選型和驅動軟件的開發均作了系統的改進優化，實現穩定、可靠、耐用、節能、高效、低噪音等極佳性能，比傳統液壓機節電約30%~80%。

Yizumi's third-generation energy-saving servo technology

So far, Yizumi has comprehensively grasped the application technology of energy-saving servo system since it was further studied in 2005. The third-generation servo system has been improved and optimized in the internal structure of motor, the standard of magnetic steel, the selection of oil pump and the development of drive software to achieve superior performance in stability, reliability, durability, energy conservation, efficiency and low noise; the servo system uses 30%-80% less energy than conventional hydraulic machines.

控制系統 Control System

高精度的控制系統——系統壓力、流量、位置和溫度控制更加準確，制品更加穩定，整機穩定更強。

High precision control system——More accurate control on system pressure, flow, position & temperature, product molding is more stable, as well as overall machine performance.



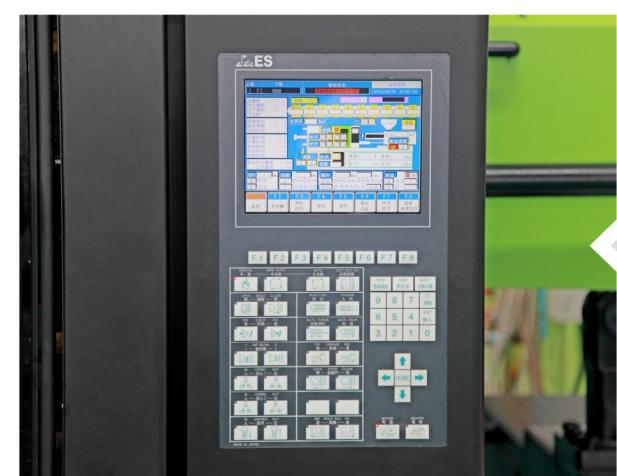
低油位報警 Low oil position alarm

- 低油位自動報警功能，防止因油位過低吸入氣體而導致液壓回路不穩定。
- Automatic low oil position alarm function.



採用非接觸式電子尺 Non-contact transducer

- MST絕對位移感測器，不會發生重點漂移，不受機械振動影響，可防電磁和浪沖干擾。故障低、壽命長、控制精度高。
- MST absolute displacement sensor. Low failure rate, longer lifetime & high control precision.



STAR系統升級換代 Upgraded STAR system

- 控制系統由ES600升級為ES620；
- 人機介面友好設計，方便操作與監視觀察；
- CPU運算速度提升，主頻相對ES600提升7.2倍。
- Control system upgraded from ES600 to ES620.
- User-friendly design, easy to operate and monitor.
- CPU computing speed increased, main frequency increased by 7.2 times compared with ES600.

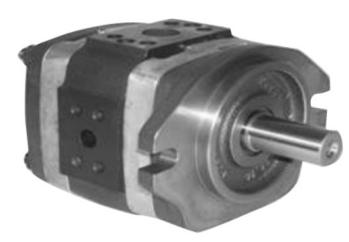
第三代伺服系統 The third-generation servo system



專業品牌電機

Professional brand-name motor

+



進口品牌高壓齒輪泵

Imported high-pressure gear pump

+



匯川伺服驅動器

INOVANCE servo drive

多年市場應用驗證，更佳組合配置，系統穩定、可靠耐用，並具有高效、節能、低噪音、動力強、響應快等特性。
Proven by years of practical application and higher configured, the third-generation servo system is stable, reliable and durable and characterized by high efficiency, energy saving, low noise, strong power and fast response.

低噪音 Low noise

生產同一產品，在相同的工況下，第三代伺服系統，相對第二代伺服系統噪音降低約20%
Under the same working conditions, the third-generation servo system emits 20% lower noise than the previous generation when producing the same product.

高響應 Fast response

高效率齒輪泵實現高響應注塑，可應用在高精密成型。
High efficiency gear pump realizes fast response injection molding which can be used in high-precision molding.

高性能 High performance

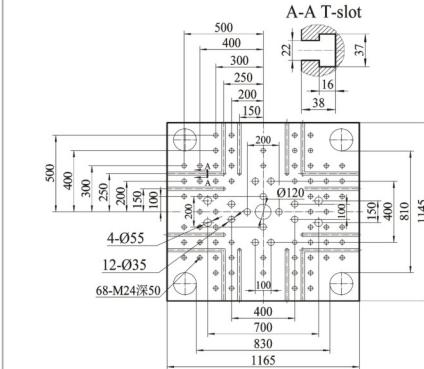
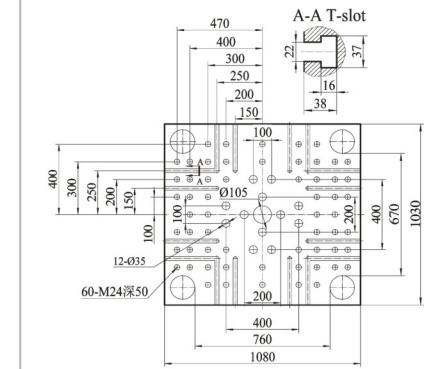
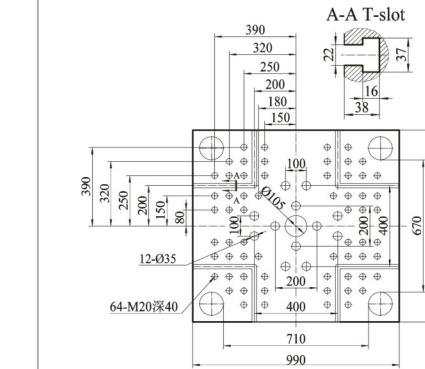
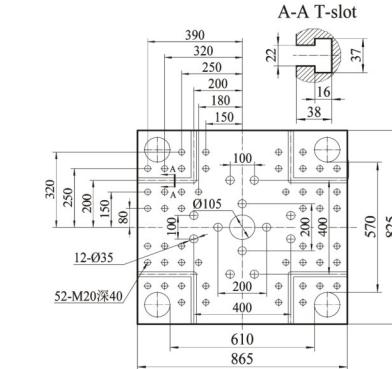
特殊大扭矩伺服電機和高壓齒輪泵使極低速成型和連續保壓性能格外提高，重複精度高。
Special high-torque servo motor and high pressure gear pump greatly improve the low speed molding and continuous pressure-holding performance with excellent repeatability.

UN60A5~1000A5 技術參數表 (液壓系統配國產伺服泵系統) **Specifications of UN60A5 to UN1000A5 (Equipped with domestic servo pump system)**

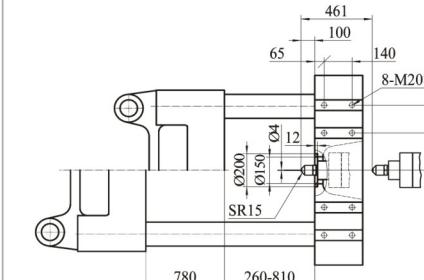
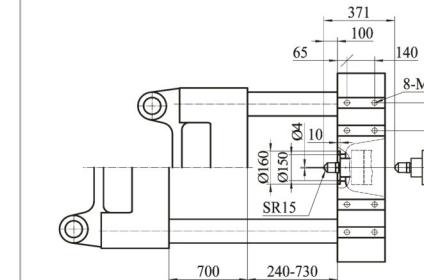
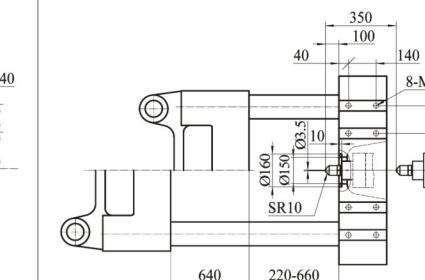
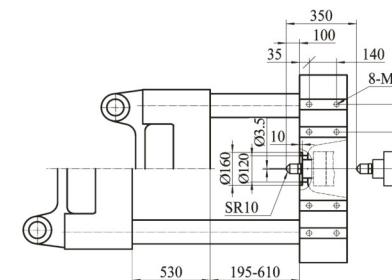
UN60A5~1000A5 技術參數表 (液壓系統配國產伺服泵系統)
Specifications of UN60A5 to UN1000A5 (Equipped with domestic servo pump system)

說明	DESCRIPTION	UNIT	UN260A5	UN320A5	UN400A5	UN480A5
國際標準規格	International specification	UNIT	1269/2600	1885/3200	2693/4000	3330/4800
射膠單元 INJECTION UNIT						
理論注射容積	Shot volume	cm ³	584.6	749.3	962.4	834
實際注射量	Shot weight (PS)	g (克)	537.8	689.4	885.4	767.3
螺杆直徑	Screw diameter	mm	53	60	68	60
注射壓力	Injection pressure	MPa	217.1	169.4	131.8	226.2
注射速率	Injection rate	g/s	160.3	205.5	263.9	235
螺旋長度直徑比	Screw L:D ratio		22.6:1	20:1	20:1	22.6:1
最大注射速度	Max. injection speed	mm/s		79	91.8	
螺杆行程	Screw stroke	mm		265	295	
螺杆轉速	Screw speed(stepless)	r/min		0~162	0~200	
鎖模單元 CLAMPING UNIT						
鎖模力	Clamping force	kN	2600	3200	4000	4800
開模行程	Opening stroke	mm	530	640	700	780
導柱內間距 (W x H)	Space between tie bars	mmxmm	610x570	710x670	760x710	830x810
模板最大距離	Max. Daylight	mm	1140	1300	1430	1590
容模量 (最薄-最厚)	Mold thickness(Min.-Max.)	mm	195~610	220~660	240~730	260~810
頂出行程	Ejector stroke	mm	160	170	210	220
頂出孔數量	Ejector number		13	13	13	17
頂出力	Ejector force	kN	77	77	110	110
動力/電熱 POWER UNIT						
最大系統壓力	Hydraulic system pressure	Mpa	17.5	17.5	17.5	17.5
油泵馬達	Pump motor	kW	28.7	39.4	55.4	60
電熱功率	Heating capacity	kW	16.6/19	22.2/24.6	26.4/30.9	33.1/36.2
溫度控制區數	Number of temp control zones		5	5	6	6
其它 GENERAL						
乾循環時間	Dry cycle time	s	2.8	3.2	4	4.5
油箱容量	Oil tank capacity	L	335	445	570	760
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mxmxm	6.24x1.64x2.39	6.96x1.85x2.50	7.73x2.16x2.45	8.47x2.21x2.49
設計重量	Machine weight	kg	8500	13500	16000	20500

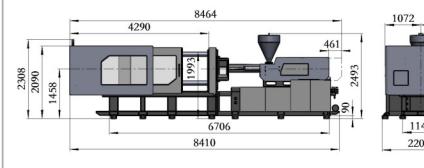
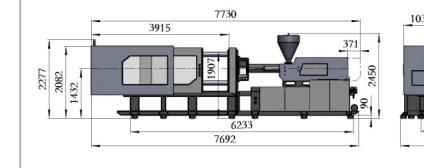
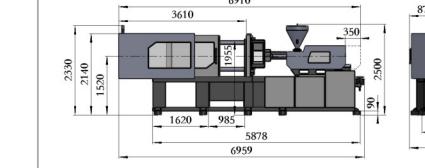
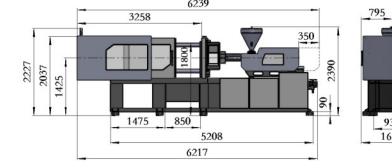
模板正面尺寸圖
Platen Dimensions



模板側面尺寸圖
Platen Dimensions



外形尺寸
Machine Dimensions



備註：

- 理論注射容積=注塑機料筒截面積X注射行程
- 實際注射量=理論注射容積X0.92 (以GPPS計算)
- 正常情況下改善規格參數，恕不另行通知
- 當您有成型PVC,PC,PMMA等工程塑料產品或有其他特殊要求時，敬請告知本公司

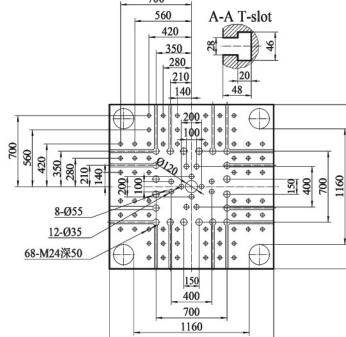
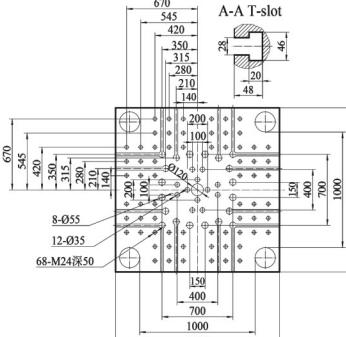
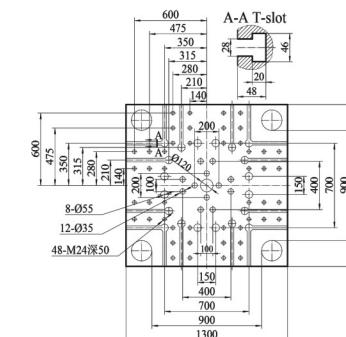
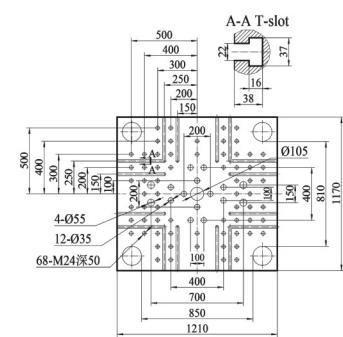
Note:

- Shot volume=barrel sectional area × injection stroke
- Shot weight = shot volume × 0.92 (according to GPPS)
- Specifications may be changed without prior notice.
- Please inform us if you need to produce molded parts made from engineering plastics like PVC, PC and PMMA or if you have other special requirements.

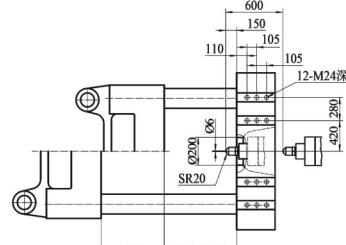
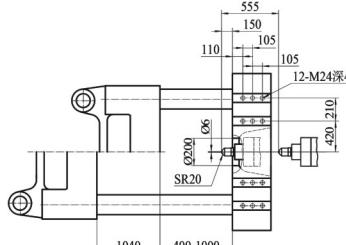
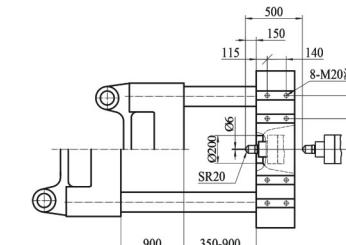
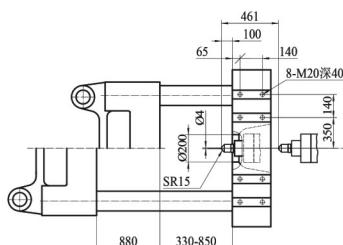
UN60A5~1000A5 技術參數表 (液壓系統配國產伺服泵系統)
Specifications of UN60A5 to UN1000A5 (Equipped with domestic servo pump system)

說明	DESCRIPTION	UNIT	UN560A5	UN650A5	UN800A5	UN1000A5
國際標準規格	International specification		3330/5600	4820/6500	6780/8000	9015/10000
射膠單元 INJECTION UNIT						
理論注射容積	Shot volume	cm ³	1678.5	2050.5	2905	2216.7
實際注射量	Shot weight (PS)	g (克)	1544.2	1886.5	2673	2039.4
		oz (盎司)	54.5	66.5	94.4	71.9
螺杆直徑	Screw diameter	mm	76	84	100	84
注射壓力	Injection pressure	MPa	198.6	162.5	114.6	217.6
注射速率	Injection rate	g/s	334	408	578	423
螺絲長度直徑比	Screw L:D ratio		22.1:1	20:1	20:1	21.9:1
最大注射速度	Max. injection speed	mm/s		95		83
螺杆行程	Screw stroke	mm		370		400
螺杆轉速	Screw speed(stepless)	r/min		0~148		0~143
鎖模單元 CLAMPING UNIT						
鎖模力	Clamping force	kN	5600	6500	8000	10000
開模行程	Opening stroke	mm	850	900	1040	1220
導柱內間距 (W x H)	Space between tie bars	mmxmm	850x810	900x900	1000x1000	1160x1160
模板最大距離	Max. Daylight	mm	1700	1800	2040	2250
容模量 (最薄-最厚)	Mold thickness (Min.-Max.)	mm	330~850	350~900	400~1000	450~1160
頂出行程	Ejector stroke	mm	220	280	280	320
頂出孔數量	Ejector number		17	21	21	21
頂出力	Ejector force	kN	166	182	182	274
動力/電熱 POWER UNIT						
最大系統壓力	Hydraulic system pressure	Mpa	17.5	17.5	17.5	17.5
油泵馬達	Pump motor	kW	60	36+39.4	39.4+55.4	55.4+55.4
電熱功率	Heating capacity	kW	33.1/43	38/47	42/51	46.5/63.6
溫度控制區數	Number of temp control zones		6	6	7	7
其它 GENERAL						
乾循環時間	Dry cycle time	s	5.5	6.5	8.8	12
油箱容量	Oil tank capacity	L	850	1000	1150	1300
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mxmxm	8.73x2.21x2.49	9.57x2.25x2.61	10.51x2.38x2.63	11.37x2.60x2.66
設計重量	Machine weight	kg	21500	29500	40000	50000

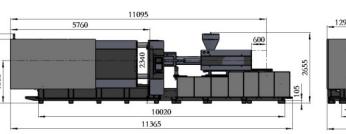
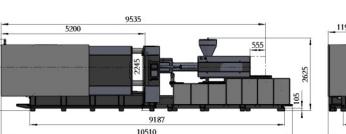
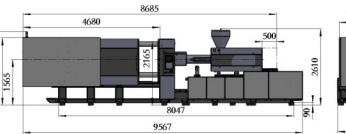
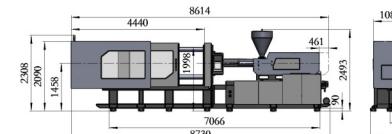
模板正面尺寸圖
Platen Dimensions



模板側面尺寸圖
Platen Dimensions



外形尺寸
Machine Dimensions



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UN60A5-V~1000A5-V 技術參數表 (液壓系統配閉環變量伺服泵系統)

Specifications of UN60A5-V to UN1000A5-V (Equipped with closed-loop variable-displacement pump system)

說明	DESCRIPTION		UN60A5-V	UN90A5-V	UN120A5-V	UN160A5-V	UN200A5-V
國際標準規格	International specification	UNIT	190/600	295/900	420/1200	604/1600	895/2000
射膠單元 INJECTION UNIT							
理論注射容積	Shot volume	cm³	51.2	71.6	116.6	159	207
實際注射量	Shot weight (PS)	g (克)	47.0	65.9	107	146	190.4
		oz (盎司)	1.6	2.3	3.8	5.2	6.7
螺杆直徑	Screw diameter	mm	22	26	30	35	40
注射壓力	Injection pressure	MPa	373	267	252.8	185.6	142.2
注射速率	Injection rate	g/s	38	53	69.6	94.8	123.5
螺絲長度直徑比	Screw L:D ratio		20:1	20:1	24:1	20:1	20:1
最大注射速度	Max. injection speed	mm/s	109		107		77.5
螺杆行程	Screw stroke	mm	135		165		170
螺杆轉速	Screw speed(stepless)	r/min	0~206		0~219		0~188
鎖模單元 CLAMPING UNIT							
鎖模力	Clamping force	kN	600	900	1200	1600	2000
開模行程	Opening stroke	mm	260	330	360	420	490
導柱內間距 (W x H)	Space between tie bars	mmxmm	310x310	360x360	410x410	460x460	530x530
模板最大距離	Max. Daylight	mm	590	710	810	940	1040
容模量 (最薄-最厚)	Mold thickness(Min.-Max.)	mm	120~330	130~380	145~450	160~520	180~550
頂出行程	Ejector stroke	mm	60	100	120	140	150
頂出孔數量	Ejector number		1	5	5	5	5
頂出力	Ejector force	kN	22	28	42	42	49
動力/電熱 POWER UNIT							
最大系統壓力	Hydraulic system pressure	Mpa	17.5	17.5	17.5	17.5	17.5
油泵馬達	Pump motor	kW	7.5	11	11	15	18.5
電熱功率	Heating capacity	kW	4.8/5.5	6.9/7.8	9/10.1	10.9/12.1	14.4/16.8
溫度控制區數	Number of temp control zones		4	4	4	4	5
其它 GENERAL							
乾循環時間	Dry cycle time	s	2.0	2.0	2.0	2.5	3.0
油箱容量	Oil tank capacity	L	130	150	155	220	255
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mmxmxm	4.22x1.14x1.84	4.49x1.22x1.88	4.82x1.30x1.92	5.35x1.37x2.02	5.76x1.45x2.09
設計重量	Machine weight	kg	2900	3400	4000	5000	6500
模板正面尺寸圖 Platen Dimensions							
模板側面尺寸圖 Platen Dimensions							
外形尺寸 Machine Dimensions							

UN60A5~V~1000A5~V 技術參數表 (液壓系統配閉環變量伺服泵系統) **Specifications of UN60A5~V to UN1000A5~V (Equipped with closed-loop variable-displacement pump)**

備註：

1. 理論注射容積=注塑機料筒截面面積X注射行程
 2. 實際注射量=理論注射容積X0.92 (以GPPS計算)
 3. 正常情況下改善規格參數，恕不另行通知
 4. 當您有成型PVC,PC,PMMA等工程塑料產品或有其他特殊要求時，敬請告知本公司

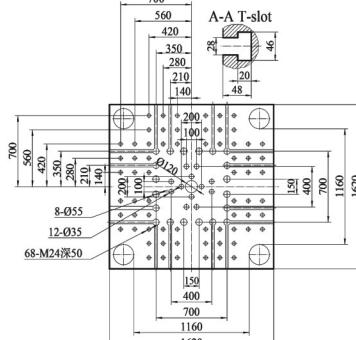
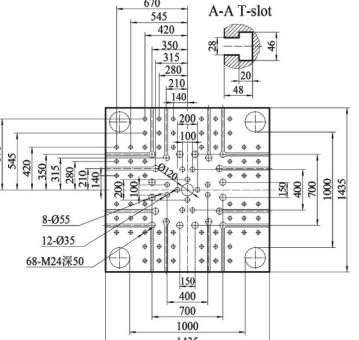
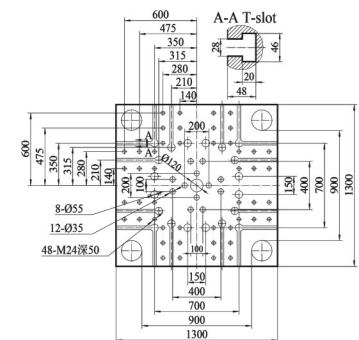
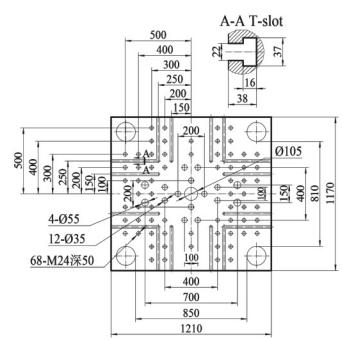
Note:

1. Shot volume=barrel sectional area × injection stroke
 2. Shot weight = shot volume × 0.92 (according to GPPS)
 3. Specifications may be changed without prior notice.
 4. Please inform us if you need to produce molded parts made from engineering plastics like PVC, PC and PMMA or if you have other special requirements.

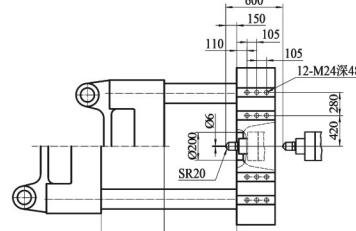
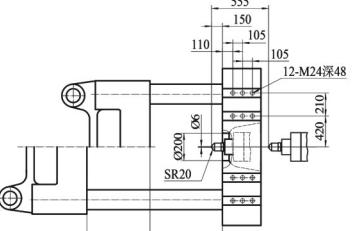
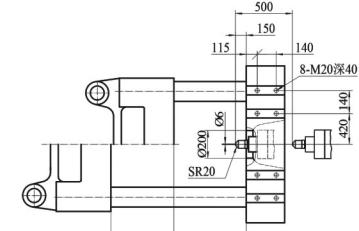
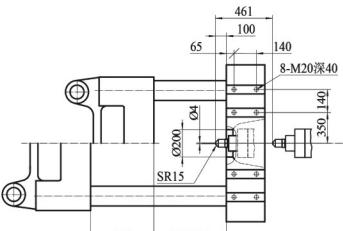
UN60A5-V~1000A5-V 技術參數表 (液壓系統配閉環變量伺服泵系統)
Specifications of UN60A5-V to UN1000A5-V (Equipped with closed-loop variable-displacement pump system)

說明	DESCRIPTION	UNIT	UN60A5-V			UN650A5-V			UN800A5-V			UN1000A5-V		
國際標準規格	International specification	UNIT	3330/5600			4820/6500			6780/8000			9015/10000		
射膠單元 INJECTION UNIT														
理論注射容積	Shot volume	cm³	1678.5	2050.5	2905	2216.7	2659	3664	3190	3770	5070	4319.8	5039.4	6748
實際注射量	Shot weight (PS)	g (克)	1544.2	1886.5	2673	2039.4	2446.3	3371	2934.8	3468	4664	3974.2	4636.2	6208
螺杆直徑	Screw diameter	mm	76	84	100	71.9	86.3	119.1	103.7	122.5	164.8	139.9	163.2	219
注射壓力	Injection pressure	MPa	198.6	162.5	114.6	217.6	181.4	131	212.8	180.2	133.9	208.8	179.1	133.6
注射速率	Injection rate	g/s	392	479	679	423	507	699	533	630	847	642	749	1003
螺絲長度直徑比	Screw L:D ratio		22.1:1	20:1	20:1	21.9:1	20:1	20:1	21.7:1	20:1	20:1	21.6:1	20:1	20:1
最大注射速度	Max. injection speed	mm/s		95			83			87			89	
螺杆行程	Screw stroke	mm		370			400			480			550	
螺杆轉速	Screw speed(stepless)	r/min		0~147			0~143			0~136			0~115	
鎖模單元 CLAMPING UNIT														
鎖模力	Clamping force	kN		5600			6500			8000			10000	
開模行程	Opening stroke	mm		850			900			1040			1220	
導柱內間距 (W x H)	Space between tie bars	mmxmm		850~810			900x900			1000x1000			1160x1160	
模板最大距離	Max. Daylight	mm		1700			1800			2040			2250	
容模量 (最薄-最厚)	Mold thickness (Min.-Max.)	mm		330~850			350~900			400~1000			450~1160	
頂出行程	Ejector stroke	mm		220			280			280			320	
頂出孔數量	Ejector number			17			21			21			21	
頂出力	Ejector force	kN		166			182			182			274	
動力/電熱 POWER UNIT														
最大系統壓力	Hydraulic system pressure	Mpa		17.5			17.5			17.5			17.5	
油泵馬達	Pump motor	kW		45			37+22			37+37			37+45	
電熱功率	Heating capacity	kW		33.1/43			38/47			42/51			46.5/63.6	
溫度控制區數	Number of temp control zones			6			6			7			7	
其它 GENERAL														
乾循環時間	Dry cycle time	s		5.5			6.5			8.8			12	
油箱容量	Oil tank capacity	L		850			1000			1150			1300	
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mxmxm		8.73x2.21x2.49			9.57x2.25x2.61			10.51x2.38x2.63			11.37x2.60x2.66	
設計重量	Machine weight	kg		21500			29500			40000			50000	

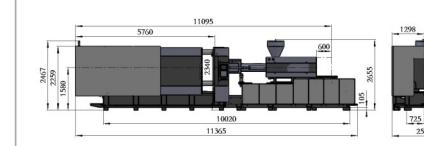
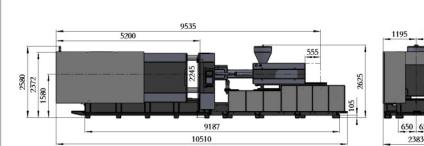
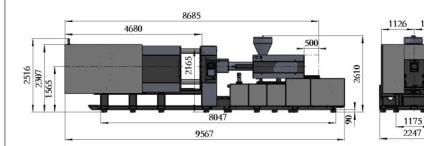
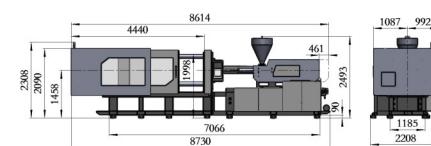
模板正面尺寸圖
Platen Dimensions



模板側面尺寸圖
Platen Dimensions



外形尺寸
Machine Dimensions



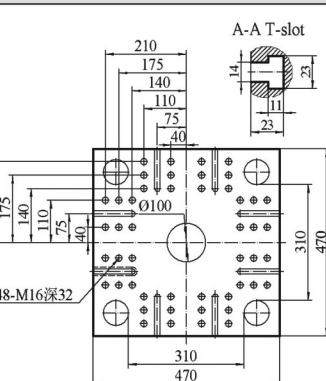
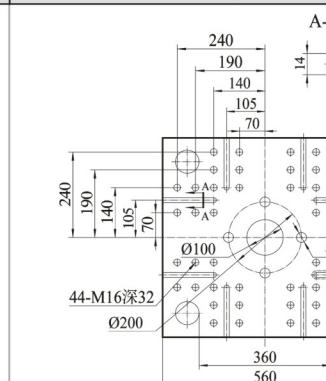
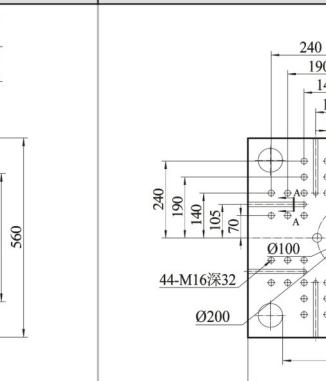
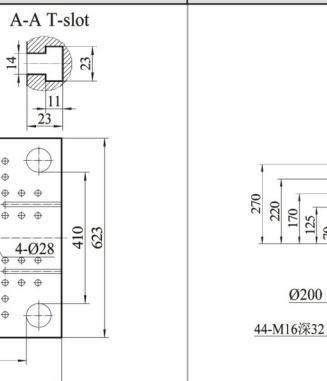
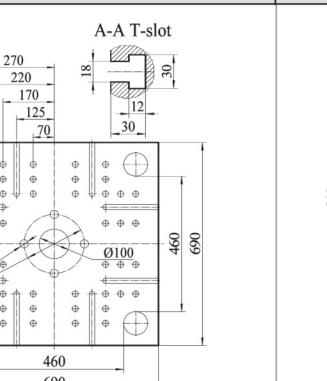
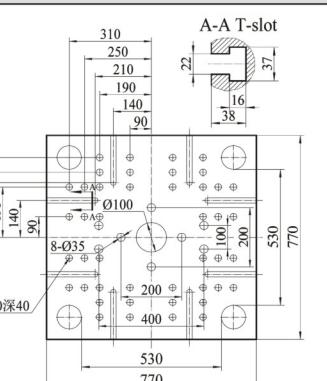
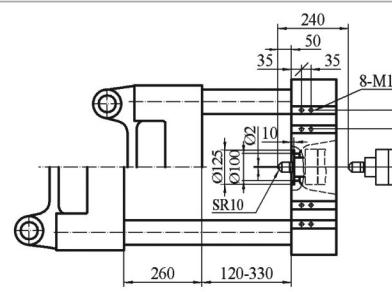
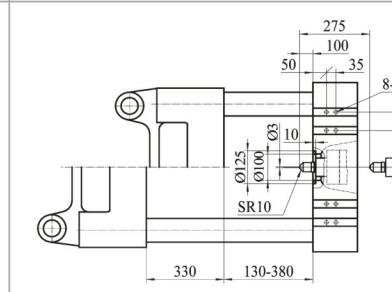
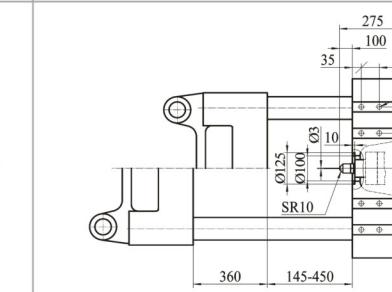
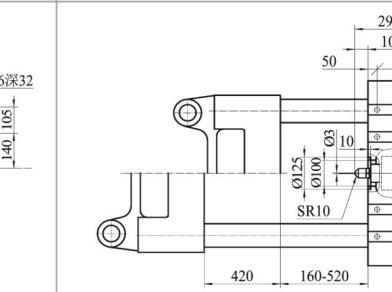
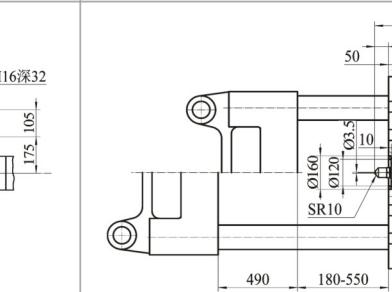
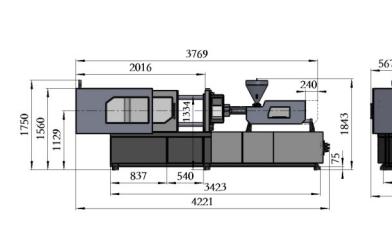
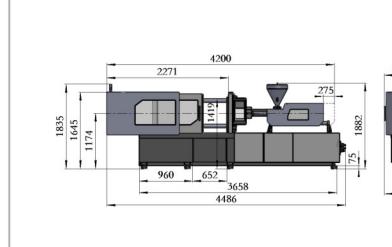
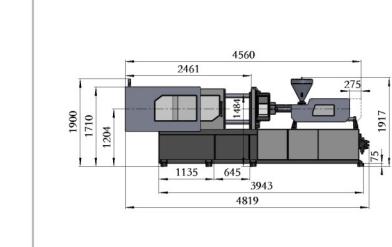
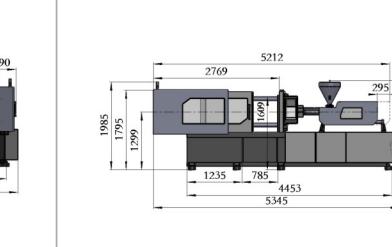
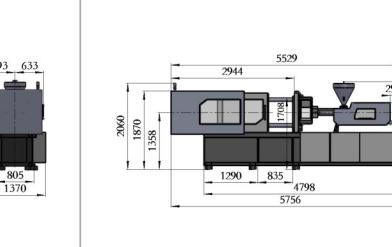
備註 :

- 1.理論注射容積=注塑機料筒截面積X注射行程
- 2.實際注射量=理論注射容積X0.92 (以GPPS計算)
- 3.正常情況下改善規格參數，恕不另行通知
- 4.當您有成型PVC,PC,PMMA等工程塑料產品或有其他特殊要求時，敬請告知本公司

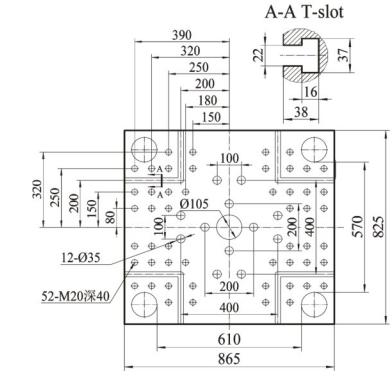
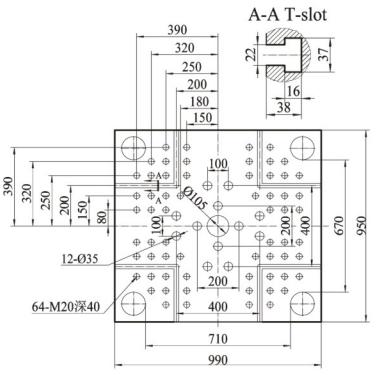
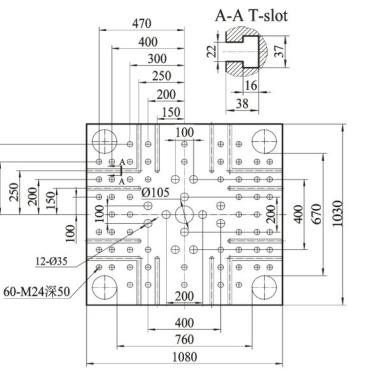
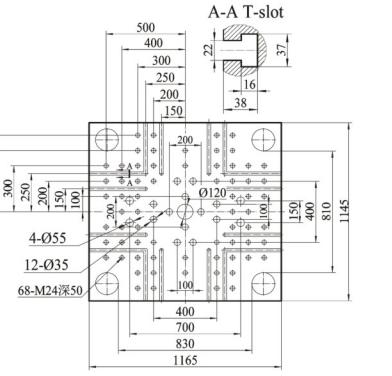
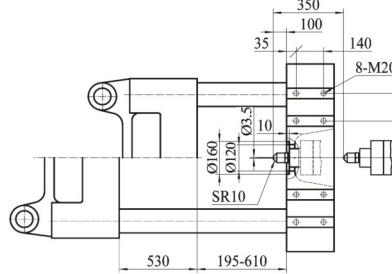
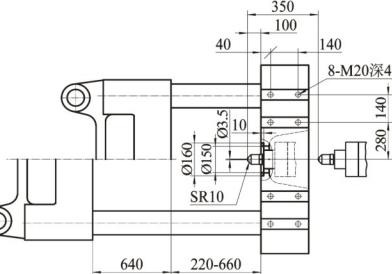
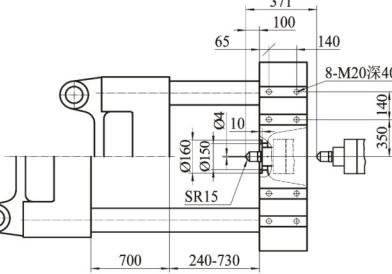
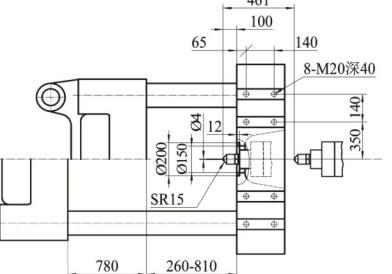
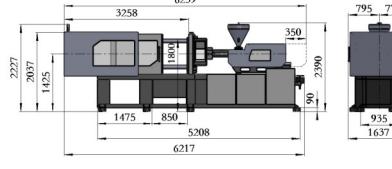
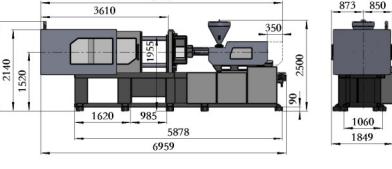
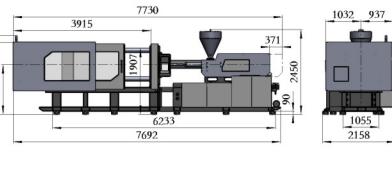
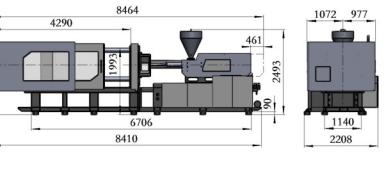
Note:

1. Shot volume=barrel sectional area × injection stroke
2. Shot weight = shot volume × 0.92 (according to GPPS)
3. Specifications may be changed without prior notice.
4. Please inform us if you need to produce molded parts made from engineering plastics like PVC, PC and PMMA or if you have other special requirements.

UN60A5-I~1000A5-I 技術參數表 (液壓系統配日本油研伺服泵系統)
Specifications of UN60A5-I to UN1000A5-I (Equipped with Japan's Yuken servo pump system)

說明	DESCRIPTION	UNIT	UN60A5-I	UN90A5-I	UN120A5-I	UN160A5-I	UN200A5-I
國際標準規格	International specification		190/600	295/900	420/1200	604/1600	895/2000
射膠單元 INJECTION UNIT							
理論注射容積	Shot volume	cm³	51.2	71.6	116.6	159	207
實際注射量	Shot weight (PS)	g (克)	47.0	65.9	107	146	190.4
		oz (盎司)	1.6	2.3	3.8	5.2	6.7
螺杆直徑	Screw diameter	mm	22	26	30	35	40
注射壓力	Injection pressure	MPa	373	267	252.8	185.6	142.2
注射速率	Injection rate	g/s	42.5	59.4	69.6	94.8	123.5
螺絲長度直徑比	Screw L:D ratio		20:1	20:1	24 : 1	20 : 1	20 : 1
最大注射速度	Max. injection speed	mm/s	123		107		
螺杆行程	Screw stroke	mm	135		165		
螺杆轉速	Screw speed(stepless)	r/min	0-230		0-219		
鎖模單元 CLAMPING UNIT							
鎖模力	Clamping force	kN	600	900	1200	1600	2000
開模行程	Opening stroke	mm	260	330	360	420	490
導柱內間距 (W x H)	Space between tie bars	mmxmm	310x310	360x360	410x410	460x460	530x530
模板最大距離	Max. Daylight	mm	590	710	810	940	1040
容模量 (最薄-最厚)	Mold thickness(Min.-Max.)	mm	120-330	130-380	145-450	160-520	180-550
頂出行程	Ejector stroke	mm	60	100	120	140	150
頂出孔數量	Ejector number		1	5	5	5	5
頂出力	Ejector force	kN	22	28	42	42	49
動力/電熱 POWER UNIT							
最大系統壓力	Hydraulic system pressure	Mpa	17.5	17.5	17.5	17.5	17.5
油泵馬達	Pump motor	kW	8	9	13	15	17
電熱功率	Heating capacity	kW	4.8/5.5	6.9/7.8	9/10.1	10.9/12.1	14.4/16.8
溫度控制區數	Number of temp control zones		4	4	4	4	5
其它 GENERAL							
乾循環時間	Dry cycle time	s	1.8	1.8	2.0	2.4	2.7
油箱容量	Oil tank capacity	L	130	150	155	220	255
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mmxmxm	4.22x1.14x1.84	4.49x1.22x1.88	4.82x1.30x1.92	5.35x1.37x2.02	5.76x1.45x2.09
設計重量	Machine weight	kg	2900	3400	4000	5000	6500
模板正面尺寸圖 Platen Dimensions							
     							
模板側面尺寸圖 Platen Dimensions							
     							
外形尺寸 Machine Dimensions							
     							

UN60A5-I~1000A5-I 技術參數表 (液壓系統配日本油研伺服泵系統)
Specifications of UN60A5-I to UN1000A5-I (Equipped with Japan's Yuken servo pump system)

說明	DESCRIPTION	UNIT	UN260A5-I	UN320A5-I	UN400A5-I	UN480A5-I
國際標準規格	International specification		1269/2600	1885/3200	2693/4000	3330/4800
射膠單元 INJECTION UNIT						
理論注射容積	Shot volume	cm ³	584.6	749.3	962.4	834
實際注射量	Shot weight (PS)	g (克)	537.8	689.4	885.4	767.3
螺杆直徑	Screw diameter	mm	53	60	68	60
注射壓力	Injection pressure	MPa	217.1	169.4	131.8	226.2
注射速率	Injection rate	g/s	203	260	334	214
螺旋長度直徑比	Screw L:D ratio		22.6:1	20 : 1	20 : 1	22.6:1
最大注射速度	Max. injection speed	mm/s		101		83
螺杆行程	Screw stroke	mm		265		295
螺杆轉速	Screw speed(stepless)	r/min	0-207		0-182	
鎖模單元 CLAMPING UNIT						
鎖模力	Clamping force	kN	2600		3200	4000
開模行程	Opening stroke	mm	530		640	700
導柱內間距 (W x H)	Space between tie bars	mmxmm	610x570		710x670	760x710
模板最大距離	Max. Daylight	mm	1140		1300	1430
容模量 (最薄-最厚)	Mold thickness(Min.-Max.)	mm	195-610		220-660	240-730
頂出行程	Ejector stroke	mm	160		170	210
頂出孔數量	Ejector number		13		13	13
頂出力	Ejector force	kN	77		77	110
動力/電熱 POWER UNIT						
最大系統壓力	Hydraulic system pressure	Mpa	17.5		17.5	17.5
油泵馬達	Pump motor	kW	28		31	31+17
電熱功率	Heating capacity	kW	16.6/19		22.2/24.6	26.4/30.9
溫度控制區數	Number of temp control zones		5		5	6
其它 GENERAL						
乾循環時間	Dry cycle time	s	2.8		3.2	4
油箱容量	Oil tank capacity	L	335		445	570
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mmxmxm	6.24x1.64x2.39		6.96x1.85x2.50	7.73x2.16x2.45
設計重量	Machine weight	kg	8500		11500	15500
模板正面尺寸圖 Platen Dimensions						
模板側面尺寸圖 Platen Dimensions						
外形尺寸 Machine Dimensions						

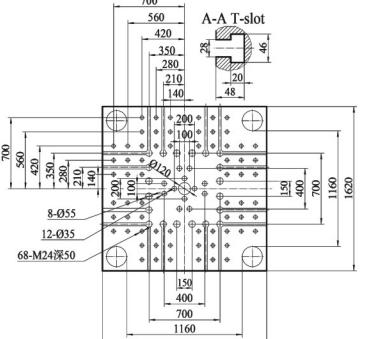
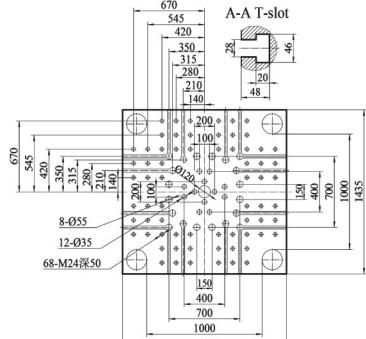
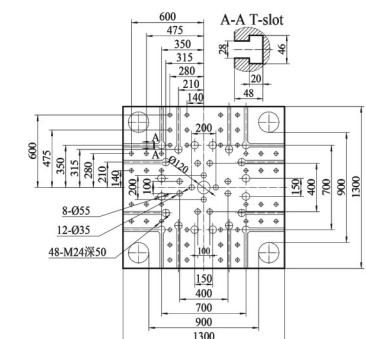
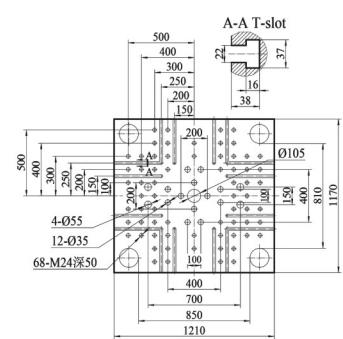
- 備註：
1.理論注射容積=注塑機料筒截面積X注射行程
2.實際注射量=理論注射容積X0.92 (以GPPS計算)
3.正常情況下改善規格參數，恕不另行通知
4.當您有成型PVC,PC,PMMA等工程塑料產品或有其他特殊要求時，敬請告知本公司

- Note:
1. Shot volume=barrel sectional area × injection stroke
2. Shot weight = shot volume × 0.92 (according to GPPS)
3. Specifications may be changed without prior notice.
4. Please inform us if you need to produce molded parts made from engineering plastics like PVC, PC and PMMA or if you have other special requirements.

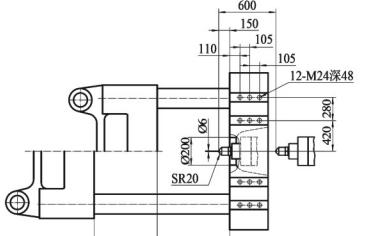
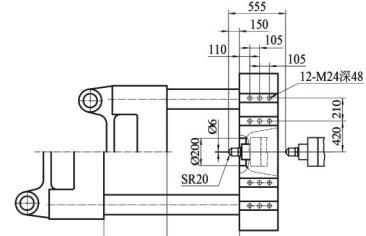
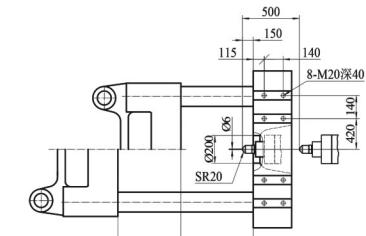
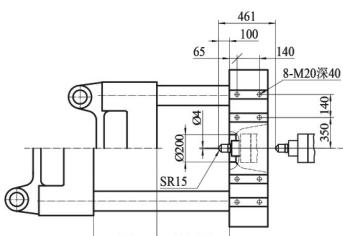
UN60A5-I~1000A5-I 技術參數表 (液壓系統配日本油研伺服泵系統)
Specifications of UN60A5-I to UN1000A5-I (Equipped with Japan's Yuken servo pump system)

說明	DESCRIPTION	UNIT	UN560A5-I	UN650A5-I	UN800A5-I	UN1000A5-I
國際標準規格	International specification	UNIT	3330/5600	4820/6500	6780/8000	9015/10000
射膠單元 INJECTION UNIT						
理論注射容積	Shot volume	cm³	1678.5	2050.5	2905	2216.7
實際注射量	Shot weight (PS)	g (克)	1544.2	1886.5	2673	2039.4
		oz (盎司)	54.5	66.5	94.4	71.9
螺杆直徑	Screw diameter	mm	76	84	100	84
注射壓力	Injection pressure	MPa	198.6	162.5	114.6	217.6
注射速率	Injection rate	g/s	387	473	671	423
螺絲長度直徑比	Screw L:D ratio		22.1:1	20:1	20:1	21.9:1
最大注射速度	Max. injection speed	mm/s		94		83
螺杆行程	Screw stroke	mm		370		400
螺杆轉速	Screw speed(stepless)	r/min		0~145		0~143
鎖模單元 CLAMPING UNIT						
鎖模力	Clamping force	kN	5600		6500	8000
開模行程	Opening stroke	mm	850		900	1040
導柱內間距 (W x H)	Space between tie bars	mmxmm	850~810		900x900	1000x1000
模板最大距離	Max. Daylight	mm	1700		1800	2025
容模量 (最薄-最厚)	Mold thickness (Min.-Max.)	mm	330~850		350~900	400~1000
頂出行程	Ejector stroke	mm	220		280	280
頂出孔數量	Ejector number		17		21	21
頂出力	Ejector force	kN	166		182	182
動力/電熱 POWER UNIT						
最大系統壓力	Hydraulic system pressure	Mpa	17.5		17.5	17.5
油泵馬達	Pump motor	kW	31+17		31+31	31*2+17
電熱功率	Heating capacity	kW	33.1/43		38/47	42/51
溫度控制區數	Number of temp control zones		6		6	7
其它 GENERAL						
乾循環時間	Dry cycle time	s	5.5	6.5	8.8	12
油箱容量	Oil tank capacity	L	850	1000	1150	1300
外形尺寸 (L x W x H)	Machine dimensions(LxWxH)	mxmxm	8.73x2.21x2.49	9.57x2.25x2.61	10.51x2.38x2.63	11.37x2.60x2.66
設計重量	Machine weight	kg	21500	30000	40000	50000

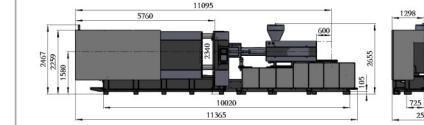
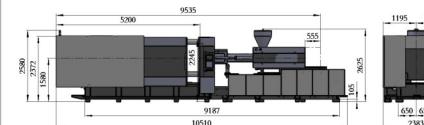
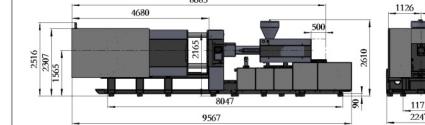
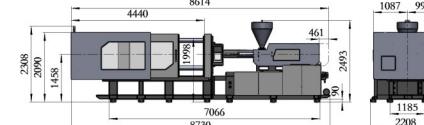
模板正面尺寸圖
Platen Dimensions



模板側面尺寸圖
Platen Dimensions



外形尺寸
Machine Dimensions



備註：

- 理論注射容積=注塑機料筒截面積X注射行程
- 實際注射量=理論注射容積X 0.92 (以GPPS計算)
- 正常情況下改善規格參數，恕不另行通知
- 當您有成型PVC,PC,PMMA等工程塑料產品或有其他特殊要求時，敬請告知本公司

Note:

- Shot volume=barrel sectional area × injection stroke
- Shot weight = shot volume × 0.92 (according to GPPS)
- Specifications may be changed without prior notice.
- Please inform us if you need to produce molded parts made from engineering plastics like PVC, PC and PMMA or if you have other special requirements.

UN60A5~560A5 標配選配表

	標準配置	備選配置
• 鎖模部分		
精密電子尺控制鎖模/頂針行程/射膠行程	●	
鎖模三大板/機鉸採用QT500-7A高剛性球墨鑄鐵	●	
歐標預留機械手安裝孔	●	
液壓驅動齒輪調模裝置	●	
機械/電報雙重保護	●	
免調節式機械安全鎖撞杆	●	
移動模板耐磨鋼帶軌道	●	
自動集中容積式潤滑系統	●	
多種頂針功能可選	●	
低壓模具保護功能	●	
T型槽、碼模孔複合模板	●	
一鍵式自動調模功能	●	
鎖模力按需自動調整功能	●	
頂針強制複位功能	●	
機門邊加裝防夾傷、緩沖條設計	●	
特殊模具安裝孔		○
吊模架		○
加模具隔熱板		○
加大頂出力、加大頂出行程		○
加大容模量		○
磁力模板		○
導柱採用自潤軸承		○
• 液壓系統		
國產伺服泵系統 (A5)	●	
閉環變量伺服泵系統 (A5-V)	●	
日本油研伺服泵系統 (A5-I)	●	
高精密實時旁路濾油器裝置	●	
低噪音節能型液壓回路	●	
進口名牌液壓控制閥	●	
進口名牌液壓密封件	●	
差動快速合模裝置	●	
內置式冷卻器	●	
開模剝車油路設計	●	
油溫自動檢測及高低溫報警	●	
外露高壓油管防爆鏈	●	
全機標配一組帶閥抽芯接口	●	
多組運水裝置並配快速插頭	●	
變量泵系統		○
加大多級油泵、電機		○
加大多級熔膠馬達		○
同步頂出、抽芯、熔膠系統		○
高響應蓄能伺服注射系統		○
多組抽芯裝置		○
加裝液壓旋轉脫模裝置		○
熔膠比例背壓控制		○
玻璃管冷卻流量計		○
• 其他配置		
說明書	●	
避震腳	●	
工具箱及工具一套，精密濾芯一件	●	
碼模夾	●	
隨機備件（詳細見合同清單）	●	
乾燥機		○
自動上料機		○
冷水機		○
PET模具		○
薄壁包裝類模具		○

	標準配置	備選配置
• 射膠部分		
雙缸平衡注射系統	●	
低速大扭矩液壓馬達	●	
氮化合金鋼螺杆料筒	●	
料管節能環結構（專利設計）	●	
射嘴及料管多段PID溫度控制	●	
雙射移油缸	●	
全封閉式保溫罩、射嘴防護罩	●	
螺杆防冷啓動功能	●	
自動清料功能	●	
熔膠前、後松退可選	●	
移動或滾動料鬥裝置 (60~320T)	●	
熔膠三軸承傳動 (260T以上)	●	
螺杆轉速檢測	●	
專用料管組 (電鍍、合金、PC、PMMA、PBT、PA等)		○
料筒風冷裝置		○
彈簧自鎖射嘴		○
加大注射行程或加大（減少）一級射膠機構		○
旋轉射台		○
陶瓷發熱圈 (650T以上標配)		○
料筒保溫節能裝置 (矽膠保溫、紅外線加熱)		○
加裝磁力架座(配磁力架)		○
电动熔胶 (320T~560T)		○
• 電氣控制系統		
料管加熱強制保護	●	
輸入、輸出檢視畫面	●	
自動保溫及自動加熱設定功能	●	
射膠轉保壓方式：時間/位置/時間+位置	●	
10.4" TFT真彩色LCD顯示屏	●	
100組大容量工藝參數存貯空間，USB存儲接口	●	
多種操作語言	●	
雙色報警燈	●	
所有電子尺、弱電開關、換向電磁閘線加套防水、防鼠咬波紋管	●	
可設置多級密碼保護，操作面板帶鎖按鍵鑰匙	●	
前、後機門急停開關保護	●	
質量數據過程控制界面	●	
生產統計過程控制 (SPC) 實時列表界面	●	
預留吹風、抽芯、頂退回保護等多種接口	●	
三組AC380V三相插座	●	
熱流道接口		○
氣動順序閥		○
電動旋轉脫模接口		○
更改電源電壓		○
吹氣帶閥裝置		○
氣輔注射裝置		○
中央（聯網）監控系統		○
前、後機門內光柵保護		○
電腦整機能耗顯示		○
三色報警燈		○
單相/三相電源插座		○
特殊電源電壓		○
更換電腦 (KEBA電腦/巧塑88)		○
順序射膠接口		○
加裝電動門 (400T~560T)		○

	Standard	Optional
• Clamping Unit		
Precise transducer for clamping / ejector/injection stroke control	●	
Three platens / toggles made of highly-rigid ductile iron QT500-7A	●	
Pre-drilled robot mounting holes according to EUROMAP	●	
Hydraulic gear-type mold height adjusting device	●	
Mechanical/electrical safety devices	●	
Adjustment-free mechanical safety lock rod	●	
Wear-resistant manganese steel bands and supporting tracks for movable platen	●	
Automatic centralized lubrication system	●	
Multiple functions of ejector available	●	
Low pressure mold protection	●	
Platen with T-slots and mold mounting holes	●	
One-button automatic mold height adjustment	●	
Automatic clamping force adjustment as needed	●	
Force ejector reset	●	
Anti-crushing bump strips on the safety gate edges	●	
Special mold mounting holes		○
Mold lifting device		○
Heat insulating plate of mold		○
Increased ejection force and lengthened ejector stroke		○
Increased mold thickness		○
Magnetic platen		○
Self-lubricated bushes in tie bars		○
• Hydraulic System		
Domestic servo pump system (A5)	●	
Closed-loop variable-displacement pump system (A5-V)	●	
Japan's Yuden servo pump system (A5-I)	●	
High-precision bypass oil filter	●	
Low-noise energy-saving hydraulic circuit	●	
Imported brand-name hydraulic valve	●	
Imported brand-name hydraulic seal	●	
Differential fast mold closing device	●	
Built-in cooler	●	
Hydraulic circuit design of mold opening stop	●	
Automatic oil temperature detection and alarm	●	
Safety cable for exposed high-pressure hydraulic hose retention	●	
A set of interface for core puller with valve	●	
Mold water-cooling devices with fast connectors	●	
Variable-displacement pump system		○
Multi-size larger pump and motor		○
Multi-size larger plasticizing motor		○
Synchronized ejection, core pulling and plasticizing system		○
High-response servo injection system with accumulator		○
Multiple sets of core puller		○
Hydraulic unscrewing device		○
Plasticizing proportional back pressure control		○
Glass-tube cooling water flowmeter		○
• Other		
Operation manual	●	
Leveling pad	●	
A tool box, a set of tools, a filter core	●	
Mold clamp	●	
Spare parts (details as per sales contract)	●	
Dryer		○
Auto loader		○
Chiller		○
PET Preform Mold		○
Thin-wall packaging Preform Mold		○

UN60A5~560A5 Standard and Optional Features

	Standard	Optional
• Injection Unit		
Parallel double-cylinder injection system	●	
Low-speed high-torque hydraulic motor	●	
Nitrided alloy-steel screw and barrel	●	
Energy-saving groove design of barrel (patented design)	●	
Multi-stage PID nozzle and barrel temperature control	●	
Double-carriage cylinder	●	
Fully-closed heat retaining cover and nozzle safety cover	●	
Cold start protection	●	
Automatic material purge	●	
Selectable suck-back before or after plasticizing	●	
Movable or rolling hopper (machines from 60 to 320 tons)	●	
Three-bearing drive shaft (for machines over 260 tons)	●	
Screw speed detection	●	
Dedicated barrel and screw assembly (electroplating, alloy, PC, PMMA, PBT, PA, etc)		○
Barrel air-cooling device		○
Spring shut-off nozzle		○
Increased injection stroke or one-size larger (smaller) injection unit		○
Swivel injection unit		○
Ceramic heater band (standard on machines over 650 tons)		○
Barrel heat-retaining energy-saving device (silicone heat preservation, infrared heating)		○
Equipped with magnetic pillow block (with magnetic rack)		○
Electrical plasticizing (320T~560T)		○
• Electrical System		
Forced barrel heating protection	●	
Input/output inspection	●	
Automatic heat retaining and automatic heating setting	●	
Ways of switching from injection to holding pressure: time / position / time + position	●	
10.4" TFT color LCD	●	
Memory space for up to 100 mold data sets, USB ports	●	
Multiple operating languages	●	
Two-color alarm light	●	
All transducers, weak-current switches and reversing solenoid valves covered with water-proof and rat-bite-proof corrugated pipes	●	
Multi-level password security and key-locked operation panel	●	
Front and rear safety gates with emergency stop protection	●	
PDP interface	●	
Statistical process control (SPC) interface	●	
Reserved interfaces for air blowing, core pulling, ejector back protection devices, etc.	●	
Three sets of 3-phase power socket, AC 380V	●	
Hot runner interface		○
Pneumatic sequence valve		○
Interface for electric unscrewing device		○
Power supply voltage change		○
Air blowing device with valve		○
Air-assisted injection device		○
Central (networked) monitoring system		○
Protective light grid of safety gates		○
Display of machine's energy consumption		○
Three-color alarm light		○
Single-phase / three-phase power socket		○
Power supply voltage change		○
Computer change (to KEBA / B & R)		○
Sequential injection valve gate		○
Automatic safety door (400T~560T)		○

	標準配置	備選配置
鎖模部份		
非接觸式精密電子尺控制鎖模/頂針行程	●	
鎖模三大板/機鉸採用高剛性球墨鑄鐵	●	
電腦控制兩段頂出前進/後退動作	●	
低壓模具保護功能	●	
頂針強制復位功能	●	
多種頂針控制功能可選	●	
液壓驅動齒輪調模裝置	●	
機械/電氣/液壓三重保護裝置	●	
移動模板耐磨鎳帶軌道	●	
自動集中潤滑系統	●	
差動快速合模裝置	●	
T型槽	●	
標配EU18機械手安裝孔	●	
加大容模量 (100/200mm)		○
加裝模具隔熱板		○
特殊模具定位孔		○
自動抽導柱裝置		○
導柱採用自潤軸承		○
射膠部份		
合金鋼氮化螺杆料筒	●	
射嘴PID溫度控制	●	
雙射移油缸	●	
螺杆防冷開機功能	●	
自動清料功能	●	
熔膠前後松退可選	●	
多段料筒PID溫控	●	
射膠、熔膠故障自動檢測	●	
非接觸式精密電子尺控制射膠/熔膠行程	●	
注射速度、壓力、位置6段設定	●	
保壓速度、壓力、時間5段設定	●	
儲料速度、壓力、時間4段設定	●	
螺杆轉速檢測	●	
加長射嘴	●	
射嘴防護罩 (不帶電氣保護)	●	
數控比例背壓	●	
線性導軌	●	
專用螺杆組件 (PET/PA/PC/PMMA/TPU/UPVC)		○
雙金屬料管組件		○
料筒吹風裝置		○
射嘴防護罩(可帶電氣保護)		○
彈簧自鎖射嘴		○
加裝上料架平台		○
加裝磁力架座(配磁力架)		○
電動熔膠		○
液壓自動封嘴		○
氣動自動封嘴		○
液壓系統		
國產伺服泵系統 (A5)	●	
閉環變量伺服泵系統(A5-V)	●	
日本油研伺服泵系統 (A5-I)	●	
旁路迴圈精密篩檢程式	●	
系統壓力流量自動校正	●	
進口液壓控制閥	●	
進口密封元件	●	
液壓油溫檢測及高低溫報警	●	
低噪音液壓系統	●	

	標準配置	備選配置
液壓油冷卻裝置		
高壓油管配防爆鏈	●	
油位檢測	●	
頭板標配1組抽芯預留一組抽芯接口	●	
二板標配1組抽芯預留一組抽芯接口	●	
旋轉脫模裝置		○
獨立油溫控制系統		○
高響應伺服注射系統		○
同步頂出功能		○
同步熔膠功能		○
加大油冷卻器		○
加大一級油泵電機		○
加裝液壓抽芯		○
加裝液壓旋轉脫模		○
油預熱功能		○
電控系統		
輸入/輸出監視功能	●	
自動保溫及自動加熱設定功能	●	
射膠轉保壓採用時間/位置/時間+位置控制	●	
動作斜率的獨立調整	●	
液壓抽芯/旋轉脫模電氣介面	●	
工藝參數鎖定功能	●	
10.4 " TFT 彩色LCD顯示幕	●	
100組工模參數存貯空間	●	
中英雙操作語言	●	
機械手界面	●	
雙色警示燈	●	
三組AC380V三相插座	●	
電動旋轉脫模介面及裝置		○
熱流道界面及接口		○
氣輔注射裝置及接口		○
三色報警燈		○
單相/三相電源插座		○
工模吹風		○
特殊電源電壓		○
加裝電動門		○
更換電腦 (KEBA電腦/巧塑88)		○
鎖模力檢測及顯示		○
順序射膠接口		○
中央 (聯網) 監控系統		○
其他配置		
說明書	●	
可調防震墊腳	●	
工具/工具箱	●	
濾芯	●	
普通料斗	●	
隨機備件 (詳細見合同清單)	●	
模具溫度控制器		○
自動上料機		○
除濕機		○
冷水機		○
乾燥料斗		○
玻璃管冷卻流量計		○
PET模具		○
薄壁包裝類模具		○

	Standard	Optional
• Clamping Unit		
Non-contact precise transducer for clamping / ejector positioning control	●	
High-rigid casting iron for three platens and toggle	●	
2 stage ejector forward / backward control by computer	●	
Low pressure mould protection function	●	
Ejector-forced-back function	●	
Various ejection function settings	●	
Hydraulic gear-type mold height adjusting device	●	
Mechanical / Electrical / Hydraulic safety devices	●	
Wear-resistant manganese steel bands and supporting tracks for movable platen	●	
Automatic centralized lubrication system	●	
Fast mold closing device	●	
T-slots Platen	●	
EUROMAP 18 robot interface	●	
Increased mould thickness		○
Mould heat insulating plates of mould		○
Special mould fixing hole		○
Automatic tie bar extraction		○
Self-lubricated bushes in tie bars		○
• Injection Unit		
Nitrided alloy-steel screw & barrel	●	
Nozzle PID temperature control	●	
Double-carriage cylinder	●	
Screw cold start protection function	●	
Automatic material cleaning function	●	
Selectable suck-back before or after plasticizing	●	
Multi-stage barrel PID temperature control.	●	
Automatic injection and plasticizing failure detection	●	
Non-contact precise injection transducer	●	
6 stage injection speed / pressure /position	●	
5 stage holding pressure speed / pressure / time control	●	
4 stage plasticizing speed / pressure / time control	●	
Screw rotational speed detection	●	
Extended nozzle	●	
Purge cover (Without safety switch)	●	
Proportional back pressure control	●	
Linear guide rail	●	
Screw component for special applications (PET/PA/PC/PMMA/TPU/UPVC)		○
Bi-metallic screw component		○
Blowing device of barrel		○
Purge cover (With safety switch)		○
Spring shut-off nozzle		○
Equipped with ladder for materials feeding		○
Equipped with magnetic pillow block (With magnetic rack)		○
Electrical plasticizing		○
Hydraulic shut-off nozzle		○
Pneumatic shut-off nozzle		○
• Hydraulic System		
Domestic servo pump system (A5)	●	
Closed-loop variable-displacement pump system (A5-V)	●	
Japan's Yuden servo pump system (A5-I)	●	
By-pass high precision oil filter	●	
Automatic system pressure and flow adjustment	●	
Imported hydraulic valves	●	
Imported seals	●	
Oil temperature display and alarm	●	
Lower-noise hydraulic control system	●	
• Other		
Operation manual	●	
Leveling pad	●	
Hand tools / Hand tools box	●	
Filter core	●	
Standard hopper	●	
Spare parts (details as per sales contract)	●	
Mold temperature controller		○
Auto loader		○
Dehumidifier		○
Chiller		○
Drying hopper		○
Water regulator		○
PET Preform Mold		○
Thin-wall packaging Mold		○