

EVERGREAT

永大機械股份有限公司
EVERGREAT YOTA MACHINE CO., LTD.



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14883.1000.01.13.CE

DIE CASTING MACHINE

www.evergreatmc.com.tw

150~800 噸 / Tons 壓鑄機



Evergreat YOTA Die Casting Machine

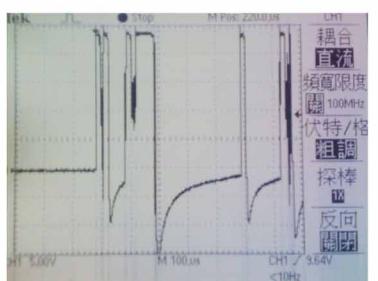
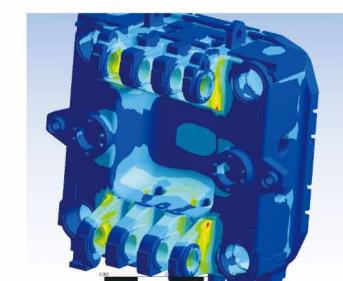
永大壓鑄機

**Innovative Design!
Consistent Product Quality!**

創新設計 / 鑄品品質穩定

With over 40 years of experience in the design and manufacture of die casting machines, Evergreat Yota has successfully presented a wide variety of cold chamber die casting machines. Clamping force from 150 to 800 tons provides customers a flexible choice for heavy duty operations.

Unlike competitive models, Evergreat Yota die casting machines feature higher injection speed, shorter cycle time and employ advanced control systems. These extraordinary features allow Evergreat Yota machines to fully exhibit high efficiency and productivity. Needless to say, consistent product quality has made Evergreat Yota a recognized manufacturer by customers worldwide.



擁有超過40年壓鑄機設計製造經驗的永大機械公司，已成功的推出全系列的冷室壓鑄機。鎖模力從150噸至800噸，提供客戶最全方位的選擇。

有別於一般同級機型，永大壓鑄機獨具快速射出，循環時間短，搭配先進的控制系統，徹底發揮高效率、高產能特色。且鑄品品質穩定，深受全球客戶的肯定。



<http://www.yota-diecasting.com.tw>



EVERGREAT YOTA

Continuous Innovation Technological Leadership

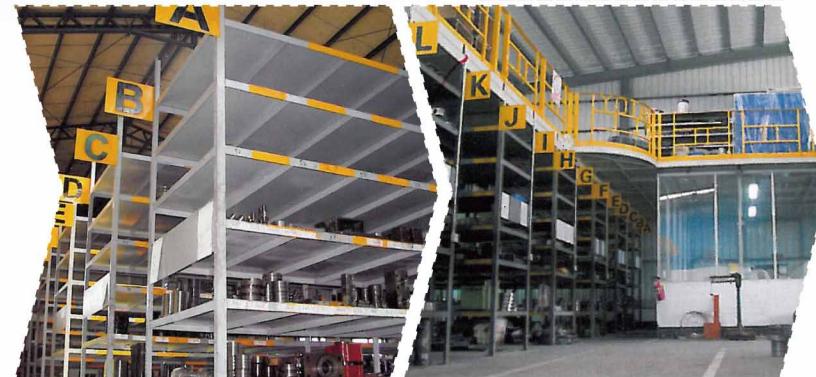
永大機械 不斷創新 / 技術領先

Established in 1964, Evergreat Yota Machine Co., Ltd. is an internationally recognized manufacturer of cold chamber die casting machines. They have accumulated over 40 years of machine manufacturing experience. Evergreat Yota machines have sold to a number of countries around the world and a wide range of customers.

Evergreat Yota enhances technical research and development, investing a lot of capital and effort over the years to pursue technological breakthroughs, allowing them to build higher performance machines. Evergreat Yota is capable of meeting the new challenges in today's competitive environment.

創立於1964年的永大機械股份有限公司，為一家享譽全球的專業冷室壓鑄機製造廠。從創立迄今，已累積了超過40年的造機經驗。產品行銷到全球許多國家，並擁有廣大的客戶群。

永大公司在技術研發投入相當大的心血與資金，不斷追求技術的突破與創新，以打造高性能的壓鑄機，幫助客戶取得最佳競爭力。此外，我們也不斷強化企業組織，以健全的企業體，面對當今企業經營之新挑戰。



Highly Skilled Technological Support

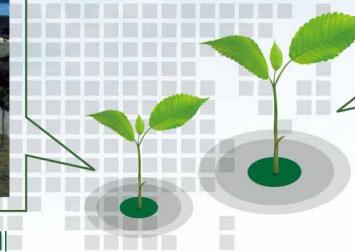
專業技術支援

Evergreat's application engineers not only have an outstanding background in die casting, they are always ready to respond to customers' questions regarding the correct applications of die casting machines and production issues.

永大應用技術部門之工程師，除了擁有豐富的壓鑄生產背景，再經過專業訓練，對於各種壓鑄機的應用及生產問題，都能在最短的時間回覆客戶的問題。



Shenzhen / 深圳



Taiwan / 台灣

Modern Warehouse Management

現代化庫存管理

Evergreat Yota has set up a well-planned, spacious warehouse and employs a modern inventory management system. This enables them to accurately control parts inventory. Evergreat Yota always keeps a sufficient quantity of parts for each machine to meet even the most urgent demands. Their objective is to keep machine down time to a minimum.

永大機械擁有完善規劃的寬敞庫房，並採用現代化的倉儲管理系統。隨時精準掌控零組件庫存量。對於每種機型的零組件，我們隨時保持一定的庫存量，以因應客戶的急需，使客戶的停機待修時間縮減到最短程度。

Research and Development - Total Dedication to a New Level of Die Casting Technology

研究開發 / 追求壓鑄技術新境界

Evergreat Yota die casting machines provide unmatched productivity and capacity to competitive models, and have been recognized by worldwide customers. This reputation results from their totally dedicated R&D team, who are always developing new technologies in die casting. Unlike conventional die casting machine manufacturers, Evergreat has comprehensive R&D capabilities for the machine structure, hydraulic systems, electric controls and automatic peripheral equipment. Evergreat Yota is capable of developing more sophisticated machines to help their customers stay competitive.

永大壓鑄機在產能與鑄造能力遠勝同級競爭機型，也因此深獲全球客戶的一致推崇。此榮耀的背後，就是來自於我們的研發團隊無時無刻的致力於壓鑄技術的研發。有別於一般壓鑄機廠商，本公司的研發能力，涵蓋機器結構，油壓系統，電控系統及週邊自動化設備。我們以最完整的研發能力，不斷開發更精密，更自動化的機型，以幫助客戶提升競爭力。

Machine Structure

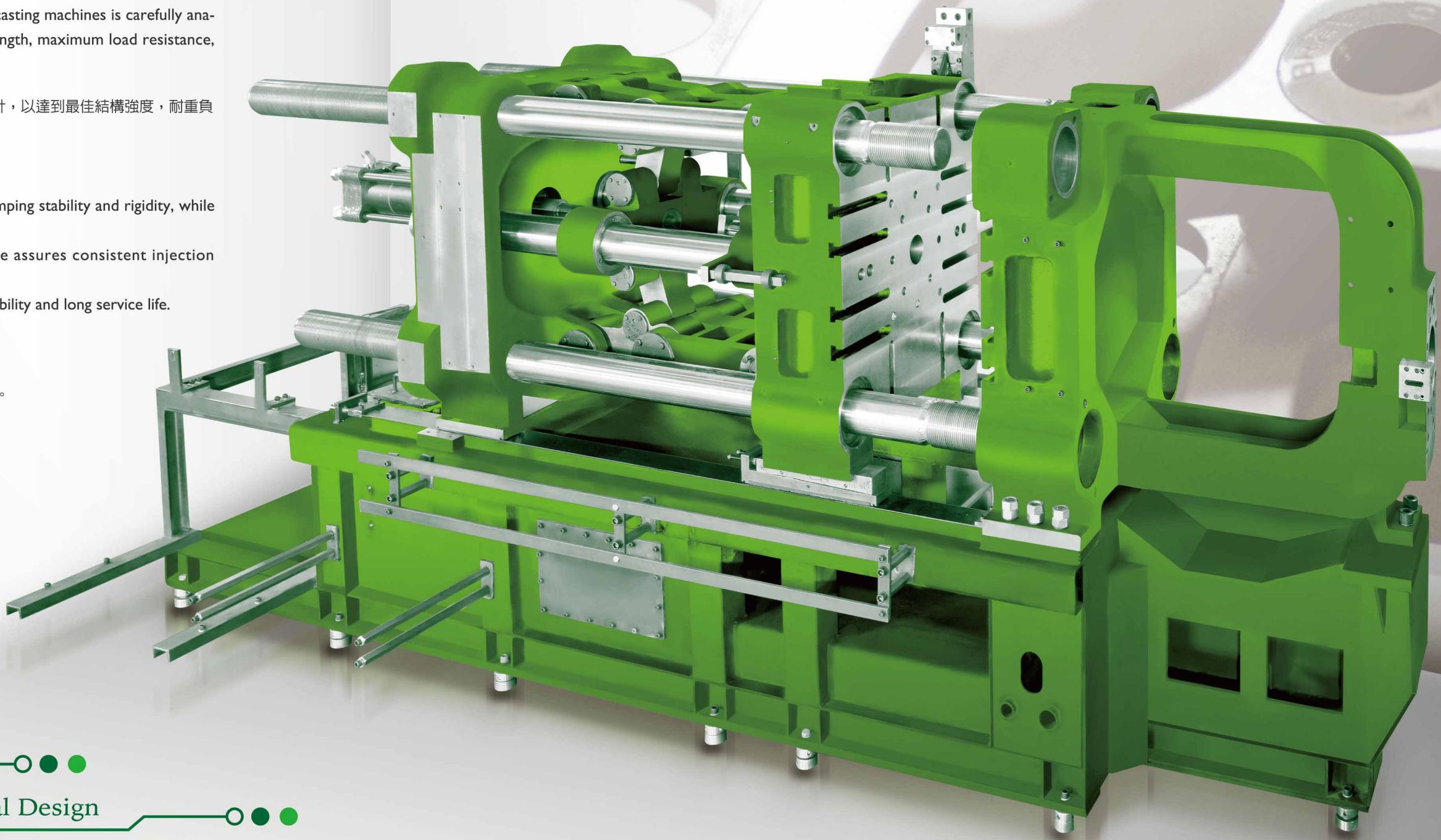
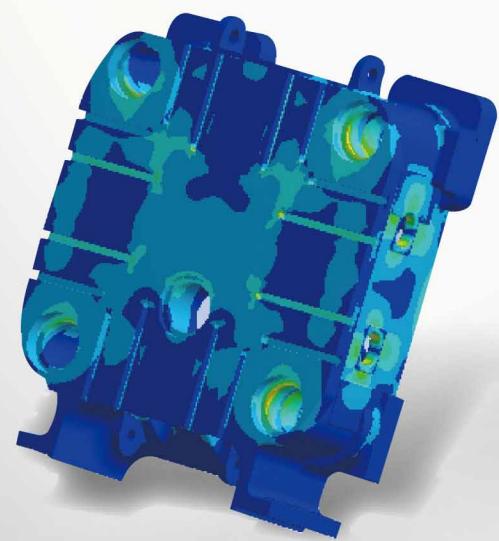
**High Rigidity, Deformation Free and
Maximum Load Resistance**

機體結構 高剛性，不變形 / 耐重負荷

The structure of the full series of Evergreat die casting machines is carefully analyzed and designed to achieve optimal structural strength, maximum load resistance, while remaining deformation-free year after year.

永大全系列壓鑄機之機體結構均經過精心分析，設計，以達到最佳結構強度，耐重負荷，且多年不變形。

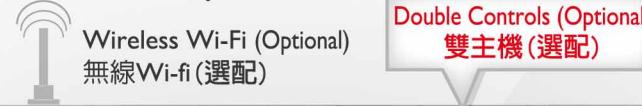
- Increased die platen thickness maximizes die clamping stability and rigidity, while keeping deformation to a minimum.
- One-piece fabricated front platen and C-frame assures consistent injection center.
- Oversized tie bar is stress relieved for extra durability and long service life.
- 模板加厚，提升鎖模穩定性及剛性，最低變形量。
- 前機壁與C型架一體成型，射出中心一致。
- 超大尺寸之大柱經應力消除，強度高，使用壽命長。



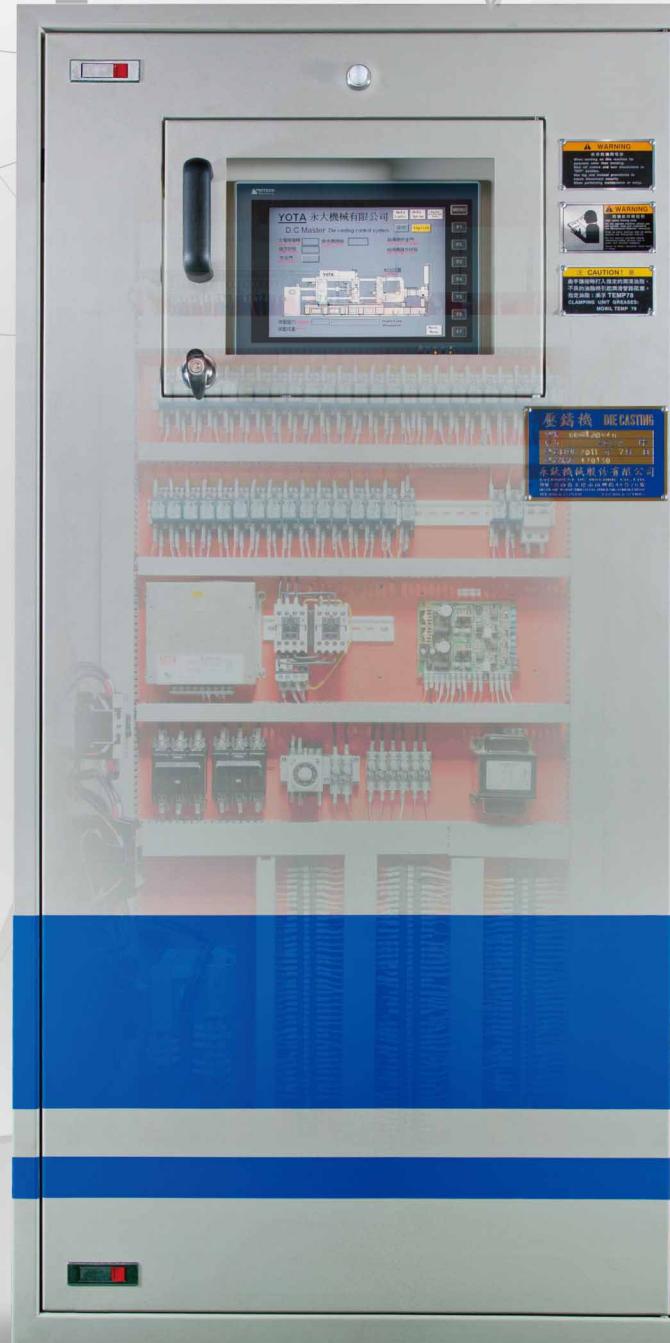
 **The Ultimate in Structural Design**

● Advanced Control System

● 電器系統



Wireless Wi-Fi (Optional)
無線Wi-fi(選配)

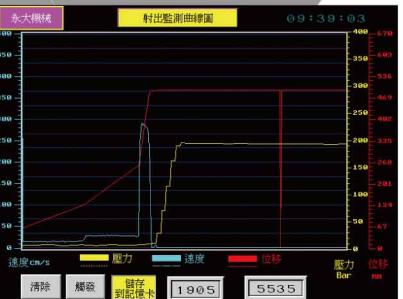
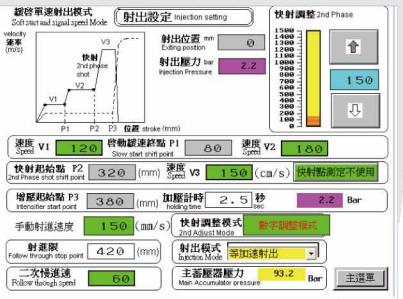


- Choice of three injection modes such as soft start with single speed, multi-stage speed and constant acceleration.
- Fully P/Q controlled machine motions.
- Touch screen panel features easy and convenient operations.
- The Full Test function provides mold—flow analysis.
- Wireless Wi-Fi enables information in die casting factory and far-end control.
- A combination of servo control and hydraulic system leads to significant energy-saving.
- Double controls provide control and data generation simultaneously for dramatically improving the machine accuracy.
- Allows for simultaneously monitoring injection curve, pressure, speed and displacement.
- Production history record function.
- Available to be on-line with the cupola temperature or mold temperature.

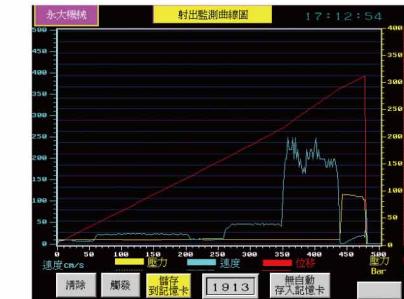
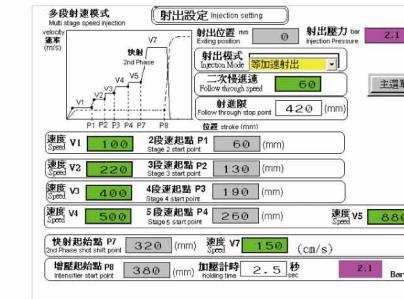
- 緩啓單速. 多段速. 等加速，三種射出模式可供選擇。
- 全P/Q控制機械動作。
- 觸控彩色屏幕，操作方便。
- Full test 功能，實機模流分析。
- 無線Wi-fi實現壓鑄工場信息化及遠端監控功能。
- 伺服-液壓系統有效節能。
- 雙主機運行，控制與資料擷取同時進行，機器精度大幅改進。
- 射出曲線功能、壓力、速度、位移量同時監看。
- 生產履歷記錄功能。
- 可接入熔爐之溫度或模溫。

● Injection Mold (Optional) ● 射出模式(選配)

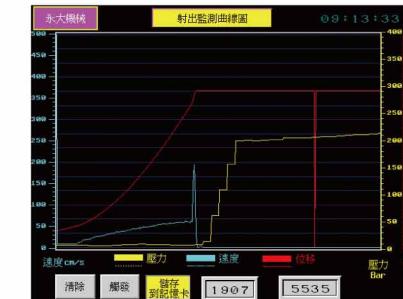
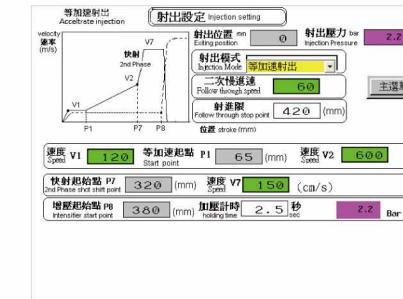
緩啓單速 Soft Start with Single Speed



多段速 Multi-stage Speed



等加速 Constant Acceleration



● Full Test Mold Flow Analysis

1. In the cold chamber die casting process, the barrel is an open space, in which melt flow will swell lots of gas that is then forced into the mold cavities. This may influence product quality. A proper selection of critical low injection speed can ensure the melt flows smoothly in the barrel without generation of swelling gas.
2. As there is a temperature difference between the melt and the barrel-wall once the melt is poured into the barrel, a cold layer with solid state will be formed on the barrel wall. It causes swelling gas or wrapped gas during feeding, and is visible through the simulation function.. By adjusting temperature and injection speed a fully filled barrel condition can be achieved before the melt reaches the quick injection point.
3. With the use of the multi-stage speed function, the operation can simulate the melt flowing into the mold cavity condition, and make a corresponding solution.

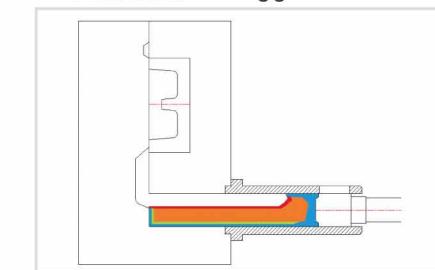
鑄造物 Die casting product



鑄造物 Die casting product



料管內捲氣 Swelling gas in the barrel



● 實機模流分析

1. 在冷室壓鑄製程中，料管屬於開放空間，熔湯流動過程中，可能捲入大量氣體而將空氣擠入模腔內，嚴重影響鑄件品質。有效選擇射出低速之臨界速度，使熔湯在料管內流動平順而無捲氣產生。
2. 由於熔湯與料管壁的溫度差，熔湯倒入料管後，會在料管壁形成激冷層而呈固態，在推進的過程中形成捲氣，包氣的情形，經由模擬功能變成可視，進而調整溫度及射速，使熔湯於快射點以前，呈成無捲氣飽管狀態。
3. 可使用多段速功能，模擬熔湯進入模腔內流動情形，從中觀察，做出對應解決方案。

● Information in Die Casting Factory and Far-end Monitoring (Optional)

All information during the die casting process can be transferred through internet or Wi-Fi to managers' computers at the near-end or far-end for real-time display, saving and printing.

● 壓鑄工場信息化及遠端監控(選配)

壓鑄製程進行中的所有信息，都可透過網路或Wi-Fi傳送到近端或遠端管理人員電腦中，做實時顯示，儲存與列印。

Features

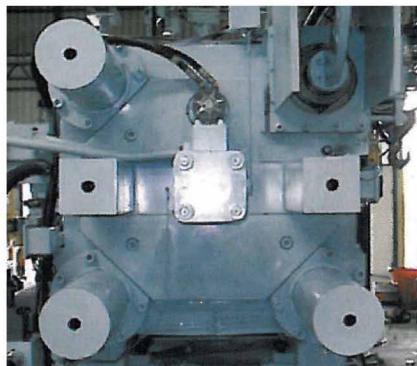


One-piece Fabricated C-frame

The front platen and C-shaped frame are a one-piece construction ensuring proper alignment of the injection center. This allows the machine to exhibit excellent injection performance.

一體式射出C型結構

獨特設計的前機壁與C型架為一體鑄造成型，可確保射出中心的一致性，更可徹底發揮優異的射出性能。



Automatic Tie Bar Pull Out Device (optional)

- The device provides added convenience in die mounting and dismounting, and is especially ideal for dies with hydraulic cores.
- The upper die bar can be pulled out from the front platen.
- The picture shows a tie bar pull out device applied for upper tie bar at the operator's side of the machine.

自動大柱抽取裝置（選配）

- 對於具有油壓中子之模具，提供裝卸之方便性。
- 上側之大柱可抽離前機壁。
- 照片所示為操作側上方大柱之抽取裝置。



Hydraulic System

- The hydraulic system features energy saving.
- Main pressure control employs variable proportional valves to achieve higher efficiency and long service life.
- Operational power is supplied by an advanced servo-hydraulic combination system which precisely controls the flow rate and pressure of the oil.

液壓系統

- 液壓系統，具節能省電特性。
- 總壓控制採用無段式比例閥，具高效率且使用壽命長。
- 裝進先伺服-液壓結合液壓系統精準地對機器作動流量與壓力，提供必須動力，可節省電力20%以上。



節能液壓 (選配)
Energy Saving Hydraulic Device (Optional)



Safety Door

When the safety door is opened, all motions of the machine stop immediately for protecting personnel safety. The entire machine is safely guarded, reducing the machine's impact on environment and increasing its reliability.

安全門

當安全門打開時，本機所有動作立刻停止，以確保人員之安全。全機器各部位都安全包覆，減少環境對機器污染並有效降低機器故障率。



Automatic Lubricator

- Each toggle point is well lubricated by high pressure grease.
- Lubrication pressure reaches 50 kg/cm² without insufficient lubrication problems (grease no. 0.00).

自動注油器

- 機器各部曲手活動點，都施以高壓黃油潤滑。
- 注油壓力高達50 kg/cm²以上，無潤滑不足之慮 (黃油番號0.00)。



Self-lubricating Bushings

The toggle mechanism of each model is equipped with self-lubricating bushings to maintain high accuracy year after year. This not only reduces oil consumption, but is also environmentally friendly.

自潤型銅套

全系列機種之曲手使用自潤型銅套。除了可確保長久精度，而且可減少潤滑油之注油頻率。既經濟又環保。



Rigid Toggle Mechanism

The toggle mechanism is specially designed with increased thickness of the mold platen, resulting in greater rigidity and die clamping stability. This also ensures outstanding parallelism accuracy between the mold platens.

高剛性曲手機構

特殊設計的曲手機構，機板厚度加厚，除了大幅增加鎖模時之剛性與穩定性。而且確保機壁面的平行精度。



Piston-type Accumulator

- The full series of machines are equipped with piston type accumulators, which can store high pressure up to 210 kg/cm² for direct output of pressure.
- Effectively shortens the pressure accumulating time, increases work piece's density, and reduces maintenance costs. The accumulator also features better performance with impure oil.

活塞形蓄壓器

- 全系列機種採用活塞形蓄壓器，可積蓄壓力高達210 kg/cm²，並且直接作高壓輸出，縮短增壓建壓時間。
- 射出的建壓時間可以有效縮短、提升鑄品密緻度，日後維修成本低，對於油壓油雜質容忍度高。





**EVERGREAT YOTA
DIE CASTING MACHINE**

DC-150V3C

**Compact Construction!
Space Saving!**

永大壓鑄機

結構紮實！ 省空間！

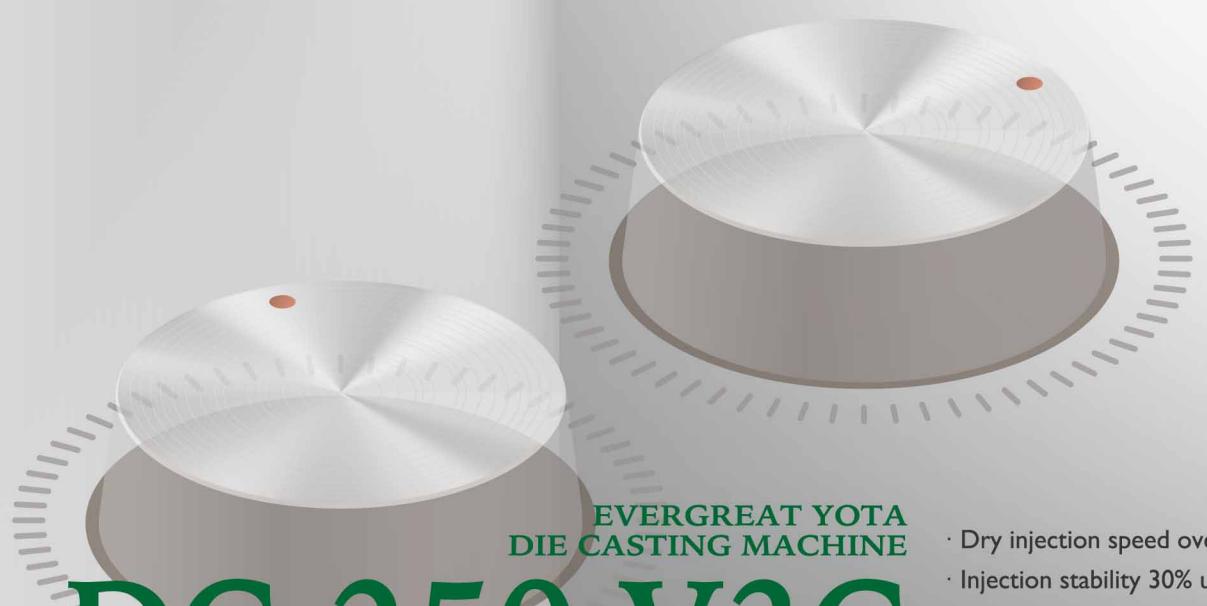
- Max. shot speed: 7m/sec.
- Casting capacity increased by over 20%
- Shortened machine structure for 15% savings in space
- 20% shorter cycle time than on previous models

- 最大射速7米/秒。
- 鑄造能力提升20%以上。
- 機身短，節省空間15%。
- 循環時間比舊機型快20%。

Clamping force	鎖模力	150 Ton
Die height	夾模厚度	200-500 mm
Tie bar distance	柱內尺寸	465 x 465 mm
Max. weight of shot	最大實射出重量	1.64 kg
Max. casting area	最大鑄造面積	426 cm ²
Electricity	所需馬力	15 kw

The EVERGREAT YOTA DC-105V3C Die Casting Machine is a small model, yet features compact, high speed response and production. The DC-150V3C provides 150 tons of clamping force 730 x 730 mm die platen sizes. Its injection speed reaches 7 M/sec. The front platen and C-shaped frame are one-piece fabricated to ensure accurate alignment of the injection center. High performance hydraulic system also features energy savings. The machine is equipped with a personified controller, that is easy to learn and operate. Also, it allows the operator to check the operation status at any time.

永大 DC-150V3C 壓鑄機是屬於小型機種，精巧快捷、產速快。本機具有 150 噸的鎖模力，機壁尺寸為 730 x 730 mm。高速射出可達7米/秒。DC-150V3C 之前機壁與C型架為一體鑄造成型，確保射出中心一致。高性能液壓系統，更具有節能省電特性。本機搭載人性化控制器，易學易操作，並可隨時監控機器作業情況。



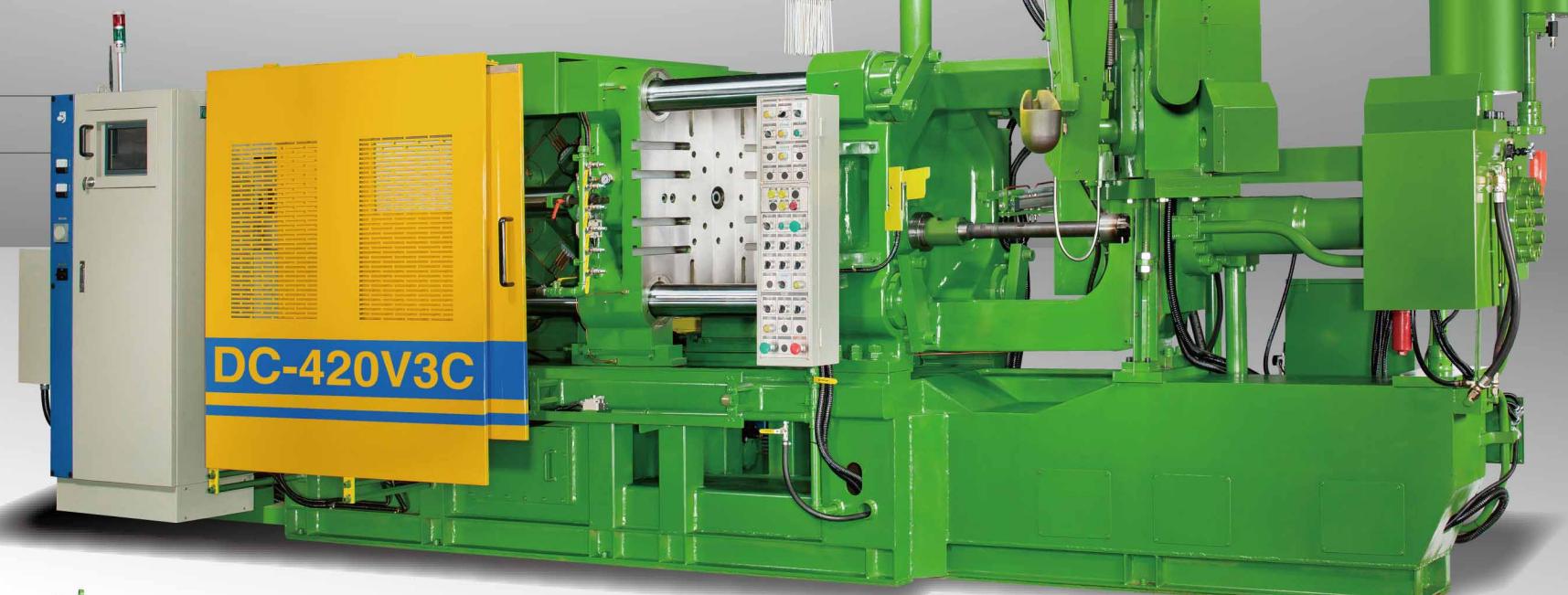
DC-250 V3C

永大壓鑄機

EVERGREAT YOTA
DIE CASTING MACHINE

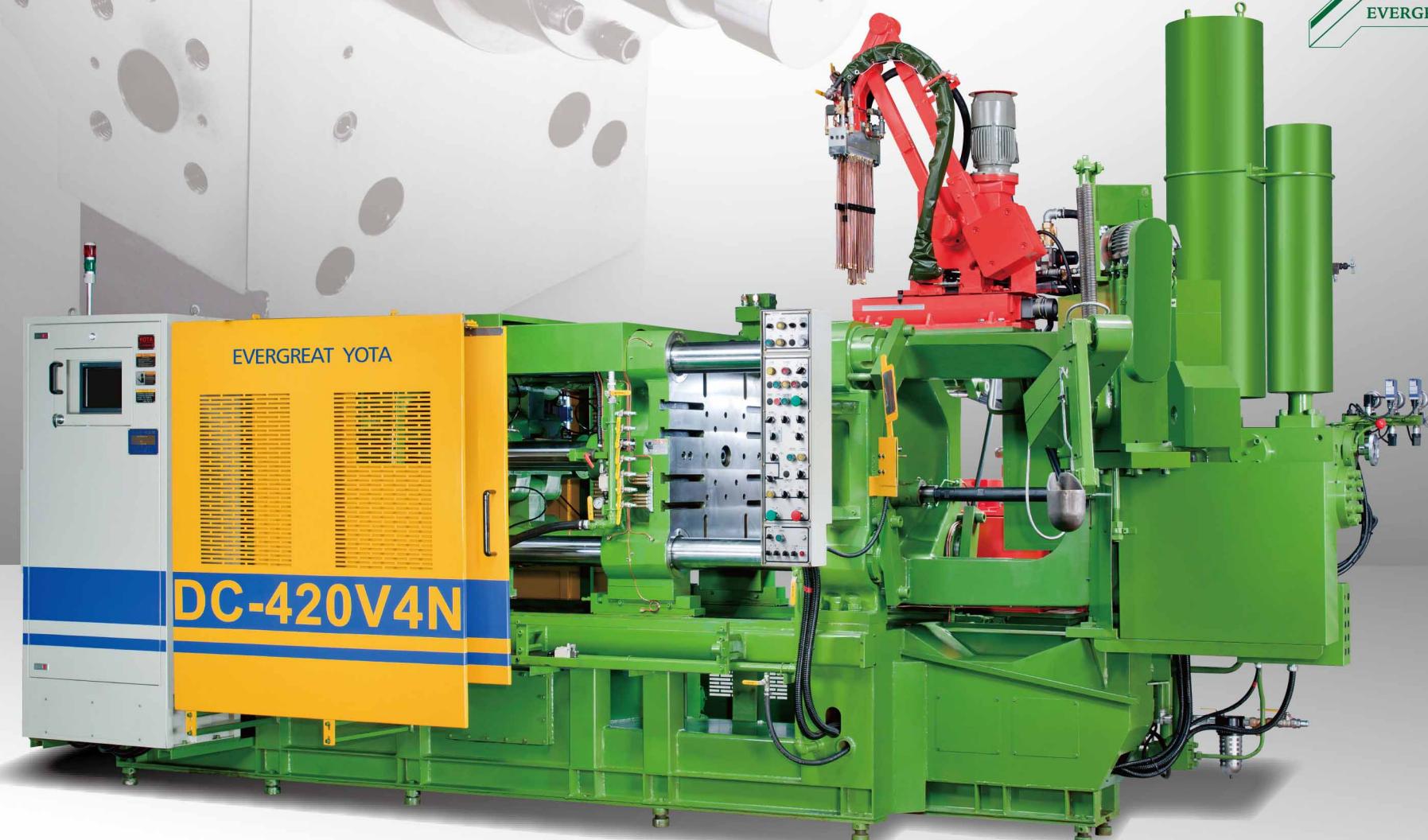
- Dry injection speed over : 6 m/sec.
- Injection stability 30% up.
- 空打射速6米/秒以上。
- 射出穩定性提升30%以上。

Clamping force	鎖模力	250 Ton
Die height	夾模厚度	250-600 mm
Tie bar distance	柱內尺寸	585 x 585 mm
Max. weight of shot	最大實射出重量	2.75 kg
Max. casting area	最大鑄造面積	714 cm ²
Electricity	所需馬力	22.5 kw



The V3C models are the most mature machines with the widest application range. They are also the most reliable and automated machines. Features:

- One piece design for the injection system. The most efficient oil circuit with excellent injection performance.
 - Integrated structural rigidity with self-lubrication design for long service time.
 - Easy to install peripheral equipment for automation, which increases efficiency and saves man power.
 - User-friendly Man-Machine Interface (MMI) with alarm device.
 - Multi-stop injection adjustment provides a reduction of swelling gas in the barrel, while upgrading die casting product quality.
 - There are three injection models including soft start with constant speed injection, constant acceleration injection and multi-stage injection for flexible production.
 - The use of a P/F valve helps to increase convenience of operation while reducing electricity consumption up to over 15%.
 - Available to be equipped with a servo controlled energy-saving electrical system for saving electricity consumption up to 50%.
 - The Full Test function provides a simulation of die casting process that allows the operator to realize the aluminum liquid flow condition during a molding cycle.
- V3C 型機是最成熟，應用範圍最廣泛的機型，也是穩定性與自動化應用最佳機型之一，具有以下特點：
- 一體式射出缸設計，油路效率最佳化，射出性能優越。
 - 整體的機械結構剛性佳，並且都有自潤滑的功能，機械使用期限長。
 - 整體週邊自動化搭配容易，提升效率及省力化效果明顯。
 - 人機界面容易使用，有設置警報。
 - 射出多階段射出調整，可減少料管內捲氣；提高壓鑄件品質。
 - 射出模式有三種：緩起動等速射出，等加速射出，多階段射速，產品的適用性更廣泛。
 - P/F閥的應用，可有效提升操作方便性，及降低電能的消耗達15%以上。
 - 可搭載伺服節能電機，省電最高達50%。
 - Full test 功能實機模擬壓鑄過程，清楚了解鋁水在成形過程中如何流動。



HIGH SPEED PRODUCTION, CONSISTENT QUALITY

All this and more can be found in Evergreat's V4N series

快速生產 / 品質穩定 盡在永大V4N系列

Carefully manufactured by Evergreat, the V4N die casting machine series features fully automatic operation and shortened cycle time. This machine series will dramatically boost productivity, while lowering production costs.

永大精心打造的V4N系列壓鑄機，以全自動化的生產模式，以及較短的循環時間，為客戶大幅提升產能，降低生產成本。



Fully Automatic Operation, Increased Productivity and Lower Production Costs

Die casting automation is the only competitive edge in today's competitive environment. The Evergreat V4N series is available to equip with various peripheral equipment, allowing the machine to achieve highly automated die casting operations.

全自動化生產
提升產能 / 降低成本

壓鑄自動化是當今企業競爭的有效利器。永大V4N系列壓鑄機可配備全系列週邊設備，展現高度自動化的壓鑄作業。

DC-420V4N

- Max. shot speed: 7 m/sec.
- Casting capacity increased by over 20%
- Accommodates extra large die
- Ultra-powerful motor drive
- 最大射速7米/秒。
- 鑄造能力提升20%以上。
- 可裝置超大模具。
- 強勁馬力。

Clamping force	鎖模力	420 Ton
Die height	夾模厚度	300-700 mm
Tie bar distance	柱內尺寸	650 x 650 mm
Max. weight of shot	最大實射出重量	4.18 kg
Max. casting area	最大鑄造面積	1036 cm ²
Electricity	所需馬力	22.5 kw

FEATURES OF DC 250/420 V4N

特性介紹



Manual adjustment (standard)
手動調整 (標準配備)



Automatic adjustment (optional)
自動調整 (選配)

E.I.V. Electric Injection Valve (optional)

- The first and second steps of injection speed and pressure boosting are individually controlled by 3 E.I.V. valves which feature automatic correction and memory functions.
- Injection positioning is controlled by a transducer that ensures high accuracy positioning.

E.I.V.射出電控閥 (選配)

- 第1段與第2段射出速度與增壓速度分別由3個E.I.V.閥控制，具有自動修正與記憶功能。
- 射出位置採用電子尺控制，確保射出位置之精準控制。



Two Sets of Independent Accumulators

The injection circuit employs two sets of independent accumulators, providing the first and second stage injection and intensifying injection functions. With the independent intensifying accumulators, more stable intensified pressure can be achieved.

Accurate Injection

The injection unit allows for various parameter adjustments, such as pressure buildup time at the first and second stage, intensified pressure value and injection pressure value. Each part is equipped with a sensor for feeding back the injection speed and pressure to the controller. The controller will compare the difference between the actual injection value and the setting value, then the operator makes fine tuning according to the comparison result. In addition, the operator may understand the current injection condition through the displayed curve. This greatly upgrades injection accuracy.

Choice of Fine Tuning Methods:

- Manual tuning (standard)
- Automatic tuning (optional)

二組獨立蓄壓器

射出迴路採用二組獨立的蓄壓器，提供第一段與第二段射出及增壓射出。由於增壓蓄壓器為獨立設計，因此可以達到更穩定的增壓壓力，以及更短的增壓建壓時間。

精密射出

射出部份可調整參數包括：一段速、二段速，增壓建壓時間，增壓壓力值，射出壓力值。各部均配有感知器，可精準的將射出速度、壓力傳回至控制器。經由控制器比對實射值與設定值之誤差，再進行微調。操作人員可由顯示曲線瞭解射出狀況，可大幅提昇射出的準確性。

微調方式：

- 手動調整 (標準配備)
- 自動調整 (選擇配備)

Comprehensive Control Functions

- First stage injection speed / manual / auto speed adjustment according to feedback value.
- Second stage injection speed / manual / auto speed adjustment according to feedback value.
- Intensifying pressure buildup time / manual / auto speed adjustment according to feedback value.
- Main accumulator pressure detection / setting / safety device.
- Intensifying accumulator pressure detection / setting / safety device.
- Pressure relief valve for safety.
- FL speed reduction injection.
- Digital position feedback / injection speed detect / display.

完善的控制功能

- 一段射速 / 手動 / 自動反饋調速
- 二段射速 / 手動 / 自動反饋調速
- 增壓建壓時間 / 手動 / 自動反饋調速
- 主蓄壓器壓力檢知 / 設置 / 安全裝置
- 增壓蓄壓器壓力檢知 / 設置 / 安全裝置
- 安全洩壓閥
- FL 減速射出
- 數位位置反饋 / 射速檢測 / 顯示

Specially Designed Integrated Injection Circuit

The series of machines is specially designed with an integrated injection circuit. The special manifold minimizes hysteresis of hydraulic response, increases injection response and is easy to maintain. With this outstanding design, you get higher qualification percentages of die casting parts and stability.

特殊設計的集成化 一體式射出油路

此系列機種採用獨特設計的集成化一體式射出油路。可降低液壓反應遲滯現象，射速響應快，且維護容易等諸多優點。可有效提升壓鑄產品良率及穩定性。



DC-500 / 650 V3C

**Designed and Built
for High Production Demands**

永大V3C系列壓鑄機 專為高產能需求量身打造

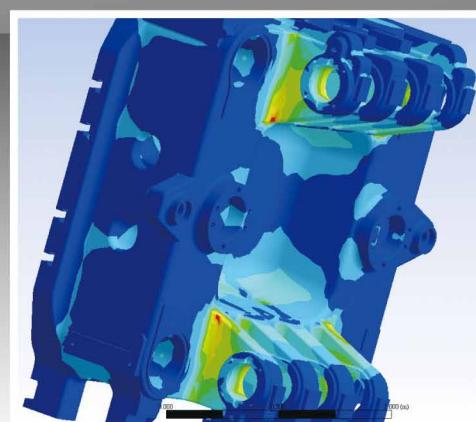
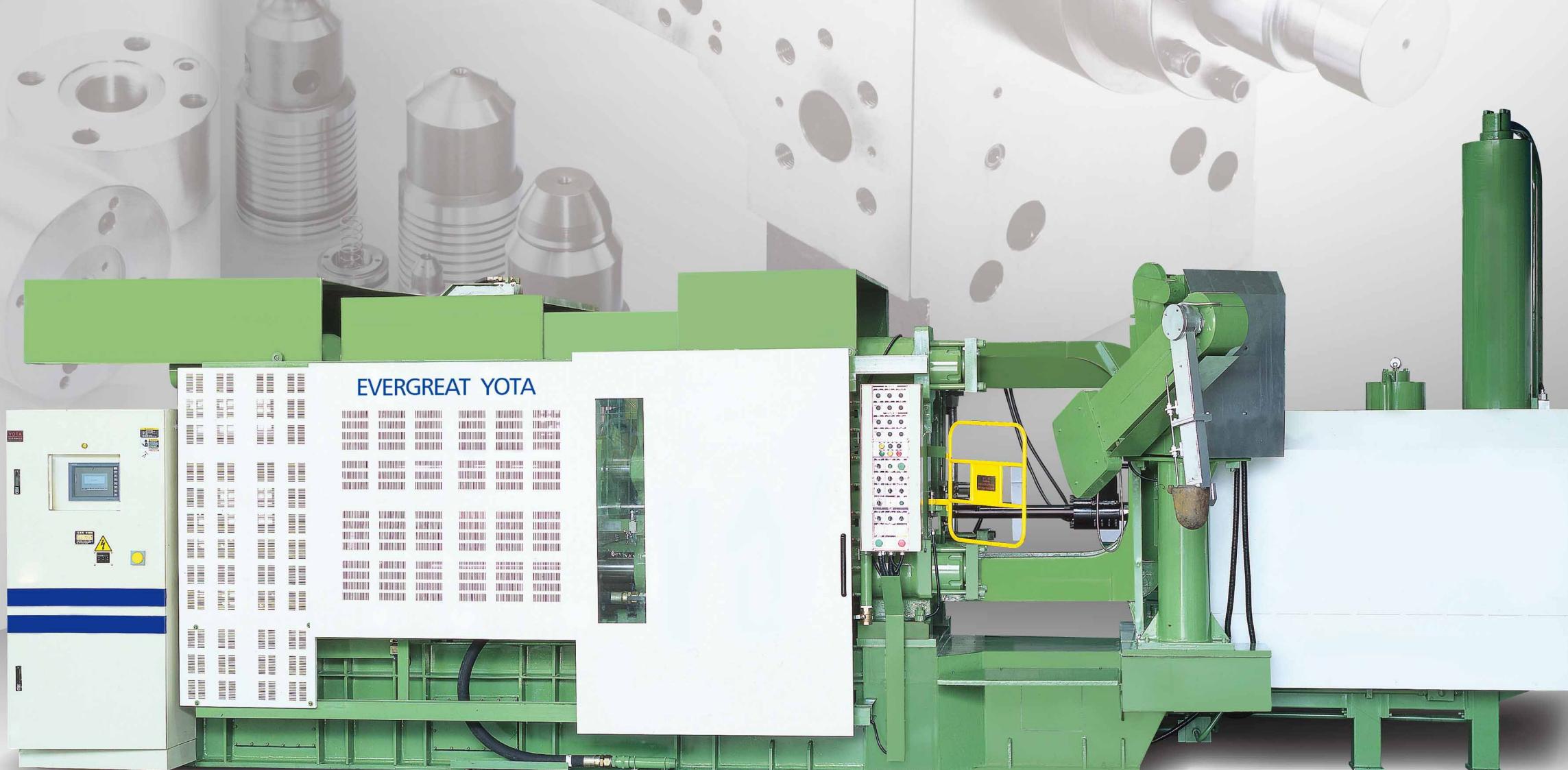


DC-500 / 650 V3C

Clamping force 鎖模力	500 Ton / 650 Ton
Die height 夾模厚度	350~900 mm
Tie bar distance 柱內尺寸	750x750 mm / 850x850 mm
Max. weight of shot 最大實射出重量	7.68 kg
Max. casting area 最大鑄造面積	1522 cm ²
Electricity 所需馬力	37.5 kw

The 500 / 650 / 800 machines are state-of-the-art models that feature optimum mechanical structure, oversized die platen and surpass the limitation of small platen size on other machines. The high speed solenoid valve is standard equipment - a powerful device to boost molding techniques. The user friendly parameter settings allow complicated parts to be made easily. The automatic sprayer extractor and ladle can be conveniently connected. In addition, the automatic sprayer features multi-point spray - the mold surface is sprayed evenly.

500 / 650 / 800 三款中型機都是具備優良的機械結構，超大的機壁尺寸，突破舊型機模面小的限制。快射電控閥列為標準配備，對於鑄造技術，參數調整都有很大的助益，也有助於完成高難度鑄件。自動化設備噴霧機、取出機、給湯機都可達到完美連接，噴霧機有定位多點噴霧功能，更可有效均勻化模面噴塗。



Stress analysis on mold plate.
機器模壁應力分析

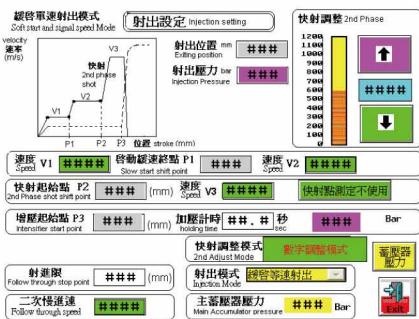
DC-800V3C

先進電控 / 高性能油壓

創造利潤的首選機種

**Advanced Control System -
High Performance Hydraulic System
The No.1 Choice for Creating Profits!**

Clamping force	鎖模力	800 Ton
Die height	夾模厚度	400-950 mm
Tie bar distance	柱內尺寸	950 x 950 mm
Max. weight of shot	最大實射出重量	10.7 kg
Max. casting area	最大鑄造面積	2088 cm ²
Electricity	所需馬力	45 kw



Multi-stage Injection Control (optional)

- The multi-stage injection control provides 8-stage injection speed with digital control, and effectively exhausts air from the barrel and die cavity.
- Especially ideal for a large machine for improving product quality.

多段射出控制(選配)

- 多段射出控制可提供8段位的射出速度數值化控制模式。可有效排除料管及模腔內之空氣。
- 特別適用於大型機器，以改善產品品質。



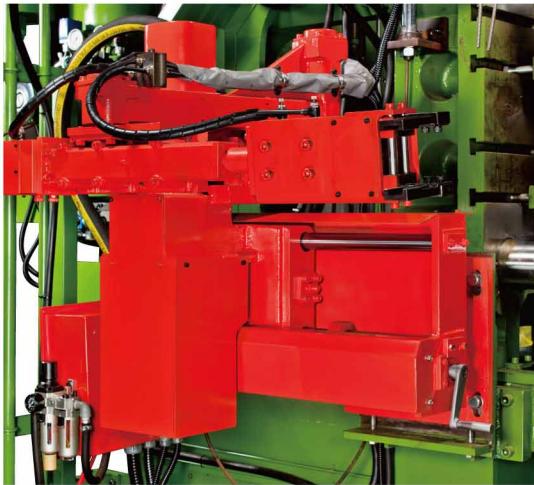
Multi-step injection.
多階段射出

Fully Automatic Operations Provide a Competitive Casting Mode

The DC-800V3C die casting machine is available to equip with various peripheral equipment. This allows the machine to achieve fully automatic operations, greatly upgrading the competitive edge, while creating more profits.

全自動化作業 打造最具競爭優勢的壓鑄模式

DC-800V3C壓鑄機，可配合使用各種自動化週邊設備，達成全自動化生產，提升競爭力，創造利潤。

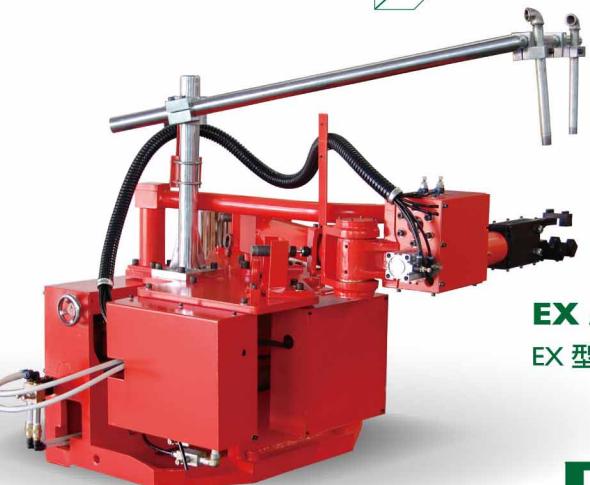


EXJ Auto Extractor
EXJ 型自動取出機

EXJ

EXJ Auto Extractor EXJ 型自動取出機	EXJ-15	EXJ-25	EXJ-42
Component weight kg 鑄件重量	1.5	2.5	3.5
Plunger diameter mm 夾取直徑	45.50.60	50-70	60-80
Arm driving motor kw 手臂驅動馬達	0.4	0.4	0.4
Air source 空壓源	pneumatic 4-6kg/cm ² 1"port		
Suitable machine 適用機器	DC-150	DC-250	DC-420

Overall dimensions L×W×H : 1100 * 850 * 900



EX Auto Extractor
EX 型自動取出機

EX

EX Auto Extractor EX 型自動取出機	EX-15	EX-25	EX-42
Component weight kg 鑄件重量	1.5	2.5	3.5
Plunger diameter mm 夾取直徑	45.50.60	50-70	60-80
Air source 空壓源	pneumatic 4-6kg/cm ² 1"port		
Suitable machine 適用機器	DC-150	DC-250	DC-420

Overall dimensions L×W×H : 1100 * 920 * 1000

Peripheral Equipment

<http://www.yota-diecasting.com.tw>

週邊配備



AL Type Automatic Ladle

- Smooth and stable motion
- Reciprocation can be accomplished within 4.5 seconds.
- Digitized melt amount for high accuracy

AL 型自動給湯機

- 動作快速平穩。
- 往返時間可在4.5秒內完成。
- 湯量數字化，給湯量精準。



CL Type Automatic Ladle

- Specially designed for medium and large die casting machines
- Applicable for over 500 Ton models
- Maximum ladling capacity is 8 kg.
- Stable motion—high speed

CL 型自動給湯機

- 專為中大型壓鑄機而設計。
- 適用500噸以上機型。
- 最大汲湯量8公斤。
- 動作穩定，速度快。

AL Type Automatic Ladle AL	AL-15	AL-25	AL-42
Maximum weight (AL) kg 最大汲湯量	1.5	2.5	3.5
Ladle weight adjustable range kg 可汲湯量	0.2-1.5	0.4-2.5	0.4-3.5
Metal weight tolerance 取湯差	±2%	±2%	±2%
Suitable machine 適用機器	DC-150	DC-250	DC-420
Drive electric motor kw 驅動電機	0.75/0.4	0.75/0.4	0.75/0.4

The suitable cup ladle specifications : 0.5,0.8,1.5,2.0,2.5,3.5kg(AL)

可用湯勺規格 : 0.5,0.8,1.5,2.0,2.5,3.5kg(鋁)

Overall box dimensions L×W×H : 730 * 920 * 1150

CL Type Automatic Ladle CL型自動給湯機	CL-650	CL-800
Maximum weight (AL) kg 最大汲湯量	6	8
Ladle weight adjustable range kg 可汲湯量	0.5-6	0.5-8
Metal weight tolerance 取湯差	±2%	±2%
Suitable machine 適用機器	DC 500-DC 650	DC 800-DC 1250
Drive electric motor kw 驅動電機	1.5/0.4	1.5/0.4

CL大型給湯機

Suitable cup ladle : 5,7,8kg

可用湯勺規格 : 5,7,8kg

**SP Type Automatic Sprayer****(Pneumatically operated)**

- Fast movement
- Especially ideal for high speed running conditions
- Water/air spray for moving and fixed molds can be adjusted independently.

SP 型自動噴霧機(氣動)

- 移動快速。
- 特別適用於高速運轉之場合。
- 活動模與固定模之噴水/氣量可分別調整。

**SPV Type Automatic Sprayer****(Motor drive)**

- Multi-point, multi-position spray and air blast functions
- Designed for accurate spray
- It can be positioned as desired and is capable of vertical oscillation to achieve outstanding performance.

SPV 型自動噴霧機(馬達驅動)

- 多點多位置噴霧與吹氣功能。
- 適用於精密噴霧之需求。
- 可在任何位置定位，搭配上下擺動，展現優異的噴霧吹氣效果。

SP Type Automatic Sprayer	SP 型自動噴霧機	SP-15	SP-25	SP-42
Spraying tube No	噴霧管	28	28	28
Blowing tube No	吹氣管	14	14	14
Air consumption	空氣消耗量	140NL/min (An equivalent to 15HP compressor 機當於15HP空氣壓縮機)		
Air reserve tank	儲氣桶	250-300Liter	250-300Liter	250-300Liter
Die coat adjustment (separate control)	離型劑控制方式	Moving side and fixed side 活動模與固定模分別調整		
Traveling stroke mm	上下行程	600	700	750
Air source	空壓源	pneumatic 4-6kg/cm ² 1"port		
Suitable machine	適用機器	DC-150	DC-250	DC-420
Overall dimensions LxWxH : 660 * 900 * 1250 weight : 180kgs				

SPV Type Automatic Sprayer	SPV 型自動噴霧機	SPV-15	SPV-25	SPV-42
Spraying tube No	噴霧管	17+17	17+17	17+17
Blowing tube No	吹氣管	14	14	14
Air consumption	空氣消耗量	140NL/min (An equivalent to 15HP compressor 機當於15HP空氣壓縮機)		
Air reserve tank	儲氣桶	250-300Liter	250-300Liter	250-300Liter
Die coat adjustment (separate control)	離型劑控制方式	Moving side and fixed side 活動模與固定模分別調整		
Traveling stroke mm	上下行程	1000	1200	1320
Air source	空壓源	pneumatic 4-6kg/cm ² 1"port		
Suitable machine	適用機器	DC-150	DC-250	DC-420
Driving power source	驅動源	0.75KW	0.75KW	0.75KW

Peripheral Equipment

<http://www.yota-diecasting.com.tw>

週邊配備

**SPV-800 Automatic Sprayer**

- Multi-point, multi-position spray and air blast functions
- Designed for accurate spray
- It can be positioned as desired and is capable of vertical oscillation to achieve outstanding performance.
- Applicable for medium and large machines.

SPV-800 自動噴霧機

- 多點多位置噴霧與吹氣功能。
- 適用於精密噴霧之需求。
- 可在任何位置定位，搭配上下擺動，展現優異的噴霧吹氣效果。
- 適用於中大型機器。

SPV-800 Automatic Sprayer	SPV-800 自動噴霧機	SPV-800
Spraying tube No	噴霧銅管	25+25
Blowing tube No	吹氣銅管	23
Air consumption	空氣消耗量	140NL/min (An equivalent to 15HP compressor 機當於15HP空氣壓縮機)
Air reserve tank	儲氣桶	400Liters
Die coat adjustment (separate control)	離型劑控制方式	Moving side and fixed side 活動模與固定模分別調整
Traveling stroke mm	上下行程	1320
Air source	空壓源	pneumatic 4-6kg/cm ² 1"port
Suitable machine	適用機器	DC500-DC1650
Driving power source	驅動源	1.5 KW

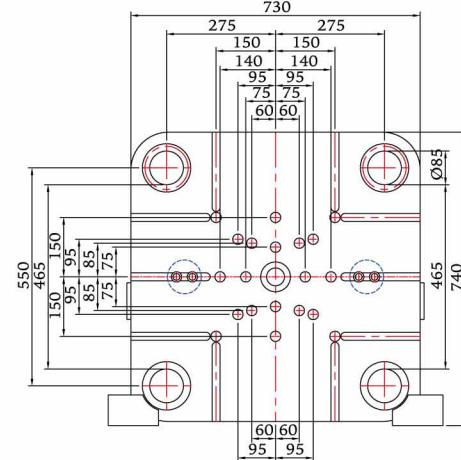
**柱塞油潤滑裝置****顆粒機****Plunger Lubrication Device**

Dimensions of Platens

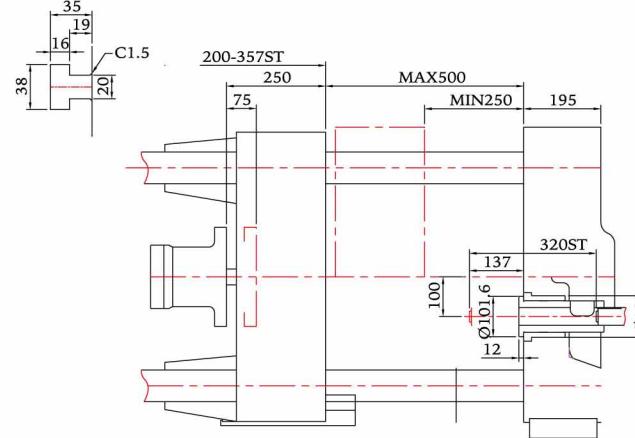
<http://www.yotamachine.com>



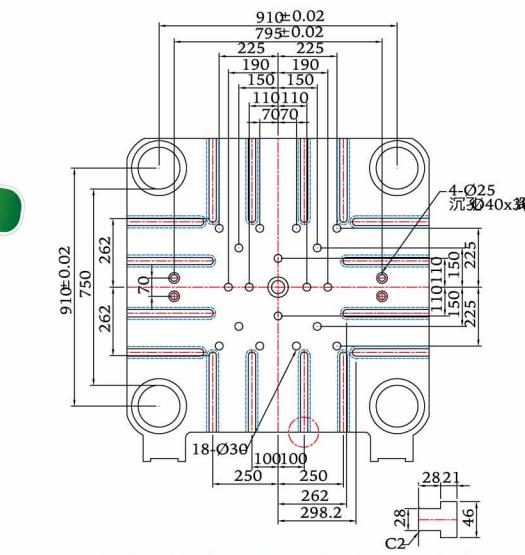
機板規格尺寸圖



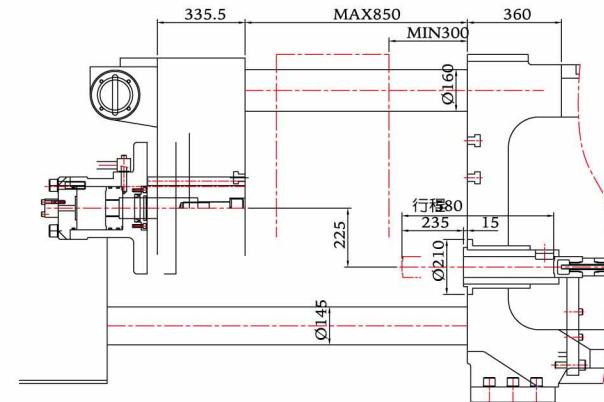
DC-150



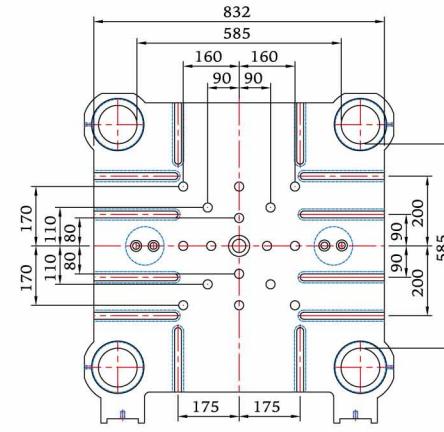
DC-500



DC-500V3C模面圖



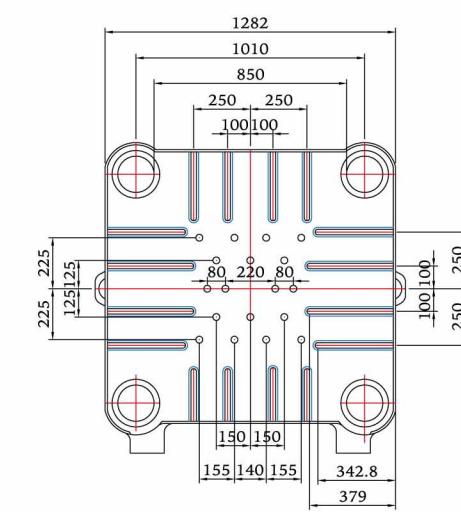
DC-250



This technical drawing illustrates a mechanical assembly with various dimensions and part numbers:

- Overall width: MAX600
- Left side width: 260
- Right side width: 245
- Top left height: 90ST
- Bottom left height: 145
- Top right height: 415ST
- Bottom right height: 101,6
- Bottom right hole diameter: Ø101,6
- Bottom right thickness: 12
- Width between vertical features: MIN250

DC-650

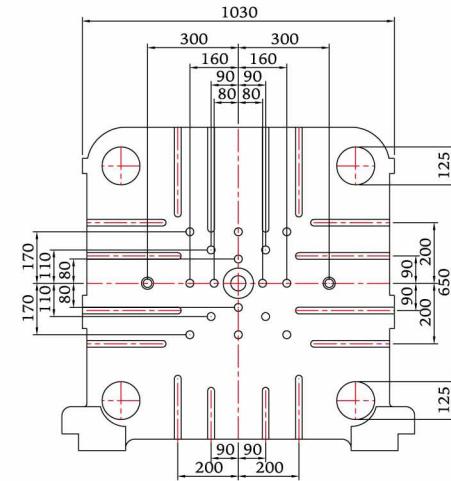


The technical drawing illustrates a mechanical component with the following dimensions:

- Total width: MAX900
- Left side height: 125ST
- Right side height: MIN350
- Bottom horizontal distance from left edge to center of hole: 300
- Bottom hole diameter: Ø150
- Bottom hole depth: 250
- Right side height: 630ST

Red dashed lines indicate feature outlines or hidden details.

DC-420

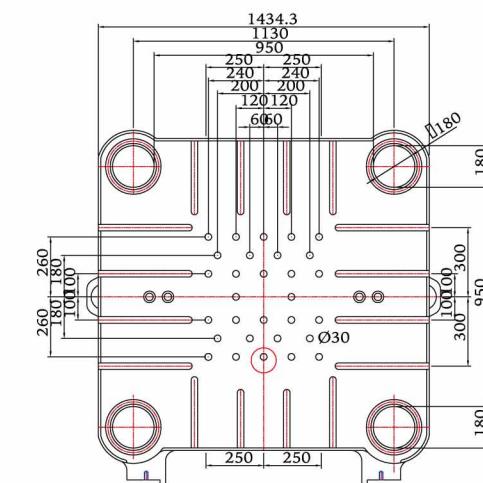


The technical drawing illustrates a mechanical assembly with various dimensions and part numbers:

- Width dimension: 300
- Part number: MAX700
- Width dimension: MIN300
- Width dimension: 340
- Part number: 120ST
- Part number: 500ST
- Width dimension: 150
- Height dimension: 185
- Height dimension: 12
- Part number: Q101

The drawing also features several red dashed lines indicating hidden features or reference points.

DC-800



This technical drawing shows a cross-sectional view of a mechanical component. The overall width is 1434.3 mm, divided into three sections of 300 mm each. The height from the bottom to the top of the central section is 1130 mm. The left section has a height of 945 mm, and the right section has a height of 1738.6 mm. A central vertical slot is labeled 370 mm deep. The bottom section features a central circular hole with a diameter of 415 mm and a depth of 360 mm. The left section contains a slot with a width of 16 mm and a height of 85 mm. Various other dimensions like 300, 300, 100, 100, 324, 324, 275, and 200 are also present.

Spec.

規格表



Model	機型	UNIT	DC-150	DC-250	DC-420	DC-500	DC-650	DC-800
CLAMPING MECHANISM 鎖模機構	Control unit	電氣系統		PLC+MMI	PLC+MMI	PLC+MMI	PLC+MMI	PLC+MMI
	Shot unit	射出方式		3 phases	3 phases	3 phases	3 phases	3 phases
	Multi stage / constant, Inj. sys	多段射出		三段射出	三段射出	三段射出	四段射出	四段射出
	Clamping force	鎖模	Ton	150	250	420	500	650
	Die platen	機壁尺寸	mm	730 x 730	890 x 890	1000 x 1000	1245 x 1245	1280 x 1280
	Tie-bar spacing	大柱內實寸	mm	465 x 465	585 x 585	650 x 650	750 x 750	850 x 850
INJECTION MECHANISM 射出	Die stroke	模面開度	mm	357	435	470	580	660
	Die height	模厚	mm	250-500	250-600	300-700	300-850	350-900
	Clamping indicator	鎖模力負荷計		訂制(optional)	訂制(optional)	訂制(optional)	訂制(optional)	訂制(optional)
	Injection force	射出力	Ton	18.2	27	35	50	54.5
	Intensifier rate	增壓比		2.1	2.55	2.3	2.55	2.55
	Injection stroke	油壓缸行程	mm	355	420	500	630	680
EJECTING MECHANISM 押出	Plunger tip penetration	沖頭突出量	mm	150	160	185	250	300
	Shot position	射出位置		-100	-145	-150	-250	-250
	Injection pressure	壓缸射出壓力	kg/cm ²	110-130	110-140	110-140	110-140	110-140
	Max.Inj. Velocity (up)	最大射出速度(以上)	m/s	7	7	7	7	7
	Available plunger dia.	標準柱塞頭直徑	mm	45.50.60	50.60.70	60.70.80	70.80.90	70.80.90
	Ejecting force	押出力	Ton	7.9	12.3	20	31	36
CORE SYSTEM 中子	Ejecting stroke	押出行程	mm	75	90	90	125	125
	Core NO.1 outlet	中子NO.1取出口	pt	1/2" x 2	3/4" x 2	3/4" x 2	3/4" x 2	3/4" x 2
	Core NO.2 outlet	中子NO.2取出口	pt	1/2" x 2(訂optional)	3/4" x 2(訂optional)	3/4" x 2(訂optional)	3/4" x 1	3/4" x 1
	Core NO.3 outlet	中子NO.3取出口	pt	無(NO)	無(NO)	無(NO)	3/4" x 1	3/4" x 1
	Plunger dia.	射料推頭直徑	mm	45 50 60	50 60 70	60 70 80	70 80 90	70 80 90
	Injection pressure	射出壓力	kg/cm ²	522/1056 422/856 293/594	687/1374 477/954 350/700	600/1200 441/882 337/674	707/1416 541/1084 427/857	707/1416 541/1084 427/857
CASTING CAPACITY 鑄造能力	Cast area	鑄造面積	cm ²	239/118 296/146 426/210	363/181 524/262 714/357	584/292 794/397 1036/518	919/459 1201/599 1522/775	919/459 1201/599 1522/775
	Injecting volume	射出容量	cm ³	362 447 644	540 777 1058	904 1230 1607	1788 2336 2956	1788 2336 2956
	Injecting weight	射出重量	kgs	0.92 1.16 1.64	1.4 2.02 2.75	2.35 3.2 4.18	4.64 6.07 7.68	4.64 6.07 7.68
	Water inlet	冷卻水入口管徑	RcPT	1	1	2	1.1/4	1.1/4
	Water outlet	冷卻水出口管徑	RcPT	2(x)	2(x)	2(x)	2.1/2	2.1/2
	Hydraulic cooler in	油冷卻入口管徑	RcPT	1	1	1	1	1
COOLER 冷卻水	Hydraulic cooler out	油冷卻出口管徑	RcPT	1	1	1	1	1
	Die water valve (fix)	模具冷卻調整閥(定模)		3/8 x 5	3/8 x 7	3/8 x 7	3/8 x 11	3/8 x 11
	Die water valve (mov)	模具冷卻調整閥(動模)		3/8 x 5	3/8 x 7	3/8 x 7	3/8 x 15	3/8 x 15
	Hydraulic cooler flow	必要冷卻水(油冷卻器)	L/min	40	40	40	80	80
	Die cooler flow	必要冷卻水(模具)	L/min	25-50	30-70	30-70	50-90	50-90
	Motor	馬達容量	kw	15	22.5	22.5	37.5	37.5
MOTOR 馬達	Power source	電源	v	AC220/380	AC220/380	AC220/380	AC220/380	AC220/380
	Size (L x W x H)	機械尺寸(長x寬x高)	mm	4600 x 1740 x 2300	5030 x 1800 x 2040	6500 x 2200 x 2500	8800 x 2300 x 2780	8800 x 2300 x 2780
	Weight	機械重量	Ton	6	10.5	16	25	25
MACHINE DIMENSIONS 機械	Hydraulic oil (optional)	液壓油(廠家自購)	L	600	800	800	1200	1200
								1800