



PWH 熱室壓鑄機系列
**HOT CHAMBER
DIE-CASTING MACHINE SERIES**



打造“中國壓鑄工業 4.0” 壓鑄機
We build die-casting machine for "China's die-casting industry 4.0"

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公司簡介

仁興集團最早成員—仁興機器廠有限公司，二十世紀五十年代成立於香港，致力研製注塑機，是香港該行業始創者之一。90年代初，創辦人梁焜先生把握國內改革開放的機會，於深圳市成立仁興機械（深圳）有限公司，並購置土地興建 25,000 平方米工業廠房，產能每月達 100 多台注塑機；95 年曾在香港將軍澳工業村獲批土地興建 15,000 平方米生產廠房，為要擴大生產規模及出口業務，開業至今企業都奉行創辦人的營商格言「誠信為先，品質為本」。六十年來所研製的各系列注塑機均以品質優越而深受用家愛戴。配合集團發展需要，旗下壓鑄機品牌“Pro-win 寶弘”，致力研發高增值及新技術的冷、熱室壓鑄機，以海外市場為主的品牌「Pro-win 寶弘」系列，得到用戶的信任和好評，並於 2004 年推出全東南亞首台半固態壓鑄機；同年推出全中國首台 850 噸鎖模力多功能、超高速鎂、鋁冷室壓鑄機，現正在歐洲品牌汽車零部件製造行業中被使用，獲得用戶一致肯定；同年又與香港生產力促進局及法國專家合作研發半固態鋁合金壓鑄機并獲得不少國際品牌客戶。集團提倡“以人為本”的經營理念，企業的發展及成就與優秀的管理層團隊及資深的員工是密不可分。集團內部成立了“專門技術培訓小組”，對員工進行定期的技術培訓，聘請專業人士和多家管理顧問公司，針對管理層團隊進行在職培訓。

Company Introduction

Yan Hing Machinery Co., Ltd., was established in Hong Kong in the 1950s and was a pioneer, committed to the development of injection molding machines and also in the industry. Our founder Mr. Leung Yin seized the opportunity during China's reform and opening up in the 1990s to establish Yan Hing Machinery (Shenzhen) Co., Ltd., and purchased land to build 25,000 square meters of industrial plants which had the monthly production capacity of more than 100 injection molding machines; In 1995, Yan Hing Machinery was granted land to build 15,000 square meters of production plant at the Tseung Kwan O Industrial Estate in Hong Kong. This expanded the scale of production and in the exportation business, and was also in line with Mr. Leung Yin's business motto "integrity first, quality-oriented." Over the six decades of development of injection molding machines, Yan Hing machines have been well received by their users to be of superior quality and in the forefront of the industry. Pro-win die-casting machine is a product line from Yan Hing Group. We launched Southeast Asia's first semi-solid die casting machine in 2004. In the same year, Pro-win also launched a machine with a full 850 tons of clamping force which was China's first multi-purpose, ultra-high speed magnesium, and aluminum cold chamber die casting machine. European brands are now utilizing this technology, especially in the automotive parts industry and users have expressed positive feedback. Also in 2004, a semi-solid aluminum die casting machine was developed in a tripartite collaboration with the Hong Kong productivity Council and the French experts. We promote a "people-oriented" business philosophy. We believe achievements of outstanding senior management team and employees are inseparable. This is why, continuous types of training are conducted via a "special technical training team" for regular technical training of staffs, in-service training for our team and management consultants are hired for their expertise and value add to us.



PWH 伺服節能熱室壓鑄機系列

HOT CHAMBER DIE-CASTING MACHINE SERIES WITH SERVO PUMP SYSTEM

控制系統

- 選用日本名廠電腦程式控制器，可控制及監察每個動作狀，簡單穩定，能迅速準確排除故障。
- 機器大電壓與小電壓啟動原件分開，增強安全性及可靠性。

Control System

Imported Programmable Logic Controller for optimal control and monitoring. User-friendly application software with feature for failure analysis.

液壓系統

- 所有油制都以低壓直流電 DC24V 啟動控制，使機械安全性及穩定性提高。
- 全機各油缸密封件，都採用西德高科技密封原件，耐磨、耐高溫、耐高壓及高速、壽命高。
- 全機採用先進的比例壓力和流量控制油路及採用歐洲和日本名廠液壓原件，使機械更快、順暢、穩定及安全可靠。

Hydraulic System

Machine design in accordance with CE recommendation for safety operation. All moving and potential hazardous areas are properly protected/isolated. Also, Imported hydraulic valves coupled with proportional control ensures system reliability (except Injection hydraulic).

鎖模部份

- 頭板及動板以最先進箱體設計及鑄造。從而強化機械構比傳統鋼板式設可以抵受更高衝撞力，使機械壽命為長久及減低其變形度。
- 特大導柱間距設計更具靈活性，從而可安裝較大尺寸的模具。
- 調模使用油壓控制齒輪傳動裝置，操作簡易準確，並能保持頭板及中板之平行度及精確度。

Clamping Unit

'BOX' design fixed and moving platens, least deformation against impact from injection. Lighter yet stronger design that last. It also comes with a precise die-height adjustment with gear drive system ensures parallelism of closing unit.



壓射系統

- 備有二速射料，配合高生產及高質數的產品要求，調較容易射料速度穩定。
- 儲能器選用活塞式，大大減低維修及機械運作成本，安全可靠，提供高速和穩定性的射料油壓動作。
- 加上橫梁式與射料系統配合，達到內壓力損耗及反應時間差減至最低。
- 射咀、鵝頸、壓射頭及料壺司套採用西德高溫熱作鋼材製造，耐磨及壽命長。

Injection System

Our injection system has two phase injection controls with high repeatability and precision. Also, the system uses maintenance free and reliable piston type accumulator provides hazard free operation. Minimal lost with direct bridge type connection ensures full power transfer.

| | 項目 | Item | 單位 Unit | PWH30 | PWH50 | PWH88 |
|------|--------------|----------------------------------|-----------------|----------------|----------------|----------------|
| 鎖模系統 | 鎖模力 | Die-locking Force | KN | 300 | 500 | 880 |
| | 開模行程 | Die-stroke | mm | 200 | 230 | 260 |
| | 最大 / 最小模厚 | Die thickness (min/max) | mm | 320/100 | 340/120 | 350/150 |
| | 哥林柱內距 | Clearance between Tie bars | mm | 285x285 | 315x315 | 357x357 |
| | 模板尺寸 | Platen Size | mm | 420x420 | 487x487 | 549x534 |
| | 頂出力 | Ejection Force | KN | 30 | 40 | 70 |
| | 頂出行程 | Ejection Stroke | mm | 52 | 70 | 60 |
| 壓射系統 | 壓射力 | Injection Force | KN | 40 | 60 | 60 |
| | 壓射行程 | Plunger Stroke | mm | 110 | 130 | 130 |
| | 壓射位置 | Shot Position | mm | 0,-40 | 0,-50 | 0,-60 |
| | 壓射頭直徑 | Plunger-tip Diameter | mm | 36,40*,45 | 45*,50 | 45,50*,55 |
| | 射料量 (鋅) | Shot Weight (Zn) | Kg | 0.55,0.68,0.87 | 1,1.25 | 1,1.25,1.5 |
| | 鑄造壓力 | Casting Pressure | Mpa | 43.3,34,24.9 | 37.7,30.5 | 36.7,29.7,24.6 |
| | 鑄造面積 | Casting Area | cm ² | 66,90,113 | 132,164 | 235,290,350 |
| | 最大鑄造面積 | Max. Casting Area 16Mpa | cm ² | 190 | 315 | 550 |
| 其他 | 離咀行程 | Traverse Stroke | mm | 160 | 190 | 190/260 |
| | 系統工作壓力 | Working Pressure | Mpa | 10.5 | 10.5 | 14 |
| | 電機功率 | Motor Rating | KW | 7.5 | 11 | 15 |
| | 鉗鍋容量 | Melting Pot Capacity | Kg | 260 | 360 | 360 |
| | 柴油爐最高耗油量 | Oil Consumption For Furnace Max. | Kg/hr | 3.5 | 4.8 | 4.8 |
| | 電爐耗電量 | Electric Consumption For Furnace | KW | 18.6 | 32 | 32 |
| | 射咀加熱功率 | Nozzle Heater Output | KW | 1.5 | 2 | 2 |
| | 油箱容積 | Oil Tank Capacity | Ltr | 200 | 250 | 300 |
| | 機器重量 | Weight of Machine | Tons | 3 | 4 | 4.8 |
| | 機器尺寸 (L/W/H) | Machine Dimensions (L/W/H) | mm | 3780x1600x1800 | 4120x1600x2080 | 4300x1650x2100 |

| | PWH100 | PWH130 | PWH160 | PWH180 | PWH200 | |
|------|----------------|----------------|----------------|----------------|----------------|------------------|
| 鎖模系統 | 1000 | 1300 | 1600 | 1800 | 2000 | Clamping System |
| | 280 | 280 | 350 | 350 | 400 | |
| | 450/160 | 450/160 | 550/200 | 550/200 | 550/250 | |
| | 410x410 | 410x410 | 510x510 | 510x510 | 520x520 | |
| | 625x625 | 625x625 | 770x770 | 770x770 | 790x790 | |
| | 60 | 60 | 105 | 105 | 105 | |
| | 70 | 70 | 87 | 87 | 100 | |
| | 70 | 85 | 110 | 110 | 125 | |
| | 130 | 130 | 150 | 150 | 175 | |
| | 0,-60 | 0,-60 | 0,-80 | 0,-80 | 0,-100 | |
| 壓射系統 | 55*,60 | 55*,60 | 65*,70 | 65*,70 | 70*,80 | Injection System |
| | 1.5,1.8 | 1.5,1.8 | 2.5,2.9 | 2.5,2.9 | 3.3,4.4 | |
| | 29.4,24.7 | 35.7,30 | 33.1,28.5 | 33.1,28.5 | 31,28.8 | |
| | 340,405 | 364,433 | 483,560 | 543,631 | 645,837 | |
| | 625 | 812 | 1000 | 1125 | 1250 | |
| | 260 | 260 | 260 | 260 | 260 | |
| | 12.3 | 14 | 14 | 14 | 14 | |
| | 15 | 15 | 18.5 | 18.5 (6級) | 18.5 | |
| | 360 | 360 | 500 | 500 | 720 | |
| | 4.8 | 4.8 | 4.8 | 4.8 | 6.3 | |
| 其他 | 32 | 32 | 45 | 45 | 45 | Others |
| | 2.4 | 2.4 | 2.5 | 2.5 | 4 | |
| | 250 | 250 | 400 | 400 | 400 | |
| | 5.3 | 5.3 | 8 | 8 | 8.5 | |
| | 4700x1700x2150 | 4700x1700x2150 | 5070x1960x2430 | 5070x1960x2430 | 5110x1960x2450 | |

規格如有更改，恕不另行通知 / Specifications are subject to change without notice

| | 項目 | Item | 單位 Unit | PWH230 | PWH280 | PWH320 |
|------|--------------|----------------------------------|-----------------|----------------|----------------|----------------|
| 鎖模系統 | 鎖模力 | Die-locking Force | KN | 2300 | 2800 | 3200 |
| | 開模行程 | Die-stroke | mm | 400 | 490 | 490 |
| | 最大 / 最小模厚 | Die thickness (min/max) | mm | 500/200 | 650/300 | 650/300 |
| | 哥林柱內距 | Clearance between Tie bars | mm | 520x520 | 580x580 | 580x580 |
| | 模板尺寸 | Platen Size | mm | 790x790 | 910x910 | 910x910 |
| | 頂出力 | Ejection Force | KN | 105 | 145 | 145 |
| | 頂出行程 | Ejection Stroke | mm | 100 | 100 | 100 |
| 壓射系統 | 壓射力 | Injection Force | KN | 150 | 160 | 172 |
| | 壓射行程 | Plunger Stroke | mm | 175 | 200 | 200 |
| | 壓射位置 | Shot Position | mm | 0,-100 | 0,-125 | 0,-125 |
| | 壓射頭直徑 | Plunger-tip Diameter | mm | 70*,80 | 80*,90 | 80*,90 |
| | 射料量 (鋅) | Shot Weight (Zn) | Kg | 3.3,4.4 | 5,6.4 | 5,6.4 |
| | 鑄造壓力 | Casting Pressure | Mpa | 37,28.5 | 31.8,25 | 34,27 |
| | 鑄造面積 | Casting Area | cm ² | 627,807 | 897,1140 | 940,1185 |
| | 最大鑄造面積 | Max. Casting Area 16Mpa | cm ² | 1438 | 1780 | 2000 |
| | 離咀行程 | Traverse Stroke | mm | 260 | 290 | 290 |
| | 系統工作壓力 | Working Pressure | Mpa | 14 | 14 | 14 |
| 其他 | 電機功率 | Motor Rating | KW | 18.5 (6 級) | 22 | 22 (6 級) |
| | 鉗鍋容量 | Melting Pot Capacity | Kg | 720 | 720 | 720 |
| | 柴油爐最高耗油量 | Oil Consumption For Furnace Max. | Kg/hr | 6.3 | 6.3 | 6.3 |
| | 電爐耗電量 | Electric Consumption For Furnace | KW | 45 | 50 | 50 |
| | 射咀加熱功率 | Nozzle Heater Output | KW | 4 | 5 | 5 |
| | 油箱容積 | Oil Tank Capacity | Ltr | 400 | 500 | 500 |
| | 機器重量 | Weight of Machine | Tons | 8.5 | 11 | 11 |
| | 機器尺寸 (L/W/H) | Machine Dimensions (L/W/H) | mm | 5110x1960x2450 | 6200x2020x2450 | 6200x2020x2450 |

| | PWH400 | PWH650 |
|--|----------------|----------------------|
| | 4000 | 6500 |
| | 550 | 555 |
| | 750/300 | 850/350 |
| | 650x650 | 741x741 |
| | 1030x1030 | 1180x1180 |
| | 185 | 185 |
| | 120 | 130 |
| | 190 | 215 |
| | 230 | 250 |
| | 0,-125 | 0,-175 |
| | 80,90* | 80,85,90*,100 |
| | 7.2 | 6.2,7.0,7.8*,9.7 |
| | 31 | 42,38,34*,27.5 |
| | 1340 | 1470,1660,1860*,2300 |
| | 2500 | 3930 |
| | 340 | 380 |
| | 14 | 14 |
| | 22 | 30 |
| | 820 | 820 |
| | 11.2 | 11.2 |
| | 70 | 70 |
| | 5 | 5 |
| | 700 | 900 |
| | 16 | 26 |
| | 6500x2350x2845 | 7000x2350x2900 |



Clamping System

Injection System

Others

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