

"荃笙"注塑机

TSUENSAINT SERIES INJECTION MOLDING MACHINE



"荃笙"高精冲床

TSUENSAINT SERIES HIGH PRECISION PRESS MACHINE



NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD.

宁波荃笙科技发展有限公司

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TSUENSAINT

die-casting machine

荃笙 | 精密压铸机床



300–16800KN

宁波荃笙科技发展有限公司
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TSUENSAINT

宁波荃笙科技发展有限公司位于宁波市北仑区，长期以来从事压铸机的研发&制造。厂区外设有机械加工分厂和总部精加工车间、总装车间。建立有企业工程技术中心、压铸机事业部研发实验室、实行PDM程序化设计、ERP管理系统、零件加工CAM制造加工等信息化工程，公司通过ISO质量管理体系认证和产品欧盟CE认证。“荃笙”压铸机凭借国外先进专业技术及具备高端检测器具及理化测验等手段，实现品质保证。

“荃笙”多款系列精密压铸机，以精为誉、以诚为本、铭求品质、竭诚服务，与客户共创卓越。

Company Profile

NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD. located in Beilun Ningbo, deals with the research and manufacture of high-end die casting machine for many years. We have established the machining factory, headquarter finishing workshop as well as assembly workshop. Besides, we have also built enterprise engineering technology center, die casting machine division R&D laboratory. We have carried out the PDM program design, ERP administration system and information engineering such as CAM manufacturing of parts processing etc. Our company is qualified with ISO quality management system certification as well as European CE certification. We have combined with foreign advanced professional technology, high end testing equipment as well as physical and chemical testing method so to ensure good quality of “TSUENSAINT” die casting machine.

TSUENSAINT series high precision die casting machine always adheres to the principle of precision-oriented, honesty-oriented, quality-oriented as well as dedicated&sincere service and pursue excellence and create a brilliant future with our customers.

海纳百川，旭日东升

CREATE EXCELLENCE JOINTLY

制造集錦
MANUFACTURING HIGHLIGHTS



1 — 2 总装二车间一角

A corner of assembly workshop No.2

3 — 10 CAM制造加工

CAM manufacture process

工欲善其事——必先利其器

Good tools are prerequisite to the successful execution of a good job

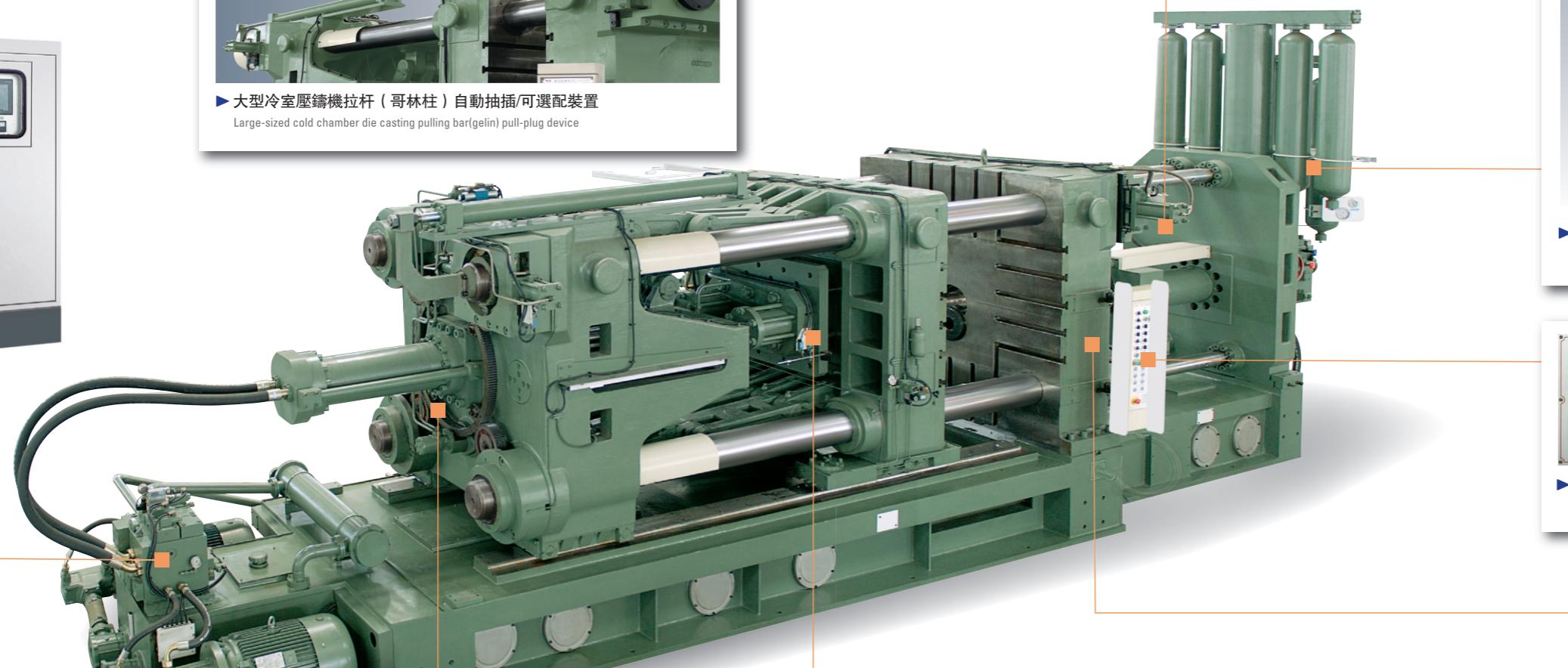
TSUENSAINT PRECISION DIE CASTING MACHINE

— DISTINGUISHED, LEADING, TOP QUALITY, HIGH EFFICIENCY

笙笙精密壓鑄機 —— 獨特、領先、優質、高效



► 大型冷室壓鑄機拉杆（哥林柱）自動抽插/可選配裝置
Large-sized cold chamber die casting pulling bar(gelin) pull-plug device



► 高配置的高響應液壓邏輯閥系統
High configuration ,high response hydraulic system



► 敏捷自動調模機構
Sharp automatic mold adjust mechanism



► 曲肘式斜排五支點鎖模機構
Toggle five-point support mold clamping mechanism



► 高端壓鑄成型領先技術、超高速壓射裝置
Up-to-date die casting molding technology,high-speed press-injection device



► 進口高檔工業控制器——屏顯檢測控制系統
Imported high-class industrial controller—screen display test-control system



► 高剛性球墨合金模板
High rigidity nodular alloy mold platen

SELF INNOVATION & ENERGY - SAVING DEVICE

自主創新・節能設備

笙笙倡導壓鑄機——變頻&伺服驅動節能系統技術

TSUENSAINT special recommendation die casting machine-frequency-conversion & servo drive energy-saving system technology

珍惜能源倡導節能已是當今全球化共同的追尋，笙笙根據壓鑄機生產工藝特性而研製推出高效/強力節能系統的機型。並將高節能技術&機器性能科學地融合——讓客戶實現無與倫比的使用價值。

Cherish energy resource and advocate energy-saving is the common seeking target of globalization today. TSUENSAINT company have developed the die casting machine with high efficiency/powerful energy-saving system based on its characteristic of manufacturing technique. With scientific fusion of high energy-saving technology and machine features, so to achieve incomparable use value of our machine.

CA&MA系列冷室壓鑄機——變頻驅動高效節能型特性：

CA&MA series cold chamber die casting machine-frequency conversion drive high efficiency energy-saving characteristic

高效節能
ENERGY-EFFICIENT
>35%

▶自主專用模塊技術的驅動器+控制器專用程序+專用電機+高性能油泵優化合成的電液控制系統。

▶系統壓力/流量控制技術——能根據機器動作負載感應比例補償的自動匹配，且無高壓溢流的能量損失，並能有效抑制油溫上升，有效確保壓鑄成型的品質穩定并增加機器使用壽命。

▶系統具有根據成型工藝需求設定無級轉速或選擇馬達自行運轉狀態至自行軟啓動循環功能，且不影響制品的生產的周期。CA · MA系列高效節能型的壓鑄成型耗電要比常規機器通常節能>35%。

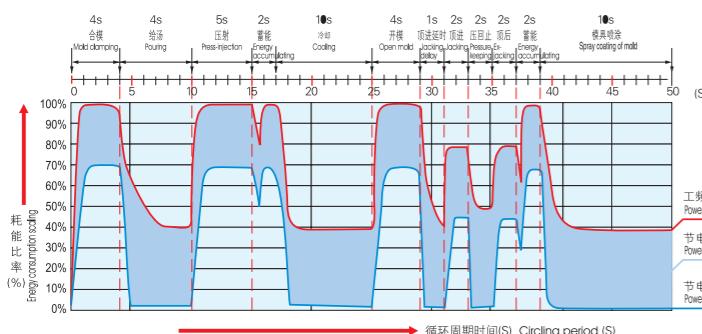
▶ Special drive of autonomous module technology+specific program on controller+special computer+high performance oil pump optimized electric hydraulic control system

▶ System pressure / flow control technology, which can do automatic matching based on machine action load sensing proportional compensation, and no energy loss of high pressure overflow, which can effectively suppress oil temperature rise, ensure the stable quality of die-casting process as well as increase machine lifetime accordingly;

▶ The system has the function that can set stepless speed according to the molding process demand or select the motor self-running state to the self soft restart, and it does not affect the production cycle time of the final product. CA · MA series high efficiency energy-saving type die casting machine can reduce the power consumption more than 35% compared to the standard machine.

CA&MA系列冷室壓鑄機節能效果曲線圖 / 系統元件

The curve analysis chart of power saving result of CA · MA Series cold chamber die casting machine /elements and parts of system



CJ&MJ系列壓鑄機伺服驅動超強節能型特性：

CJ&MJ series die casting machine servo drive super energy-saving characteristic

超强節能
SUPER ENERGY EFFICIENT
>60%

▶由本公司中外合資專業技術人員創新研發的專用高端模塊技術伺服驅動器+伺服馬達+控制器專用程序軟件+特種高性能泵浦優化組成的高響應電液伺服實現控制系統。

▶系統實現壓力/流量閉環控制技術，實現動作的重複定位高精度，伺服驅動輸出匹配功率可按控制器設定的工藝參數指令而高速響應，并能有效抑制油溫，更能確保壓鑄成型的品質和增加機器使用壽命。

▶系統能自然地根據成型工藝要求設定階段性超低速且保持壓力的優點，且不影響制品生產周期的產能。CJ · MJ系列超強節能型壓鑄機電耗要比常規機器通常節能>60%。

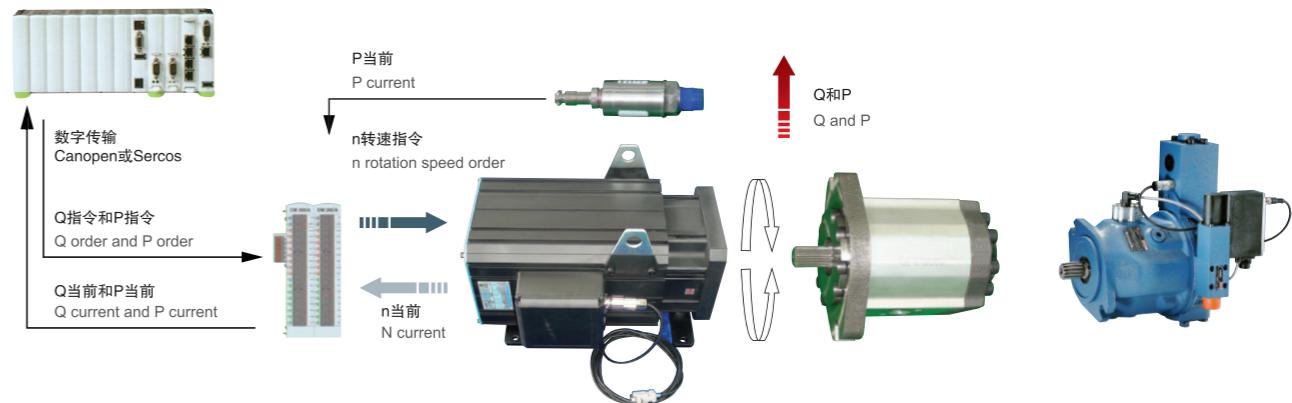
▶ Co-operatively developed by the experts, the driver of the up-to-date mold board technology+servo motor+special program software for controller use+ servo control system of high response electro-hydraulic comprised of specially made high performance oil pump.

▶ The system carries out pressure-flow closed-loop control technology, guarantee the high accuracy for repeating positioning of the motions, the servo driver output matching power will be responded quickly according to the technical parameter order set by controller. And can control oil temperature effectively, keep top quality of castings and increase machine using period.

▶ The system can set the staged ultra-low speed and maintain the pressure according to the molding process requirements, and it does not effect the cycle time of the product as well as production capacity. CJ · MJ series powerful energy-saving die casting machine can reduce power consumption more than 60% compared to the standard machine.

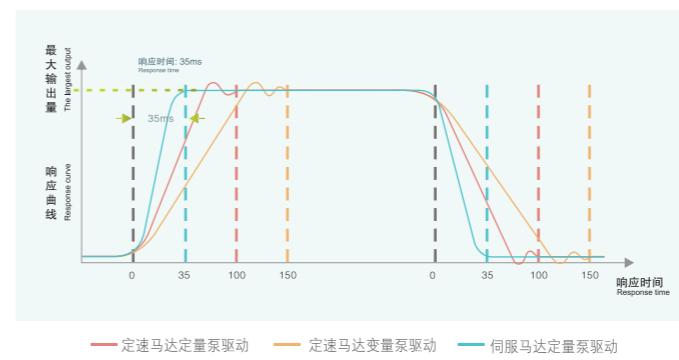
如：伺服馬達驅動雙容積變量泵——是最具性价比的機能系統

For example: servo motor driven biproduct variable displacement pump—the most cost-effective function system



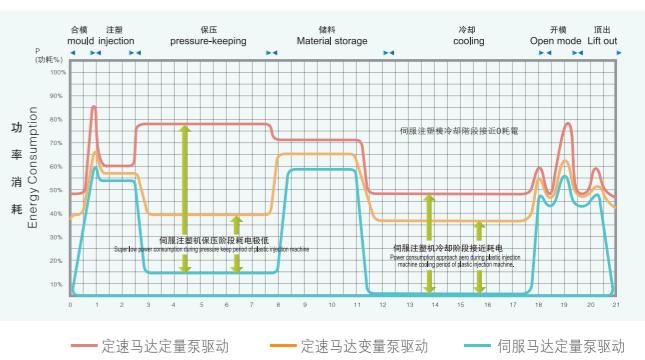
系統高速響應比照

The comparision of systemic high speed response



系統功率消耗比照

The comparision of systemic power consumption



THE TECHNICAL STUDY OF DIE CASTING FORMING

壓鑄成型工藝探索

► 一般來說，鋁合金充型時間0.03~0.15秒為宜。充型時間受澆口面積、排氣槽大小、合金種類以及澆注溫度、衝頭速度、鑄造壓強的影響，需對這些進行控制。

► 儲能器內的壓力對於壓射壓力有重大的影響，所以，當氣體量一減少，充型的最後壓力也會大大降低，影響鑄件質量。如果壓射衝頭壓射一次儲能器內部壓強降低10%以上，則需要補充氣體。

► 當壓射完成在型內冷凝的時間過長，由於凝固收縮力而形成的抱型力就會加大，鑄件難以頂出。生產薄壁件時，很容易頂壞產品。時間太短，又容易凝固不好，造成鑄件變形。因此，壓射後要盡快達到零件溫度，就需要很好地冷卻壓型，為此還希望澆注量和澆注溫度的衡定。

► 應根據不同的產品，控制澆注溫度並實現標準化，壓型設計時，為使它溫度分布均勻，設有冷卻水路和集渣槽，但總會有些溫度差。壓型溫度的管理，通常是控制壓型表面的幾個點，其溫度不是整個壓型的溫度，統一用合型之前的溫度來控制也行，Al合金時，是150~300°C，Zn合金時，為150~220°C。另外，動型與定型的溫度差要盡量小。

► 離型劑要根據鑄件要求進行選擇，要噴塗適當濃度。使用時要噴施最少的量而且要噴塗均勻。重點噴塗冷卻進料口周圍及產品壁厚區域。活動芯子、頂杆、回程銷等的滑動部分和壓射室、衝頭上潤滑劑須塗適量。太多的話，會混入金屬液，進入型腔，導致鑄造缺陷。

CK&MK系列冷室壓鑄機
Cold chamber die casting machine



Note: ① the picture is for reference only, may be different from the actual

提示: ① 資料中產品圖僅供參考，可能與實際出售物偶有不同

HK系列熱室壓鑄機
Hot chamber die casting machine



② please contact us when you want to buy the machine with European CE standard

② 當您欲購具備歐盟CE標準的機器、請與我們聯繫

► In general for aluminum alloy, the reasonable mold filling time are 0.03---0.15 second. The mold filling time are affected by the area of pouring head, gas exhausting slot, kind of alloy, speed of punch head, pressure intensity of casting, it need to control these elements.

► The internal pressure of accumulator has the big effectiveness to press-injection pressure, therefore the lasting pressure will be reduce in large scale after mold filling which affect the casting quality. It need to recharge gas if the internal pressure intensity has reduced more than 10% after the punch press-injection once time.

► If the condensation in mold with too long time after press-injection, due to the condensation the sharp adhering force will be increased so it is difficult for casting lift out. It is easy to turn out defective products during lift out when it produce thin-wall product. So to the target of as quickly as possible to arrive to the casting taking-out temperature, must do well for cooling profiling, and also must keep the stable pouring quantity and pouring temperature.

► It must carry out standardization on pouring temperature control according various products, for the purpose of temperature even distributing when design the profiling, though have cooling water route and residue slot, but still have some different temperature. For the profiling temperature management, in general it controls some points on surface, which temperature is not the whole profiling temperature, it is available use the temperature before mold clamping, for AL alloy is 150-300 °C, for Zn alloy is 150-220°C , in addition, the temperature difference between moving profiling and dead profiling must be as small as possible.

► The mold release selection must be according to the requirement of castings, must spray with reasonable concentration . the spraying key points cooling filling inlet and thick-wall area of products. It must spray evenly with minimum quantity. The movable core, ejector, stroke pin etc. moving parts and press-injection chamber, punch head, for lubrication quantity should be suitable. If too much, they will be mixed into metal liquid, and into the cavity to cause defective casting.

PRODUCT SPEC / TYPE IDENTIFIER

笙笙精密壓鑄機床系列產品規格 / 型號——標識認知

例如:

For example:

CJ / 1380 D A

系列產品標識
Series product label

分隔符號
Separate code

產品規格 (鎖模力Ton) 標識
Specifications (clamping force)

產品型(配置)標識
Model identification

產品設計版本標識
Logo design version

系列產品標識=機款標識+機能標識的組成

Product series label =style label +model label

■ 機款標識 Machine Model Mark

- 機種款式標識C為：冷室壓鑄機床
- 機種款式標識M為：冷室鎂合金壓鑄機床
- 機種款式標識H為：熱室壓鑄機床
- Mark C: Cold chamber die casting machine
- Mark M: Cold chamber die casting machine for magnesium alloy
- Mark H: Hot chamber die casting machine

■ 機能標識 Machine Function Mark

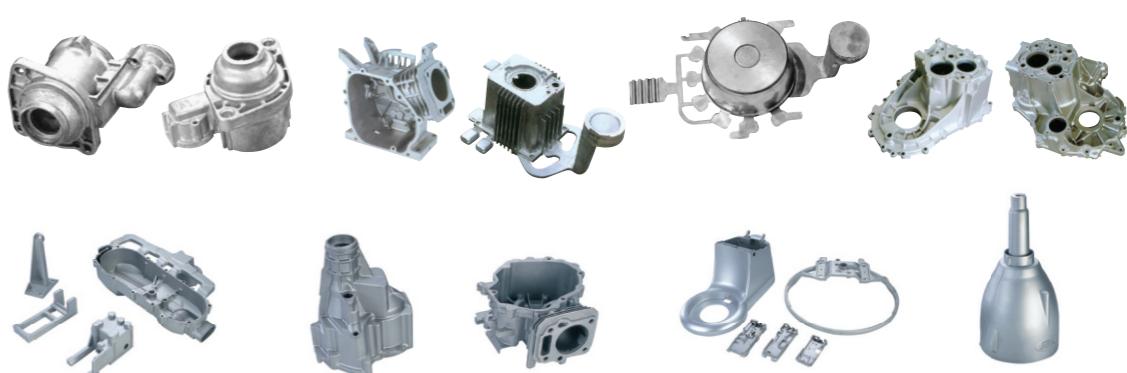
- 機能型式標識K為：常規標準型系統
- 機能型式標識A為：高效節能型系統
- 機能型式標識J為：強力節能型系統
- Mark K: Standard system
- Mark A: High efficiency energy-saving system
- Mark J: Powerful energy-saving system

■ 產品型號標準配置資料垂詢

Please feel free to contact us if you would like to learn details about our machine configurations for each model / type

“笙笙”精密壓鑄機床廣泛應用於：航空航天、船泊汽車、電器電子、儀器儀表、醫療器械、五金用品等行業的鉛、鋅、銅、鋁、鎂等有色金屬產品壓鑄。

TSUENSAINT precision die casting machine are widely used for lead, zinc, copper, aluminum, magnesium etc non-ferrous die casting in the industries of aviation & aerospace, ship & vehicles, electric and electronic appliances, instruments and meters, medical facilities, hardware's etc.



COLD CHAMBER & MG SERIES DIE CASTING MACHINE PARAMETERS

C&M 冷室压铸机 & 冷室镁合金压铸机/规格参数

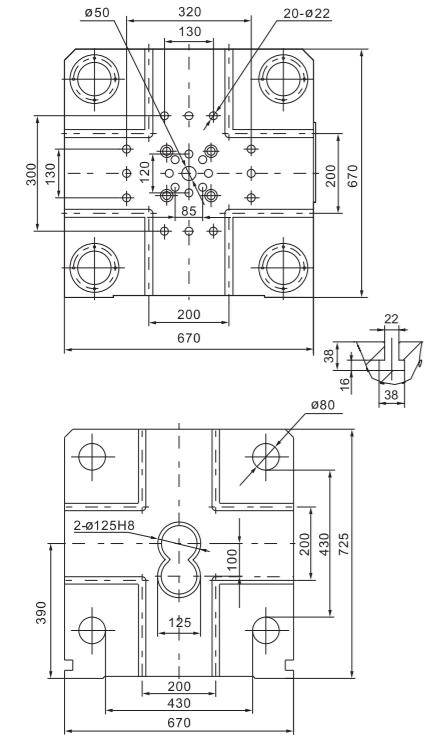
規格	Specification	Tons	C/140D	C/200D	C/300D	C/480D	C/580D	C/680D	C/880D	C/1080D	C/1380D	C/1680D	C/2080D
鎖模力	Clamping Force	kN	1400	2000	3000	4800	5800	6800	8800	10800	13800	16800	20800
开模行程	Open Stroke	mm	350	385	480	560	610	680	760	880	1000	1200	1400
模具厚度 (最小-最大)	Die-Thickness (Min-Max)	mm	200-500	200-580	250-680	300-700	320- 850	350-900	400-950	450-1150	450-1200	500-1400	650-1600
模板尺寸 (水平x垂直)	Platen Size(HxV)	mm	670x670	720x720	900x900	1010x1010	1150x 1150	1290-1290	1400x1400	1620x1660	1800x1800	2020x2020	2150x2150
拉杆内間距	Space Between Tie-Bars	mm	430x430	480x480	580x580	660x660	760x 760	860x860	910x910	1030x1030	1100x1100	1190x1190	1350x1350
拉杆直徑	Diameter of Tie Bars ϕ	mm	80	85	110	130	140	160	180	200	230	250	280
壓射力	Injection Force	kN	89-208	99-250	142-340	182-410	222- 559	240-622	253-680	865	440-1100	1290	1500
壓射行程	Injection Stroke	mm	335	370	440	550	580	640	760	800	945	980	960
壓射衝頭直徑	Injection Plunger Diameter	mm	40,50	50,60	50,60,70	60,70,80	70,80, 90	70,80,90	80,90,100	90-120	100-140	110-150	130-170
最大一次金屬 澆注量(鋁)	Max. Casting Volume (AL)	kg	0.8,1.2	1.3,1.9	1.6,2.2,3.1	2.7,3.6,4.5	4.1,5.4, 6.8	4.3,5.7,7.2	6.7,8.4,10.4	9.9,12,14.8,17.5	13-25	17-32	25-42
最大一次金屬 澆注量(鎂)	Max. Casting Volume (MG)	kg	0.5,0.8	0.8,1.1	1,1.5,2	1.6,2.2,2.9	2.6,3.5, 4.4	4.3,5.7,7.2	4.3,5.4,6.7	7.9-12.9	8.9-17.4	12.2-23	15.8-28
鑄造壓力 (小-大)	Casting Pressure (Min-Max)	Mpa	71-165.5 45.3-106	50.4-127.3 35-88.4	72.3-173 50-120 36.9-88.3	76-157 55.8-115.4 42.8-88.3	57.6- 145 44- 111 34.9- 87.9	73.5-158.5 56-121 44.5-95.9	50.3-123.7 39.8-97.7 32.2-79	76-136	71.4-140	73-135.7	66-113
鑄件投影面積	Casting Area	cm ²	83-305	141-700	162-759	255-934	344- 1433	397-1600	646-2484	735-2500	893-4371	1223-5866	1770-6000
壓射位置	Injection Position	mm	0,-100	0,-140	0,-160	0,-175	0,-230	0,-250	-140,-280	-150,-300	-160,-320	-175,-350	-175,-350
壓射頭推出距離	Plunger Penetration	mm	115	150	150	200	230	280	290	300	350	400	400
壓室法蘭直徑	Sleeve Flange Diameter ϕ	mm	110	110	110	130	130	165	180	240	240	260	260
壓室法蘭凸出 定型板高度	Sleeve Flange Protrusion	mm	10	10	12	15	15	15	20	20	25	25	30
頂出力	Ejector Force	kN	109	109	180	180	250	315	320	500	580	620	650
頂出行程	Ejector Stroke	mm	80	85	105	125	150	150	180	200	205	250	300
空循環周期	Dry Cycle Time	s	6	6	8	8	10	12	12	15	16	20	22
系統工作壓力	System Working Pressure	Mpa	16	16	16	16	16	16	16	16	16	16	16
電機功率	Motor Power	kW	11	15	18.5	22	30	37	37	45	2x37	2x45	2x55
油箱容量	Tank Capacity	L	450	595	850	900	1000	1000	1100	1900	2500	2600	3500
機器重量	Machine Weight	kg	6000	7800	12500	16500	24000	31000	39000	70000	98000	108000	135000
機器外形尺寸 (長x寬x高)	Overall Dimensions of Machine(L x W x H)	mm	5200x1265x2230	5510x1360x2530	6630x1640x2840	7200x1700x2950	8010x1985 x2940	8400x2100x3000	9960x2450x3330	10600x3500x3800	12000x3400x4000	12200x3000x4200	13700x4700x4900

說明：資料中規格參數如有變更，恕不另行通知。 / All Above Technical Parameters Are Subject To Change Without Prior Notice.

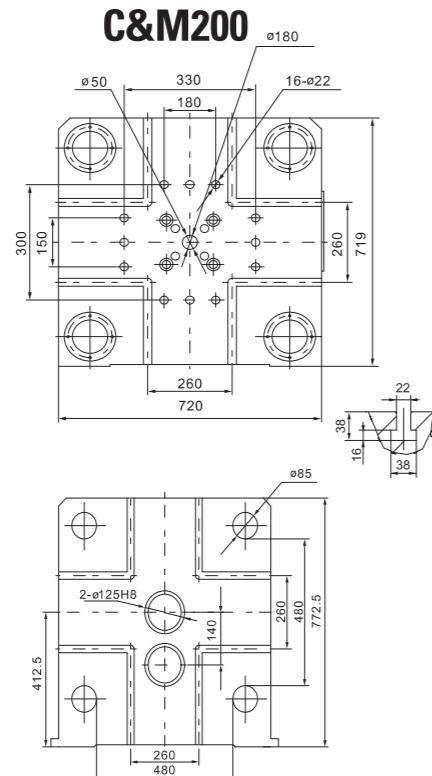
C&M (COLD CHAMBER / MG SERIES) DIE CASTING MACHINE – PLATEN DRAWING

C&M(冷室/镁合金)精密压铸机——模板示意图

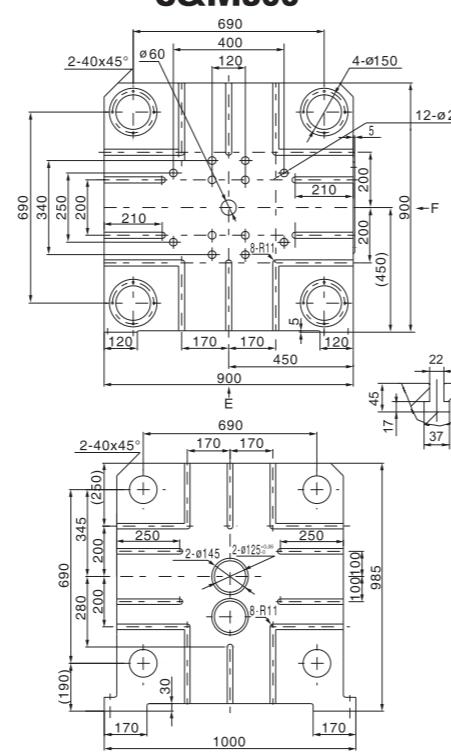
C&M140



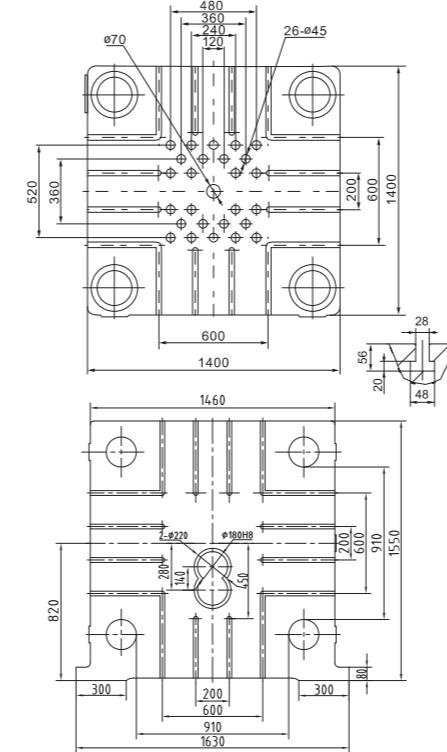
C&M200



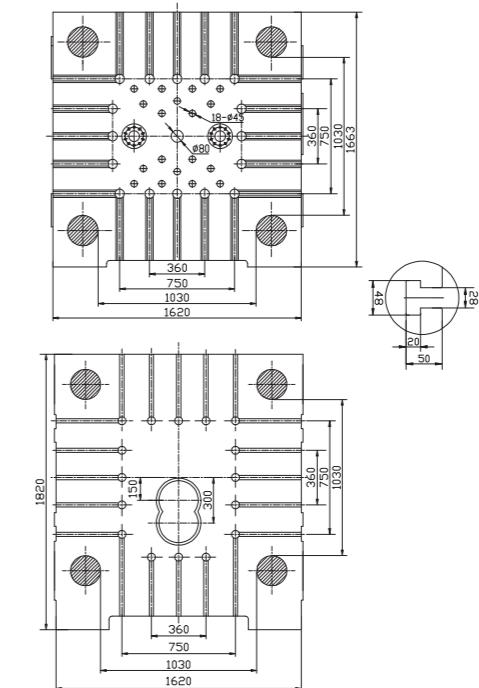
C&M300



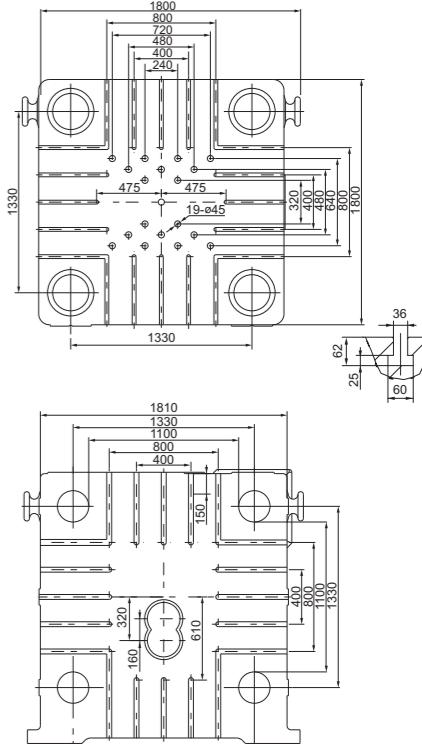
C&M880



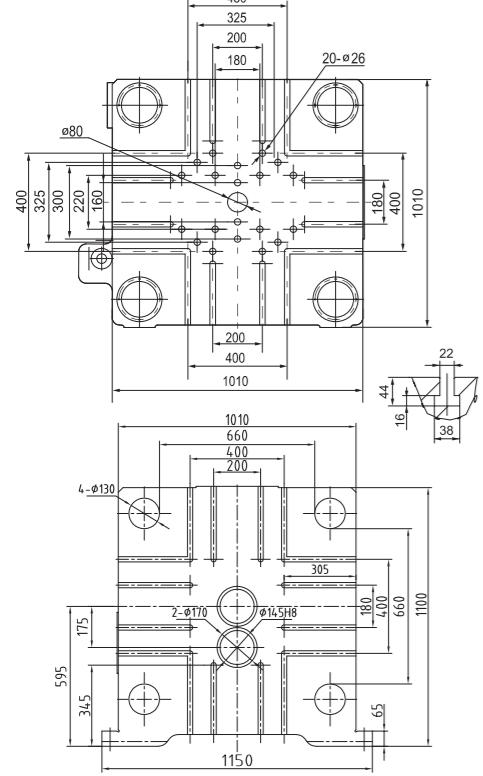
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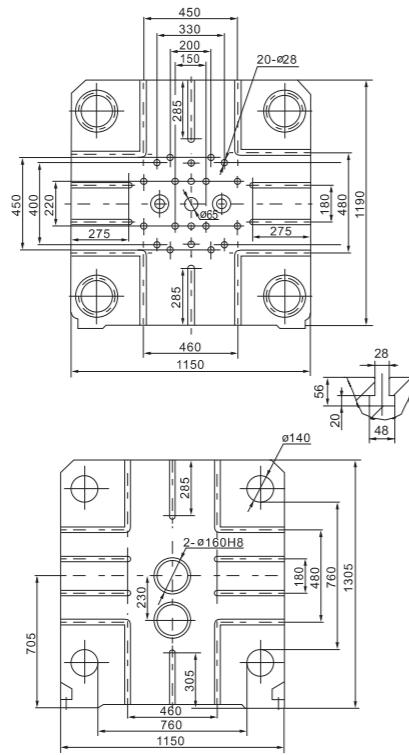
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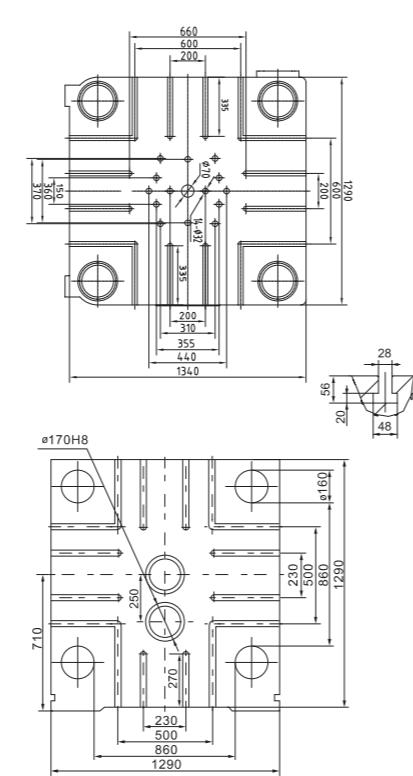
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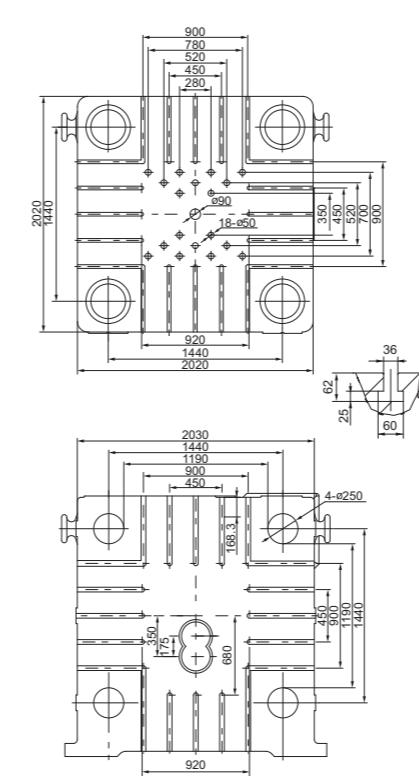
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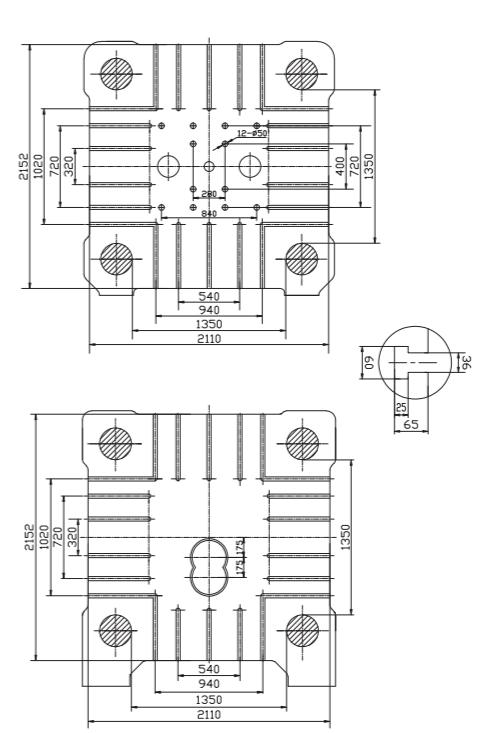
C&M680



C&M1680



C&M2080



C/M SERIES STANDARD UNIT C/M系列标准装置

鎖模系統		MOLD CLOSING SYSTEM
高刚性耐磨性球墨合金模板		High rigidity and wear resistance nodular alloy mold platen
高刚性曲肘式斜排五支点锁模机构		High rigidity five-point support toggle
高拉力合金钢导柱外层镀铬		High tensile alloy steel hard chromed tie bar
欧规多点石墨含油衬套		Euro design multi-point oil-bearing graphite bush
高耐磨铝合金滑脚带灰尘清扫装置		High wear resistant aluminum alloy platen support slider with dust clean device
高刚性耐磨性整体式导轨		High rigidity and wear resistant monolithic guide plate
欧规设计顶出模板机构与T型装置		Euro design eject platen and T slots device
德国进口材料支撑调模板, 调模防绞死装置		Germany import material support mold adjustment platen to prevent adjustment hanged
大空间拉杆间距与模板尺寸		Big space between tie bars and big size mold platen
手动机械式抽拉杆装置		Mechanical tie bar extraction by manual (1pc)
开合模行程电子尺控制		Die close and die open with lineal transducer control
合模低压模板功能		Die close with low pressure protection function
液压马达驱动调模装置		Die height adjustment with hydraulic motor
手动调模慢速与快速控制		Mold adjustment by manual with low speed and high speed
液压顶出多次设定功能		Multi-step eject setting function
注射系統		INJECTION SYSTEM
四级压射控制功能		Four-stages injection control function
无浮游活塞设计保压功能		Injection system adopts no floating piston design
最高射出速度后冲动作保压时间<= 15ms		Max dry injection speed >= 8m/s, Pressure building time <= 15ms
两种增压触发方式,压力触发与位置触发		There are two intensification activation ways—pressure and position
压射系统采用欧式拉杆结构,中心及偏心多位置压射选择		Injection system adopted Euro standard design with multi injection position select function
大流量逻辑快速保压传感器		Large flow logic fast speed function of injection and intens
机械式精密手轮调节控制		Mechanical hand wheel control
接近开关控制压射行程		Injection stroke control by proximity switch
液壓系統		HYDRAULIC SYSTEM
美国威格士高低压双联泵系统		High and low pressure dual-pump system(Vickers)
高响应压力/流量比例控制系统		High response proportional control system of pressure and flow
可靠耐用的派斯乐、威格士液压元件,		Reliable and durable hydraulic components of famous brand(Rextooth,Vickers),
意大利马努利高压软管		Italy Manuli high pressure hose
多级压力、速度控制功能		Multi-stage pressure and speed control function
系统压力、压射压力、蓄能器氮气压力、		Pressure indication function of system pressure、injection pressure、
蓄能器工作压力指示功能		accumulator Nitrogen pressure and accumulator intens pressure
油泵自封式吸油过滤装置		Pump self-style oil-suction filter
油箱液位显示与报警功能		Oil level display and alarm function
油温表显示功能		Oil temperature indicator
控制系統		CONTROL SYSTEM
德国西门子PLC与触摸屏控制系统		Siemens PLC(S7-200) and touch screen (7")control system
可靠耐用的国外名牌电器元件		Reliable and durable electric components(Schneider,Omron)
欧规CE标准主电源开关与信号连接插头		Euro CE standard main power switch and signal connecting plug
风扇冷却电控箱		Electric cabinet with cooling fans
模具参数存储读取功能		Mould parameter save and read function
详细的警报记录与警示功能		Detail alarm message record and warning function
循环周期与生产管理信息统计功能		Cycle time and Production management statistic function
机器外观		MACHINE APPEARANCE
喷漆烤漆密封完全封闭界面功能		Extrusion completely enclosed surface for safety equipments
机器标准颜色(灰色,白色和蓝色)可选择		Machine standard color (Gray,white and blue) can be changed free

C/M SERIES OPTIONS C/M系列选配装置

自动冲头润滑系统 (油式、颗粒式)	Auto plunger lubrication (oil type or shot bead type)
液压保险	Hydraulic safety device
电动前、后安全门	Auto electric front side or back side safety door
大空间防护门或者落地式防护门	Big space safety door or floor-standing safety door(big mould)
电箱空调冷却	Electric cabinet cooling with air conditioner
锁模油压显示功能	Mold locking oil pressure display function
油温显示界面与报警功能	Oil temperature interface and alarm function
蓄能器自动泄压功能	Accumulator auto discharge pressure function
压射行程电磁尺控制功能	Injection stroke control by electromagnetic transducer
模具局部增压功能	Mould local pressure intens function
自动调模系统	Auto die height adjustment (no suggest)
伺服阀压射实时控制系统	Real time control system with servo valves of inject unit and Siemens S7-300 PLC
高精度PPS曲线系统	Position,Pressure & Speed curve display system with 10"screen
10"高分辨率显示屏	Siemens 10" touch screen(big machine)
自动抽拉杆装置	Auto tie bar (1pc) extraction device(big machine)

H SERIES STANDARD UNIT H系列標準裝置

鎖模系統		MOLD CLOSING SYSTEM
开合模线性位移传感器控制		Linear position moving sensor control for mold open and close
合模低压模保功能		Low pressure mold protection function for mold clamping
液壓馬達驅動調模裝置		Hydraulic motor drive mold adjusting mechanism
一组中子(抽、插芯)装置		One group hydraulic core pulling (pull & insert core) device
活动模板導柱含油轴承		Guide post oiliness bearing of moving mold board
液壓多次及多級行程頂出設定功能		Multi-step and multi-time stroke lift out setting function
自動潤滑系統/故障檢測報警功能		Automatic lubrication system/trouble detect alarming function
產品自動檢出系統		Product automatic detection system

液壓系統		HYDRAULIC SYSTEM
獨特創導快速壓射裝置		Distinguished created quick press-injection mechanism
兩級壓射控制功能		Two-step press-injection control function
中子壓力 / 流量單獨設定功能		Independent setting function of neutron pressure /flow
高響應壓力/流量比例控制系統		High response pressure/flow proportional control system
蓄能器氮氣壓力指示功能		Nitrogen pressure indication function of accumulator
蓄能器工作壓力指示功能		Work pressure indication function of accumulator

控制系統		CONTROL SYSTEM
工藝參數輸入 / 輸出動作屏顯檢索系統		Technical parameter input/ output motion screen display retrieval function
成型周期 / 產品成品統計功能		Forming period/ qualified product statistics function
運行異常 / 狀態警示功能		Abnormal running/condition warning function
機器前、後防護門安全裝置		Safe device of front and rear protection doors of the machine

加熱系統		HEATING FUNCTION
實時壓鑄流道溫度控制		The temperature control of live die casting flow way
壓射溫度保護功能*		Protection function of press-injection function
節能型熔化爐 (可選配燃油、燃氣、電能等加熱裝置)		Energy-saving welter (power, fuel ,gas are available)

H SERIES OPTIONS H系列选配装置

自动模具喷涂系统	Auto sprayer system with four head
自动铸件推落系统	Auto castings sweeper down system
天然气熔化炉	Gas melting furnace

AUXILIARY DEVICES 配套辅机



自动喷雾机
Auto sprayer



自动取出机
Auto extractor



自动给汤机
Auto ladler



自动传输带
Auto conveyer

AUXILIARY DEVICES 配套辅机



打标机
Marking machine



夹模器
Fast die clamping device



配比机
Mixer



切边机
Trimming machine



真空机
Vacuum machine



融化炉
Melting furnace



油压切边机
Hydraulic trimming machine



模温机
Mould temperature controller



离型剂混合机
Release agent mixer



冷水机
Cooling chiller



机器人
Robot



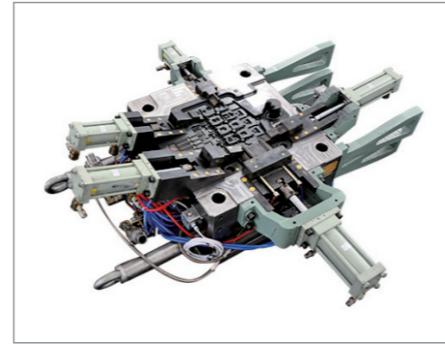
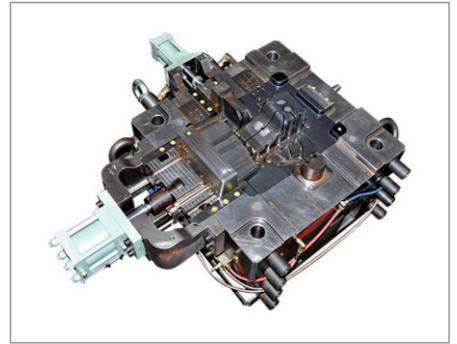
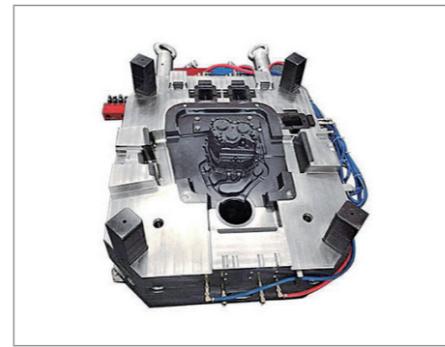
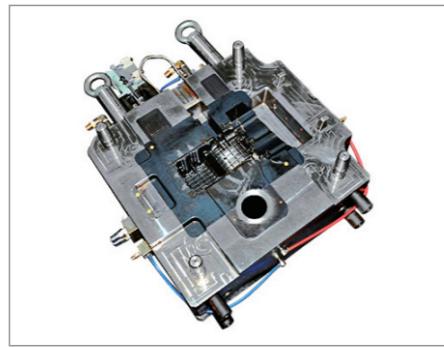
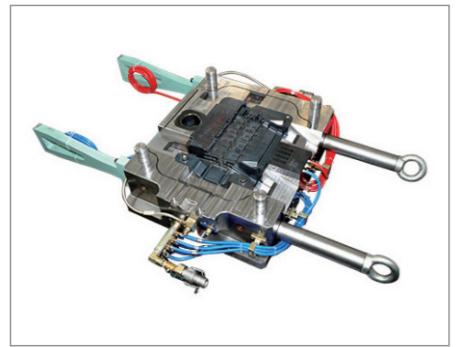
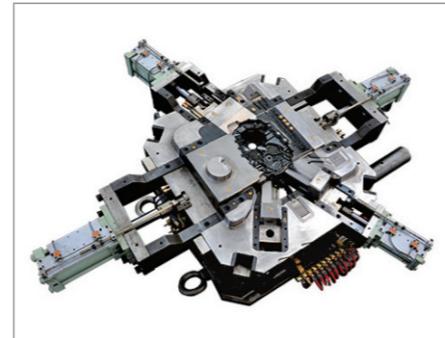
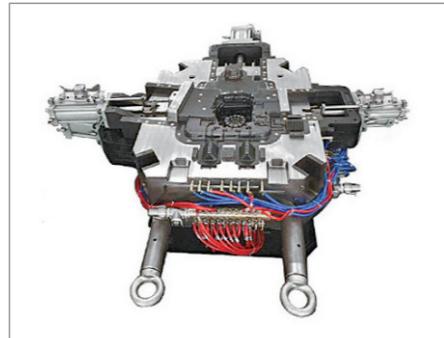
取出喷雾一体机（热式）
Sprayer extractor combine(Hot chamber)



合模机
Die spotting press

DIE CASTING MOULDS 压铸模具

汽车配件模具
Auto parts mould

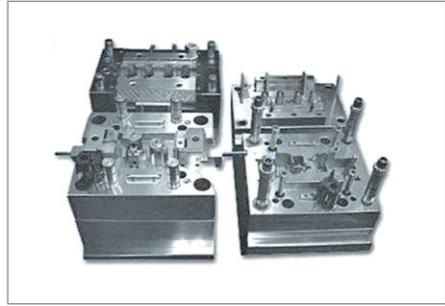
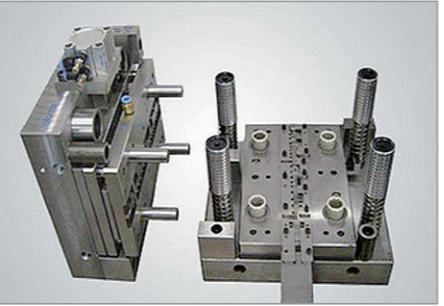


发动机外壳模具
Car starter engine housing mould



DIE CASTING MOULDS 压铸模具

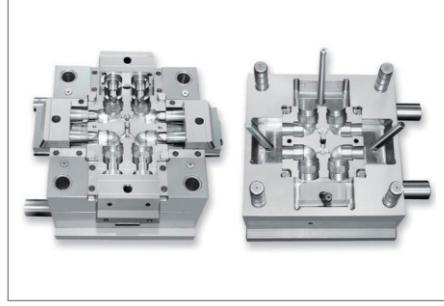
通讯部件模具
Communication components mould



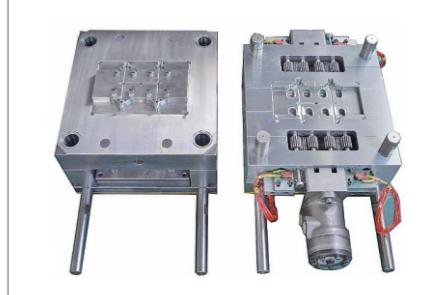
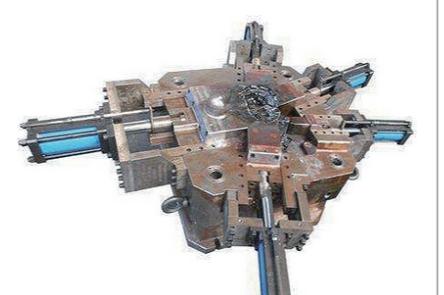
LED路灯压铸模具
LED street light die casting mould



日用品压铸模具
Commodity die casting mould

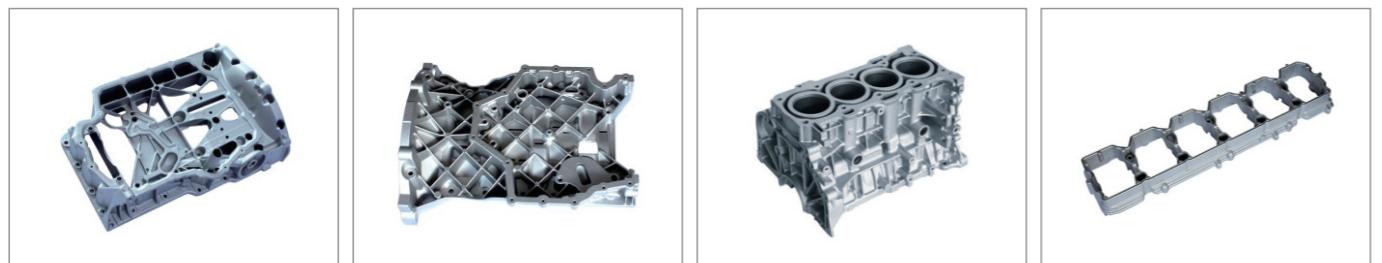
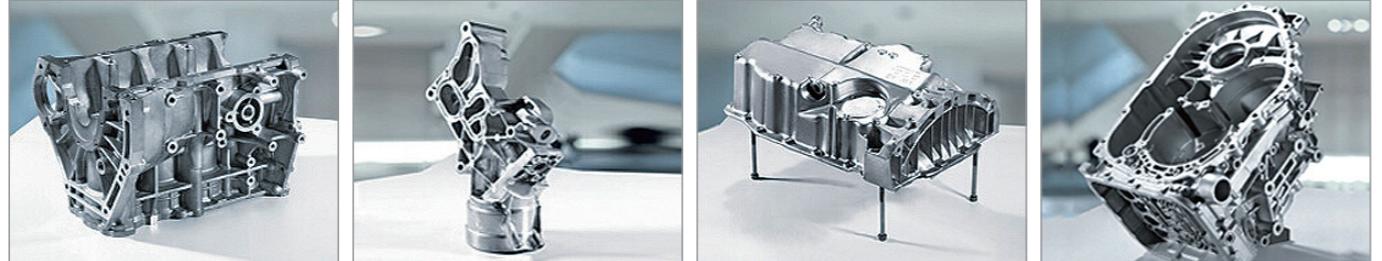


通机产品模具
General mechanical components mould

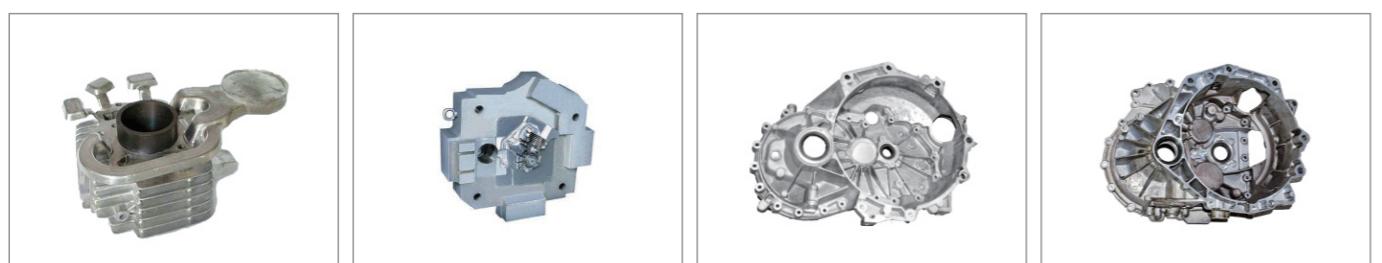


DIE CASTING PRODUCTS 压铸产品

汽配压铸产品
Die casting products
of auto parts

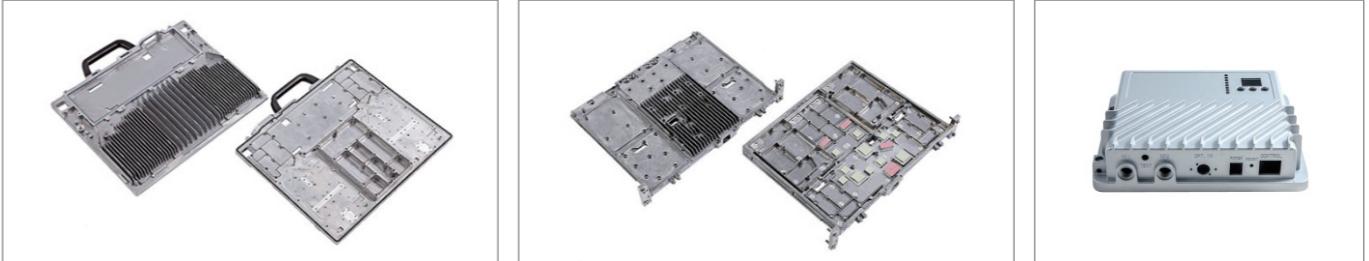


发动机外壳铝压铸件
Aluminum die casting car starter
engine housing components

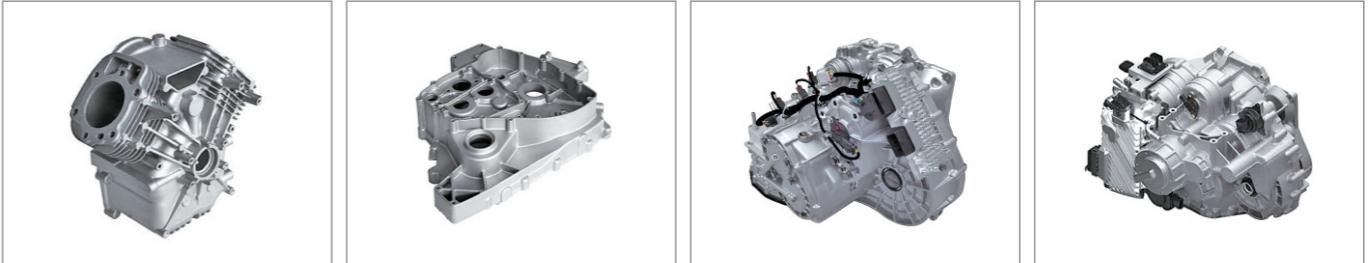


DIE CASTING PRODUCTS 压铸产品

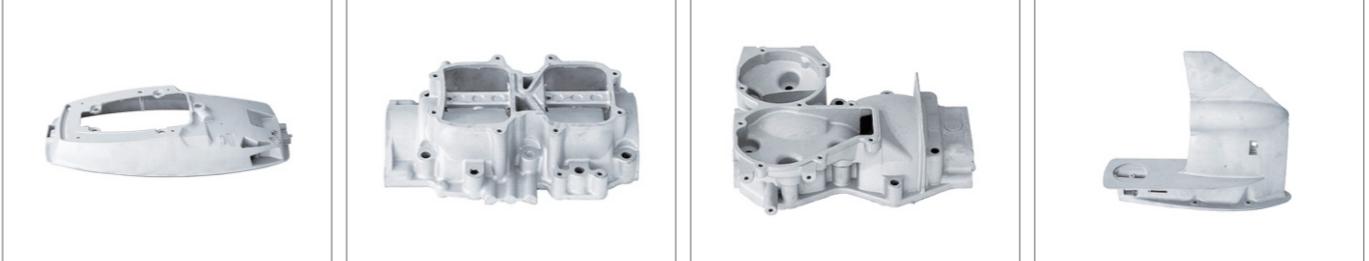
通讯部件压铸产品
Die casting products of
communication components



通机压铸产品
Die casting product of general
mechanical components



精密铝材舷外发动机压铸
Precision aluminum material
outboard engine die casting



电力附件铝压铸件
Aluminum die casting parts
electrical power accessories

