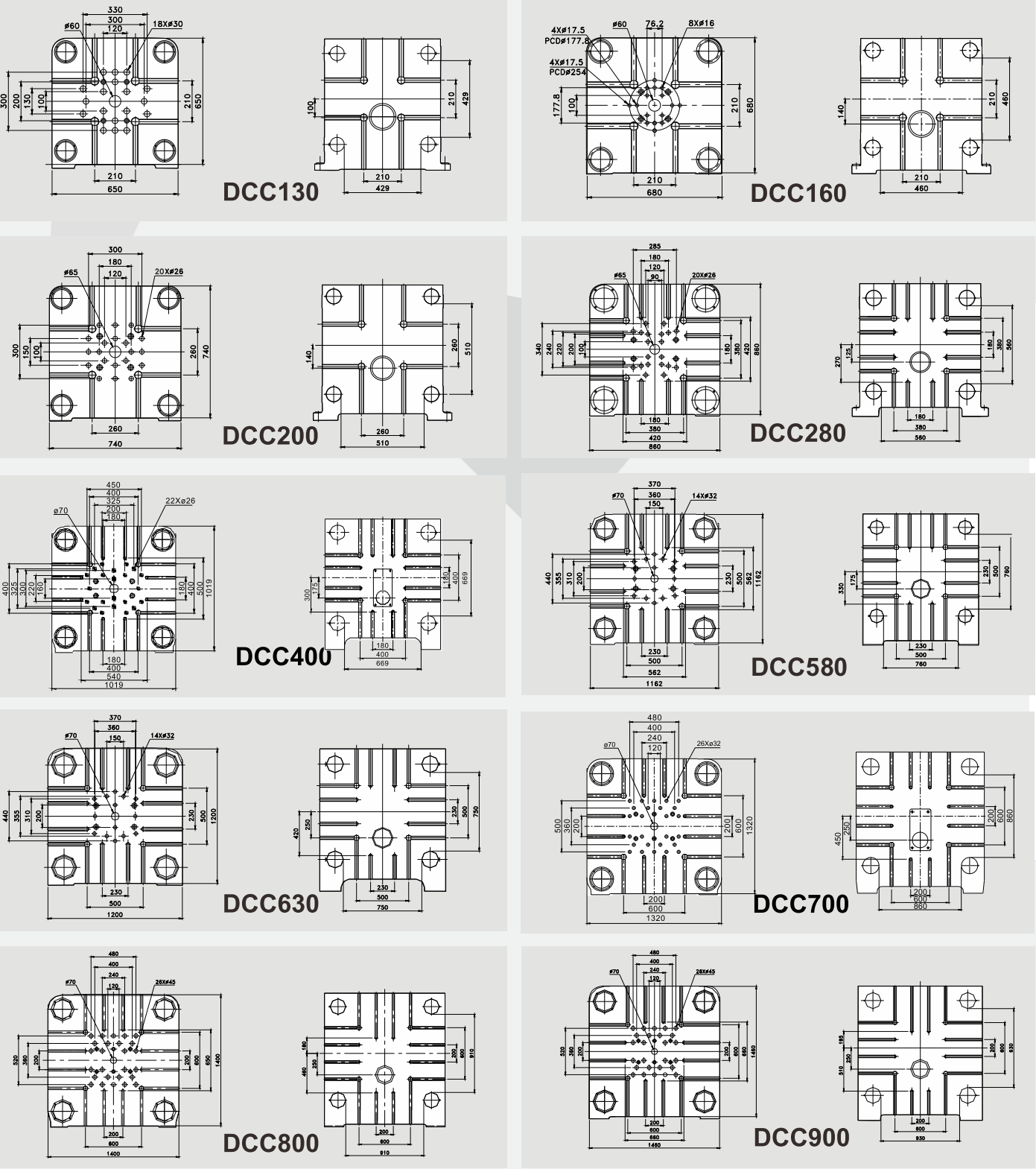


模板尺寸图 Form size drawing



Doris Qin Foreign Trade Manager
Guangdong Haize Intelligent Equipment Technology Co., LTD
广东海泽智能装备科技有限公司

Add: No.7 Minyao Road, Xiaolan Town, Zhongshan City, Guangdong Province, China
Tel: +8619162260023/+8613790739865
whatsapp: +8616677012430/+8613790739865
E-mail: hzdiecasting@163.com
Website: <https://www.hzdiecasting.cn>
Alibaba: <https://hzdiecasting.en.alibaba.com/>
MIC: <https://haizediecasting.en.made-in-china.com/>

产品不断改良, 当外形与参数变更时, 均以实样为准, 恕不另行通知!
Product constantly improved, when appearance and parameters change, all with the samples shall prevail without prior notice.

COMPANY profile

Guangdong Haize Intelligent Equipment Technology Co., Ltd. is a professional manufacturer integrating product research and development, manufacturing, sales and service, specializing in the integrated automation of die-casting peripheral products, six-axis industrial robots, industrial furnaces, etc. We are committed to the development and design of integrated automation peripheral products such as six-axis industrial robots for die-casting machines and industrial furnaces, aiming to reduce the labor costs of enterprises and enhance their production efficiency. The company was established on April 8, 2010. It has been recognized as a "High-tech Enterprise of Guangdong Province", a "High-tech Energy-saving Growth Enterprise", and a "Science and Technology Innovation Enterprise of Zhongshan City". At the same time, it is highly valued by the Zhongshan Municipal Government and is a "work mother machine" enterprise that has been listed and launched in Zhongshan City.

The main products of the company include: Cold and hot chamber manipulators/robots (for feeding soup, spraying, picking parts, and embedding), robot deburring, robot handling and palletizing, chain plate conveyor lines, slag removal bags, cutting devices, laser marking, and other intelligent production lines for die-casting and CNC machine tools. We can also customize various shaped nozzles, grippers, and automated production lines according to customer products and on-site conditions. Zinc and aluminum alloy centralized melting furnaces, machine-side insulation furnaces, energy-saving electric dry crucible boilers and gas (liquefied gas) crucible furnaces, zinc and aluminum industrial furnaces (central furnaces, machine-side insulation furnaces, electric furnaces, gas furnaces, dual heat storage energy-saving furnaces, etc.) as well as the entire factory planning, central material supply, automatic soup preparation system, to achieve Industry 4.0 in die-casting production and solve various difficulties encountered by customers in production.

The company provides customers with comprehensive die-casting process technology, talent training, and guidance on the maintenance and repair of die-casting machines. At present, our company has introduced a 1000T horizontal machining center from Yasuda, Japan, an 850T vertical machining center, a Dawei CNC lathe and a flame laser cutting machine, etc., to ensure the accuracy of the equipment. It has an absolute advantage over the same industry. In terms of design concepts, our company collaborates with Japanese engineers for development.

Honorary cooperative clients of Haize Intelligent Equipment include: Gree Group, Midea Group, Galanz Group, Wanhe Electric, Guangdong Hongtu, Guangdong

Chuangerte, Zhongshan Assa Abloy Security, Kaiping Huayi Sanitary Ware, Zhanjiang Deli, CATL, Guangdong Yizimi, Shenzhen Lijin, Jiangsu Yancheng Jinsheng Auto Parts Co., LTD., Suzhou Lida Foundry Co., Ltd. and other powerful clients.

The company adheres to the principle of providing the best products and services to customers and strictly operates in accordance with the ISO9001 international quality system certification. The automated processing equipment of Yasuda and Dawei from Japan ensures that customers have no worries when using Lishbang products in terms of product design and innovation, product precision and timeliness. An experienced and professional after-sales team. An efficient mechanism that operates independently is an important means to solve customers' problems. Advanced technology, strict craftsmanship and standardized management are the best guarantees for the quality of Lishbang products.

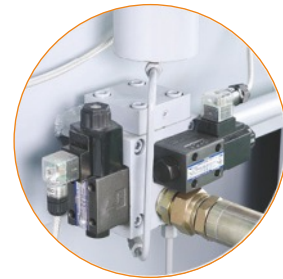




High strength mechanical structure, double thimble cylinder



The thickness of the template and hinge are strengthened and the guide sleeve of the middle plate is lengthened by 30% to ensure the moldThe board operates with high stability and balance.



Cut-off oil circuit design to ensure the stableoperation of the hydraulic system



Well-designed injection control system, injection parameters can be adjusted, suitable for the production of various high precision products.



PLC adopts Omron/Siemens color display touch screen, artificial intelligence operation control



Double proportional control oil circuit, pressure and speed can be adjusted automatically



Central automatic lubrication system, timed lubrication machine hinge to improve mechanical life and reduce maintenance



High strength hinge structure design, ensure more stable and durable die frame



LED street lamp

Motorcycle

Car Die Casting

Radiator



01 Hot chamber servo three-axis spray machine



1. Taking parts and spraying are integrated and installed above the machine, thus saving the space around the machine.
2. The mould with oblique guide pillar does not affect that production and take-out;
3. The spray atomization effect is good and is more suitable for zinc and magnesium alloy products.
4. The clamping position is accurate, and the clamping diameter can be adjusted.
5. Servo motor is used for driving, synchronous belt is used for coordination control, and the operation is stable and fast.
6. Improve production efficiency, replace labor, save management costs and labor costs, reduce customer purchase costs;

04 RV high speed servo soup machine



1. Multi-link structure, high mechanical strength, good stability and long service life.
2. Adopt Taiwan imported reducer and motor Japan NSK bearing.
3. YASKAWA servo control in Japan.
4. can choose nozzle or card nozzle nozzle.
5. With hand-held operation terminal, touch-type man-machine interface can freely edit spraying program and float
- Dynamic spraying or fixed-point spraying.
6. The belt advance lowering function can effectively save the spraying cycle.
- 7 Electric die thickness adjustment function.
8. With fault self-diagnosis display function

13 Die casting machine rapid die change system



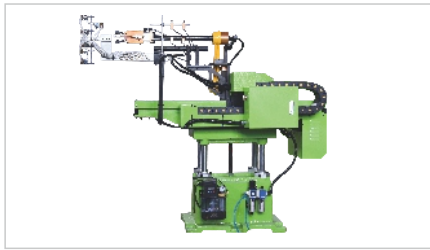
10 minutes, quick mold change

16 D Type Resistance Crucible Melting Heat Insulation Furnace(electrical)



D type resistance crucible melting heat insulation furnace is a matching equipment for small and medium-sized die casting machines, which is responsible for melting and holding aluminum alloy, and is suitable for multi-brand aluminum alloy die casting requirements. Melting capacity is between 50kg/h and 350kg/h. It has the advantages of ultra-low melting loss, long service life, short stop/start time period, fast temperature rise, simple maintenance, etc. The electric control is a temperature control closed loop composed of PID and silicon controlled rectifier, which outputs heating power according to the proportion of temperature difference, thus saving energy consumption to the greatest extent. To optimize and perfect energy conservation, our company has advanced technology level in the industry.

02 Hot chamber servo double shaft injection machine



1. Take parts, spray integration, small and flexible, save space
2. Aiming at small products, high speed and high speed can be realized
3. The spray atomization effect is good, and is more suitable for zinc and magnesium alloy products.
4. The clamping position is accurate and the clamping diameter can be adjusted.
5. Servo motor is used for driving, and synchronous belt is used for coordination and control, thus running smoothly.
6. Improve production efficiency, replace labor, save management costs and labor costs, Reduce customer purchase cost;

05 Servo pickup machine



1. take parts, spray integration, small and flexible, save space;
2. for small products, can achieve high speed and high yield;
3. spray atomization effect is good, more suitable for zinc, magnesium alloy products;
4. clamping position is accurate, clamping diameter can be adjusted;
5. drive using servo motor, with synchronous belt control, smooth operation;
6. Improve production efficiency, replace labor, save management cost and labor cost and reduce customer purchase cost;

14 LSB Industrial robot



Material handling,parts transfer, electric weldingmachine management, stacking,Packaging, testing,deburring, grinding, gluing, assembly, spraying,

17 Die casting machine oil mist collection system(natural gas)



Y type gas furnace is a matching equipment for small and medium-sized die casting machines. It is responsible for melting and heat preservation of aluminum alloy. It is suitable for die casting requirements of multi-brand aluminum alloy. Its melting capacity is 50-350kg/h (the aluminum water capacity of the monomer crucible is 300kg-1200KG). In addition, the furnace can be made tiltable according to customer's requirements, and the aluminum liquid poured out through tilting can be transferred to other holding furnaces or gravity casting for use. The furnace uses ultra-high temperature, high-speed burner and heat-resistant stainless steel heat exchanger. The combustion split has ultra-high combustion efficiency and remarkable energy-saving effect. Equipped with imported graphite crucible (silicon carbide graphite crucible specially designed for open flame), with stable performance, long service life, time operation and ultra-low failure rate.

03 The five connecting rod feeding machine



1. The original imported double-enveloping worm gear transmission with five-link structure enhances the traveling speed and running stability of the arm and can increase the output.
2. The integral forming of the box body greatly improves the accuracy of the machine.
3. The arm of the soup feeding machine moves forward/backward and the soup feeding/taking is controlled by an independent frequency converter, thus improving the soup feeding speed and making the operation easy.
4. Connecting rod type arm is adopted, which can brake stably even in high-speed movement, and aluminum soup is not easy to overflow.
5. PLC control is adopted, each function set by the simple touch panel surface is easy to operate and has the function of displaying fault codes for easy maintenance.

06 Release agent mixer



1. The dilution ratio can be adjusted at will from 40 to 150 times according to customer's product requirements, and the operation is simple and convenient.
2. One machine can support multiple die casting machines to produce and use at the same time, with high cost ratio.
3. It can improve the casting quality and production efficiency, prolong the service life of the mould, and save energy, materials and manpower.
4. Automatically detect the lack of stock solution, water inlet pressure and mixed liquid pressure.
5. Use world-class components to prolong the service life of the machine.
6. Automatic continuous production and transportation, accurate dilution multiple, accurate liquid level detection, no precipitation, and good cleanliness.

15 Crucible Type Fuel (oil) Furnace (diesel)



- Has The Function Of Melting & Holding
- Optional Diesel, Natural Gas Or Methane
- Up To Your Different Needs For The Choice Of Opened Design Or Closed Design
- For Aluminum Alloy, Zinc Alloy Material
- The Temperature Gauge Of Aluminum Alloy Material With Ceramic Tube To Protect The Needle Not To Produce impurities In The Aluminum Alloy Furnace
- To Use PID Automatic Calculation To Have The Precise temperature Control
- Set The Leaking Detection To Do The Safety Testing

18 Pool Type Electric Holding Furnace



The zinc alloy crucible furnace can be divided into two types, central furnace and standard furnace for hot chambeaccording to their usage. The central furnace is widely used in inao castina and automatic molten material matchnot uses electricity, gas and diesel as its power. The electricity-powered type can be divided into infrared heating typeand radiant heating type according to the heating method. The crucible can be made of graphite, stainless steelorcastiron, which customers can choose according to their own demands.

07 Particles lubrication machine



1. Online automatic lubrication to reduce wear of moving parts and increase shooting speed.
2. Extend the service life of material pipe and plunger head.
3. There is no oil mark on the casting surface, which makes the casting clean and bright.
4. No oil stain pollution, improving the production environment and ensuring the cleanliness of the workshop.
5. Single and multiple die-casting mold closing cycles can be selected, and the material is used once, which can reduce the particle consumption and save the cost.

10 Conveoyr belt



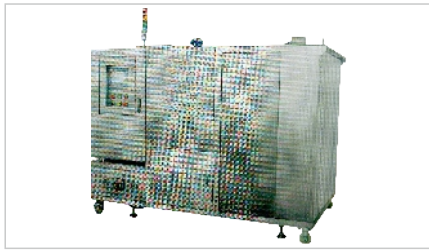
1. Supporting the production and use of die casting machines, the conveyor belt can rapidly cool the products produced by the die casting machines on the cooling conveyor belt, and transport to the designated console position .
2. Equipped with powerful fans: large air volume, good cooling effect, simple design; Installation; Commissioning; Easy maintenance; Stainless steel chain plate/galvanized chain is not easy to be used as a conveying medium, the material is jammed and leaked, the parts are matched precisely, and the plate/galvanized chain is firm and firm.

19 Zinc Aluminum Automatic Soup Line



The zinc aluminum automatic soup line is a full-automatic aluminum (zinc) liquid conveying line, which adopts a hanging design, does not occupy manpower and ground space, has a dialogue man-machine interface, and detects errors by itself. The external centralized indicator light can understand the situation of material shortage and supplement. According to the material situation, signals are obtained from power to supplement the field. The aluminum alloy soup is collectively made of ceramics made of composite ceramic materials, zinc aluminum soup with stainless steel spoon, and has very good durability. Customers can choose the capacity of the spoon according to the actual demand for aluminum liquid.

08 Release agent recovery device



1. The recovery liquid is treated by a pure physical method without damaging the release agent components
2. 100% recovery of mold release agent epidemic liquid reduces mold release agent consumption by about 40%
3. The recovered mold release agent has good quality and has no adverse effect on the die of die casting machine and products.
4. The main components are imported parts with low failure rate and long service life.
5. Simple use and maintenance, no need of professional personnel
6. Real-time concentration detection, dynamic automatic proportioning and automatic operation system are safe and reliable.

11 Servo pickup machine



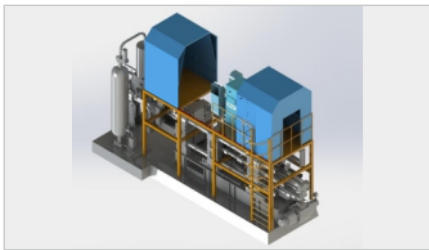
1. After the product is processed, the burrs are precisely sized to ensure the quality.
2. According to different products, 3-20 workers will be reduced to remove burrs.
3. The cut burrs can be reused in blocks (strip shape).
4. Capacity of 60-150 modules per hour.
5. Install the door on three sides to keep the machine clean and easy to disassemble and assemble the mold.

20 New Tower Concentrated Melting And Holding Furnace



New type concentrated melting and holding furnace for aluminum alloy is a rapid melting furnace for aluminum alloy, suitable for large-scale concentrated melting with melting capacity of 0.2T-5T. The melting burner adopts the ignition mode of the mother burner to achieve low unit consumption and heat preservation. The furnace is designed as a tower structure with continuous melting capability and is divided into a melting chamber, a holding chamber and a soup taking chamber, aiming at energy conservation optimization and perfection. The combustion-supporting air adopts furnace temperature preheating cycle to ensure complete combustion of gas: a sealed smoke exhaust design is designed to prevent the emission of exhaust heat as much as possible; The production of the thermal shock resistant castable material of material well at the inlet of the cover effectively prolongs the service life of the feeding cover and makes it more energy-saving.

09 Die casting machine oil mist collection system



LSB offers a full range of extraction smoke collection systems for safe control of the cast oil mist and fumes. The products most commonly used in the die casting industry mentioned below, our application engineers can help you choose the right product and the right system and accessories, such as HEMS / HDMS filtration, HOMS filter, wear-resistant inlet, drainage circuit, HEPA high efficiency filter With filtration efficiency of up to 99%, it is guaranteed to meet your specific application and facility needs.

12 Die casting CNC grinding machine



Classic design concept and high rigidity structure realize high speed, high precision, high efficiency and high stability. Unique double exchange table top design adopts cylinder clamping to realize high efficiency and accurate fixation. It solves the problem of workpiece up-and-down time and double the output compared with the first generation CNC grinding machine.

The company's operating system, developed independently for 2 years, has solved the problem of many blind spots in burr polishing and has high polishing smoothness. One machine can replace 4-6 people and is suitable for burr grinding and milling of die castings. This machine supports loading and unloading of manipulator.

21 New Tower Type Machine Side Melting And Holding Furnace



a new type of machine-side melting and holding furnace is used in conjunction with large-scale casting machines to undertake the melting and holding tasks of aluminum alloy. It is suitable for die casting of multi-brand aluminum alloy with melting capacity ranging from 100 kg/h to 500 kg/h. The side furnace is used with a large die casting machine, which is responsible for the melting and heat preservation of aluminum alloy. It is suitable for multi-brand aluminum alloy die casting requirements and single matching use of large machines. The melting capacity is between 100 kg/h and 500 kg/h. The feeding method can choose automatic feeding or manual feeding according to customer's requirements. In addition, the furnace can be used as a dual-purpose furnace: one is a stand-alone furnace; Secondly, the aluminum liquid discharged from the aluminum water flow tank is transferred to other holding furnaces for use or gravity casting. The furnace is designed as a tower structure, and the holding chamber can be of round structure and square structure for customers to choose from, which can be designed based on the actual needs of customers. Sealed smoke exhaust design, feeding and opening cover is made of castable with high thermal shock resistance, which effectively increases the service life of material well cover and makes it more energy-saving. To optimize and perfect energy conservation, our company has advanced technology level in the industry.



技术参数 Technical parameter



锁模系统 Mode-locking system	项 目 entry	单位 unit	DCC130			DCC160			DCC200			DCC280		
	锁模力 Clamping force	kN	1450			1600			2000			2800		
	锁模行程 Mode-locking stroke	mm	350			380			400			460		
	顶出力 Ejecting force	kN	108			108			108			150		
	顶出行程 Ejection stroke	mm	85			85			100			105		
	模具厚度(最小－最大) Mold thickness (min－Max)	mm	250－500			200-550			200-600			250-650		
	模板尺寸(水平X重直) Template size (horizontal X straightened)	mm	650X650			680X680			740X740			860X860		
压射系统 Injection chamber system	哥林柱内距 The inner distance of the Corinth column	mm	429X429			460X460			510X510			560X560		
	射料位置 Shot position	mm	0	-100		0	-70	-140	-140			0	-125	
	射料行程 Shot stroke	mm	320			340			370			400		
	压射力(增压) Injection force	kN	220			270			270			330		
	锤头直径 Hammer diameter	mm	40	50	60	40	50	60	50	60	70	50	60	70
	射料量(AI) Injection volume (AI)	kg	0.7	1.15	1.6	0.8	1.3	1.8	1.35	1.95	2.65	1.5	2.1	2.9
	铸造压力(增压) Casting pressure	Mpa	175	112	77	214	137	95	137	95	70	168	116	85
	铸造面积 Casting area	cm²	82	129	186	74	116	167	145	209	285	166	239	326
	最大铸造面积(40MPa) Maximum casting area (40MPa)	cm²	362			400			500			700		
	压射室法兰直径 Injection chamber flange diameter	mm	110			101.6			101.6			101.6		
其它 other	压射室法兰凸出定板高度 The injection chamber flange protrudes to the height of the plate	mm	10			12			12			12		
	压射动头推出距离 Ejector head push distance	mm	115			135			140			140		
	系统工作压力 System operating pressure	MPa	14			14			14			14		
	油箱容量 Tank capacity	L	480			520			550			670		
	机身外型尺寸(长×宽×高) Body size (L x W x H)	mm	577017502590			577017802570			606018502605			639019602675		
	机器重量 Machine weight	T	6.5			7			8			11.5		

备选项 alternative
* 机械外形尺寸不包括熔炉及控制电箱。 * Mechanical dimensions do not include furnace and control box

DCC400			DCC580			DCC630			DCC700			DCC800			DCC900		
4000			5800			6300			7000			8000			9000		
550			580			650			720			760			800		
180			240			315			315			315			360		
125			140			150			160			180			190		
300-700			350-850			350-850			350-900			400-950			400-1000		
10191019			1162X1162			1200X1200			13201320			1400X1400			1460X1460		
669669			760X760			750X750			860860			910X910			930X930		
0	-175		0	-175		0	-250		0	-250		0	-250		0	-250	
500			580			600			700			760			760		
410			480			590			590			680			775		
60	70	80	70	80	90	70	80	90	80	90	100	80	90	100	80	90	100
2.7	3.6	4.7	4.2	5.4	6.9	4.3	5.6	7.2	6.5	8.3	10	7.1	9	11.2	7.1	9	11.2
145	106	81	124	95	75	153	117	92	117	92	75	135	106	86	154	121	98
275	375	490	465	607	768	410	536	679	596	754	931	591	748	924	583	738	912
1000			1250			1575			1750			2000			2250		
101.6			165			165			165			200			200		
12			15			15			15			20			20		
200			250			250			250			295			300		
14			14			14			14			14			14		
800			1000			1100			1200			1300			1400		
725021202810			775022402855			821022802900			856523602945			894024802995			936026603355		
15.5			20.5			24.5			29			31.5			37.5		

• 我司保留权利作出任何技术数据修改而不另行通知。 • We reserve the right to modify any technical data without prior notice
此重量不包括任何选配项及周边设备。 # This weight does not include any options and peripherals

压铸全流程工艺自动化方案 高度集成·高效·智能

Die casting process automation solution - highly integrated, efficient and intelligent

模具恒温方案
Die with constant temperature square



模温机
Mold temperature machine

高压点冷机
High pressure point cooler



真空系统
Vacuum system

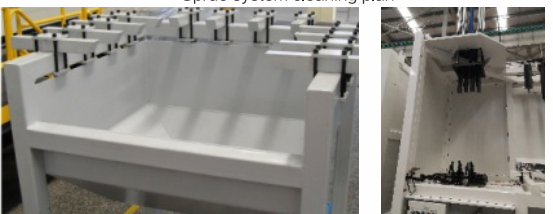
产品冷却方案
Product cooling scheme



水冷装置
Water cooling unit

风冷装置
Air cooling unit

浇道系统清理方案
Sprue system cleaning plan



去渣包装置
Slag removal and encapsulation device

折断机
breaker

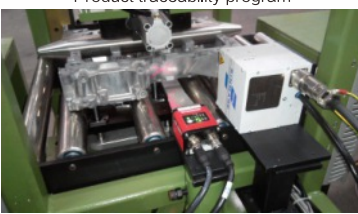
浇道系统清理方案
Sprue system cleaning plan



锯切装置
Sawing device

切边机
Trimming machine

产品可追溯方案
Product traceability program



读码器&打码机
Code Readers & coding machines

喷雾方案
Spray the mist



标准喷头
Standard nozzle

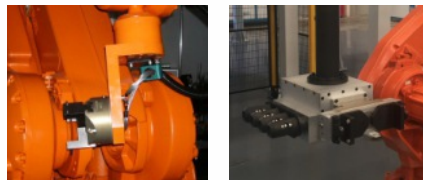
仿形喷头
Copying nozzle

烟雾处理方案
The smoke and fog at the prescription



集尘罩&除尘净化系统
Dust collection hood & dust removal purification system

取件方案
Pick-up plan



标准夹手
Standard grip

专用夹手
Special grip

产品码垛方案
Product stacking plan



码垛框
Palletizing frame



大型压铸机技术参数表

Large die casting machine technical parameters table

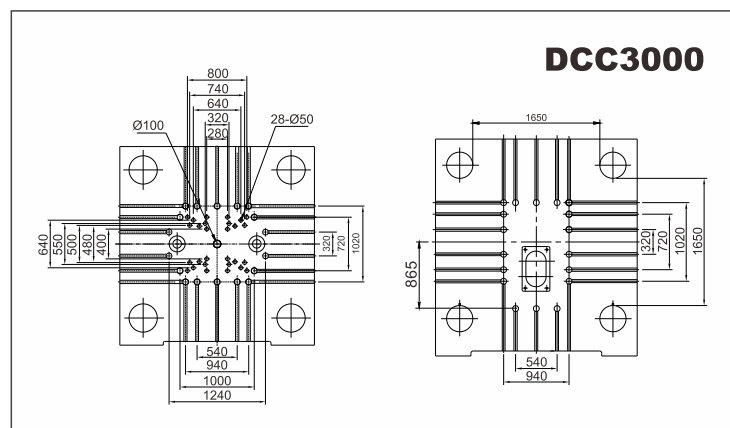
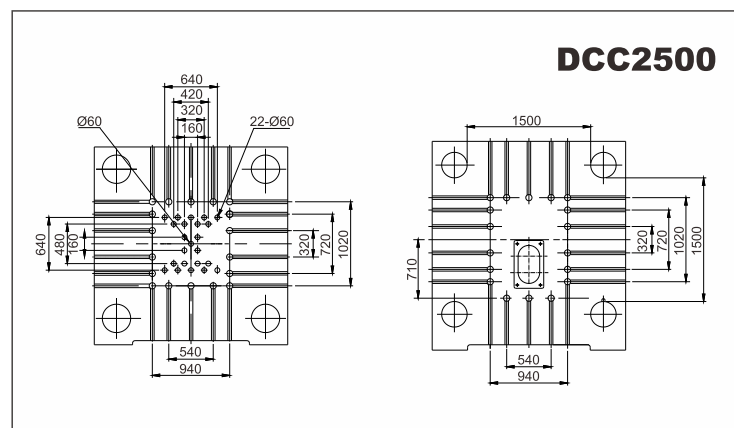
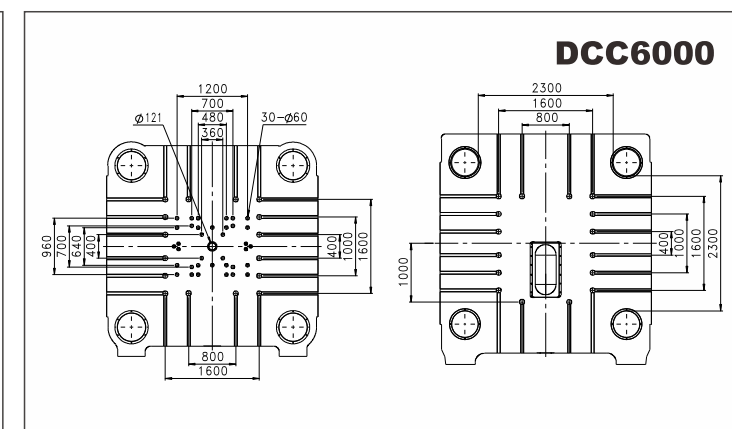
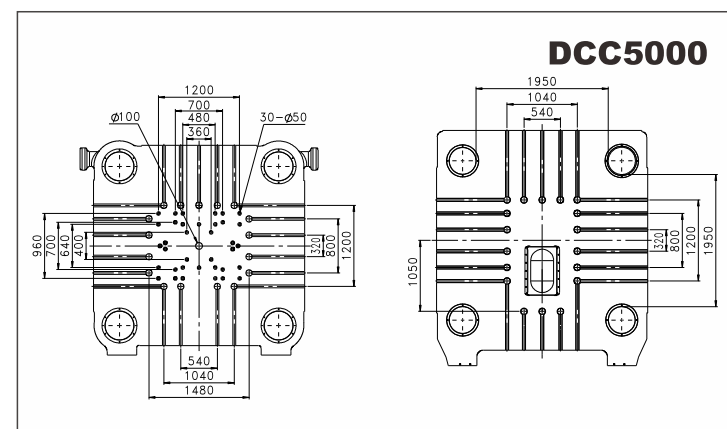
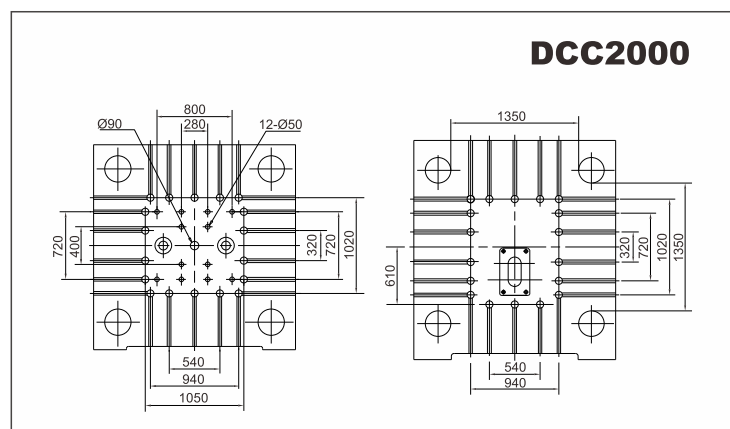
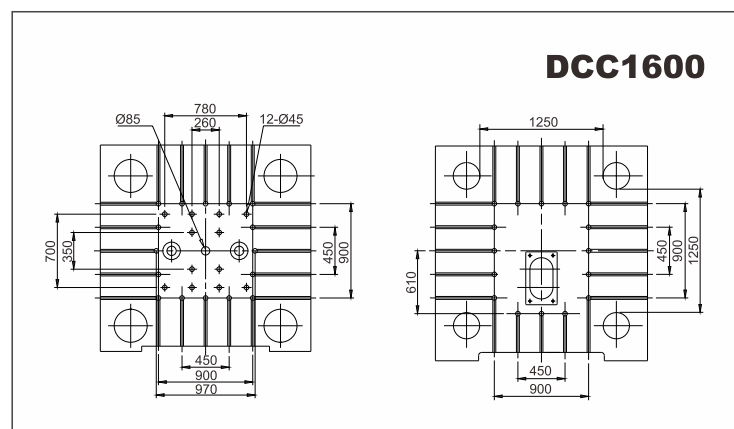
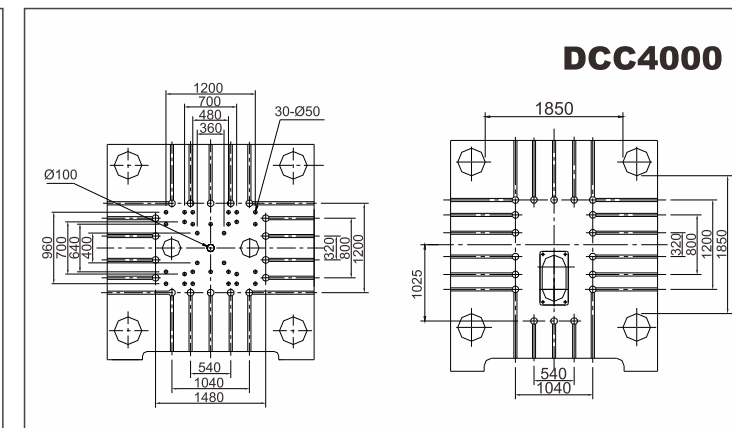
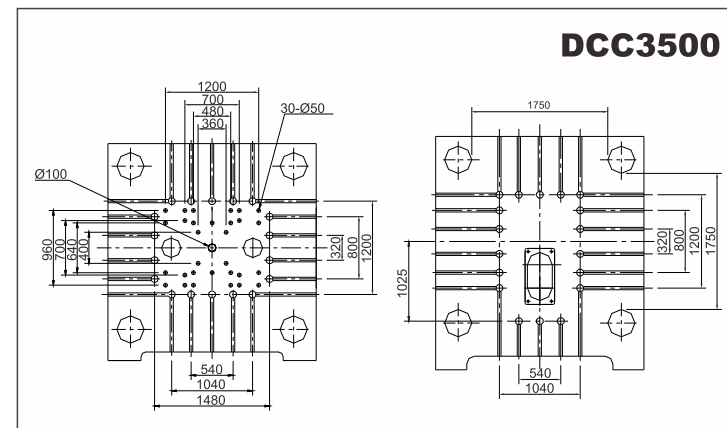
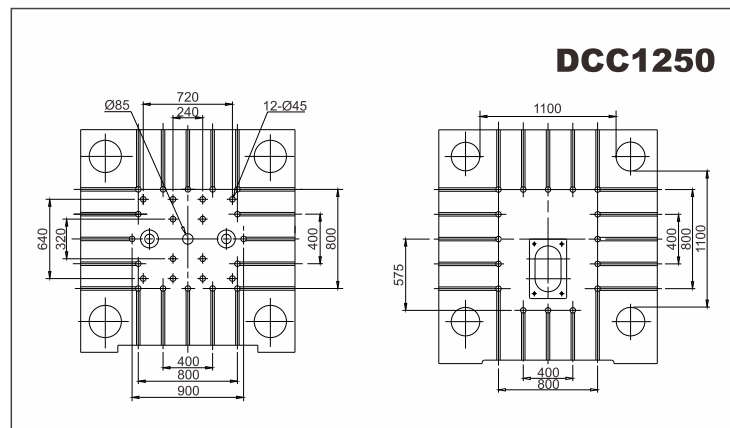
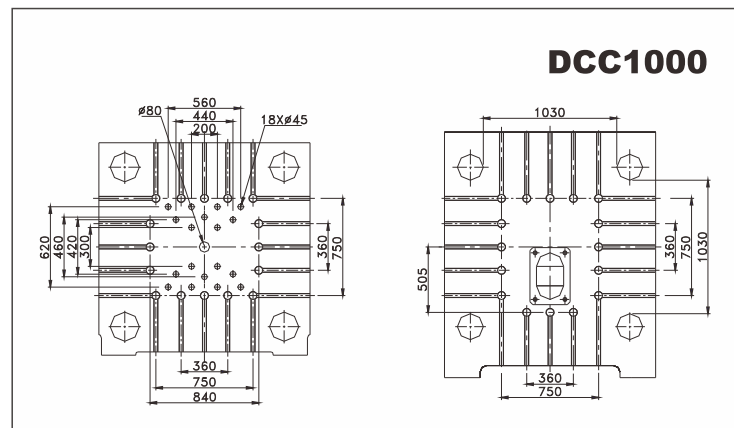
项目	ITEM	单位	DCC1000	DCC1250	DCC1600	DCC2000	DCC2500	DCC3000	DCC3500	DCC4000	DCC5000	DCC6000
锁模力 Clamping Force	kN	10000	12500	16000	20000	25000	30000	35000	40000	50000	60000	
锁模行程 Clamping Stroke	mm	880	1000	1200	1400	1500	1500	1600	1800	1900	2300	
模具厚度(最小-最大) Die Height (min. - max.)	mm	450-1150	450-1180	500-1400	650-1600	800-1800	850-2000	850-2000	900-2100	1100-2100	1200-2400	
模板尺寸 Platen Size (H x V)	mm	1620X1620	1730X1740	1980X1980	2150X2150	2350X2350	2620X2620	2800X2800	2800X2800	3000X3000	3550X3550	
哥林柱内距 Space Between Tie Bars	mm	1030X1030	1100X1100	1250X1250	1350X1350	1500X1500	1650X1650	1750X1750	1850X1850	1950X1950	2300X2300	
压射力(增压) Injection Force (with intensification)	kN	882	1075	1285	1500	1800	2000	2410	2410	2720	2920	
射料行程 Injection Stroke	mm	800	880	930	960	1050	1180	1400	1400	1600	1600	
冲头直径 Plunger Diameter	mm	90-120	100-140	110-150	130-170	140-180	150-190	160-200	160-200	170-210	190-230	
射料量 (铝) Shot Weight (Al)	kg	9.5-16.9	13.0-25.4	16.6-30.8	23.9-40.8	30.3-50.1	39.1-62.7	52.7-82.4	52.7-82.4	70.8-108	88.4-129.6	
铸造压力(增压) Casting Pressure (with intensification)	MPa	138.6-78	137-70	137-73	113-66	117-70.5	113-70.5	120-77	120-77	120-79	100-70	
铸造面积 Casting Area	cm²	721-1282	910-1785	1165-2190	1769-3030	2136-3546	2654-4255	2910-4540	3330-5190	4170-6360	6000-8590	
最大铸造面积 (40MPa时) Max Casting Area (under 40MPa)	cm²	2500	3125	4000	5000	6250	7500	8750	10000	12500	15000	
压射位置 Shot Position	mm	-150,-300	-160,-320	-175,-350	-175,-350	-200,-400	-250,-450	-300,-600	-300,-600	-300,-600	-300,-700	
压射冲头推出距离 Plunger Penetration	mm	300	320	360	400	450	530	600	600	700	700	
压射室法兰直径 Diameter of Pressure Chamber Flange	mm	240	240	260	260	280	280	320	320	340	350	
压射室法兰凸出定型板高度 Height of Pressure Chamber Flange	mm	20	25	25	30	30	30	35	35	35	40	
顶出力 Ejector Force	kN	500	570	570	650	750	900	1000	1000	1100	1100	
顶出行程 Ejector Stroke	mm	200	200	250	300	300	300	350	350	400	400	
系统工作压力 Hydraulic Working Pressure	MPa	16	16	16	16	16	16	16	18	18	18	
油箱容量 Hydraulic Oil Tank Capacity	L	1600	2500	2900	3200	3700	3800	4500	4500	4900	7000	
机器外形尺寸 Machine Dimensions (L x W x H)	mm	11260X5750X4000	12800X5800X4560	13000X6000X4620	14500X6300X4750	15200X6600X5080	15500X6900X5190	18700X7000X6090	18700X7000X6090	18900X7600X6200	19540X11130X6390	

• We reserve the right to make any technical improvement without further notice.
The machine dimension does not include furnace and control carbinet.

• 我可保留權利作出任何技術數據修改而不另行通知。
機器外型尺寸不包括熔爐及控制電箱。

CAT.NO.:C21-09-02

模板尺寸图 Form size drawing



CAT.NO.:C21-09-02