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Ferrimino

Quality solutions for plastics

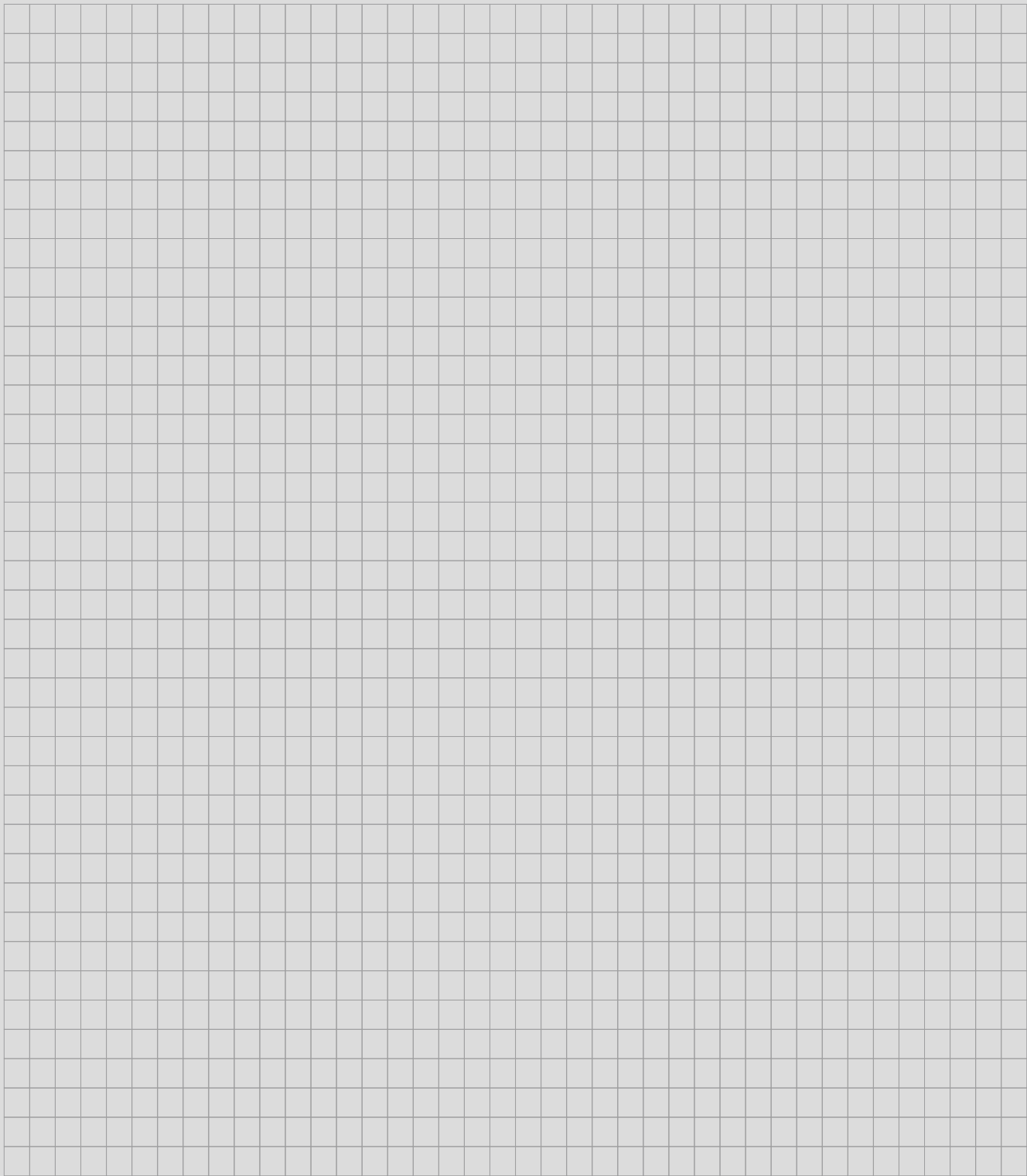


宁波市艾尔法机械制造有限公司
Ningbo Alfa Machinery Manufacture Co., Ltd

ISO9001 CE

您拥有怎样的眼光，
就决定了您对它持有怎样的看法

Your Vision Decides Your Perspective



Professional Plastic Injection
Molding Machine
Manufacturer

专业的塑料注射成型机制造商



Ferrimino®

中国区指定制造商

Authorized Manufacturer By Ferrimino In P.R.C

您拥有怎样的眼光，
就决定了您对它持有怎样的看法
Your Vision Decides Your Perspective



高新技术企业证书
发明 / 实用专利证书
ISO9001 质量认证
CE 国际认证



公司简介 | Abaot us

宁波艾尔法机械制造有限公司地处“中国塑机之都”的浙江省宁波市，是一家专业化生产塑胶注塑成型机械的品牌企业。公司自成立以来，一直主导和建立面向国际市场的营销体系，艾尔法品牌受到了中东、南美、东南亚、东欧等各个国家和地区客户的使用和好评，并在多个国家设立了营销及服务机构。艾尔法公司长期以来聘请高端技术人员和海外技术顾问，结合国外先进技术专注研发和生产高性能伺服节能注塑机并成功研发推出了第二代伺服驱动注塑机，受到国际市场的青睐。公司通过严格的品质管理体系以及各项产品认证，所生产的专业伺服注塑机均配备世界知名品牌的液压、电器及控制系统，引进国际领先设计理念通过严格的检验、装配、调试，为客户提供最优质的产品与服务。艾尔法公司本着“为客户创造价值，为员工创造价值，为社会创造价值”的理念，尽力满足客户需求，精益求精，开拓进取，为中国塑胶机械产业的发展和提高做出自己的贡献。

Ningbo Alfa Machinery Manufacture Co., Ltd. is a famous enterprise devoted to manufacturing plastic injection molding machine, lying in the Ningbo, China. Airfa plastic injection molding machine machines Focus on quality and professional industries solution. Airfa have several series which are suitable for general and engineering plastic products, A F Series machines are equipped with double linear motion guide injection unit and world-famous hydraulic parts, electrical parts, servo system and controller system. A Y- Ferrimino Series are equipped with Swiveling and Double Layers Linear Guide Rails Injection Unit, Wider Space Between Tie-bars Clamping Unit and so on. We also have varies types, such as high speed machine, special series to suit P V C/ P E T/P C/P M M A/Fiber Glass plastic materials. Because of strict system for inspection and assembling, Airfa has provided first-class products and services. Airfa has set up a marketing system aiming at international market. Machines are sold all over the world including Middle East, South America, Southeast Asia, East Europe, and receives good reputation from them. It has established overseas sales & service branches and agent as technician consultant in these countries. With the pursuit of "Create value for customer, Create value for staff, Create value for society", the company is trying its best to meet the requirements of customers, strive for better, and make its own contribution for the development and improvement of national plastic industry.



What Makes a Good Plastic Injection Molding Machine

一台好的注塑机具备的因素

Ferrimino



Advanced Technology

先进技术

As the plastic machinery manufacturer advanced technology on injection molding machine design is the key point which helps our clients to keep their leading marketing position, and helps our clients to keep the modern factories management.

作为塑料机械的生产商，先进的技术是帮助客户保持领先的市场营销地位的关键，并且能够帮助客户进行现代化的工厂管理。

High Precise

高精度

Precise injection molding machine is not only simply by using good spare parts, but also the high precise controller system, hydraulic system and mechanical unit design.

精密注塑成型机，不仅需要好的机器配件，而且还需要具备高精度控制系统、液压系统和机械装置设计。

Robust Mechanical Unit

坚固耐用的机械装置

Mechanical unit strength is one of the most important factors of the machines' quality, the strong mechanical unit will be the guarantee of injection molding machine and mold life-span.

机械单元强度是机械质量的最重要因素之一，结实的机械单元可以保证注塑机和模具的寿命。

Energy Saving

能源节省

Power and water consumption affect the cost of products obviously, lower power consumption helps our clients keep their marketing competition and improve products profit.

能耗高低会极大地影响产品成本，降低注塑机能耗有助于客户保持市场竞争，提高产品利润。

Speed

快速

Speed improves production capacity and creates more profit during same production time.

注塑机的速度决定了生产能力。速度增加，产能提高，同一生产时间内可以创造更多的利润。

Modular Design

模块化设计

We don't know what will happen tomorrow, easy to come back for second, the modular design helps to upgrade the current injection molding machine or retrofit them to be easier.

标准化的模块化设计，能够更好的满足客户对注塑机的个性化需求。

Clean Production

清洁生产

Clean production helps factories to be more competitive in the market, and create extra value for our clients.

清洁生产有助于工厂提高市场竞争力，并为客户创造额外的价值。

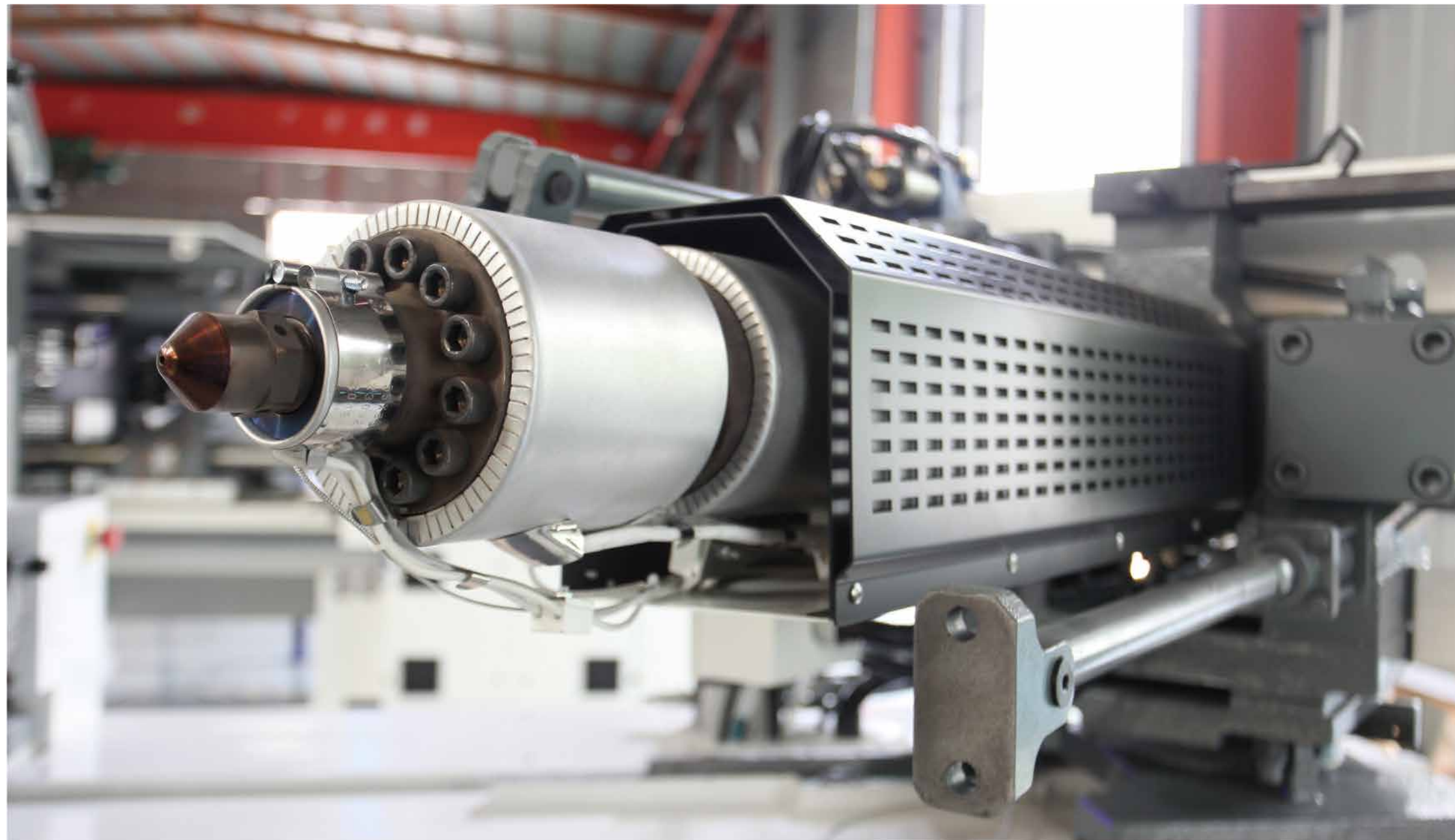


Precise Injection Movement Swiveling Type + Two Layers Linear Guide Rails Injection Unit

精确的注射
旋转式+双层线性注射装置

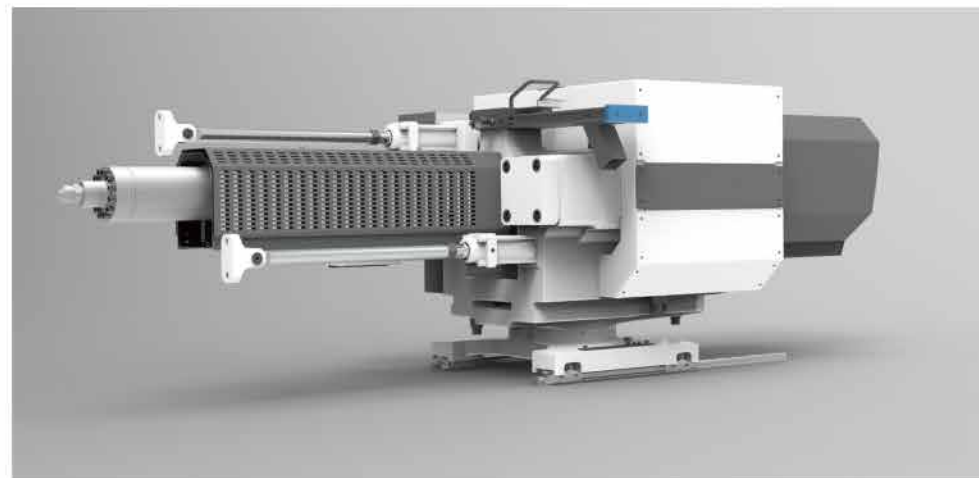
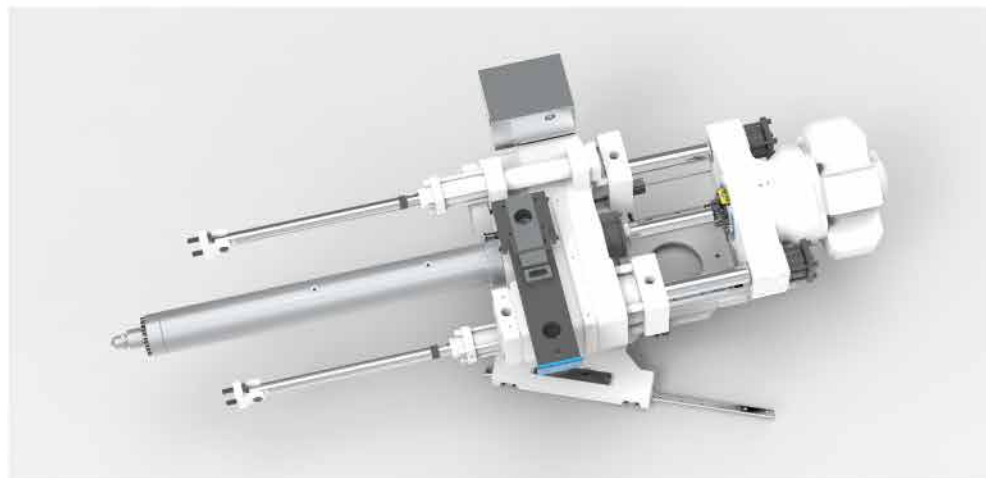
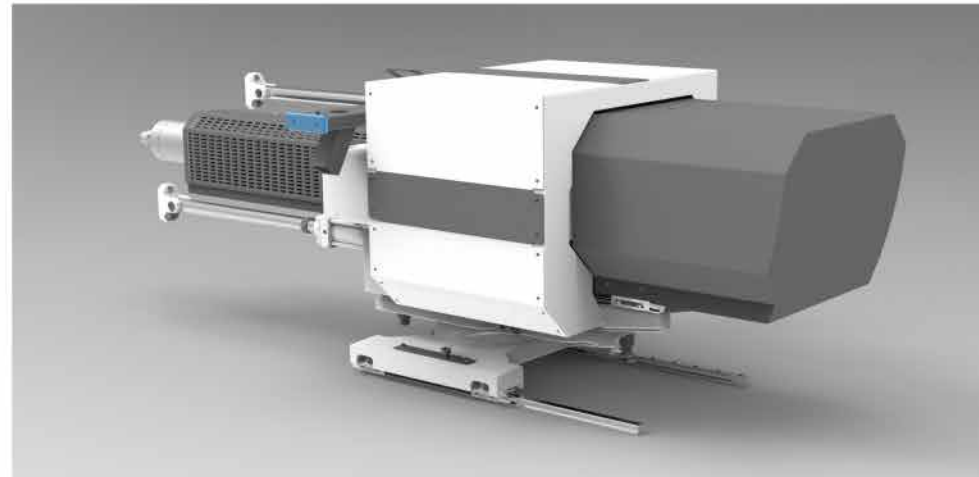
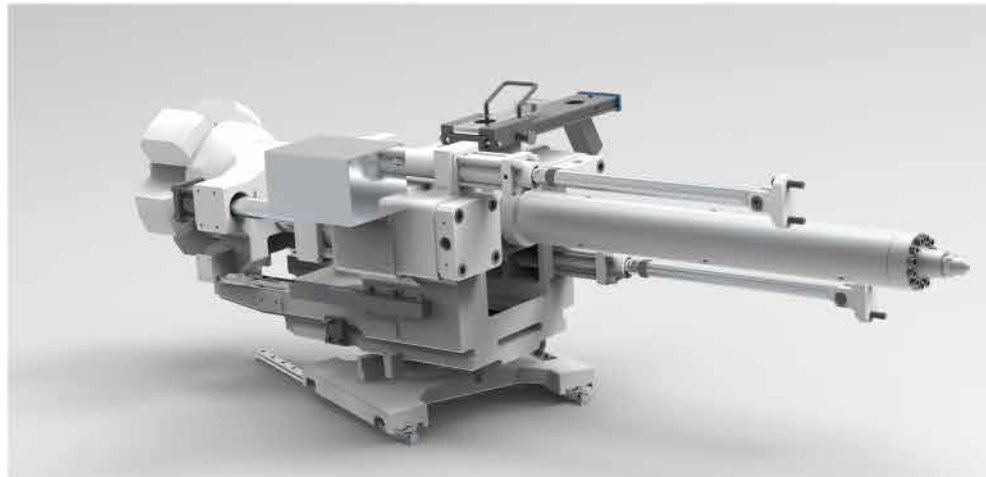
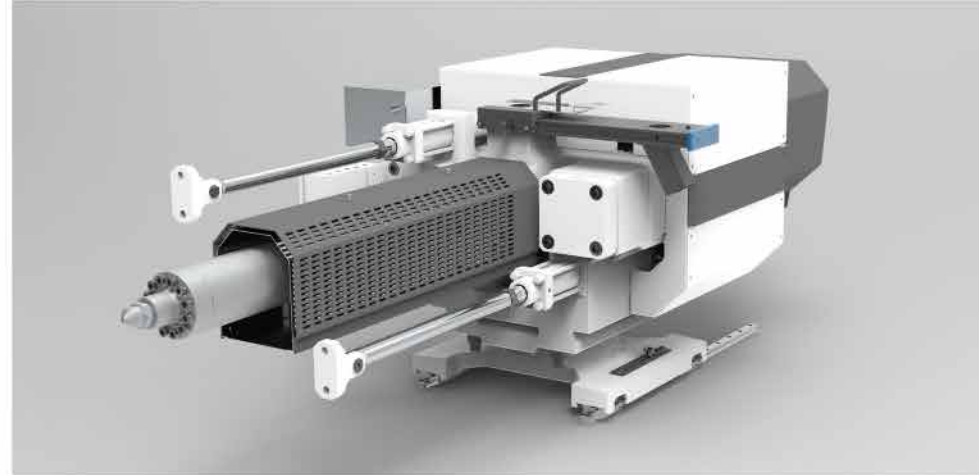
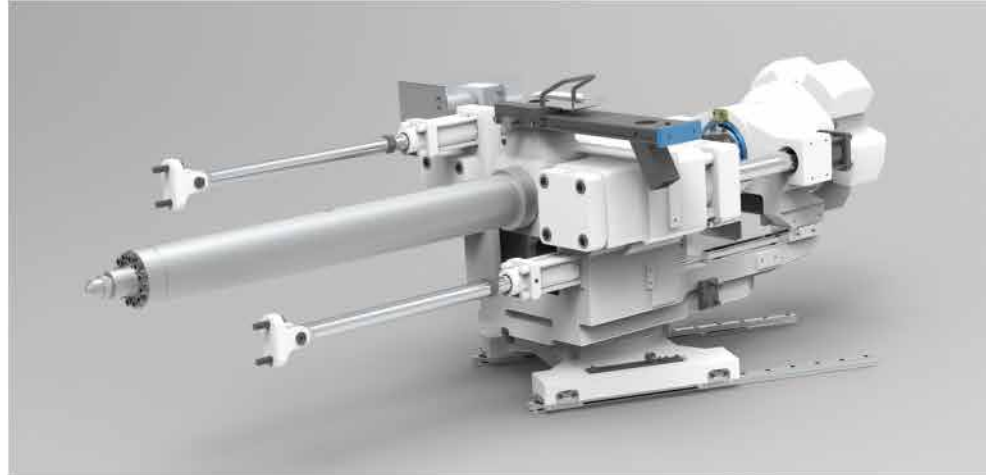
Precise linear guide rails, ensure a high precise injection;
Two layers designed injection unit, shorten the length of
injection unit support device, ensure less deformation
and higher precise injection and charging;

精确的直线导轨，确保高精度的注射；
双层注射装置，缩短注射支撑装置的长度，确保减
少变形，提高注射的精确度；



Swiveling Type + Two Layers Linear Guide Rails Injection Unit

旋转式+双层线性注射单元



Swiveling designed injection unit helps to change screw and barrel to be more easily.

Two layers linear guide rails helps to shorten the length of injection unit support device, less deformation of the support device, which helps to improve the injection precision.

One piece type injection unit support device, helps injection movement to be more precise.

Double injection cylinder system and the double oblique nozzle cylinder, make sure the injection smooth and stable under high pressure.

And we get National utility model patent certificate for the whole injection unit.

注射单元配备旋转设计，定期检查和更换料筒螺杆更加简单方便。

双层线性导轨的设计缩短注射支撑装置的长度，减少支撑装置变形的可能性，也大大提高了注射精度。

一体式注射支撑装置，帮助注射更精确。

采用双缸射胶系统，配合斜排双射移油缸，确保射胶动作平稳，同时有效杜绝因高压射胶时射座下沉造成的射胶部分部件损坏和漏胶现象。

整个注射部分获得国家实用新型专利证书。

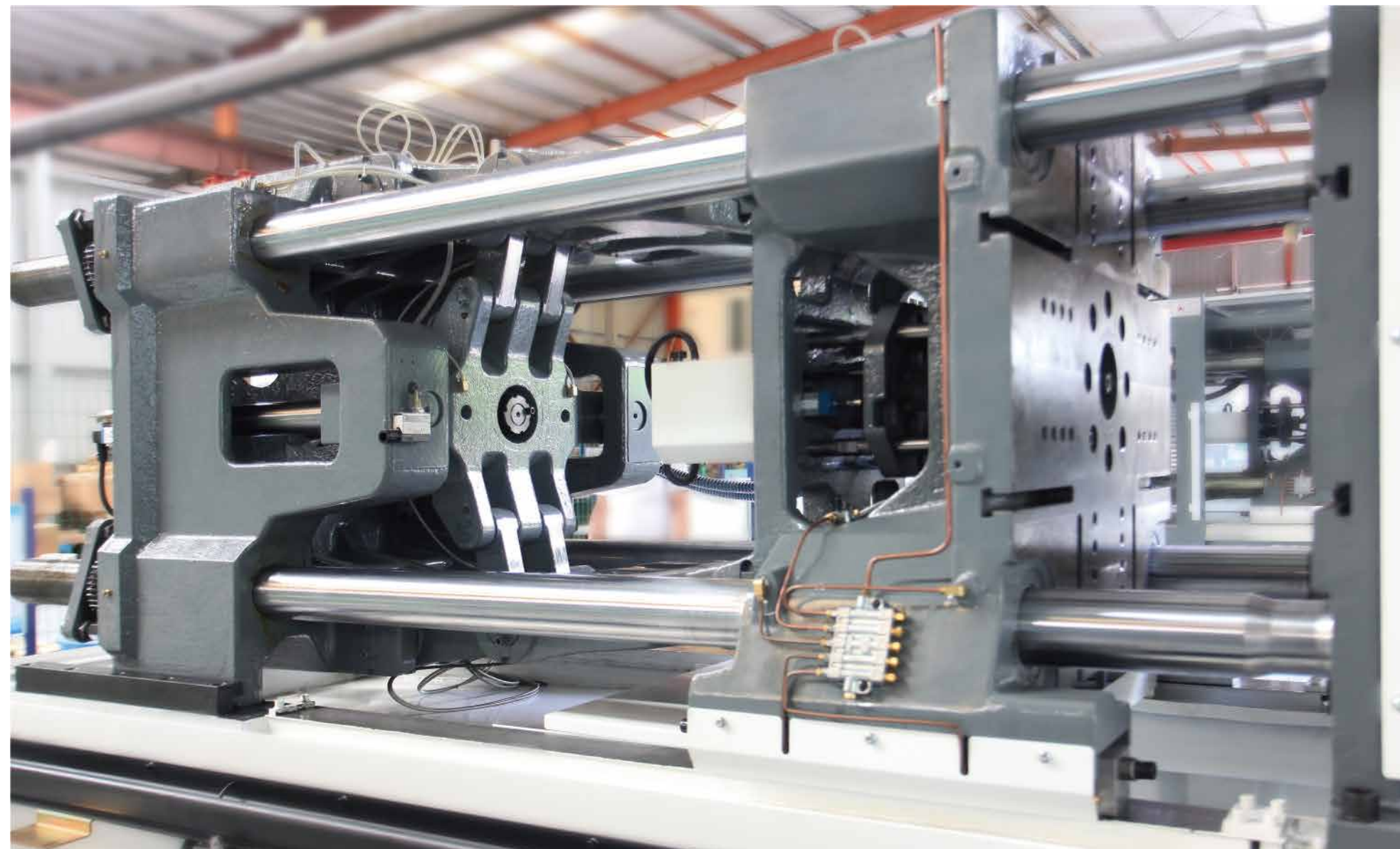
CLAMPING UNIT

锁模机构

The strong 3pcs designed structure cross platen and the strong moving device, ensure the cross plate a powerful and good balance opening force.

The strong moving device equipped with graphite bushes, mold open and close will be more smooth, and life-span will be longer.

Newly designed clamping unit, rigid cast platen-box design, with finite element analysis designed optimized moving platen ensures minimum deflection for maximum control and toggle linkage durability, making the clamping unit with the merits of high speed, stable and rigid.



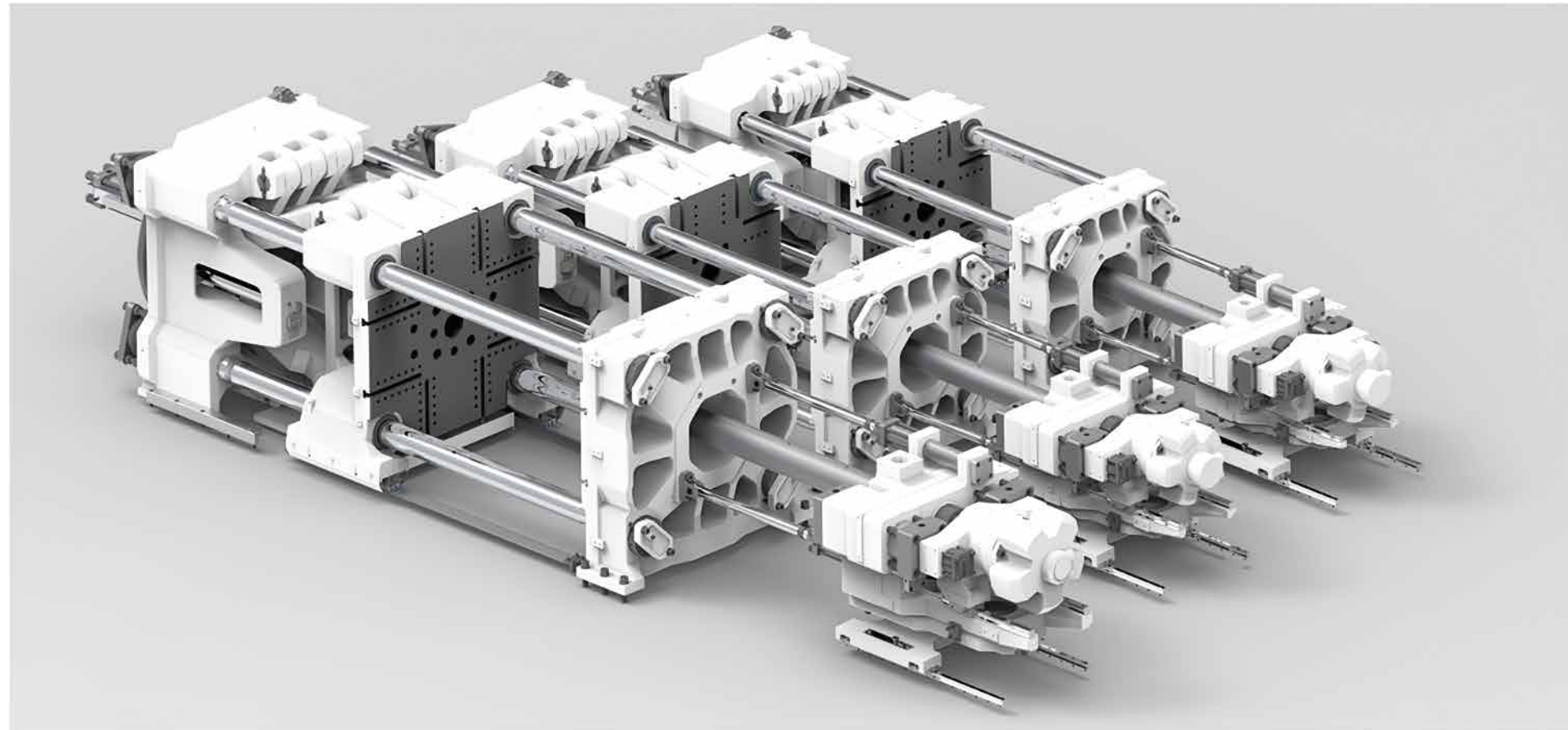
三大板以及整体连杆结构坚固，确保开合模有力平稳。

配备石墨套提高开合模的平稳，并且保证其寿命会更长。

锁模设计引入电脑仿真优化技术，并对所有部件进行有限元分析优化应力及变形量，使锁模机构具有运动平稳、快速、强度高、应力小、刚性好等优点。

CLAMPING UNIT

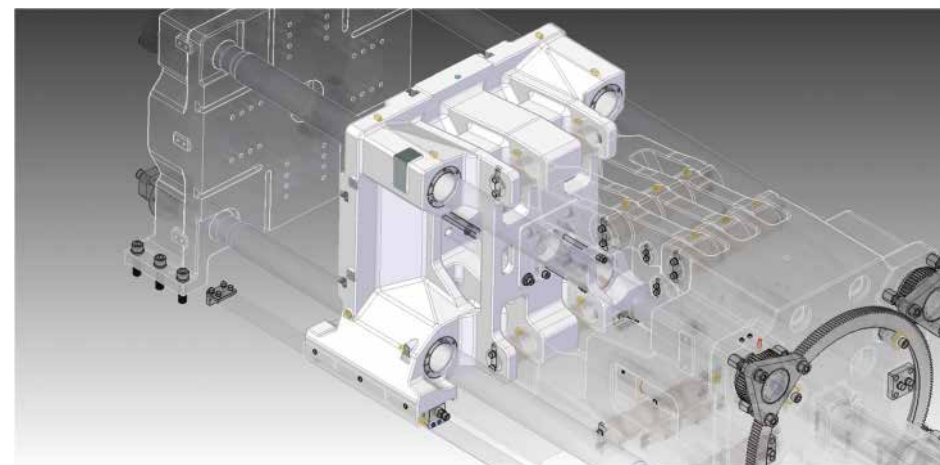
锁模机构



Wide range of clamping unit for specific applications, have more options to suit with different mold size.
宽窄模板的设计，可以适用于更多的模具尺寸



Round Designed Strengthen Ribs on Fixed Platen
定模板的整个设计采用的圆形的结构



Super Strong Moveable Platen Design
厚实的移动模板设计



Amazing robust tie-bars made by high quality material with double load groove design, and the strictest QC process ensure the life-span.

拉杆不但粗壮，并且采用最好的材料制造，配备卸荷槽设计以解除应力集中的问题，进行最严格的质量把控，确保拉杆的使用寿命。



Cross Plate And Strong Toggle Pin Design
整体厚实的连杆结构

Fast Response Hydraulic Circuit

高速响应的液压系统

Hydraulic safety valve equipped with position monitor is standard on Ferrimino.

合模标配带位置监控的液压安全阀，注塑机操作人员的安全得以进一步保障。



World famous hydraulic hose with safety chain, ensure less leaking risk, safe and clean.

液压油管采用世界知名品牌并且配备防爆链条，使得油管泄露的风险降到最低。



Proportion back pressure is standard, easier for back pressure setting. 采用知名品牌的背压阀。



Thanks to the cooperation with Famous hydraulic brand, the great experience and excellent hardware ware ensure our hydraulic control to be much more precise and stable.

与知名品牌深度的合作，他们丰富的经验和优秀的硬件确保了我们的液压控制更加精确和稳定。

Controller Unit - Equipped with Famous Brands 控制器单元-配备知名品牌

Ferrimino



New National
Safety Standard is
the Standard on
Ferrimino

最新的国家安全标准应用于AY系列的机器中

Optional Controller Brands to suit different requirements.
更多的控制器品牌可供选择，满足不同的需求。

You may like a higher level controller for more functions needs, check what we offer you for the optional controllers:

您可能喜欢更高级的控制器来满足更多的功能需求，我们为您提供更多的选择。

KEBA - EUROPE Standard

Other Countries Optional Cor

Standard Controller System:

KEBA: i1075 Series
CP: CP 033/T
OP: 10" Keypad panel

Integrated hot runner available: Max. 8 Zones



SERVO CONTROLLER PART 伺服控制部分

伺服节能注塑机的特点：

The Characteristics of Servo Saving for Injection Molding Machine

● 控制高精度

伺服系统可精确控制机器各动作的压力、速度和位置。确保射胶计量的重复精度误差≤0.3%，实现精密成型。

● 响应速度快

通过将电机矢量控制和电脑的正确匹配，使机器从零输出到最大输出量仅需0.05S，相比传统液压注塑机响应速度明显加快，缩短产品成型周期，提高生产效率。

● 运行噪音低

与传统机器的定量泵系统、变量泵系统对比，在绝大部分工况下噪音低1/10，在高速状态下整个系统的噪音小于80dB。更适合应用于密闭无尘车间生产。

● 高效节能

总效率比普通机提高10%左右，拖动能力提高18%左右。节能方面伺服机比传统机可节能30%~80%，达到一级能效。

● 节约冷却水

系统工况中避免高压卸荷，不存在多余的功率输出，可节约大量冷却水。

-High Precise Control

The servo System can control the machines' pressure, speed and location precisely makes sure that the error of accurate repeatability Precision for the shot measure is 0.3%. So that it can achieve the Precision Injection Molding Machine.

-High Sensitive Response

Because the motor vector is matched with the controller accurately, it just takes the 0.05S when input the number from 0 to max. Compared with other traditional hydraulic injection molding machine, AF series machine's speed is obviously more quickly, each cycle time is shorter, the production efficiency is higher.

-Low Noise

Compared with the traditional fixed pump and variable pump system, the noise will be lower 1/10 under normal circumstances. What's more, the noise of overall system will be less than 80dB when under the high-speed circumstances. So this series is more suitable for the sealed dustless workshop.

-Energy-Saving

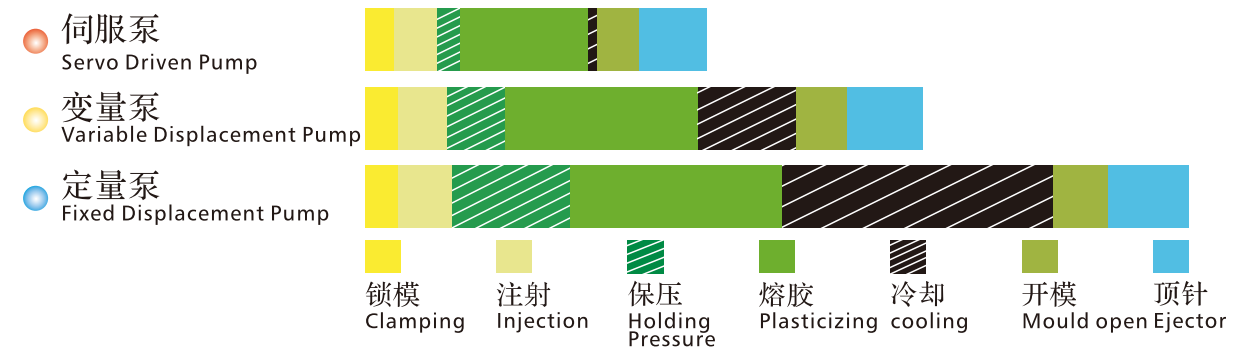
Overall efficiency is more 10% and the driving capacity is more 18% than the common machine. Related to the energy saving, this series Can save energy about 30%~80%, with the first-class energy efficiency.

-The Cooling Water Saving

The system condition prevent high pressure unloading without any power output leads to the cooling water saving.

耗能比较

ENERGY CONSUMPTION COMPARISON



AY系列参数表 | Specification

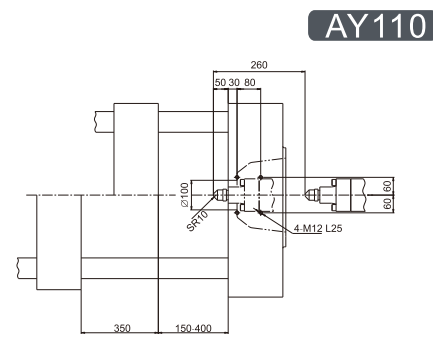
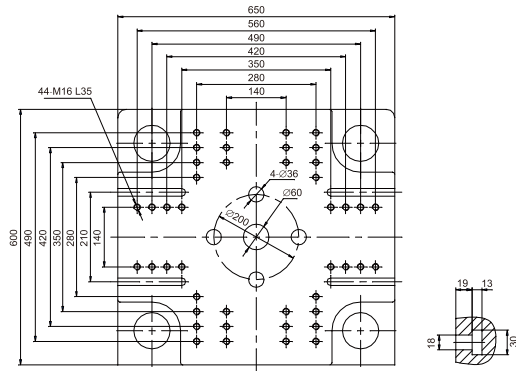
规格	SPECIFICATION	单位	AY110			AY150			AY180			AY230			AY280			AY350			AY420			AY550			
国际标准型号	international size rating	UNIT	350/110			480/150			680/150			950/230			1500/280			2400/350			3680/420			5080/550			
射胶系统 INJECTION UNIT			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	
螺杆直径	Screw diameter	mm	32	36	40	38	42	45	40	45	50	45	50	55	55	60	65	65	70	75	75	80	85	85	90	100	
螺杆长径比	Screw L/D ratio		23.8	21	19	22.4	20.2	18.9	24	21.3	19.2	23.8	21.4	19.4	23.6	21.6	19.9	22.6	21	19.6	22.4	21	19.6	22.3	21	18.8	
理论注射容积	Shot volume	cm³	144	183	226	238	290	333	288	365	451	413	510	617	712	847	995	1160	1346	1545	1766	2009	2268	2552	2861	3532	
实际注射量 (ps)	Shot weight(ps)	g	131	165	205	216	264	303	262	332	410	376	464	516	648	771	905	1056	1225	1406	1607	1828	2064	2322	2603	3214	
注射压力	Injection pressure	Mpa	239	189	153	232	190	165	234	185	150	230	186	154	211	177	151	207	178	155	209	184	162	199	178	144	
理论注射速率 (ps)	Injection rate	g/s	88	121	138	114	139	159	142	180	223	185	228	276	250	298	350	320	371	426	406	462	521	532	596	736	
螺杆行程	Screw stroke	mm	180			210			230			260			300			350			400			450			
螺杆转速	Screw speed(stepless)	rpm	0~240			0~230			0~230			0~210			0~200			0~185			0~180			0~135			
锁模系统 CLAMPING UNIT																											
锁模力	Clamping force	KN	1100			1500			1800			2300			2800			3500			4200			5500			
开模行程	Opening stroke	mm	350			400			450			520			560			670			760			850			
模板尺寸	Platen size	mmxmm	650X600			710X650			780X730			860X810			935X885			1070X1020			1150X1100			1270X1240			
拉杆间距	Space between tie bars	mmxmm	420X370			470X420			520X470			580X530			630X580			730X680			780X730			875X845			
模板最大距离	Max.daylight	mm	750			870			990			1090			1190			1370			1540			1750			
容模量(最薄-最厚)	Mold thickness(min.-max)	mm	150-400			180-470			190-540			210-570			250-630			280-700			300-780			350-900			
顶出行程	Hydraulic ejection stroke	mm	110			130			150			160			170			190			210			260			
顶出力	Hydraulic ejection force	KN	41			41			58			58			77			88			151			181			
其它 OTHERS																											
液压系统压力	Hydraulic system pressure	Mpa	17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			
油泵电机	Pump motor	KW	21			25			30			40			47.3			55.8			64.6			47.3+47.3			
伺服驱动器功率	Servo Drive Power	KW	15			18.5			30			30			37			45			55			37+37			
电热量	Heating capacity	KW	8.1			10			12.5			14			20.1			23.5			28			39			
油箱容积	Oil tank capacity	L	180			200			220			280			420			480			550			650			
外形尺寸 (LxWxH)	Machine dimensions	mxmxm	4.3x1.3x1.8			4.6x1.35x1.9			4.9x1.42x1.9			5.3x1.5x1.95			6.1x1.6x2.1			7.0x1.7x2.3			7.3x1.85x2.4			9.1x2.0x2.6			
理论机重	Machine weight	ton	4.1			5.1			6.8			8.2			10.5			13.5			18			27			

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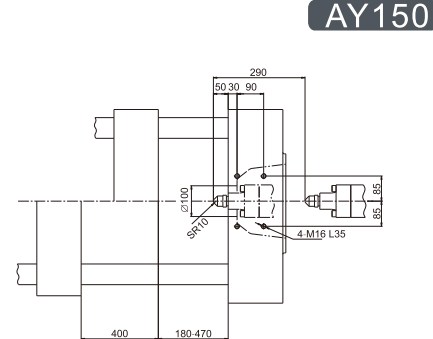
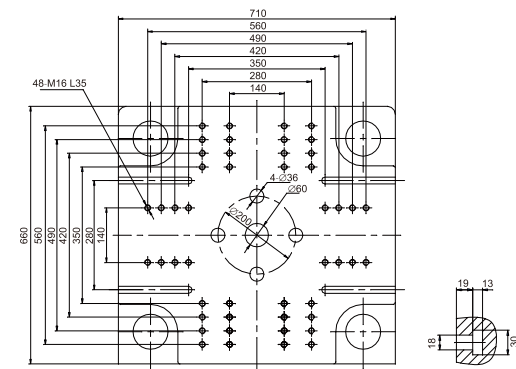
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模板正面尺寸
Platen dimensions

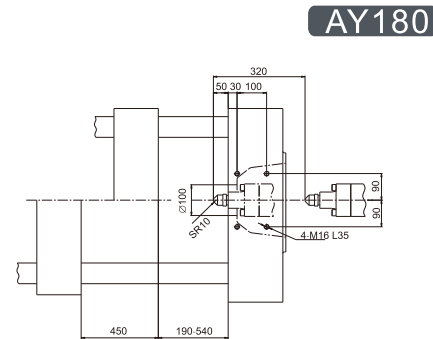
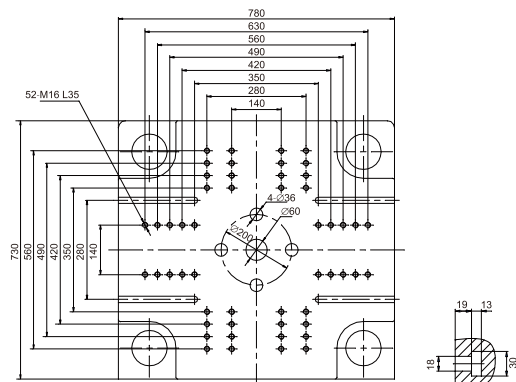
模板侧面尺寸
Platen dimensions



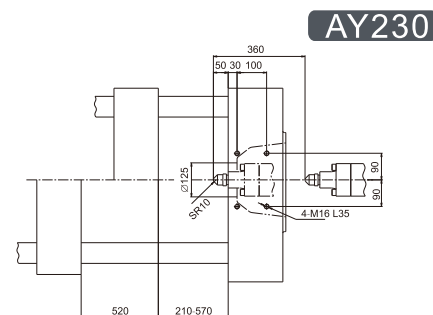
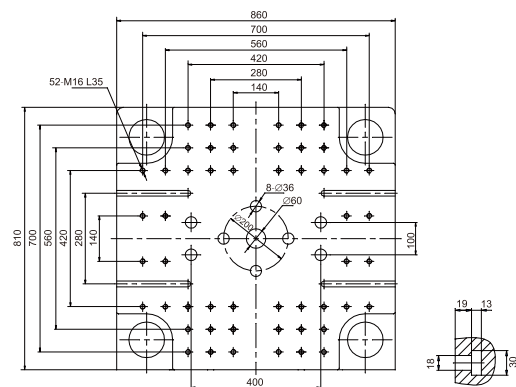
AY110



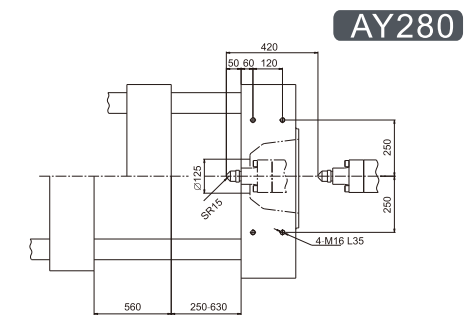
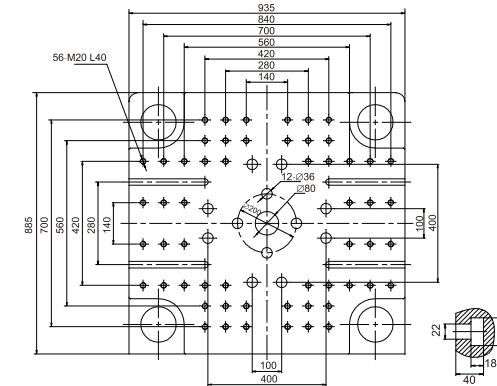
AY150



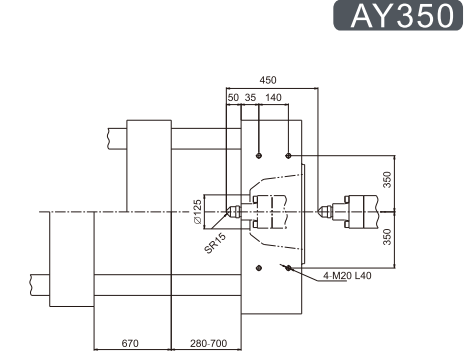
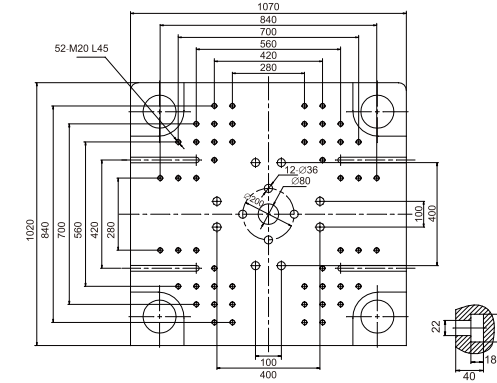
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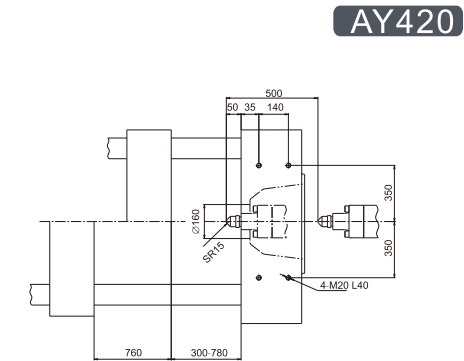
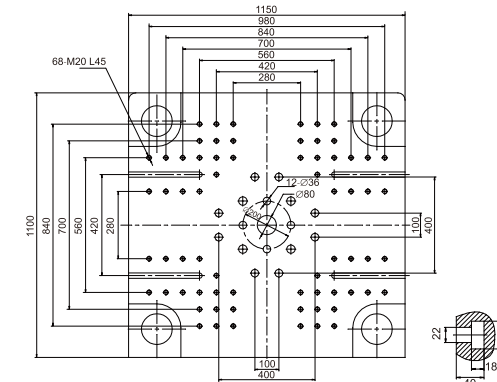
AY230



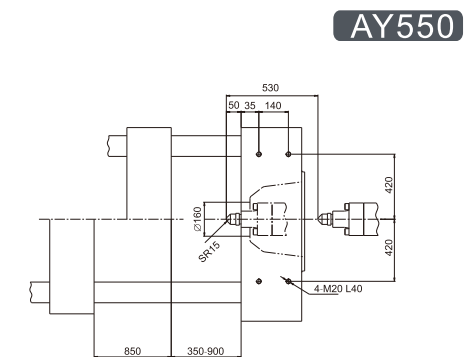
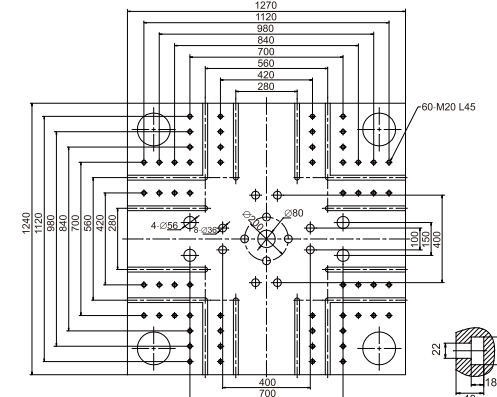
AY280



AY350



AY420



AY550

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