

ARLEX 亚力士

YALISHI PLASTIC MACHINERY

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**NINGBO YALISHI
PLASTIC MACHINERY
CO.,LTD.**

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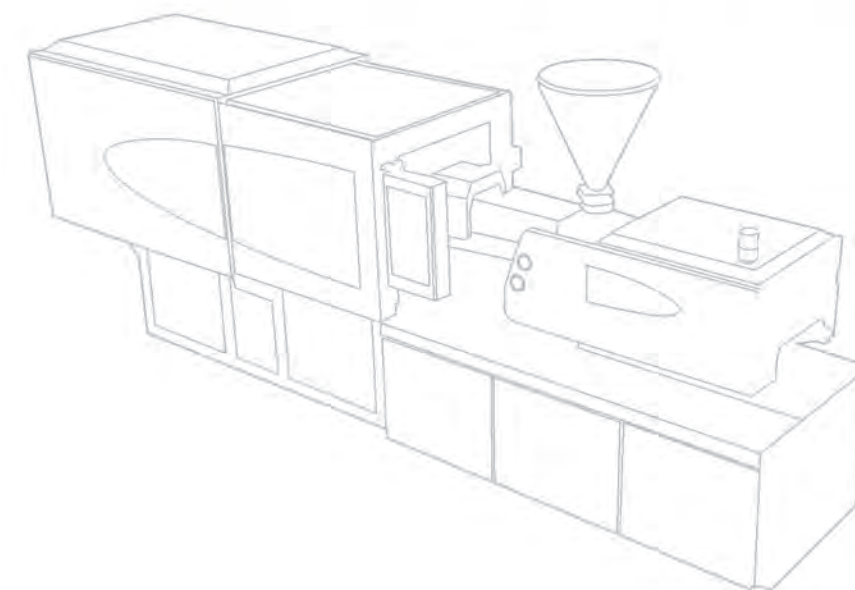
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ARLEX 亚力士



高精密度注塑机·在线目录

High-precision injection molding machine



企业简介

宁波亚力士塑料机械有限公司是一家面向全球集研发、制造、销售和服务为一体的新型高精密注塑机专业制造商，目前拥有加工中心与组装车间两大生产基地。占地面积超过25000平方米，为产品的制造提供了强有力的基础。

公司研发生产的机种包括伺服节能精密注塑机、变量泵节能注塑机、高速精密注塑机、YPVC和PET专用注塑机等产品。并根据用户需要进行产品的个性化制定，提供特殊制品的解决方案。在医疗器械、电子设备、日用品等领域备受肯定。我们推崇服务至上的理念，为用户的极致体验竭尽所能。

车间组装过程中，在高要求、高素质的工人努力下，不仅保证生产工艺和产品质量的稳定性，且靠着严谨的责任心为公司创造着最大的价值，做到精益求精、追求卓越的质量意识。因为我们坚信，精良的材料，加工，组装，试机和检验是衡量注塑机至要的标准。

凭鉴先进的营销模式，亚力士目前已建立覆盖北京、上海、浙江、江苏等全国30多个城市的营销体系，产品设备远销四大洲，在美国、土耳其、葡萄牙、巴西、墨西哥等20多个国家建立国外代理机制与客户群体，向全球用户提供高品质的设备和最快捷的技术服务。

我们希望通过坚持不懈的努力，贯彻持之以恒的信念，为全球更多国家和地区的企业输送高品质中国制造，与客户一同成长，携手共进。朝着智慧型工业4.0的目标持续向前，为亚力士的未来翻开新的篇章。



ABOUT US

Ningbo Yalishi(Arlex) Plastic Machinery Co.,Ltd. is a professional manufacturer of new high-precision injection molding machine in China, which integrating research and development, manufacturing, sales and service for the world wide users. With more than 25,000 square meters spaces, two major production bases of processing center and assembling workshop provide the powerful foundation for the manufacture of the product.

The machines researched and produced by Arlex currently include the servo energy-saving precision injection moulding machine, high-speed precision injection moulding machine, YPVC and PET special injection molding machine, etc. The personalized formulation for the product can be made according to the user's requirements to provide the systematic solution of special products. The fields of medical equipment, electronic equipment, household goods and others are highly popular among our clients. We praise the concept of supreme—oriented, and try our best for the user's perfect experience.

Via the efforts from staff, the process of workshop assembling is not only guarantee the stability of product, but also creates the biggest value for the company. We believe the excellent material, processing, assembly, test and inspection are the crucial standards to measure the injection molding machine.

In the view of advanced marketing pattern, Arlex has established the marketing system covering more than 30 cities domestic. Also has established the foreign agent and customer group more than 20 countries including U.S, Turkey, Portugal, Brazil, Mexico, and South East Asia with high-quality equipment and most efficient technical service for the global users.

We hope to make great machine via the unremitting efforts and persistent belief for more enterprises world-widely, grow up with the customer and move forward together. We will continue improving ourselves towards the goal of intelligent industry 4.0, and open the new chapter for the future.



www.arlex.cn





NINGBO YALISHI PLASTIC MACHINERY



YALISHI (ARLEX) Plastic Machinery Co., Ltd owns a range of advanced processing equipment, so we can guarantee the good quality and fast delivery for the work-pieces manufactured by ourselves. We provide extended space for our customers in specification design and it is easy for us to produce special products based on customer's request. Continuous R & D developing in order to apply into new technology will be our important goal in the future.

亚力士拥有各式先进的加工设备，对自主生产零部件均能掌握其品质以及提供高效快捷的交货速度。在规格设计上为客户提供更大的弹性空间，针对个性化特殊定制亦可轻易完成。不断的研发创新，致力于新科技的导入，是我们未来阶段的一个重要目标。

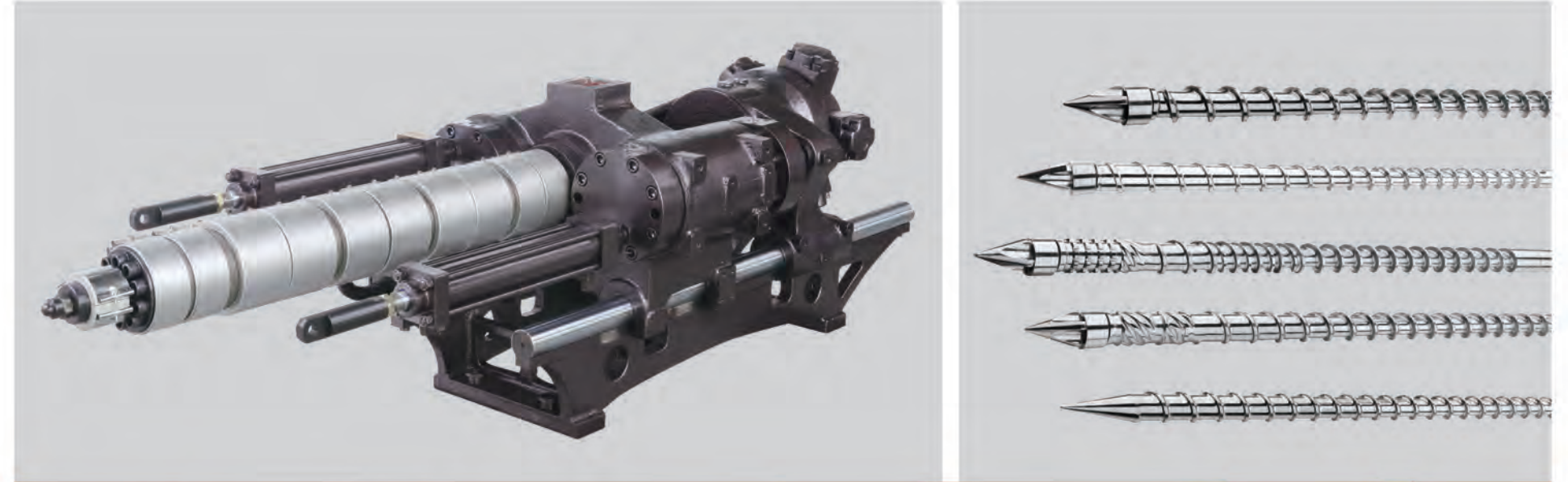
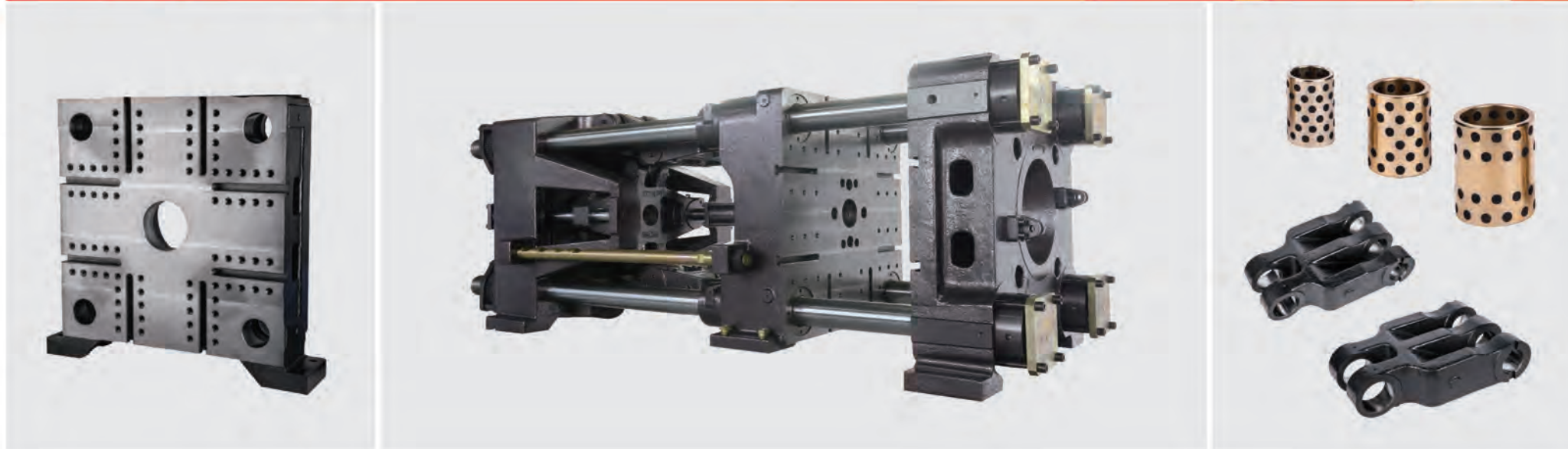
General view of the workshops 车间掠影



- Reinforce the clamping unit which can meet the production demands of efficiency and fastness.
- The superior characteristic of mold close and open will running faster and more stable.
- Five-support crankshaft structure is applied with good rigidity and high fitting precision.
- Professional optimization design template with advanced finite element analysis software to optimize design, high rigidity, high strength, therefore to meet the demand of fast collision condition.

- 更加强化的锁模机构满足高效和快速的生产需求。
- 优越的开合模特性，运行更快更平稳。
- 五支点肘杆机构经先进电脑优化，模板、支架采用连体结构，刚性好，装配精度高。
- 专业模板优化设计，模板经先进有限元分析软件优化设计，高刚性，高强度，满足快速、冲击工况需求。

Clamping System 锁模系统



Injection System 注射系统

- High strength mechanism structure design to make sure long-term precision.
- Double cylinder balancing injection mechanism makes the injection unit reliable and pressure powerful.
- Precision transducer control on material injection, molten stroke.
- Professional plasticizing which is suitable for a variety of raw materials to produce professional goods with dedicated heating power equipment, which significantly improve the plasticizing performance.
- Special designed screw of PET, PC, PMMA, PVC, PA, PPS, etc.

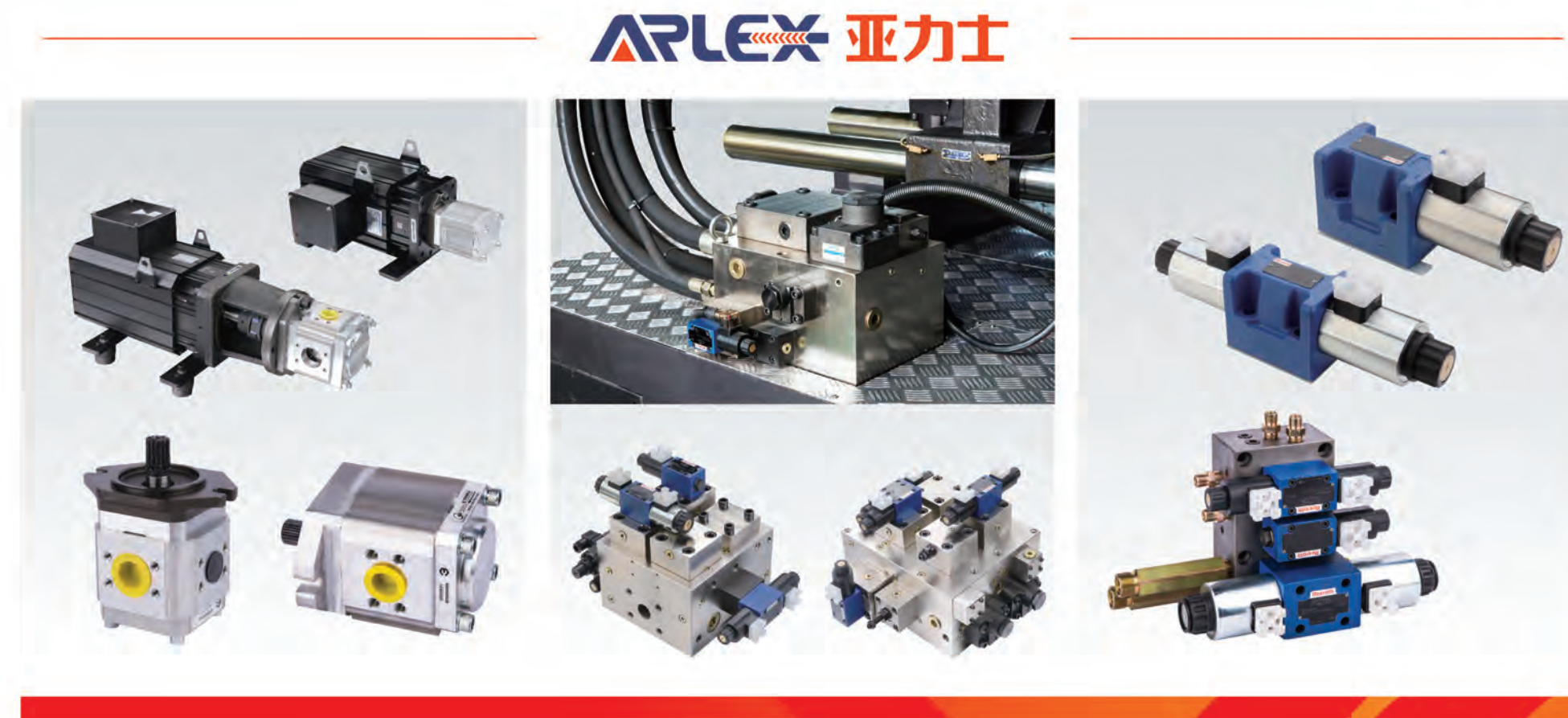
- 高强度的机械结构设计，保障持久精度
- 双缸平衡式注射结构使注射可靠、压力强劲
- 精密电子尺控制注射、熔胶行程
- 专业的塑化单元适合多种原料生产专业塑化单元，专用的加热功率装置，显著地提高塑化性能。
- 针对不同的塑料种类以及加工的产品特征，可提供专用型的螺杆以满足客户的需求；如：UPVC、PMMA、PA、PC、CP、PPS、PET等。



高品质电液装置

GHHigh-quality electro-hydraulic device

- Powerful and humanized controlling system adopts special controller with a new man to machine interface which provide easy operation, improve operation speed, good reliability and great expansibility.
- High-quality electrical components to enhance hardware loop, improve anti-interference ability and become more reliable and stable.
- High precision computer combine with driver to make economic efficiency, to overall increase the speed by more than 20% for machine running, in order to make higher efficiency and cavity forming stability.
- 采用注塑机专用电脑，大屏幕高清晰液晶显示，人机对话方便操作，CPU运算速度快，可靠性好，具有扩展性。
- 高品质电器元件，强化硬件回路，抗干扰能力更强，运行更可靠，更稳定。
- 高精密电脑控制器和伺服驱动器结合，经济效率高。整体速度提升20%以上，行机效率更高，令多模穴成型更稳定。



- Hydraulic unit consist using of the world famous brand, like oil pump, control valve, motor to make more outstanding performance of pressure supporting. Ensure the machine accuracy, reliability, stability, and durability and low noise environmental features.
- 液压单元由世界著名品牌油泵与液压阀组成，压力承受性能更卓越，更有效保障机器的准确性、可靠性、稳定性和耐用性，并且具有低噪音性等环保特性

High-performance servo system

1.Super Energy Saving

Output power change by changing of the load, no more excess energy wasted. In the holding pressure stage, the servo motor will reduce speed with lower energy consumption; during the cooling down period, the motor will not operate with zero power consumption. Compared with the ordinary injection molding machines, it can be saved 30% - 80% of power.

2.High Precision and High Stability

Installed with precise pressure sensor, rotary encoder and pressure transducer, it can respectively monitor and control on flow and pressure. Based on the feedback, the high performance synchronous servo motor will adjust flow and pressure according to change the speed and torque. The closed-loop control can ensure the stability of product quality.

3.High Response and High Efficiency

The driving system responses with high sensitivity. It takes only 0.05 seconds to reach maximum value. The response speed is much more faster than the ordinary injection molding machines. In this way, it significantly reduced the cycle time and increase the production efficiency.

节能百分之三十到八十



AX伺服节能注塑机

AX series servo energy-saving injection molding machine

高性能的伺服电机动力控制系统

1、超强节能

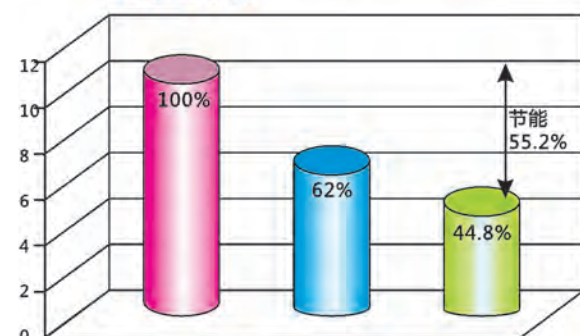
输出功率随负载变化而变化，不存在多余能量的浪费，保压阶段伺服电机低速运转，耗能极低，冷却阶段电机不工作，耗电为零。与普通注塑机相比，节能达30%-80%。

2、精密、稳定

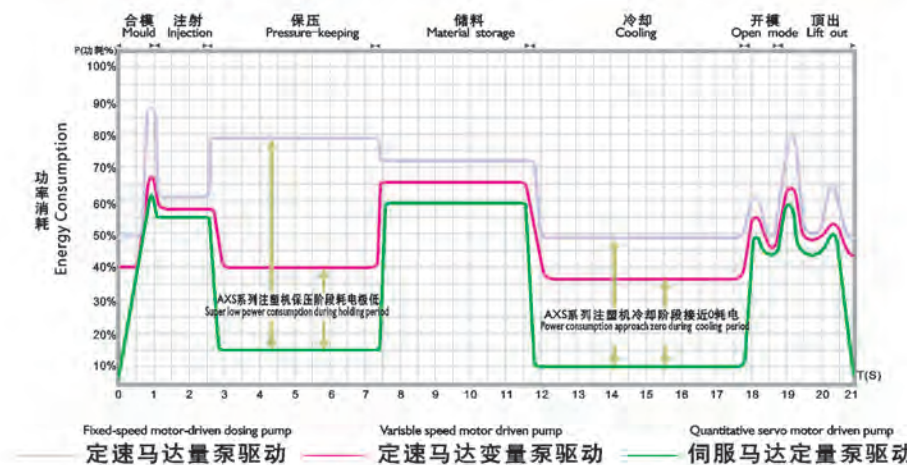
配备高精度、高灵敏旋转编码器、压力传感器，分别对流量与压力进行监控与反馈。依据反馈信息，高性能同步伺服电机通过改变转速和扭矩对流量与压力进行相应调整，形成高精闭环控制，从而确保产品质量的稳定。

3、高效应、高效率

伺服节能注塑机的驱动系统响应灵敏迅速，仅需0.05秒即可达到最大输值。响应速度远远快于普通注塑机驱动系统，从而显著地缩短了成型周期，生产效率得到大幅度提高。

Power Consumption/perhour
耗电量/小时

根据产品不同最高节能可达80%
Energy saving can attain by 80% according to different products

传统定量泵液压注塑机
Fixed-pump machine开环变量泵注塑机
Variable pump machine伺服节能注塑机
Servo machineThe comparison of different systems power consumptions
系统功率消耗比照

Servo-motor injection molding machine is energy-saving and loaded with high-performance servo motor power control system; its power output can vary with load change, which makes no excess energy loss; the servo motor automatically reduces rotation speed at the stage of pressure holding and without working at the stage of cooling, which will save energy and water consumption, improve injection accuracy, and reduce the noise.

伺服节能注塑机装载了高性能的伺服电机动力控制系统，伺服电机输出的功率随负载变化而变化，不存在多余能量的损耗，保压阶段电机降低转速，能耗极低，冷却阶段电机不工作，能耗为零，提高注射精度的同时，大幅度节电、节水、降低噪音。真正实现了液压注塑机的一次全新革命。

Comparing with traditional machine, AX servo series can save more than 50% of power which is equal to full electrical machine, energy saving is obvious during pressure hold & cooling stage.

耗电电力是传统液压注塑机的50%以下，与全电动注塑机同等，特别在保压、冷却阶段，节能效果尤为突出。



应用领域 Application Field

注塑机具有能一次成型外型复杂、尺寸精确或带有金属嵌件的质地密致的塑料制品的能力，被广泛应用于国防、机电、汽车、交通运输、建材、包装、农业、文教卫生及人们日常生活各个邻域。在塑料工业迅速发展的今天，注塑机不论在数量上或品种上都占有重要地位。

Injection Molding Machine have the ability of forming complex, accurate size or plastic with metal components into a final product. It is now widely applied in national defense, electrical product, automobile industry, transportation field, building materials, packaging, education, etc. in the current society. Nowadays, injection molding machine have an essential position in the plastic industry which with a rapid development.



AX款精密注塑机

AX Series High-precision Injection Machine



The hydraulic system of machines with clamping force over 2500KN are equipped with famous brand cartridge valve and accessories which leads to smooth and sensitive mechanical movements.

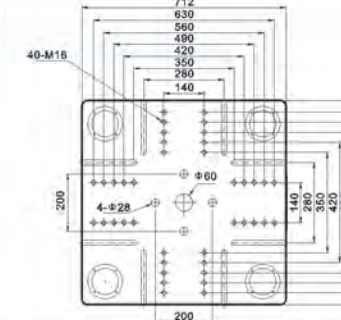
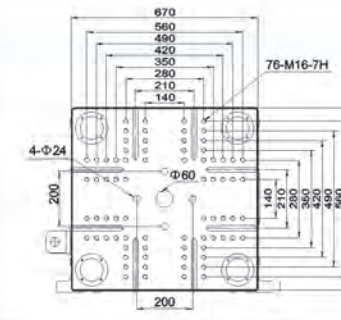
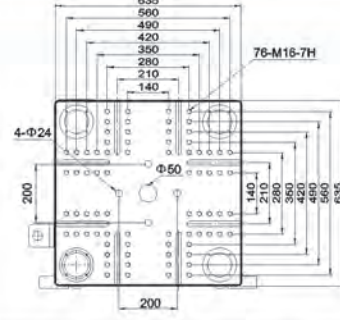
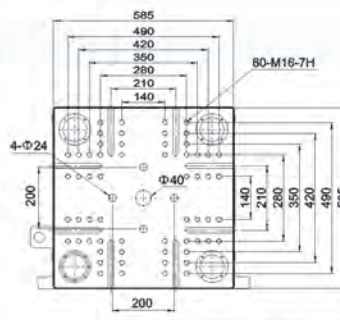
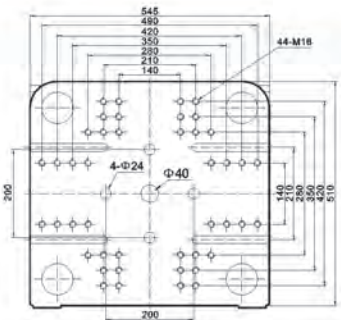
大中机采用插装阀液压系统，机器动作平稳、灵敏。应用国际品牌液压元件，确保使用可靠。

说明: 由于产品改进，技术参数的变更，恕不另行通知。
Remark: We reserve the right to make any technical improvements without prior notice.

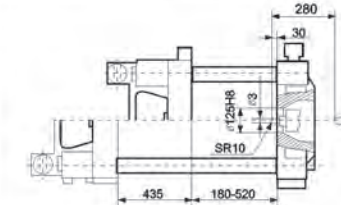
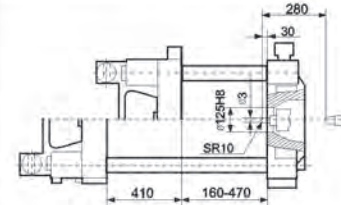
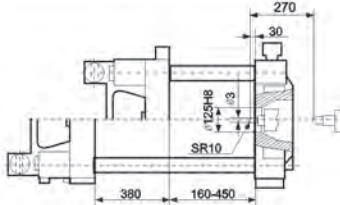
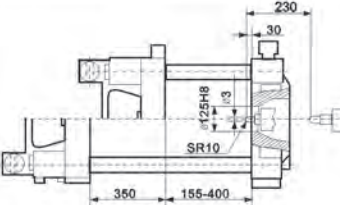
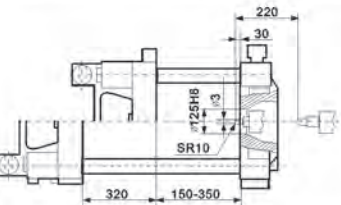
AX系列技术规格参数表 AX Series Technical Specifications

规格 SPECIFICATION			AX-90			AX-120			AX-140			AX-158			AX-178		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射配置	INJECTION UNIT																
螺杆直径	Screw Diameter	(mm)	32	35	38	35	38	42	38	42	45	42	44	48	42	45	50
螺杆长径比	Screw L/D Ratio	(L/D)	22	20.1	18.5	22	20.2	18.4	23.2	21	19.6	22.5	21	19.7	23.6	22	19.8
理论注射容量	Shot Size(Theoretical)	(cm ³)	135	162	192	165	197	238	226	277	318	277	304	361	308	353	436
注射重量	Injection Weight(PS)	(g)	123	147	175	150	179	217	206	252	289	252	276	328	280	321	397
注射速率	Injection Rate	(g/s)	90	108	128	85	101	123	115	138	159	148	165	196	140	160	198
注射压力	Injection Pressure	(Mpa)	203	170	144	219	186	152	205	170	147	170	155	131	203	177	143
螺杆转速	Screw Speed	(rpm)		0-250			0-215			0-220			0-250			0-200	
合模装置	CLAMPING UNIT																
锁模力	Clamp Tonnage	(KN)		900			1200			1400			1580			1780	
移模行程	Toggle Stroke	(mm)		320			350			380			410			435	
拉杆内间距	Space Between Tie Bars	(mm)		360*330			380*380			420*420			455*440			470*470	
最大模厚	Max.Mold Height	(mm)		350			400			450			470			520	
最小模厚	Min.Mold Height	(mm)		150			155			160			160			180	
顶出行程	Ejector Stroke	(mm)		90			100			120			120			135	
顶出力	Ejector Tonnage	(KN)		30			38			38			38			50	
其他	OTHERS																
最大油泵压力	Max.Pump Pressure	(Mpa)		16			16			16			16			16	
伺服电机功率	Pump Motor Power	(Kw)		12			12			18.2			18.2			18.2	
电热功率	Heater Power	(Kw)		6.8			7.45			8.9			10			10.35	
外型尺寸	Machine Dimension(LXWXH)	(m)		3.90*1.19*1.80			4.32*1.27*1.90			4.64*1.40*2.0			4.85*1.40*2.10			5.15*1.43*2.15	
机器重量	Machine Weight	(t)		2.8			3.1			3.6			4.4			5.2	
油箱容积	Oil Tank Capacity	(L)		140			160			170			200			250	

模板正面尺寸
Movable Platen
Dimension



模板侧面尺寸
Platen Side Size

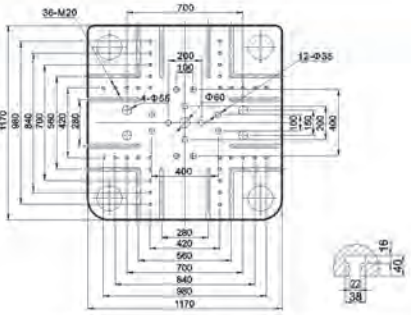
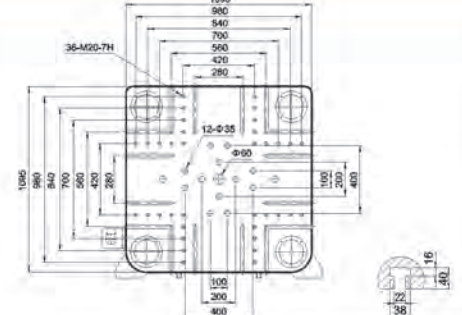
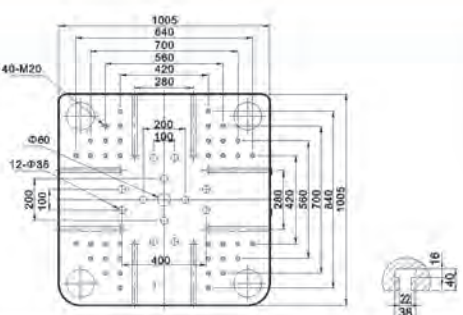
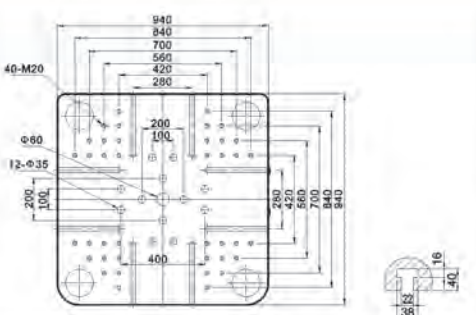
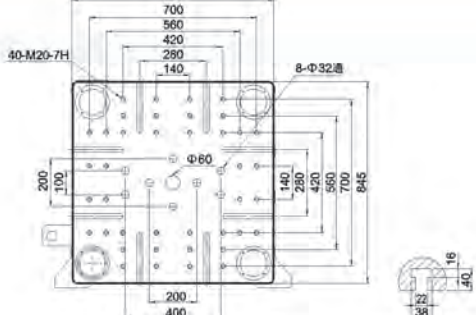
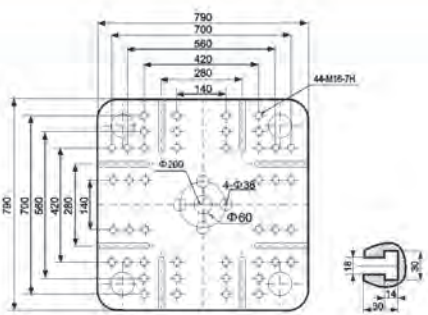


机械手安装尺寸
Robot Installation Dimension

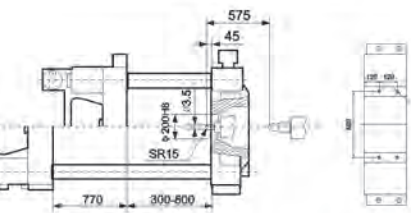
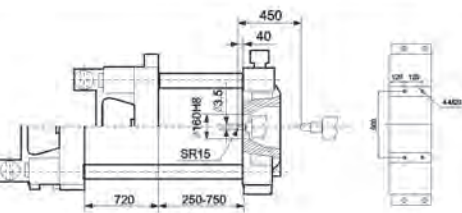
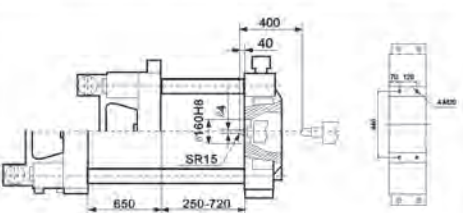
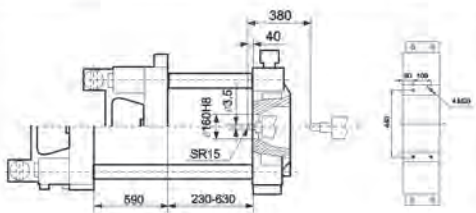
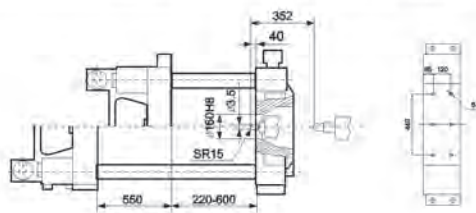
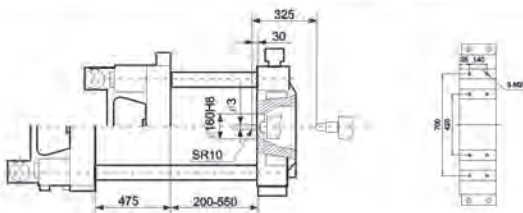
AX系列技术规格参数表 AX Series Technical Specifications

规格 SPECIFICATION			AX-218			AX-278			AX-318			AX-358			AX-408			AX-478		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射配置	INJECTION UNIT																			
螺杆直径	Screw Diameter	(mm)	45	50	55	55	60	65	55	60	65	60	65	70	70	75	80	75	80	85
螺杆长径比	Screw L/D Ratio	(L/D)	23.3	21	19.1	23	21	19.4	23	21	19.4	22.8	21	19.5	22.5	21	19.7	22.4	21	19.8
理论注射容量	Shot Size(Theoretical)	(cm3)	358	441	535	651	775	909	700	834	978	905	1060	1229	1366	1567	1786	1723	1960	2213
注射重量	Injection Weight(PS)	(g)	326	406	492	592	705	827	637	759	890	823	964	1118	1243	1426	1625	1568	1784	2014
注射速率	Injection Rate	(g/s)	170	210	255	220	265	310	220	265	310	250	296	344	313	360	411	385	440	500
注射压力	Injection Pressure	(Mpa)	210	168	140	196	164	140	196	164	140	206	176	152	199	173	152	186	164	145
螺杆转速	Screw Speed	(rpm)		0-205			0-195			0-200			0-165			0-160			0-160	
合模装置	CLAMPING UNIT																			
锁模力	Clamp Tonnage	(kN)		2180			2780			3180			3580			4080			4780	
移模行程	Toggle Stroke	(mm)		475			550			590			650			720			770	
拉杆内间距	Space Between Tie Bars	(mm)		520*520			580*580			630*630			680*680			730*730			780*780	
最大模厚	Max.Mold Height	(mm)		550			600			630			720			750			800	
最小模厚	Min.Mold Height	(mm)		200			220			230			250			250			300	
顶出行程	Ejector Stroke	(mm)		140			140			150			160			180			200	
顶出力	Ejector Tonnage	(kN)		70			70			70			90			90			110	
其他	OTHERS																			
最大油泵压力	Max.Pump Pressure	(Mpa)		16			16			16			16			16			16	
伺服电机功率	Pump Motor Power	(Kw)		23			31			36			36			40			67	
电热功率	Heater Power	(Kw)		13.6			16.5			16.5			18.6			26			31	
外型尺寸	Machine Dimension(LXWXH)	(m)		5.50*1.50*2.20			6.20*1.64*2.25			6.60*1.78*2.30			7.50*1.92*2.40			8.35*2.00*2.50			9.15*2.13*2.60	
机器重量	Machine Weight	(t)		6.6			7.6			9.6			11.6			15.5			18.4	
油箱容积	Oil Tank Capacity	(L)		300			350			450			600			685			715	

模板正面尺寸
Movable Platen
Dimension

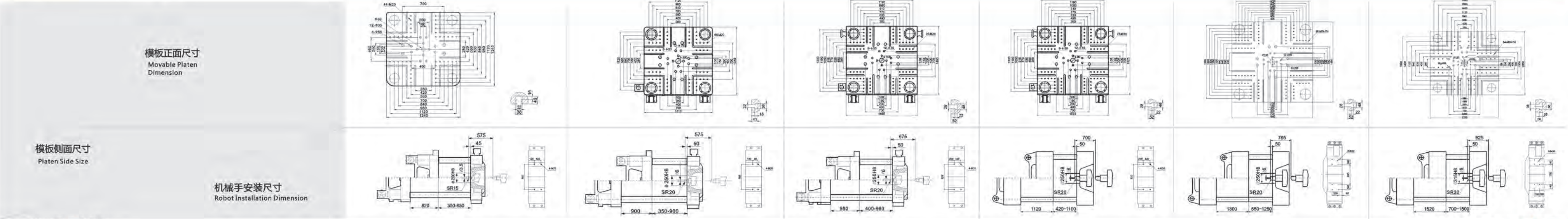


模板侧面尺寸
Platen Side Size



机械手安装尺寸
Robot Installation Dimension

规格 SPECIFICATION			AX-568			AX-658				AX-788				AX-988				AX-1280				AX-1680			
			A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
注射配置	INJECTION UNIT																								
螺杆直径	Screw Diameter	(mm)	80	85	90	85	90	95	100	90	95	105	110	90	100	110	120	110	120	130	140	120	130	140	150
螺杆长径比	Screw L/D Ratio	(L/D)	22.3	21	19.8	22	21	20	18.9	23.2	22	19.8	19	24	22	20	18.3	24	22	20.3	18.8	23.8	22	20.4	19
理论注射容量	Shot Size(Theoretical)	(cm ³)	2210	2498	2800	2553	2862	3189	3534	2990	3331	4070	4466	3180	3926	4751	5654	5545	6600	7746	8982	7057	8282	9605	11026
注射重量	Injection Weight(PS)	(g)	2011	2273	2548	2323	2604	2902	3215	2721	3032	3703	4064	2894	3573	4324	5145	5046	6006	7049	8173	6422	7537	8741	10034
注射速率	Injection Rate	(g/s)	430	482	546	470	526	587	651	574	640	781	859	558	690	835	992	716	867	1031	1223	893	1052	1224	1405
注射压力	Injection Pressure	(Mpa)	184	163	145	184	165	149	135	195	175	143	130	228	184	152	128	203	170	145	125	192	164	141	123
螺杆转速	Screw Speed	(rpm)		0-155			0-140				0-130				0-110				0-90				0-85		
合模装置	CLAMPING UNIT																								
锁模力	Clamp Tonnage	(kN)		5680			6580				7880				9880				12800				16800		
移模行程	Toggle Stroke	(mm)		820			900				980				1120				1300				1520		
拉杆内间距	Space Between Tie Bars	(mm)		830*830			880*880				980*980				1080*1080				1300*1250				1500*1350		
最大模厚	Max.Mold Height	(mm)		850			900				960				1100				1250				1500		
最小模厚	Min.Mold Height	(mm)		350			350				400				420				550				700		
顶出行程	Ejector Stroke	(mm)		230			250				280				300				330				400		
顶出力	Ejector Tonnage	(kN)		150			150				210				210				245				350		
其他	OTHERS																								
最大油泵压力	Max.Pump Pressure	(Mpa)		16			16				16				16				16				16		
伺服电机功率	Pump Motor Power	(Kw)		36+36			36+36				36+40				55+55				36+36+36				36+36+36+36		
电热功率	Heater Power	(Kw)		34.5			42				46				55.5				74.5				95.2		
外型尺寸	Machine Dimension(LXWXH)	(m)		9.42*2.20*2.90			9.90*2.25*2.90				10.90*2.40*3.45				11.80*2.50*3.55				12.20*2.90*4.0				14.20*3.50*4.20		
机器重量	Machine Weight	(t)		22			26				35				46				63				100		
油箱容积	Oil Tank Capacity	(L)		950			1000				1150				1250				1500				2000		



AX-水果框系列参数表

AX-Fruit Crate Series Injection Molding Machine Specifications

规 格 SPECIFICATION			AX-408	AX-478	AX-568
注射配置 INJECTION UNIT					
螺杆直径	Screw Diameter	mm	90	95	100
理论注射容量	Shot Size (Theoretical)	cm³	2256	2764	3455
注射重量	Injection Weight(PS)	g	2052	2515	3144
注射速率	Injection Rate	g/s	592	674	746
注射压力	Injection Pressure	Mpa	120	121	120
螺杆转速	Screw Speed	rpm	0-165	0-155	0-156
合模装置 CLAMPING UNIT					
锁模力	Clamp tonnage	KN	4080	4780	5680
移模行程	Tonnage Stroke	mm	720	770	820
拉杆内间距	Space Between Tie Bars	mm	730*730	780*780	830*830
最大模厚	Max.Mold Height	mm	750	800	850
最小模厚	Min.Mold Height	mm	250	300	350
顶出行程	Ejector Stroke	mm	180	200	230
顶出力	Ejector Tonnage	KN	90	110	150
其他 OTHERS					
最大油泵压力	Max.Pump Pressure	Mpa	16	16	16
油泵马达	Pump Motor Power	KW	45	55	55
电热功率	Heater Power	KW	26	31	34.5
外型尺寸	Machine Dimension(L*W*H)	m	7.60*2.00*2.45	8.16*2.13*2.52	9.23*2.20*2.70
机器重量	Machine Weight	t	15.5	18.4	22
油箱容积	Oil Tank Capacity	L	750	850	1000

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
Remark: We reserve the right to make any technical improvements without prior notice.

AX-PET瓶坯专用机系列参数表

AX-PET Series Injection Molding Machine Specifications

规 格 SPECIFICATION			AX-178 PET	AX-218 PET	AX-278 PET	AX-358 PET	AX-408 PET	AX-478 PET
注射配置 INJECTION UNIT								
螺杆直径	Screw Diameter	mm	55	65	75	80	85	90
理论注射容量	Shot Size (Theoretical)	cm³	528	744	1210	1605	2014	2480
注射重量	Injection Weight	g	605	852	1385	1838	2306	2840
注射速率	Injection Rate	g/s	356	486	561	615	714	765
注射压力	Injection Pressure	Mpa	118	103	112	116	113	120
螺杆转速	Screw Speed	rpm	0-185	0-175	0-170	0-165	0-165	0-125
合模装置 CLAMPING UNIT								
锁模力	Clamp tonnage	KN	1780	2180	2780	3580	4080	4780
移模行程	Tonnage Stroke	mm	435	475	550	650	720	770
拉杆内间距	Space Between Tie Bars	mm	470×470	520×520	580×580	680×680	730×730	780×780
最大模厚	Max.Mold Height	mm	520	520	600	720	750	800
最小模厚	Min.Mold Height	mm	180	200	220	250	250	300
顶出行程	Ejector Stroke	mm	135	140	150	160	180	200
顶出力	Ejector Tonnage	KN	50	70	90	100	110	110
其他 OTHERS								
最大油泵压力	Max.Pump Pressure	Mpa	16	16	16	16	16	16
油泵马达	Pump Motor Power	KW	22	22	30	37	45	45
电热功率	Heater Power	KW	15.5	22.2	30.4	37.5	40.5	54.6
外型尺寸	Machine Dimension(L*W*H)	m	5.45×1.43×2.21	6.28×1.5×2.14	6.85×1.64×2.2	7.5×1.92×2.08	7.8×2.0×2.30	8.5×2.0×2.30
机器重量	Machine Weight	t	6.5	7.5	9.5	14	14.7	17
油箱容积	Oil Tank Capacity	L	420	450	550	650	700	825

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
Remark: We reserve the right to make any technical improvements without prior notice.

标准配置 Standard Functions

锁模配置	Clamping configuration
5点双曲肘	Diagonal five points double toggle structure
机械、电气、液压三重安全连锁保护（大、中机）；机械液压二重安全连锁保护（小机）	Triple safety protection devices:Mechanical, electrical and hydraulic
低压模具保护装置	Low pressure mold protection device
多段开关模压力、速度、位置控制	Multi-stage pressure, speed and position control
多种液压顶出和震动模式	A variety of hydraulic ejection and position mode
强化处理动模板移动耐磨轨道	Anti-friction rail of moving platen
模具冷却水分流器	Mold cooling water distributor
自动集中润滑系统（容积式定量）	Automatic centralized lubrication system (volumetric quantitation)
快速合模差动装置	Rapid molding differential action device
开关模刹车装置	Mold open/close brake device
液压油马达驱动齿轮调模	Hydraulic motor driving gear to adjust mold
拉杆特殊工艺处理，强度高可靠	Advanced technolgy treated tie bars, reliable in strength and accuracy.
开关模、顶出位置尺控制	Electronic ruler for open/close mold and ejection
自动调模功能	Automatic mold adjustment structure
可调节式动模板滑脚	Adjustable moving platen sliding feet

液压配置	Hydraulic Configuration
高精度吸油过滤器	High-precision suction filter
油温偏差报警功能	Alarm for oil temperature deviations function
油箱油液位置监测	Oil level monitoring function
液压油冷却装置	Cooling device for hydraulic oil
自封式油箱滤油器	Self-close filter

注射配置	Injection Configuration
双缸平衡注射装置	Balanced double cylinders injection unit
多级注射速度、压力设定	Multi-stage injection speed and pressure settings
多级保压速度、压力设定	Multi-stage holding speed and pressure settings
多级储料速度、压力设定	Multi-stage charing speed and pressure settings
注射转保压起点控制	Injection switch to pressure holding control
注射位置检测控制	Injection position detection control
注射位置尺控制	Injection position by transducer
螺杆冷启动(防止)功能	Device to prectect screw damage from cold boot
射出防护罩	Injection purge guard
3种模式座退选择功能	3 optional modes of retreat of injection unit
自动清料功能	Auto material clearing function
高扭力油马达驱动螺杆预塑装置	High-torque motor-driven plasticizing unit
螺杆倒索防流延装置	Back flow preventer of screw
螺杆测速装置	Screw speed detection
双金属螺杆	Bimetallic screw
料筒温度PID控制	PID controlled barrel temperature
储料背压调节功能	Refilling back pressure adjustable
料筒加热安全防护罩	Safety cover for heating of barrel
喷嘴对中调节装置	Nozzle regulation devices

电控配置	Electronic Configuration
工艺参数预设定	Pre-set technical parameters
机械手电气接口	Robot interface
参数资料保护锁	Data protection lock for parameters
机器动作图形化显示	Machine action image display
电脑内存模具记忆功能可达99组	99 groups moulds data storage
实时监测显示各动作运行情况	Real-time monitoring shows of each action
异常报警功能	Faults alarm function
温度偏差显示及自动校正	Temperature deviations detection and correction
电机安全保护装置	Motor safety protection device
系统硬件I/O检测功能	System hardware I/O detection function
外供预留电源插头3组	Three sockets for power supply
多国语言支持	Multiple languages
紧急停止保护装置	Emergency stop protection device

选用配置	Optional extras
不锈钢螺杆	Stainless steel screw
特殊原料专用螺杆	Screw for special materials
模具温度控制器	Mold temperature controller
边开模边顶出装置	Mold opening while ejection
弹簧喷嘴/加长喷嘴	Spring nozzle / extension nozzle
蓄能器辅助快速注射	Accumulator-assited injection system
多组抽芯装置	Multi-core pulling device
玻璃管冷却流量计	Glass tube meter for cooling flow
自动上料机	Automatic feeder
干燥料斗	Hopper dryer
除湿机	Dehumidifier
磁力架	Hopper magnetic
模具压板	Mold clamp
三色报警灯	Three-color warning lights
电流稳压器	Power regulators
闭环压力、流量控制系统	Closed-loop pressure/flow control system
旁路过滤器	Bypass filters
自动安全门控制装置	Automatic security gate control device
自动加色计量器	Automatic color doser
智能控制系统	Intelligent control system

Remarks:
Theoretical shot volume=(screw cylinder cross section) × (screw stroke)

The injection shot weight should be 91% of the theoretical shot volume for polystyrene(ps).

说明
理论注射容量 = （注塑机）料筒截面积X 螺杆行程,注射重量为PS理论容量的91%。

注意
当您有成型PC、PA、PMMA、PET、PVC等工程塑料制品的计划,请让我们知道。
正常情况下改善技术规格参数，不予另行通知，除了上述表格中技术规格参数以外，尚需更详细的资料,请垂询。

Attention:
When you plan to mold plastic products, using PC, PA, PMMA,PET, PVC materials, please let us know.
Product design and technical specifications are subject to change without prior notice. If you need more specifications, please contact us.

The machine pictures, which are only for visual reference, may have slight discrepancy with the actual machines.

塑胶原料中英文主文名称，物理化学性能及注塑性能对照表

Physical and chemical properties and injection performance of plastic raw materials

胶料类别	简称	俗称	中文学名	比重	熔点℃	注射力 Bar	收缩率%
硬胶类 (聚苯乙烯)	PS	硬通，普通硬胶	聚苯乙烯	1.07	100	700-2100	0.4
	HIPS	不碎胶，高冲击硬胶	高冲击聚苯乙烯	1.06	100	700-2100	0.4
	ABS	ABS胶，超不碎胶	丙烯腈—丁二烯—苯乙烯共聚物	1.05	110	500-1800	0.6
	SAN	透明大力胶	苯乙烯 丙烯腈共聚物	1.09	115	700-2300	0.2
软胶类 (聚苯乙烯)	EPN	发泡胶	发泡聚苯乙烯				
	LDPE	软胶(花料，筒料)	低密聚乙烯	0.92	120	500-2100	1.5-5
	HDPE	硬性软胶	高密聚乙烯	0.95	130	700-1400	2-5
	UHMPE	超硬性软胶	超高密聚乙烯	0.94	130	700-1400	2-5
聚丙烯	EVA	橡皮胶	乙稀醋酸乙烯共聚物	0.94	80	500-1400	1
	PP	百折胶	聚丙烯	0.91	176	700-1400	1-2.5
	PVC类 (聚氯乙烯)	PVC粗粉	聚氯乙烯原树脂	1.30-1.58	75-105	700-2800	0.1-0.5
聚丙烯酸树脂	PVC	幼粉	聚氯乙烯糊状树脂	1.16-1.35	75-105	500-1800	1.5
	PMMA	亚加力	聚甲基丙烯酸酯 有机玻璃	1.19	100	700-1400	0.5
聚缩醛类	POM (赛钢,特灵,夺钢,起钢)	缩醛	聚甲醛树脂	1.41	175	700-1400	2
			聚氧化丙烯树脂	1.41	175	700-1400	2
尼龙类	PA6	尼龙6	聚酰胺	1.13	216	500-1400	0.8-1.5
	PA12	尼龙12	聚酰胺	1.01	179	500-1400	0.3-1.5
	PA66	尼龙66	聚酰胺	1.14	265	500-1400	2.25
	PAST	增强尼龙	聚酰胺	1.1	216	500-1400	0.8-1.8
聚酯类	PET	聚酯	聚对苯二甲酸乙二醇酯	1.37	258	700-1400	2.25
	PBT	聚酯	聚对苯二甲酸乙二醇酯	1.35	250	700-1400	1.5-2.0
	UP	冷凝胶	不饱和聚酯	2.0-2.1			1.5-2.0

特种机简介 Special Machine Series

AX/G SERIES THIN WALL HIGH-SPEED PLASTIC INJECTION MACHINE

This series of injection molding machine equipped with double servo driving systems plus optimized module, by which motors can get instant increased output power. Controller can monitor temperature of module by linked sensors and opto-isolated terminals. Such configuration makes the machine capable to do multi-process at the same time. That means the machine can be instructed to achieve mould-opening, ejection or clamping while pre-plasticizing, or eject while mould opening. Also, the premier injection pressure of such machine normally exceeds 230 MPa and cycle time is greatly shortened.

This is right solution for thin-wall and precise plastic products.

Eg. It takes 3.5second to make a kind of snack box which volume is 500ml, weight 15gram and wall thickness 0.4mm.

- 1.该系列机型采用双伺服系统，配备功率增量快速系统优化模块,实现了机器同步动作功能(例:预塑(储料)的同时,可进行开模→脱模→合模的复合动作,也可选择在开模的同时进行脱模的复合动作),一般塑料原料在无储能配置下其最快注射速度同比提高100%以上,注射压力可达到230Mpa以上,有些制品的成型周期可达到3.5秒以内。
- 2.本机广泛适用于薄壁、一模多腔和其它精密制品的快速注射成型，特别适用于在常规机器所难以达到优质制品或高效生产的快速注塑成型的理想设备。
- 3.模具加热及温控信号直接与注塑机电控PID连接，通过电脑温度感应介面与光隔离输出卡实现对温度的高精度控制。

例: 容积500ml快餐盒,重15g,壁厚0.4mm,生产周期可达每模3.5秒。

AX/G薄壁快速机



AX/UPVC SPECIAL MACHINE

- Air cooling device with quick response and accurate temperature control.
- Specially designed screw structure suitable to plasticize UPVC steady.
- Widen safeguard, suitable for mould with long core pulling.
- Multi-core pull is available.
- Auto lubrication pump.
- Auto mould thickness adjustment device is available.

- 风冷装置，控制反应迅速，温度准确。
- 新型专用的螺杆结构设计，适合UPVC的材料性能，塑化稳定，效果佳。
- 加宽的安全门结构，适合放置长芯模具。
- 可配置多组抽芯装置。
- 自动润滑油泵。
- 可装自动调模装置。

AX/UPVC专用机



AX/PET SPECIAL MACHINE

This machine adopted our own designed barrel and screw with bigger L/D ratio(above 25:1), suitable to make PET bottle preform. Such design greatly improves uniformity PET plasticizing. That ensures all products are of high transparency.

AX/PET瓶胚专用注塑机，配备我公司经优化设计的PET专用塑化组件，L/D比为25:1以上。保证低剪切条件下的高速优质塑化，确保PET产品的结晶质量。瓶胚透明度高，是PET瓶胚产品的专用注塑机。

AX/PET瓶胚专用机



AX/DM BAKELITE MACHINE SERIES

This series is special design for bakelite injection molding. Such machine adopts diagonal five pionts double toggles clamping structure and equip with servo machine which features reliable clamping, precise molding and low power consumption.

AX/DM系列高效节能电木注塑机是我公司全新研制开发的一款高效、节能、精密的连杆曲肘式电木专用注塑成型机，制造技术及性能参数、包括机器的设计都领先于国内同档次机型。

应用领域：

以酚醛树脂为材料生产电气和家电配件，适合家用电器和低压电器制造。

AX/DM热固性电木机

