



海龙企业 ★ 威力仕注塑机/压铸机



Die-casting machine



Press machine

澳玛特高精冲床



中外合资宁波威力仕高科机械有限公司 NINGBO WELLISH HI-TECH MACHINERY CO.,LTD. WELLISH INDUSTRIAL GROUP LIMITED

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海龙企业★融合★创新★超越

HAILONG GROUP with Integration & Creation & Transcedence

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WELLISH 公司简介

海龙企业——宁波威力仕高科机械有限公司（原：海太高科公司），位于宁波国家开发区•北仑——海龙工业园/A区。长期专业从事高精注塑机制造，产品（合模力）先后推出90~3000Tons, 20多种规格引领市场的各种应用多款型注塑机。

公司拥有长期专业于各种注塑机研发/制造工程技术资深团队，创造有多个注塑机产品专利技术和具备顾客个性化需求方案的快速响应产出机制，技术设计与制造装备实力雄厚，产品设计集国际先进技术与精益求精创新、超越理念。

公司以海龙企业综合实力为基石的海龙机械智能制造体系，融合欧洲产品技术“威力仕”品牌多款出口型高端特种注塑机，深受国内外顾客惠选。

Brief Introduction

HAILONG GROUP - NINGBO WELLISH HI-TECH MACHINERY CO.,LTD. (Previous HAITAI HI-TECH MACHINERY CO.,LTD.) is located in HAILONG Industrial Park (Area A), National Development Zone • Beilun, Ningbo. Our company is long engaged in the professional manufacture of high precision injection molding machine. We have successively introduced machines with clamping force from 90-3000Tons as well as more than 20 types of special application machines which is leading the market.

Our company has a high qualified team who are specialized in the research and development as well as manufacturing engineering technology for all kinds of injection molding machine for long time. We have created lots of injection molding machine product proprietary technology and we have built up quick response output mechanism that can offer personalized solutions for our customer based on their requirements. With strong and powerful strength for the technology design and equipment manufacture, our products design has integrated with international advanced technology as well as the ideas of keeping on improving, creation and transcendence.

Based on the powerful strength of the head company HAILONG GROUP, our company has built a HAILONG machinery intelligent manufacture system. Integrated with European technology, “WELLISH” brand several series of export-oriented high end special application injection molding machine are very popular with customers from home and abroad.

海龙工业园 / A区
HAILONG Industrial Park / Area A



海龙工业园 / B区——海龙企业 / 重机数字化工厂位于宁波•北仑藏龙路

海龙企业★智能制造步入示范

HAILONG GROUP
Enter the age of intelligent manufacturing



HAILONG GROUP is located in HAILONG Industrial Park / Area B, CangLong Road, BeiLun, Ningbo



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引领市场★值得信赖

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Leading the market ★ Trustworthy products

自润滑专用套

用于关节、拉杆、导杆处，大幅增加合模部件的使用寿命，并减少润滑加油的频率。

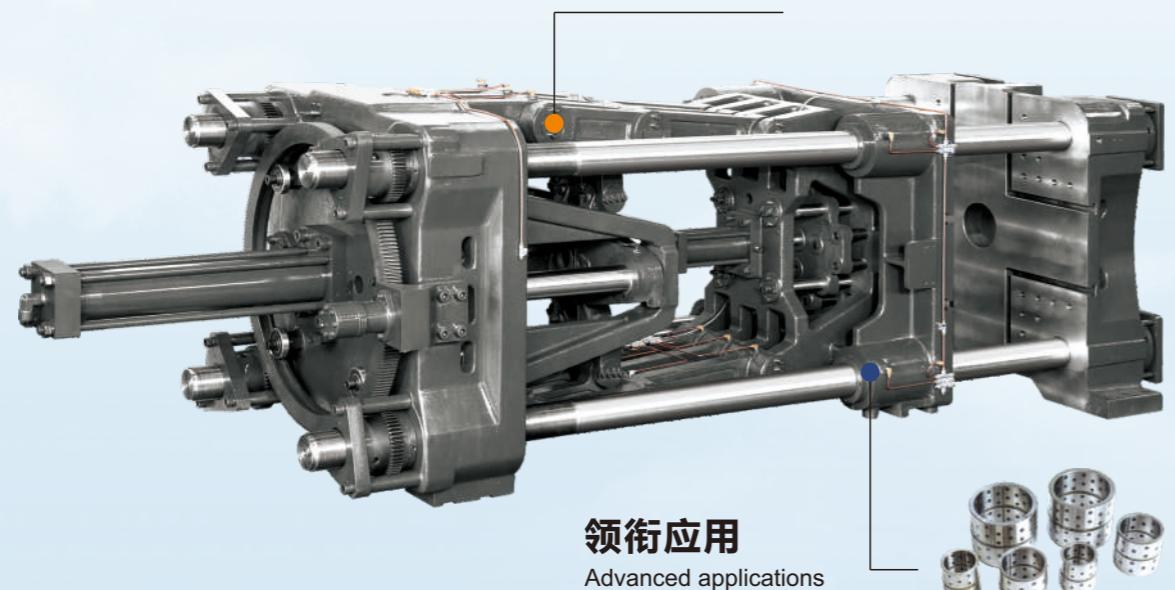
Self-lubricating special sets

Used for joints, tie-bars and guide bars, which can substantially increase the lifetime of clamping unit, and reduce the lubricating frequency as well.



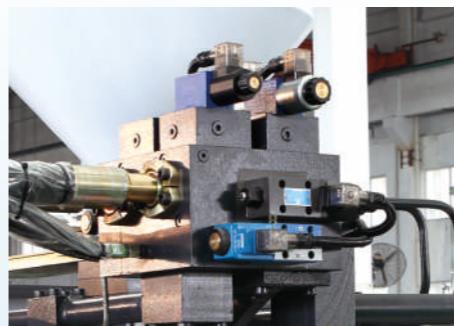
含油轴套

Oil bushings



领衔应用

Advanced applications



高精注射单元压力闭环/选配

High precision injection with pressure closed loop function (OPTIONAL)

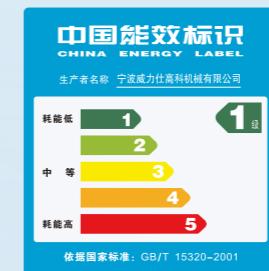


高品质螺杆组

特殊优质合金材料和处理，对结构与精度进行重点设计，达到与众不同的射出计量和高标准精度。

High quality screw set

The use of special high-quality alloy materials and processing, to focus on the structure and precision design to achieve different injection metering accuracy and high standards.



"威力仕"U系列&J款伺服节能机



"WELLISH" U Series / J Type Energy Saving Servo Machine

欢迎选购CE标准产品

Welcome to choose machines with CE standard as option





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CHINA · WELLISH

获国家一级节能认证

曾列火炬计划★倡导节能技术

Included in the NATIONAL Torch plan,
Advocating energy-saving technology

展现高精度

机器工况中的精确位置、压力、速度和保压，确保射胶计量的重复精度误差<0.3%，实现精密成型

Show High Precision

The accurate injection positioning, pressure, speed and pressure maintaining, to ensure the repeatability error of injection accuracy less than 0.3% to achieve precision molding.

超强节能特性

同样塑料制品的生产与普通注塑机相比较，节能率通常可达到45%-75%

Super Energy-Saving Features

Compared with standard injection machine, the energy saving rate can reach 45%-75% for the same plastic production.

高效率

总效率比普通机提高10%左右，拖动能力提高18%左右

High Efficiency

Compared with standard machine, the total efficiency can increase by 10% and dragging capacity is can increase by 18%.

高响应系统

系统加速和减速性能敏捷，力和速度的调整灵敏，采样处理速度达100KHz，快速启动时间0.05s

High Response System

The system acceleration and deceleration performance is quite agile and force&speed regulation is very sensitive. The sampling processing speed can reach 100KHz and system quick start time can reach 0.05s.

保持稳定可靠

压力 / 速度稳定，保压切换平稳精确

Maintain Stability and Reliability

The pressure or speed is stable and switch of pressure maintaining is smooth and accurate.

低油温

实现避免高压卸荷，工况中低油温状态，提高机器使用性能与使用时效，节约大量冷却水

Low Oil Temperature

Avoid high pressure unloading and low oil temperature situation during operation. Improve the operation performance, promote using efficiency and save a large quantity of cooling water.

节能J型特性 Energy-saving J series main features

J型系统的设计为公司技术领航者倡导的国内最早发起和研制被国家列入火炬计划的高节能注塑机，采用伺服马达驱动对机器工作状况是根据注塑制品工要求，将数据编入控制器后高速指令机器个动作不同负载需求，伺服驱动系统运行过程的线性与工艺指令保持高度跟随性，使系统的压力 / 流量形成闭环，实现了高机能 & 高节能(45%~75%)的科学结合，高响应系统使机器效率≥98%。

J Series system design high energy-saving injection molding machine has been listed in our National Torch Plan and we're the earliest domestic company who is engaged in this project. Servo motor can dictate different machine action according to product workmanship requirement, it will input data into the controller and instruct each machine's movement quickly based on different load demand. The linearity of servo driving system operational process keeps good tracking with technological instruction. Therefore, the system pressure and flow becomes a closed loop, which achieves scientific combination of high machine performance & high energy-saving(45%~75%). With this high-response system, the machine working efficiency can reach 98% or more.



Qualified with National 1st Level
Energy Conservation Certification

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U系列/J款伺服节能系统/装置

U Series / J Type Energy Saving
Servo System Configuration

控制系统

- EST彩屏多功能/高端控制器
- 程序深层调整&维护的网通
- 空/负载参数设定/节能输出自控模块
- 高响应压力/流量闭环控制
- 多国语言选用&大容量模具组记忆功能

CONTROL SYSTEM

- EST multifunction high end controller
- Program further adjustment & Network maintenance
- Zero load & Over load parameter settings / Energy-saving output self-control module
- High-response pressure/flow closed-loop control
- Multiple language selection& Large-capacity mold group memory function

液压系统

- 伺服马达驱动（装置）高性能泵浦
- 系统压力/流量分离调节多级控制
- 空/负载节能输出自动控制

HYDRAULIC SYSTEM

- Servo motor drive unit & high performance pump
- System pressure/flow separation regulation and multilevel control
- Non-load & over load energy-saving output self-control

锁模系统

- 斜排式双曲肘锁模机构/同步齿轮液压调模
- 高灵敏低压模具保护装置
- 多级开合模压力/速度&位置尺数控
- 集中式自动分配油脂润滑&含油轴套
- 中、大机液压抽插芯（中子2组）接口

CLAMPING SYSTEM

- Diagonal hinges twin toggle clamping mechanism/ Mold adjustment by synchronous gear hydraulic driving
- High sensitivity & low pressure mold protection device
- Multi-step mold opening & clamping pressure / Speed & position transducer digital control
- Centralized automatic distribute grease lubrication & oil bushings
- Hydraulic pull and insert cores (2 pcs of core) connector for medium and large size machine

注射系统

- 双缸平衡式高敏捷注射机构
- 多级注射压力/速度&位置数控
- 液压马达驱动螺杆与转速检测
- 储料电液比例背压阀控制 (360T及以上机)
- 注射计量重复精度监测控制
- 储料动作防流涎控制
- 冷料启动储料防护控制
- 料管加热PID控制
- 喷嘴校准微调

INJECTION SYSTEM

- Double cylinder balanced type & High agility mechanism
- Multi-step injection pressure/ Speed & position digital control
- Hydraulic motor drives screw and rotation speed (RPM) detection
- Material charging electro-hydraulic proportional back pressure valve control (360T machine and above)
- Injection metering repetitive precision (repeat accuracy) monitoring and controlling
- Nozzle control in charging movement
- Cool material starts with charging protection control
- Barrel heating by PID control
- Nozzle calibration by fine adjustment

产品配置表，敬请另行垂询。

Please feel free to contact us if you need machine configuration list for more details, thank you!



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PET & PVC 专用注塑机

PET & PVC Special Injection
Molding Machine



- ◆ 高性能镀硬铬或不锈钢PVC专用螺杆
- ◆ 加宽机门
- ◆ 配备两组以上的抽芯装置
- ◆ 多段机筒风冷装置，精确控制料温
- ◆ 大扭矩塑化液压马达

- ◆ PVC special screw with high performance hard chromium plating or with stainless steel
- ◆ Widen the safety door (Optional)
- ◆ Equipped with two or more core pulling device
- ◆ Multi stage of air cool device on barrel for precise control of material temperature
- ◆ Large torque plasticizing hydraulic motor

垫填料夹芯注塑机

Filler Sandwich Injection
Molding Machine

在传统塑料射出成型机上增加一组复合式射嘴及料管组形成独立的双料管，在射出的过程中可以同时或间隔方式将两种溶胶透过共同射嘴射入模穴中达成双料共射，其中外层的溶胶称为皮层料，内层的溶胶称为核心料。

For some special products production, such machine add one set of compound nozzle and feeding barrel assembly on the traditional machine so as to achieve independent double barrels. During injection period, they can achieve double injection by charging with two materials and inject to mold cavity through the conjunct nozzle simultaneous or intervalic, in which the outer charge material is called external material while the inner one is called core material.



BMC 专用机款

BMC Special Injection Molding
Machine

配备针对BMC原料专用的热固性类理化部件，具有特殊填料自动压紧装置和特别高扭力液压马达储料&特殊射出油缸等组成的系统优化模块。



BMC injection molding machine is equipped with thermosetting physicochemical components which is specialized for BMC material. And it has system optimization module which is composed of specific charging automatic compressing device, specially high torque hydraulic motor for charging and special injection hydraulic cylinder etc.

支持选配定制 / 领衔应用模块

Support optional and customized solutions
Advanced application module

① 进口品牌控制器

进口常选：KEBA科霸与B&R贝加莱为主以体现高响应&多功能人性化控制

② CE标准系统&款型

获CE认证，电/液系统&机器款型以提升工况中安全概率

③ 双油路快速系统

当开合模的同时进行顶出或选预塑的双动作以实现增快机器循环高效率

④ 高效非标功率/扩容系统

在标准机功率上增加驱动功效以明显加快工况循环&实现优质高效

⑤ 高增速/蓄能器装置

适合用于超薄&快速成型类制品产出以解决精密&高难度制品工艺要求

⑥ 高精注射单元压力传感装置

提升注射单元工况中系统压力实时循环以实现注射/保压/预塑背压闭环功效

⑦ 高精注射伺服阀/闭环装置

适用于极精密高端制品工艺要求以实现注射重复精度有效提高

⑧ 单缸快速注射装置

适用含360T以下合模匹配单缸高速射出成型以确保超薄类制品产出实现优质高效

⑨ 合模&注射最佳机能组合

适用于针对性特种制品合模&注射/非标/优化匹配的个性化组合机，以实现最佳量产的适从性应用

I. Imported brand controller

Imported options: mainly KEBA and B&R, Display the concept of high response & multifunction people-oriented control.

II. CE standard system & series

Hybrid system & machine series, which is honored with CE Certificate, To improve the safety rate during machine operation.

III. Overlap movement high speed system

Ejection or plasticizing when mold opening & clamping, To increase machine cycle and achieve high efficiency.

IV. High efficiency non-standard power/capacity expansion system

Add driving function on standard machine power, So to increase operation cycle obviously & achieve super quality and high efficiency.

V. High speed acceleration /accumulator unit

Suitable for the production of thin-wall& fast molding products, So to meet the processing requirements of precision & high difficulty products.

VI. High precision injection unit pressure sensor device

Improve system pressure real time cycle during injection unit operation, So to realize the closed-loop effect of injection/holding pressure and pre-plasticizing & back pressure.

VII. High precision injection servo valve/closed-loop device

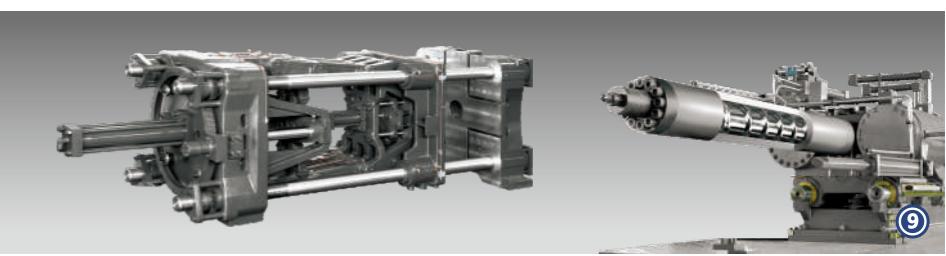
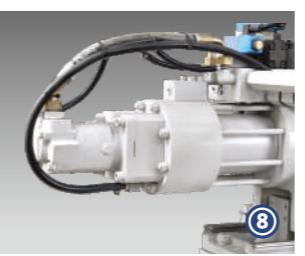
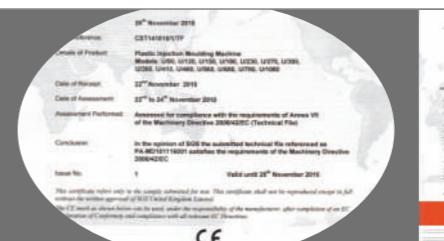
Applicable to processing requirements of extremely precision high end products, So to increase injection repeat accuracy efficiently.

VIII. Single cylinder fast injection device

Appropriate for 360T (or below) machine's clamping unit to match single cylinder high injection molding, So to ensure the production of ultrathin-wall products, and realize super quality and high efficiency.

IX. Optimum function combination of clamping & injection

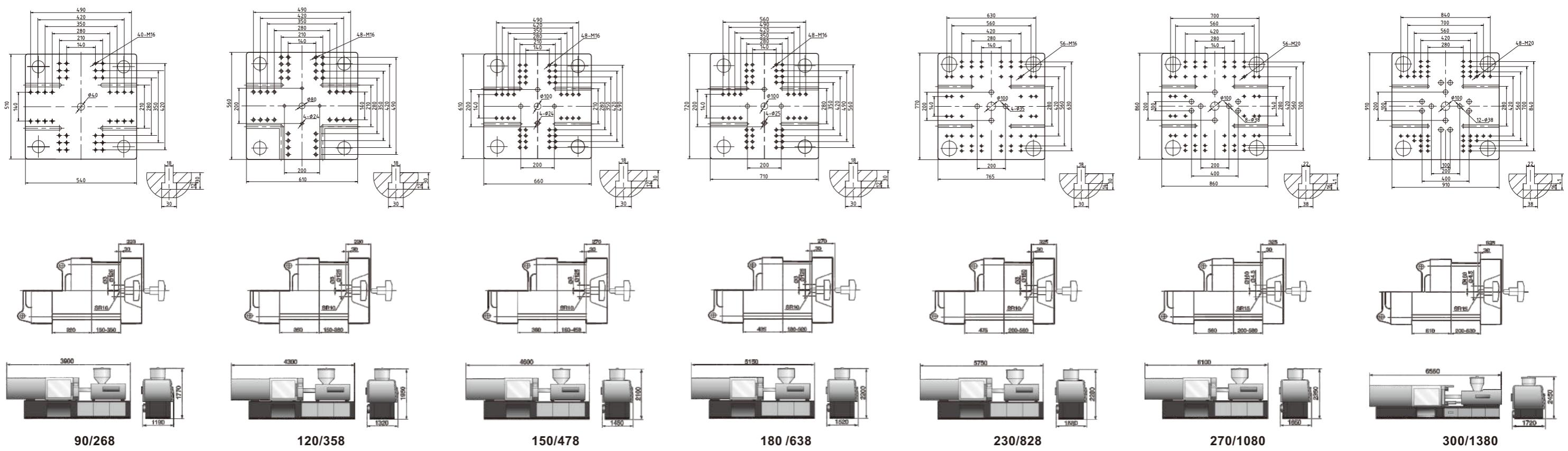
Suitable for the pertinent special products by nonstandard and optimum customized combination of clamping unit & injection unit machine, So to reach most suitable application of optimum mass production.



U系列规格参数

U series technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	90/268				120/358				150/478				180/638				230/828				270/1080				300/1380			
项目/规格	TYPE / SPECIFICATION	U/90C				U/120C				U/150C				U/180C				U/230B				U/270C				U/300C			
螺杆型式	Screw type	A	B	C	D	A	B	C	D	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C		
注射装置	Injection Unit																												
螺杆直径	Screw diameter mm	30	32	35	38	32	35	38	42	38	42	45	42	45	50	45	50	55	50	55	60	55	60	65					
螺杆长径比	Screw L/D ratio	L/D	23.5	22	20.1	18.5	24.1	22	20.3	18.4	21	19	17.7	23.6	22	19.8	24.4	22	20	24.2	22	20.2	24	22	20.3				
理论注射容量	Shot volume (theoretical) CM ³	117	133	160	190	136	163	192	235	227	277	318	311	357	441	397	490	593	530	641	763	676	805	945					
注射重量(ps)	Injection weight (PS) g	106	121	146	173	124	148	175	214	207	252	289	283	325	401	361	446	540	482	583	694	615	733	860					
注射速率	Injection rate g/s	71	81	97	114	74	89	105	128	94	115	132	139	160	198	136	168	203	188	227	270	224	266	312					
注射压力	Injection pressure Mpa	230	203	170	144	260	219	186	152	209	171	149	203	177	143	207	168	139	204	169	142	202	170	145					
螺杆转速	Screw speed rpm					225				210			185			180			155			180			220				
合模装置	Clamping Unit																												
合模力	Clamping force KN					900				1200			1500			1800			2300			2700			3000				
移模行程	Open stroke mm					320				350			380			435			475			560			610				
拉杆内间距(宽×高)	Space between tie-bars(W×H) mm					360×330				410×370			460×420			490×470			520×520			580×580			650×650				
最大模厚	Max. mould height mm					350				380			450			520			560			580			630				
最小模厚	Min. mould height mm					150				150			160			180			200			200			200				
顶出行程	Ejector stroke mm					90				120			120			140			150			170			170				
顶出力	Ejector force KN					30				38			50			50			70			70			70				
其它	Others																												
最大油泵压力	Pump max. pressure Mpa					16				16			16			16			16			16			16				
电机功率(伺服)	Pump motor power (servo) KW					11(11)				13(14)			13(18.5)			18.5(23)			18.5(23)			22(29)			30(33)				
电热功率	Heating power KW					6.8				7.5			9.3			12.3			14.8			16.8			18.3				
加热段数	Numbers of heating area Segment					3+1				3+1			3+1			3+1			3+1			3+1			3+1				
外形尺寸(长×宽×高)	Machine dimension (L×W×H) M					3.9×1.19×1.77				4.3×1.32×1.95			4.6×1.45×2.1			5.15×1.52×2.2			5.75×1.58×2.28			6.1×1.65×2.35			6.55×1.72×2.45				
油箱容积	Oiltank cubage L					180				230			270			300			300			380			385				
机器重量	Machine weight TON					2.8				3.5			4			6			7			9			10				



U系列规格参数

U series technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	360/2180				410/2980				460/3380				560/3980				680/5180				780/6080				
项目/规格	TYPE / SPECIFICATION	U/360C				U/410C				U/460D				U/560D				U/680C				U/780C				
螺杆型式	Screw type	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
注射装置 Injection Unit																										
螺杆直径	Screw diameter	mm	60	67	70	75	70	75	80	85	75	80	85	90	80	85	90	100	90	95	100	105	90	95	105	110
螺杆长径比	Screw L/D ratio	L/D	24.6	22	21.1	19.7	23.6	22	20.7	19.4	22	20.6	19.4	18.3	22	20.7	19.6	17.6	23.2	22	20.9	19.9	23.2	22	19.9	19
理论注射容量	Shot volume (theoretical)	CM ³	947	1181	1289	1480	1501	1723	1960	2213	1767	2010	2269	2544	2212	2497	2799	3456	2926	3260	3612	3982	3085	3437	4199	4608
注射重量(ps)	Injection weight (PS)	g	862	1075	1173	1347	1366	1568	1784	2014	1608	1829	2065	2315	2013	2272	2547	3145	2663	2967	3287	3624	2807	3128	3821	4193
注射速率	Injection rate	g/s	278	346	378	434	335	384	438	493	356	405	457	513	443	500	561	692	549	612	678	747	574	640	782	858
注射压力	Injection pressure	Mpa	231	186	170	148	199	173	152	135	191	168	149	133	179	159	142	115	177	159	143	130	195	175	143	130
螺杆转速	Screw speed	rpm	200				150				160				130				150				115			
合模装置 Clamping Unit																										
合模力	Clamping force	KN	3600				4100				4600				5600				6800				7800			
移模行程	Open stroke	mm	675 (705)				715 (720)				780 (790)				850 (860)				900 (920)				1000 (1020)			
拉杆内间距(宽×高)	Space between tie-bars(W×H)	mm	680×680				730×730				780×780				830×830				895×895				980×980			
最大模厚	Max. mould height	mm	720				780				800				850				900				1000			
最小模厚	Min. mould height	mm	250				250				250				330				350				400			
顶出行程	Ejector stroke	mm	180				180				220				240				250				300			
顶出力	Ejector force	KN	70				90				110				150				150				210			
其它 Others																										
最大油泵压力	Pump max. pressure	Mpa	16				16				16				16				16				16			
电机功率(伺服)	Pump motor power (servo)	KW	37 (45.2)				37 (45.2)				45 (52)				55 (58)				30+37 (66)				37+37 (79)			
电热功率	Heating power	KW	24.7				29.3				29.3				31.4				42.95				56.7			
加热段数	Numbers of heating area	Segment	4+1				5+1				5+1				5+1				5+1				6+1			
外形尺寸(长×宽×高)	Machine dimension (L×W×H)	M	7.38×1.95×2.55				7.65×2.05×2.6				8.05×2.1×2.8				8.45×2.15×2.84				10.6×2.28×2.89				11.58×2.3×3.2			
油箱容积	Oiltank cubage	L	510				690				695				795				1100				1200			
机器重量	Machine weight	TON	13.5				16				18				21											

U系列规格参数

U series technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	1080/6380				1280/9780				1420/11580				1680/12980				2200/16580				3000/62000					
项目/规格	TYPE / SPECIFICATION	U/1080C				U/1280C				U/1420C				U/1680C				U/2200C				U/3000C					
螺杆型式	Screw type	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	A	B	C
注射装置 Injection Unit																											
螺杆直径	Screw diameter	mm	90	100	110	120	110	115	120	125	110	120	130	140	120	130	140	150	150	160	170	180	210	220			
螺杆长径比	Screw L/D ratio	L/D	25.6	23	20.9	19.2	23	22	21.1	20.3	25.1	23	21.2	19.7	26	24	22.3	20.8	23.5	22	20.7	24.8	21	21			
理论注射容量	Shot volume (theoretical)	CM ³	3180	3927	4750	5655	5270	5760	6272	6806	5559	6616	7765	9006	6673	7831	9082	10426	13900	15800	17900	29390	40000	43904			
注射重量(ps)	Injection weight (PS)	g	2895	3574	4320	5145	4796	5242	5708	6193	5059	6021	7066	8195	6072	7126	8265	9488	12688	14436	16297	26740	36400	39953			
注射速率	Injection rate	g/s	581	717	868	1033	793	867	944	1024	752	895	1050	1218	1057	1240	1438	1650	1315	1496	1689	1468	2000	2200			
注射压力	Injection pressure	Mpa	217	176	145	122	186	170	156	144	208	175	149	128	194	165	142	124	173	152	134	210	154	141			
螺杆转速	Screw speed	rpm	100				90				90				85				75				50				
合模装置 Clamping Unit																											
合模力	Clamping force	KN	10800				12800				14200				16800				22000				30000				
移模行程	Open stroke	mm	1080				1300				1350				1550				1870				2000				
拉杆内间距(宽×高)	Space between tie-bars(W×H)	mm	1120×1080				1260×1160				1310×1300				1500×1400				1750×1600				1900×1750				
最大模厚	Max. mould height	mm	1100				1250				1400				1500				1700				1900				
最小模厚	Min. mould height	mm	400				450				600				700				780				1000				
顶出行程	Ejector stroke	mm	325				360				360				420				420				450				
顶出力	Ejector force	KN	248				248				260				420				490				565				
其它 Others																											
最大油泵压力	Pump max. pressure	Mpa	16				16				16				17.5				16				16				
电机功率(伺服)	Pump motor power (servo)	KW	37+45 (91)				45+55 (99)				55+55 (116)				45+45+55 (151)				45+55+55 (168)				55+55+55+55 (232)				
电热功率	Heating power	KW	59				66.1				86				94.9				114				117				
加热段数	Numbers of heating area	Segment	6+1				6+1				7+1				8+1				9+1				10+1				
外形尺寸(长×宽×高)	Machine dimension (L×W×H)	M	12.1×2.64×3				12.82×2.78×3.35				15.2×3.00×4.13				16.35×3.15×4.17				18.6×3.6×4.42				22.00×5.50×5.00				
油箱容积	Oiltank cubage	L	1600				2100				2900				3000				3700				4500				
机器重量	Machine weight	TON	53				62				90																

U系列•PET规格参数

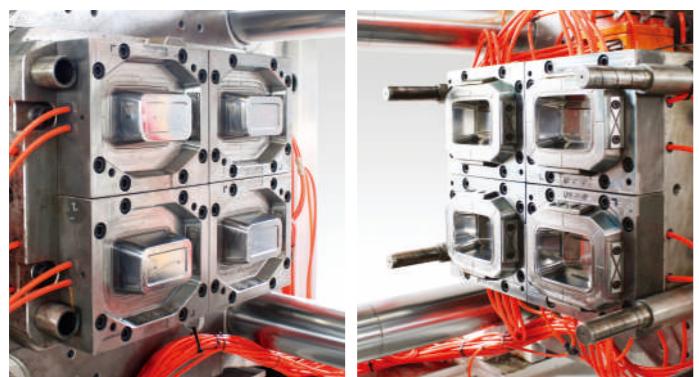
U series · PET technical parameters





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U&H系列 薄壁精密高速机



独到设计	超常速度	Special design, Super speed
合模机构	超强刚性	Clamping unit, High rigidity
超薄制品	优质高效	Ultra-thin product, High Q&E
熔胶射胶	计量精准	Injection & charging, High precision
伺服闭环	独特领先	Close-loop servo, Unique leading
含油轴套	平稳耐用	Oil bushings, Stable Durable



薄壁成型 首席典范

*U&H series high speed & precision machine
for thin-wall products*



U&H系列 主要特性

- 合模机构 / 装置及机身超强刚性的高负载设计，确保稳定、耐用。
- 相适应的液压系统设计与高响应控制器的匹配，确保减少机器循环周期，实现高速、精密的机能要求。
- 机器采用涵油自润滑轴套和优质钢拉杆，锁轴高寿命设计、制造。
- 同轴向高敏捷单缸快射机构，熔料&塑化性能超常提高。
- 机器较适用薄类包装和长流边制品加工，确保加工、生产效率。

U&H series main features:

- Clamping structure/unit as well as machine body is with high rigidity & high load capacity design, which can ensure machine's stability and durability
- Suitable hydraulic system design matches with high response controller, which guarantees the machine with shorter cycle time and achieve high speed / precision function requirement
- We have adopted oil self-lubricating bushings and good quality steel rod as well as long lifespan design and manufacture of clamping pins for the machine
- Coaxial and high agility single cylinder fast injection structure has greatly improved the plastics melting capacity & plasticizing performance
- The machine is suitable for the processing of thin-wall packing and long flow path products, so as to make sure the production efficiency accordingly

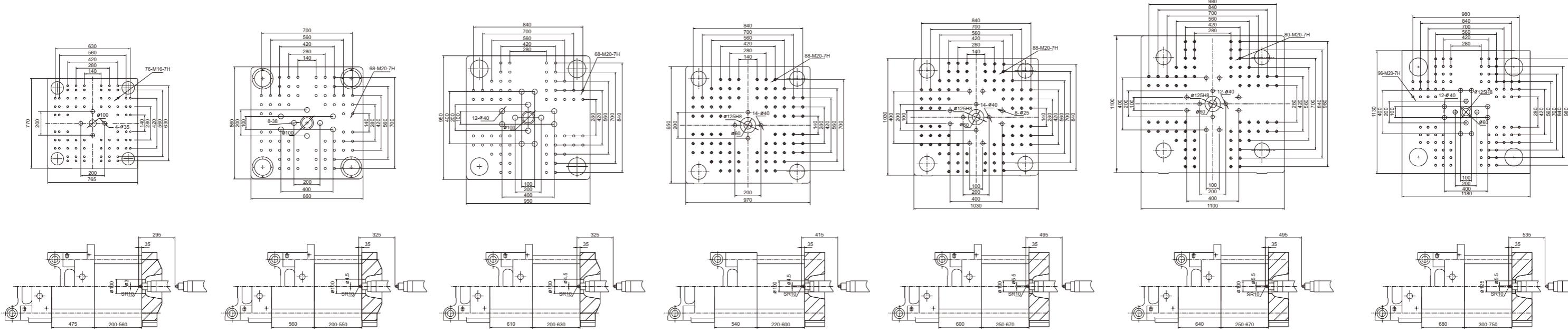
U&H系列规格参数

U&H series technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	230/600		270/828		300 /828		290/600		360/828		400/828		450/828	
规格	SPECIFICATION	UF/230BA		UF/270CA		UF/ 300CA		HJ/290BA		HJ/360BA		HJ/400BA		HJ/450BA	
螺杆型式	Screw type	A	B	A	B	A	B	A	B	A	B	A	B	A	B
注射装置 <i>Injection Unit</i>															
螺杆直径	Screw diameter	mm	45	50	50	55	50	55	50	55	60	55	60	60	65
螺杆长径比	Screw L/D ratio	L/D	22	20	26.4	24	29.7	27	26.4	24	27	24.8	27	24.8	27
理论注射容量	Shot volume (theoretical)	CM ³	357	441	490	593	490	593	441	534	593	706	593	706	822
注射重量(ps)	Injection weight (PS)	g	325	401	446	540	446	540	401	486	540	642	540	642	748
注射速度	Injection speed	mm/s	280	280	280	400	400	320	320	400	400	400	400	440	440
注射速率	Injection rate	g/s	405	500	496	600	715	865	574	695	865	1029	865	1029	1132
注射压力	Injection pressure	Mpa	177	148	169	140	169	140	147	121	148	124	148	124	115
螺杆转速	Screw speed	rpm	0-300		0-300		0-300		0-350		0-350		0-350		
合模装置 <i>Clamping Unit</i>															
合模力	Clamping force	KN	2300		2700		3000		2900		3600		4000		
移模行程	Open stroke	mm	475		560		610		540		600		640		
拉杆内间距(宽×高)	Space between tie-bars(W×H)	mm	520×520		570×570		630 ×630		590×570		635×615		690×670		
最大模厚	Max. mould height	mm	540		580		630		600		670		670		
最小模厚	Min. mould height	mm	200		200		200		220		250		250		
顶出行程	Ejector stroke	mm	150		170		170		100		100		100		
顶出力	Ejector force	KN	70		70		70		70		70		70		
其它 <i>Others</i>															
最大油泵压力	Pump max. pressure	Mpa	16		16		16		17.5		17.5		17.5		
电机功率(伺服)	Pump motor power (servo)	KW	40		51		40 +40		51		40+40		40+40		
电热功率	Heating power	KW	14.8		16.8		18		20		23		23		
加热段数	Numbers of heating area	Segment	3+1		3+1		3+1		3+1		3+1		3+1		
外形尺寸(长×宽×高)	Machine dimension (L×W×H)	M	5.75×1.58×2.28		6.1×1.65×2.35		6.7×1.72×2.45		6.54×1.72×2.35		7.6×1.79×2.36		7.8×1.95×2.45		
油箱容积	Oiltank cubage	L	300		380		385		600		800		850		
机器重量	Machine weight	TON	7.3		9.3		10.5		12.8		14.2		18.2		

说明：鉴于技术的改进，公司保留对技术参数和图片更改的权利，恕不另行通知。

We reserve the right to make changes of machine specifications and photos without notice due to continuous improvement.





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Z系列 2板机

- 根据制品需求，便于定制开模行程
- 开合模敏捷、平稳，提高运行周期
- 增加使用寿命，减少维护费用
- 框式模板特强刚性，缩小占地面积

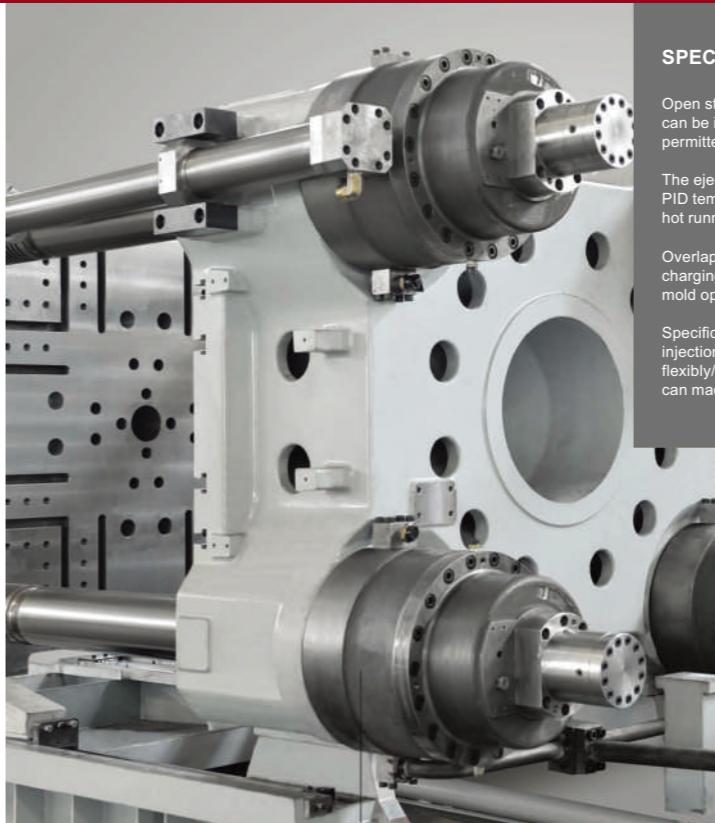
- According to product demand, easy to customize opening stroke
- Mold opening & clamping with agility and stability, which has improved cycle time
- Increase the service life and reduce maintenance cost
- With strong stiffness of frame platen, which can reduce the floor area

倡时代应用★2板机

Time-oriented application★ two platen machine



Z series two platen machine



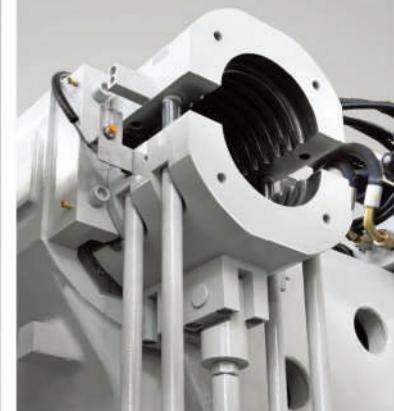
SPECIAL OPTIONS

Open stroke & mold thickness can be increased within permitted/feasible rang

The ejector rod can be lengthened PID temperature control of mold hot runner (≤84sets)

Overlap function of plasticizing & charging can be done when in mold open or mold eject stage

Specification of clamping & injection unit can be changed flexibly/combination machine can be made to order



国际标准型号	INTERNATIONAL CLASS NO.	580/3980				780/6080				1180/9780				1380/11580				1680/13780				2080/24080				2400/36800				2800/56000				3200/62000			
规格	SPECIFICATION	Z/580				Z/780				Z/1180				Z/1380				Z/1680				Z/2080				Z/2400				Z/2800				Z/3200			
螺杆型式	Screw type	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	A	B	C	A	B	C	A	B	C				
注射装置 Injection Unit																																					
螺杆直径	Screw diameter mm	80	85	90	100	90	95	105	110	110	115	120	125	110	120	130	140	120	130	140	150	150	160	170	170	185	200	180	210	220	200	220	240				
螺杆长径比	Screw L/D ratio	L/D	22	20.7	19.6	17.6	23.2	22	19.9	19	23	22	21.1	20.3	25.1	23	21.2	19.7	26	24	22.3	20.8	23.5	22	20.7	21	21	21	24.8	21	21	21	21	21			
理论注射容量 (theoretical)	Shot volume CM ³	2212	2497	2799	3456	3085	3437	4199	4608	5270	5760	6272	6806	5559	6616	7765	9006	7125	8362	9698	11133	13887	15800	17837	21955	26000	30387	29390	40003	43904	37699	45616	54287				
注射重量(ps) (PS)	Injection weight g	2013	2272	2547	3145	2807	3128	3821	4193	4796	5242	5708	6193	5059	6021	7066	8195	6484	7609	8825	10131	12637	14378	16232	19979	23660	27652	26745	36403	39953	34306	41511	49401				
注射速率	Injection rate g/s	443	500	561	692	574	640	782	858	793	867	944	1024	752	895	1050	1218	1057	1240	1438	1651	1315	1496	1689	1351	1600	1870	1469	2000	2195	1857	2247	2674				
注射压力	Injection pressure Mpa	179	159	142	115	195	175	143	130	186	170	156	144	208	175	149	128	194	165	142	124	173	152	135	166	140	120	210	154	140	163	135	113				
螺杆转速	Screw speed rpm	130				115				90				90				95				75				65				50							
合模装置 Clamping Unit																																					
合模力	Clamping force KN	5800				7800				11800				13800				16800				20800				24000				28000				32000			
拉杆内间距(高) tie-bars (W*H)	mm	920×830				1110×960				1260×1100				1380×1280				1580×1480				1800×1600				1900×1700				2000×1800				2160×1900			
最大模厚	Max mould height mm	900				950				1200				1350				1700				1800				1900				1900				2000			
最小模厚	Min. mould height mm	350				400				450				650				700				800				800				900				1000			
顶出行程	Ejector stroke mm	250				300				350				350				400				450				500				550							
顶出力	Ejector force KN	150				210				248				248				280				450				450				565							
最大开距	Max.Daylight mm	1650				1850				2400																											



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尼龙扎带专用注塑机



NYLON STRAP special application injection molding machine



射出系统

INJECTION UNIT



- 采用高效精准单缸射出系统
- 配置精密度气动自锁射嘴
- 配置PA专用螺杆料筒组，下料快，塑化好，温度准确，特殊排气排水设计
- 加大油路设计，响应敏捷，快速成型
- 配置纳米远红外加热装置，升温迅速，保温节能，进一步提升塑化品质
- High efficient and accurate single cylinder injection system
- High precision pneumatic self-locking nozzle
- Screw and barrel assembly is specially made for PA material with fast feeding, good plasticizing and accurate temperature as well as special design for venting and draining
- Increased oil circuit design, which is high response and can meet the fast molding requirement
- Nano far infrared heating device ensures a rapid heat up time and heat preservation as well as energy saving, which can further improve the plasticizing quality

NYLON STRAP special application injection molding machine

规格参数

Technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	360/600		450/828		520/828		580/828	
规格	SPECIFICATION	HJ360ZD		HJ450ZD		HJ520ZD		HJ580ZD	
螺杆型式	Screw type	A	B	A	B	A	B	A	B
注射装置 Injection Unit									
螺杆直径	Screw diameter mm	50	55	55	60	55	60	60	65
螺杆长径比	Screw L/D ratio L/D	26.4	24	27	24.8	27	24.8	27	24.9
理论注射容量	Shot volume (theoretical) CM ³	441	534	593	706	593	706	700	822
注射重量(ps)	Injection weight (PS) g	401	486	540	642	540	642	637	748
注射速度	Injection speed mm/s	320		400		400		440	
注射速率	Injection rate g/s	574	695	865	1029	865	1029	1132	1329
注射压力	Injection pressure Mpa	147	121	148	124	148	124	135	115
螺杆转速	Screw speed rpm	350		350		350		350	
合模装置 Clamping Unit									
合模力	Clamping force KN	3500		4200		4700		5400	
移模行程	Open stroke mm	540		600		640		675	
拉杆内间距(宽×高)	Space between tie-bars(W×H) mm	580×560		635×615		690×670		730×680	
最大模厚	Max. mould height mm	600		670		670		750	
最小模厚	Min. mould height mm	220		250		250		300	
顶出行程	Ejector stroke mm	100		100		100		100	
顶出力	Ejector force KN	70		70		70		70	
其它 Others									
最大油泵压力	Pump max. pressure Mpa	17.5		17.5		17.5		17.5	
电机功率(伺服)	Pump motor power (servo) KW	51		40+40		40+40		51+40	
电热功率	Heating power KW	20		23		23		27	
加热段数	Numbers of heating area Segment	3+1		3+1		3+1		3+1	
外形尺寸(长×宽×高)	Machine dimension (L×W×H) M	6.54×1.72×2.35		7.6×1.79×2.36		7.8×1.95×2.45		8.2×1.95×2.45	
油箱容积	Oiltank cubage L	600		800		850		1100	
机器重量	Machine weight TON	12		14.2		16.8		22.5	

锁模系统

CLAMPING UNIT



- 采用特殊设计之长方形加强型模板，高刚性，大幅提高模块抗疲劳强度，动作平稳
- 钢套和铜套均采用自润滑设计，减少润滑油用量，保证高速运行时销轴和拉杆的良好润滑
- 专用氮化销轴，并加大销轴尺寸，大幅减少销轴应力
- Special design of rectangle strengthened mold platen with high rigidity, which can greatly increase fatigue resistance of the mold platen and ensure smooth movement
- Both steel bushing and copper bushing are with self-lubrication design, and it can reduce lubrication oil consumption, and ensure axis pin and tie bar have good lubrication during high speed movement
- Specialized nitrided pin with increased size, which can largely reduce stress



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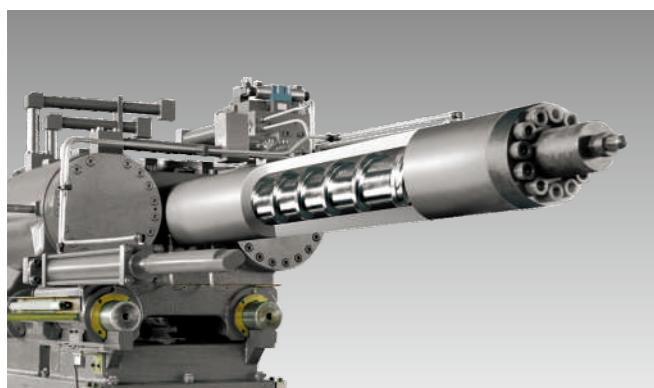
制笔专用注塑机



PEN MAKING special application injection molding machine



射出系统 INJECTION UNIT



- 采用高效精准单缸射出系统
- 加大油路设计，响应敏捷，满足快速成型要求
- 专用螺杆，料筒组，塑化效果好，温度准确，下料速度快，大幅提高注射精度
- High efficient and accurate single cylinder injection system
- Increased oil circuit design with agile response, which can meet the requirement of fast molding
- Specialized screw and barrel assembly for good plasticizing effect, accurate temperature and fast feeding, which can greatly increase the injection precision

PEN MAKING special application injection molding machine

规格参数

Technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	150/478			180/638			230/828			270/1080		
规格	SPECIFICATION	U/150C			U/180C			U/230B			U/270C		
螺杆型式	Screw type	A	B	C	A	B	C	A	B	C	A	B	C
注射装置	Injection Unit												
螺杆直径	Screw diameter mm	38	42	45	42	45	50	45	50	55	50	55	60
螺杆长径比	Screw L/D ratio L/D	21	19	17.7	23.6	22	19.8	24.4	22	20	24.2	22	20.2
理论注射容量	Shot volume (theoretical) CM ³	227	277	318	311	357	441	397	490	593	530	641	763
注射重量(ps)	Injection weight (PS) g	207	252	289	283	325	401	361	446	540	482	583	694
注射速率	Injection rate g/s	141	172.5	198	180.7	208	257	177	218	264	235	284	338
注射压力	Injection pressure Mpa	209	171	149	203	177	143	207	168	139	204	169	142
螺杆转速	Screw speed rpm	185			180			155			180		
合模装置	Clamping Unit												
合模力	Clamping force KN	1500			1800			2300			2700		
移模行程	Open stroke mm	380			435			475			560		
拉杆内间距(宽×高)	Space between tie-bars(W×H) mm	460×420			490×470			520×520			580×580		
最大模厚	Max. mould height mm	450			520			560			580		
最小模厚	Min. mould height mm	160			180			200			200		
顶出行程	Ejector stroke mm	120			140			150			170		
顶出力	Ejector force KN	50			50			70			70		
其它	Others												
最大油泵压力	Pump max. pressure Mpa	16			16			16			16		
电机功率(伺服)	Pump motor power (servo) KW	23			29			29			33		
电热功率	Heating power KW	9.3			12.3			14.8			16.8		
加热段数	Numbers of heating area Segment	3+1			3+1			3+1			3+1		
外形尺寸(长×宽×高)	Machine dimension (L×W×H) M	4.6×1.45×2.1			5.15×1.52×2.2			5.75×1.58×2.28			6.1×1.65×2.35		
油箱容积	Oiltank cubage L	270			300			300			380		
机器重量	Machine weight TON	4			6			7			9		

锁模系统 CLAMPING UNIT



- 采用特殊设计之长方形加强型模板，高刚性，大幅提高模块抗疲劳强度，动作平稳
- 钢套和铜套均采用自润滑设计，减少润滑油用量，保证高速运行时销轴和拉杆的良好润滑
- 专用氮化销轴，并加大销轴尺寸，大幅减少销轴应力
- 采用顶出长行程设计，满足深径工艺需求
- Special design of rectangle strengthened mold platen with high rigidity, which can greatly increase fatigue resistance of the mold platen and ensure smooth movement
- Both steel bushing and copper bushing are with self-lubrication design, and it can reduce lubrication oil consumption, and ensure axis pin and tie bar have good lubrication during high speed movement
- Specialized nitrided pin with increased size, which can largely reduce stress
- Long ejector stroke design which can meet the requirement of deep diameter process



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S系列 清双色机

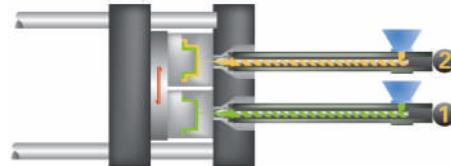
S series dual color machine

- 模开后/动模配有180°旋转盘装置，采用油马达或伺服马达驱动旋转，回转定位准确、敏捷。
- 机能/双组份异类料注射装置的同步注射，适用分清双色&夹芯填充料制品加工生产。

- When the mold opens, the moving platen is equipped with 180°rotary table unit, by using hydraulic motor or servo motor to drive the rotation, it can make rotary table positioning accurately and quickly
- Machine functions/the synchronous injection of bi-component heterogeneous materials injection unit, is suitable for the processing and manufacturing of dual color &sandwich material products

根据顾客需求, 支持多组份成型的定制!

We fully support multicomponent molding solutions based on customer's requirements !



M系列 混色/夹芯注塑机

M series mixed color/sandwich machine



- 采用两个注射单元 / 单流道射胶, 先由模腔壁 / 表层注塑临固, 再由另类填充料注入型腔成型。

- 匹配专用双位控制器, 两单元注射工艺各可单独设定与实时控制, 并可改用混双色制品加工, 产出多彩夺目优胜制品。

M系列支持顾客方案定制

M series-Supporting customized solutions

- Adopting two injection units/single runner injection, first injection from mold cavity wall/surface injection solidification, then inject with another filling material to cavity for molding
- Equipped with specialized two-position controller, which can achieve separate setting and timely control of the two injection units processing technic. Besides, it can be used for the production of mixed color products and make colorful&high quality products

国际标准型号	INTERNATIONAL CLASS NO.	S150A				S170A				S270A				S360A				S550A													
规格	SPECIFICATION	注 Injection 1(268)		注 Injection 2(158)		注 Injection 1(358)		注 Injection 2(268)		注 Injection 1(358)		注 Injection 2(478)		注 Injection 1(828)		注 Injection 2(478)		注 Injection 1(1380)		注 Injection 2(638)											
螺杆型式	Screw type	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B										
注射装置																															
螺杆直径	Screw diameter mm	30	32	26	28	35	38	32	35	32	35	38	42	45	50	38	42	55	60	42	45										
螺杆长径比	Screw L/D ratio	23.5	22	25.4	24	22	20.3	22	20.1	24.1	22	24.3	22	24.4	22	24.3	22	24	22	23.6	22										
理论注射容量	Shot volume (theoretical) CM ³	117	133	67.6	78	136	192	133	160	136	163	227	277	397	490	227	277	676	805	311	357										
注射重量(ps)	Injection weight (PS) g	106	121	62	70	148	175	121	146	124	148	207	252	361	446	207	252	615	733	283	325										
注射速率	Injection rate g/s	71	81	54.8	62	89	105	81	97	74	89	94	115	136	168	94	115	224	266	139	160										
注射压力	Injection pressure Mpa	230	203	245	195	219	186	203	170	260	219	209	171	207	168	209	171	202	170	203	177										
螺杆转速	Screw speed rpm	0-225		0-215		0-210		0-225		0-210		0-185		0-180		0-185		0-220		0-180											
合模装置																															
合模力	Clamping force KN	1500				1700				2700				3600				5500													
移模行程	Open stroke mm	350				435				560				610				610													
转盘直径	Diameter of rotational mold adapter mm	Φ660				Φ730				Φ1060				Φ1170				Φ1280													
拉杆内间距(宽×高)	Space between tie-bars(W×H) mm	620×410				700×420				950×580				1010×630				1180×700													
最大模厚	Max. mould height mm	430				450				560				630				800													
最小模厚	Min. mould height mm	120				150				200				200				300													
顶出行程	Ejector stroke mm	100				100				110				130				150													
顶出力	Ejector force KN	30×2				30×2				38×2				70×2				110×2													
模具定位中心距	Distance between molds positing centers mm	350				420				490				560				630													
其它																															
最大油泵压力	Pump max. pressure Mpa	16				16				16				16				16													
电机功率(伺服)	Pump motor power (servo) KW	11		7.5		13		11		13		15		22		13		30		18.5											
电热功率	Heating power KW	6.8		6.8		7.5		6.8		7.5		9.3		14.8		9.3		18.8		12.3											
外形尺寸(长×宽×高)	Machine dimension (L×W×H) M	5.2×1.7×1.8				5.4×1.9×2.0				6.4×2.2×2.4				7×2.3×2.6				8.8×2.7×2.72													
机器重量	Machine weight TON	5.2				7				12				16				30													

高精密的象征 Symbol of high precision

D系列高端注塑机·时代需求、支持定制!

D series high end injection machine, the trend of the times, welcome for customized solutions!



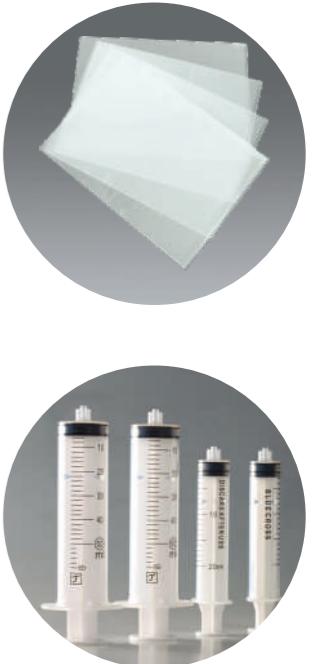
D系列 规格参数

D series technical parameters

国际标准型号	INTERNATIONAL CLASS NO.	90/268			120/358			150/358			180/638		
规格	SPECIFICATION	D90A			D120A			D150A			D180A		
螺杆型式	Screw type	A	B	C	A	B	C	A	B	C	A	B	C
注射装置	Injection Unit												
螺杆直径	Screw diameter mm	28	32	35	32	35	38	32	35	38	42	45	50
螺杆长径比	Screw L/D ratio	24	21	19.2	23	21	19.3	23	21	19.3	23.6	22	19.8
理论注射容量	Shot volume (theoretical) CM ³	92	120	144	136	163	192	136	163	192	291	334	412
注射重量(ps)	Injection weight (PS) g	84	109	131	124	148	175	124	148	175	265	304	375
注射速率	Injection rate g/s	196	256	306	222	265	312	222	265	312	315	362	447
注射压力	Injection pressure Mpa	265	203	170	262	219	186	262	219	186	203	177	143
注射速度	Injection speed mm/s	300			300			300			250		
螺杆转速	Screw speed rpm	400			400			400			350		
合模装置	Clamping Unit												
合模力	Clamping force KN	900			1200			1500			1800		
移模行程	Open stroke mm	320			350			380			435		
拉杆内间距(宽×高)	Space between tie-bars(W×H) mm	360×330			410×370			460×420			490×470		
最大模厚	Max. mould height mm	350			380			450			520		
最小模厚	Min. mould height mm	150			150			160			180		
顶出行程	Ejector stroke mm	90			120			120			140		
顶出力	Ejector force KN	30			38			50			50		
其它	Others												
最大油泵压力	Pump max. pressure Mpa	16			16			16			16		
电机功率(伺服)	Pump motor power (servo) KW	31			57.5			57.5			65		
电热功率	Heating power KW	7.5			9.9			12.3			14.8		
加热段数	Numbers of heating area Segment	3+1			3+1			3+1			3+1		
外形尺寸(长×宽×高)	Machine dimension (L×W×H) M	4.3×1.29×1.9			4.9×1.32×1.95			5.2×1.45×2.1			5.9×1.52×2.2		
油箱容积	Oiltank cubage L	180			190			210			220		
机器重量	Machine weight TON	3.8			4.2			4.8			7		

D系列主要特性

- 熔胶、注射由伺服马达驱动滚珠丝杠动作
- 熔胶背压、注射保压，实现全闭环数控，射出重复精度高达0.01mm
- 合模机构由伺服马达驱动高精定量泵/液压传动
- 整机动作根据制品工艺/实时控制精准运行
- 机器循环全部应用伺服系统/匹配高响应控制器
- 油/电复合机能普遍替代全电机适用超薄&高精度制品加工



D series main features

- The servo motor drives screw ball so to achieve machine pre-plasticizing and injection movement
- Pre-plasticizing, backpressure, injection and holding pressure has realized full closed-loop numerical control, making injection repeat precision reach up to 0.01mm
- The clamping structure consists of servo motor drives high precision fixed pump / hydraulic transmission
- Overall machine movement is timely controlled and accurately run according to products processing technology
- Servo system as well as well-matched high response controller has fully applied to machine cycle
- Hybrid machine has been a popular alternative for full electric machine, which is applicable to ultra-thin-wall and high precision products processing

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创造专利技术 (部分项目) CREATION Proprietary Technology - Portion Item

- 双伺服节能注塑机 Double servo energy-saving injection molding machine
- 双色注塑机转盘离合分度锁紧装置 Double colored injection molding machine rotary table clutch dividing locking device
- 注塑机上拆式动模板滑脚装置 Detachable moving platen sliding foot device
- 注塑机双出轴节能注射油缸 Double-shaft & energy-saving injection cylinder
- 注塑机弹性拉杆螺母 Flexible tie bars nut
- 注塑机空心球面结构的头板 Hollow spherical structure of the cephalic plate
- 注塑机弹性头板 Flexible cephalic plate
- 注塑机单缸注塑机构 Single-cylinder injection structure
- 注塑机电脑操纵箱 Computer control box
- 注塑机液压系统闭环反馈控制装置 Hydraulic system closed-loop feedback control device
- 注塑机单油缸注射装置 Single-cylinder injection cylinder
- 金属压铸机压射装置 Metal die casting machine injection mechanism
- 注塑机注射装置的外延式导杆 Extensional guide-bar for injection device

- 直压锁模增压机构 Direct pressure clamping pressurized construction
- 二板注塑机的旋转抱闸机构 Rotary band-type brake structure of two-platen plastic inject machine
- 注塑机的独立保压机构 Separate pressure maintaining structure
- 注塑机开模位置的精确控制方法 Precision control method of mold-opening position
- 注塑机自动安全门装置 Automatic safety door device
- 注塑机螺杆更换机构 Screw change mechanism
- 油温调控装置 Oil temperature regulation device
- 注塑机动模板设计 Design of moving platen
- 注塑机定模板设计 Design of fixed platen
- 油缸行程可调结构 Adjustable structure of oil cylinder stroke
- 二板注塑机的锁模机构 Clamping mechanism of two-platen machine