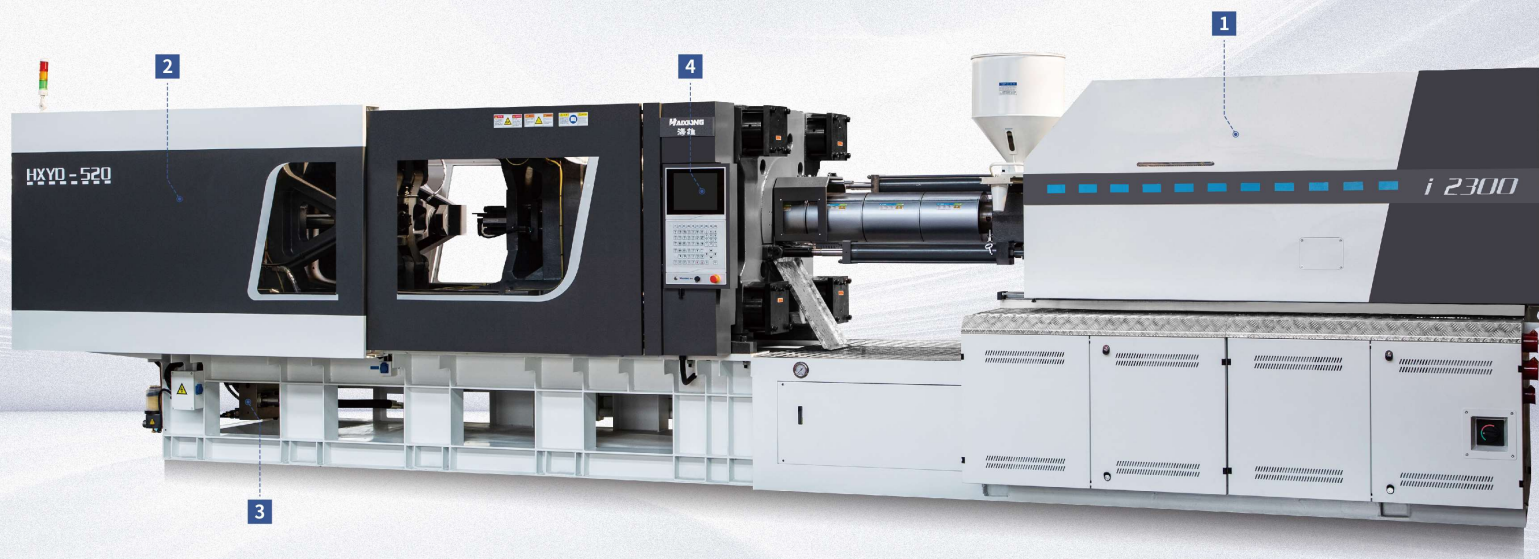


P 产品介绍»

PRODUCT INTRODUCTION

HXYD系列油电复合注塑机,是海雄公司将电动注塑机的优良性能与高效、低能耗的液压驱动单元完美融合,以市场需求为导向,多方位满足客户对注塑机的应用需求而推出的。在具有精密、高效、响应迅速的电动注射性能的同时拥有大的液压锁模力、液压顶出和液压中子,是电动注塑技术与液压注塑技术发展融合的杰作。

HXYD series hybrid injection molding machine is the perfect combination of the excellent performance of full electric injection molding machine and the hydraulic drive unit with high efficiency and low energy consumption by HIGHSUN Company, which is market oriented and launched to meet the application needs of customers for injection molding machines in multiple directions. . It has high hydraulic clamping force, hydraulic ejection and hydraulic core puller while having precise,efficient and fast response electric injection performance. It is a masterpiece of the integration of electric injection technology and hydraulic injection technology.



1 加速性能优异的模块化注射机构
Modular Injection Unit with Excellent Acceleration Performance

2 高刚性的锁模机构
High-stiffness Clamping Unit for High-speed machine

3 高响应、低噪音的液压系统
Hydraulic System with High Response and Low Noise

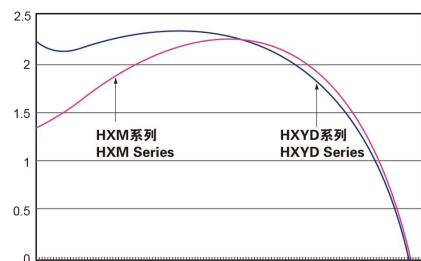
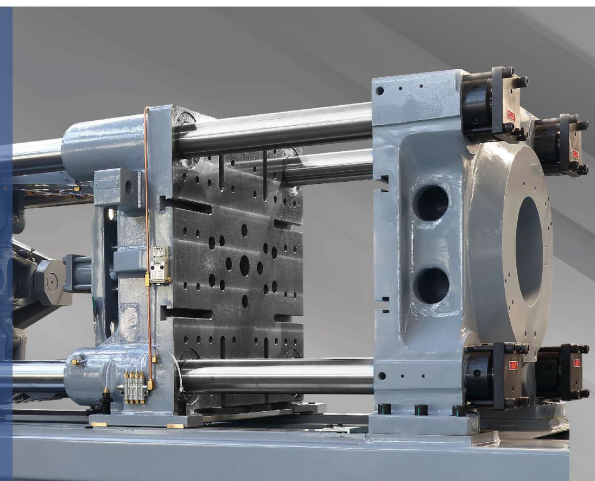
4 响应、高精度的油电机专用控制系统, 节能效果优异
Optimized Control System Excellent in Response and Accuracy for Hybrid Machine

C 锁模单元»

LAMPING UNIT

经过有限元分析优化设计的模板，具有高刚性、高强度的特点。同时全新设计的动模板滑脚结构，加大支撑面积，支撑点前移，充分地保证了模板的平行精度。

The platen optimized by finite element analysis has the characteristics of high rigidity and high strength. And the feet slip structure of movable platen is new designed oblique-wedge. It increases the support area and makes the point forward. While loading the mold. It can effectively keep the parallel precision of the mold-plate



经过优化设计的曲肘连杆机构，具有平稳的运动曲线和更高的强度设计，使合模机构能够在高速运行下动作平稳，并且有更长的使用寿命。

With optimized design of bent elbow connecting rod clamping structure, it has a smooth movement curve. With higher strength design, it makes the unit run steadily and have a longer service life.



开合模使用数字通讯的非接触式位移传感器。具有开合模速度快而稳，位置测量精准，重复精度高的特点。

Adopt digital communication non-contact displacement sensor for mold open/clamp, which has feature of more fast and stable, higher accuracy of position measurement and higher precision of repetition.

注射单元»

INJECTING UNIT



对称的双座移油缸结构，消除了作用在定模板上的力矩，使喷嘴与模具的接触比电动结构更加可靠。

The symmetrical double-seat oil cylinder-moving structure eliminates the moment acting on the fixed platen, making the contact between the nozzle and the mold more reliable than the electric structure



注射单元的结构经过优化，实现了注射的高频响应特性和注射、保压、背压各个动作的精确控制。使机器具有高响应、高重复精度、高使用寿命的优点。

The structure of the injection unit is optimized to realize the high-frequency response characteristics of injection and precise control of each action of injection, pressure holding and back pressure. Make the machine have the advantages of high response, high repeatability and long service life.



带负载时注射响应快，加速性能优异。更快的注射加速度能使产品成型更轻松。

The injection response is more fast under load, the acceleration performance is more excellent. Quicker injection acceleration can make molding more easily.

H 液压及控制系统

HYDRAULIC & CONTROL SYSTEM



采用油电复合机专用控制系统,通过Ether CAT总线通讯,实现电脑控制器、伺服驱动器、伺服电机的闭环控制和数据共享。控制系统支持实时能耗监测以及单个产品能耗测算,为客户提供精确的成本计算。

It adopts the special control system of electricity and oil hybrid machine and realizes the closed-loop control and data sharing of the computer controller, servo driver and servo motor by Ether CAT bus communication. The control system supports real-time energy consumption monitoring and single product energy consumption measurement, providing customers with accurate cost calculation.



液压动力系统使用高响应、大扭矩、低惯性、低噪音的电机,配合改良后的螺杆泵,给客户带来无与伦比的高性能和低噪音感受,并在低压模具保护和振动脱模上有更加突出的表现。

The hydraulic power system standard with higher response, stronger torque, lower inertia, lower noise of motor, match well with improved screw pump, to bring customers unique feeling of higher performance and quieter noise. and achieve outstanding performance of low-pressure mould protection and vibration eject.



顶出部分液压控制,完美契合需要使用中子的模具,避免了全电动注塑机需要增加液压站才能满足带中子模具的生产需求。为客户节省了空间与成本。

The ejector unit is controlled by hydraulic pressure, which perfectly fits the mould that needs to use core-pulling. It avoids the need of adding hydraulic station for full-electric injection molding machine to meet the production demand of the mould with core-pulling. It can save space and cost for customers.

HXYD 系列应用领域

MAIN APPLICATIONS FOR HXYD SERIES

高端包装行业 High-grade Packaging Industry



针对快速消费品的塑料包装行业提升,相比传统的高速机,HXYD系列可使用低熔融指数的原料生产,节省原料成本的同时增加了产品的韧性,可降低设备合模力以及能耗,提高设备的使用寿命。对可降解的环保材料比如PLA,也能轻松驾驭。

Improve the plastic packaging industry of FMCG : Compared with traditional high-speed machines, HXYD series can compatible with raw material with lower MFI, saving raw material cost and increasing the toughness of products. Meanwhile, it can reduce the clamping force and energy consumption as well as improve the lifetime of the machine. Especially easily compatible and suitable with the biodegradable materials such as PLA.

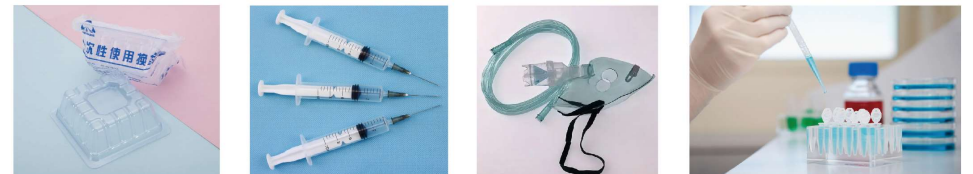
高端日用品行业 High-end household wares



针对流长比较大的高端日用品,比如花盆、收纳篮等,能满足薄壁产品和一模多穴产品的短生产周期和稳定的产品工艺的要求。同时产品能耗降低,稳定性和重复性有明显提升。

Specially for some household wares which have larger flow-length ratio, such as flower pot and basket, etc. it can satisfy the needs of quicker cycle time and stable process for thin-wall and multi-cavity products. Meanwhile, it can provide less of energy consumption and improve the stability and repeatability obviously.

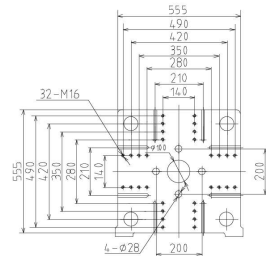
医疗用品行业 Medical products industry



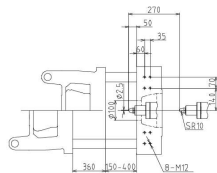
HXYD60

产品规格	SPECIFICATIONS	UNIT						
注射单元	INJECTION UNIT							
螺杆直径	Screw diameter	mm	18	20	22	22	25	28
螺杆长径比	Screw L/D ratio	L/D	22	22	22	22	22	22
理论注射容积	Injection capacity in theory	cm ³	25	31	38	49	63	80
注射重量	Injection weight(ps)	g	23	28	34	44	58	72
注射压力	Injection pressure	MPa	3266	2662	2200	2841	2200	1754
塑化能力	Plasticizing capacity	g/s	2	3	5	5	7	10
螺杆转速	Screw speed	rpm	400			400		
注射单元	Injection Unit		i100H			i180H		
注射速度	Injection velocity	mm/s	350			350		
电机功率	Motor power	kW	18(注)+8(增)+16(油)			21(注)+8(增)+16(油)		
注射单元	Injection Unit		i100HS			i180HS		
注射速度	Injection velocity	mm/s	500			500		
电机功率	Motor power	kW	27(注)+8(增)+16(油)			27(注)+8(增)+16(油)		
合模单元	CLAMPING UNIT							
合模力	Clamping force	kN	600					
移动模板行程	Moving mould-plate stroke	mm	350					
最大模厚	Max.Mould height	mm	400					
最小模厚	Min.Mould height	mm	150					
拉杆有效间距	Space between tie-bars	mm	360×360					
液压顶出力	Hydraulic ejector force	kN	44					
液压顶出行程	Hydraulic ejector stroke	mm	120					
顶出点数	Ejector number	n	5					
其它	OTHER							
油泵压力	Pump pressure	MPa	16					
加热功率	Heating capacity	kW	5			7		
外形尺寸	Machine dimension	m	4.5×1.2×2.0			4.5×1.2×2.0		
机器重量	Machine wight	t	3.5			3.5		
油箱容积	Oil tank capacity	L	160			160		

模板正面尺寸
Platen Dimensions(frontal)



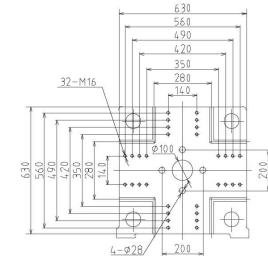
模板侧面尺寸
Platen Dimensions(flank)



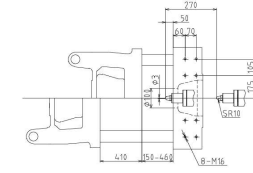
HXYD100

产品规格	SPECIFICATIONS	UNIT						
注射单元	INJECTION UNIT							
螺杆直径	Screw diameter	mm	22	25	28	28	32	36
螺杆长径比	Screw L/D ratio	L/D	22	22	22	22	23	21
理论注射容积	Injection capacity in theory	cm ³	49	63	80	110	144	183
注射重量	Injection weight(ps)	g	44	58	72	100	131	166
注射压力	Injection pressure	MPa	2841	2200	1754	2612	2000	1580
塑化能力	Plasticizing capacity	g/s	5	7	10	10	16	22
螺杆转速	Screw speed	rpm	400			400		
注射单元	Injection Unit		i180H			i280H		
注射速度	Injection velocity	mm/s	350			350		
电机功率	Motor power	kW	21(注)+8(增)+16(油)			33(注)+17(增)+16(油)		
注射单元	Injection Unit		i180HS					
注射速度	Injection velocity	mm/s	500					
电机功率	Motor power	kW	27(注)+8(增)+16(油)					
合模单元	CLAMPING UNIT							
合模力	Clamping force	kN	1000					
移动模板行程	Moving mould-plate stroke	mm	410					
最大模厚	Max.Mould height	mm	460					
最小模厚	Min.Mould height	mm	150					
拉杆有效间距	Space between tie-bars	mm	420×420					
液压顶出力	Hydraulic ejector force	kN	44					
液压顶出行程	Hydraulic ejector stroke	mm	120					
顶出点数	Ejector number	n	5					
其它	OTHER							
油泵压力	Pump pressure	MPa	16					
加热功率	Heating capacity	kW	7			10.5		
外形尺寸	Machine dimension	m	4.9×1.3×2.0			4.9×1.3×2.0		
机器重量	Machine wight	t	3.5			4.5		
油箱容积	Oil tank capacity	L	170					

模板正面尺寸
Platen Dimensions(frontal)



模板侧面尺寸
Platen Dimensions(flank)

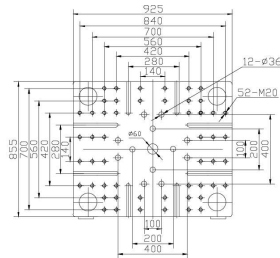


产品技术参数更改,恕不另行通知 Due to continual improvement,specifications are subject to change without notification

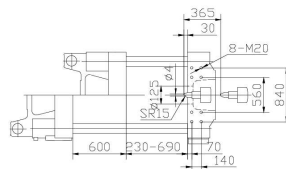
HXYD280

产品规格	SPECIFICATIONS	UNIT	i650H			i900H			i1000H		
注射单元	INJECTION UNIT										
螺杆直径	Screw diameter	mm	40	45	50	45	50	55	50	55	60
螺杆长径比	Screw L/D ratio	L/D	22	20	20	22.2	20	20	22	20	20
理论注射容积	Injection capacity in theory	cm ³	263	334	412	381	471	570	471	570	678
注射重量	Injection weight(ps)	g	240	303	375	347	428	518	428	518	617
注射压力	Injection pressure	MPa	2531	2000	1620	2469	2000	1653	2178	1800	1513
塑化能力	Plasticizing capacity	g/s	30	42	50	42	50	60	50	60	75
螺杆转速	Screw speed	rpm	400			400			400		
注射速度	Injection velocity	mm/s	350			350			350		
电机功率	Motor power	kW	47(注)+25(增)+38(油)			60(注)+25(增)+38(油)			60(注)+30(增)+38(油)		
合模单元	CLAMPING UNIT										
合模力	Clamping force	kN				2800					
移动模板行程	Moving mould-plate stroke	mm				600					
最大模厚	Max.Mould height	mm				690					
最小模厚	Min.Mould height	mm				230					
拉杆有效间距	Space between tie-bars	mm				660×590					
液压顶出力	Hydraulic ejector force	kN				78					
液压顶出行程	Hydraulic ejector stroke	mm				150					
顶出点数	Ejector number	n				13					
其它	OTHER										
油泵压力	Pump pressure	MPa				16					
加热功率	Heating capacity	kW	13.55			13.55			16.83		
外形尺寸	Machine dimension	m	7.1×1.6×2.1			7.1×1.6×2.1			7.1×1.6×2.1		
机器重量	Machine wight	t	9.5			9.8			10		
油箱容积	Oil tank capacity	L				412					

模板正面尺寸
Platen Dimensions(frontal)



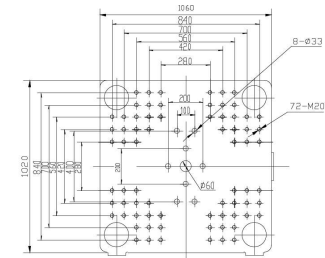
模板侧面尺寸
Platen Dimensions(flank)



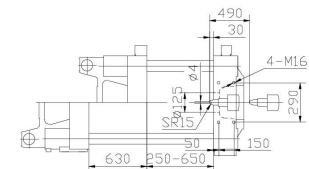
HXYD350

产品规格	SPECIFICATIONS	UNIT	i900H			i1000H			i1400H		
注射单元	INJECTION UNIT										
螺杆直径	Screw diameter	mm	45	50	55	50	55	60	55	60	65
螺杆长径比	Screw L/D ratio	L/D	22.2	20	20	22	20	20	21.8	20	20
理论注射容积	Injection capacity in theory	cm ³	381	471	570	471	570	678	665	791	929
注射重量	Injection weight(ps)	g	347	428	518	428	518	617	605	720	845
注射压力	Injection pressure	MPa	2469	2000	1653	2178	1800	1513	2142	1800	1534
塑化能力	Plasticizing capacity	g/s	42	50	60	50	60	75	60	75	90
螺杆转速	Screw speed	rpm	400			400			400		
注射速度	Injection velocity	mm/s	350			350			350		
电机功率	Motor power	kW	60(注)+25(增)+47(油)			60(注)+30(增)+47(油)			67(注)+44(增)+47(油)		
合模单元	CLAMPING UNIT										
合模力	Clamping force	kN				3500					
移动模板行程	Moving mould-plate stroke	mm				630					
最大模厚	Max.Mould height	mm				650					
最小模厚	Min.Mould height	mm				250					
拉杆有效间距	Space between tie-bars	mm				710×660					
液压顶出力	Hydraulic ejector force	kN				125					
液压顶出行程	Hydraulic ejector stroke	mm				180					
顶出点数	Ejector number	n				13					
其它	OTHER										
油泵压力	Pump pressure	MPa				16					
加热功率	Heating capacity	kW	16.83			20.3			24.3		
外形尺寸	Machine dimension	m	7.32×1.88×2.21			7.32×1.88×2.21			7.32×1.88×2.28		
机器重量	Machine wight	t	13.2			13.5			14.1		
油箱容积	Oil tank capacity	L				530					

模板正面尺寸
Platen Dimensions(frontal)



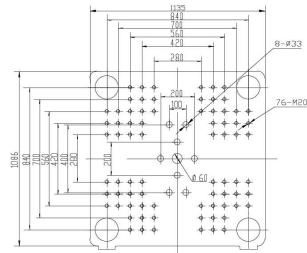
模板侧面尺寸
Platen Dimensions(flank)



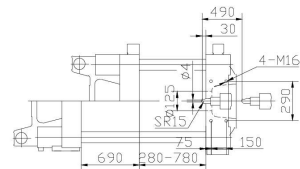
HXYD430

产品规格	SPECIFICATIONS	UNIT	i1000H			i1400H			i1600H		
注射单元	INJECTION UNIT										
螺杆直径	Screw diameter	mm	50	55	60	55	60	65	60	65	70
螺杆长径比	Screw L/D ratio	L/D	22	20	20	21.8	20	20	21.6	20	20
理论注射容积	Injection capacity in theory	cm ³	471	570	678	665	791	929	791	929	1078
注射重量	Injection weight(ps)	g	428	518	617	605	720	845	720	845	980
注射压力	Injection pressure	MPa	2178	1800	1513	2142	1800	1534	2000	1704	1469
塑化能力	Plasticizing capacity	g/s	50	60	75	60	75	90	75	90	110
螺杆转速	Screw speed	rpm	400			400			400		
注射速度	Injection velocity	mm/s	350			350			350		
电机功率	Motor power	kW	60(注)+30(增)+30+30(油)			67(注)+44(增)+30+30(油)			67(注)+44(增)+30+30(油)		
合模单元	CLAMPING UNIT										
合模力	Clamping force	kN	4300								
移动模板行程	Moving mould-plate stroke	mm	690								
最大模厚	Max.Mould height	mm	780								
最小模厚	Min.Mould height	mm	280								
拉杆有效间距	Space between tie-bars	mm	760×710								
液压顶出力	Hydraulic ejector force	kN	180								
液压顶出行程	Hydraulic ejector stroke	mm	180								
顶出点数	Ejector number	n	13								
其它	OTHER										
油泵压力	Pump pressure	MPa	16								
加热功率	Heating capacity	kW	20.3			24.3			28		
外形尺寸	Machine dimension	m	7.65×1.95×2.26			7.65×1.95×2.26			7.65×1.95×2.26		
机器重量	Machine wight	t	17.1			17.5			17.9		
油箱容积	Oil tank capacity	L	690								

模板正面尺寸
Platen Dimensions(frontal)



模板侧面尺寸
Platen Dimensions(flank)

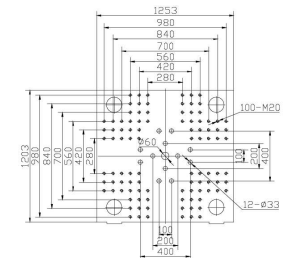


产品技术参数更改,恕不另行通知 Due to continual improvement,specificationms are subject to change without notification

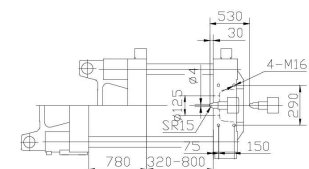
HXYD530

产品规格	SPECIFICATIONS	UNIT	i1400H			i1600H			i2300H		
注射单元	INJECTION UNIT										
螺杆直径	Screw diameter	mm	55	60	65	60	65	70	65	70	75
螺杆长径比	Screw L/D ratio	L/D	21.8	20	20	21.6	20	20	21.5	20	20
理论注射容积	Injection capacity in theory	cm ³	665	791	929	791	929	1078	1128	1308	1502
注射重量	Injection weight(ps)	g	605	720	845	720	845	980	1027	1191	1367
注射压力	Injection pressure	MPa	2142	1800	1534	2000	1704	1469	2088	1800	1568
塑化能力	Plasticizing capacity	g/s	60	75	90	75	90	105	90	105	120
螺杆转速	Screw speed	rpm	400			400			400		
注射速度	Injection velocity	mm/s	350			350			350		
电机功率	Motor power	kW	67(注)+44(增)+38+38(油)			67(注)+44(增)+38+38(油)			60+60(注)+59(增)+38+38(油)		
合模单元	CLAMPING UNIT										
合模力	Clamping force	kN	5300								
移动模板行程	Moving mould-plate stroke	mm	870								
最大模厚	Max.Mould height	mm	830								
最小模厚	Min.Mould height	mm	330								
拉杆有效间距	Space between tie-bars	mm	860×840								
液压顶出力	Hydraulic ejector force	kN	180								
液压顶出行程	Hydraulic ejector stroke	mm	230								
顶出点数	Ejector number	n	17								
其它	OTHER										
油泵压力	Pump pressure	MPa	16								
加热功率	Heating capacity	kW	24.3			28			30		
外形尺寸	Machine dimension	m	8.13×2.09×2.32			8.13×2.09×2.32			8.13×2.09×2.32		
机器重量	Machine wight	t	17.5			22.3			23		
油箱容积	Oil tank capacity	L	650								

模板正面尺寸
Platen Dimensions(frontal)



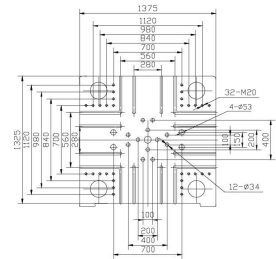
模板侧面尺寸
Platen Dimensions(flank)



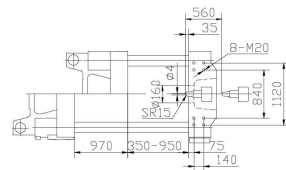
HXYD600

产品规格	SPECIFICATIONS	UNIT	i1600H			i2300H			i2700H		
注射单元	INJECTION UNIT										
螺杆直径	Screw diameter	mm	60	65	70	65	70	75	70	75	80
螺杆长径比	Screw L/D ratio	L/D	21.6	20	20	21.5	20	20	21.4	20	20
理论注射容积	Injection capacity in theory	cm ³	791	929	1078	1128	1308	1502	1308.47	1502.07	1709.03
注射重量	Injection weight(ps)	g	720	845	980	1027	1191	1367	1190.71	1366.89	1555.21
注射压力	Injection pressure	MPa	2113	1800	1552	2088	1800	1568	2066.33	1800	1582.03
塑化能力	Plasticizing capacity	g/s	75	90	105	90	105	120	112	125	145
螺杆转速	Screw speed	rpm	400			400			400		
注射速度	Injection velocity	mm/s	350			350			350		
电机功率	Motor power	kW	67(注)+44(熔)+38+38(油)			60+60(注)+53(熔)+38+38(油)			67+67(注)+62(熔)+38+38(油)		
合模单元	CLAMPING UNIT										
合模力	Clamping force	kN	6000								
移动模板行程	Moving mould-plate stroke	mm	970								
最大模厚	Max.Mould height	mm	950								
最小模厚	Min.Mould height	mm	350								
拉杆有效间距	Space between tie-bars	mm	970×920								
液压顶出力	Hydraulic ejector force	kN	200								
液压顶出行程	Hydraulic ejector stroke	mm	260								
顶出点数	Ejector number	n	17								
其它	OTHER										
油泵压力	Pump pressure	MPa	16								
加热功率	Heating capacity	kW	28			30			34		
外形尺寸	Machine dimension	m	8.79×2.14×2.57			9.51×2.27×2.65			9.61×3.34×2.83		
机器重量	Machine wight	t	26			28			29		
油箱容积	Oil tank capacity	L	969								

模板正面尺寸
Platen Dimensions(frontal)



模板侧面尺寸
Platen Dimensions(flank)

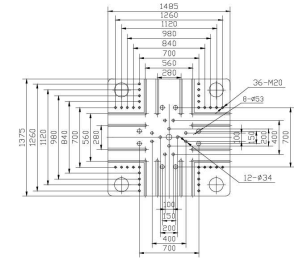


产品技术参数更改,恕不另行通知 Due to continual improvement,specificationms are subject to change without notification

HXYD700

产品规格	SPECIFICATIONS	UNIT	i2300H			i2700H			i3300H		
注射单元	INJECTION UNIT										
螺杆直径	Screw diameter	mm	65	70	75	70	75	80	75	80	85
螺杆长径比	Screw L/D ratio	L/D	21.5	20	20	21.4	20	20	21.3	20	20
理论注射容积	Injection capacity in theory	cm ³	1128	1308	1502	1308.47	1502.07	1709.03	1634.41	1859.82	2099.57
注射重量	Injection weight(ps)	g	1027	1191	1367	1190.71	1366.89	1555.21	1487.5	1692.44	1910.6
注射压力	Injection pressure	MPa	2088	1800	1568	2066.33	1800	1582.03	2048	1800	1594.46
塑化能力	Plasticizing capacity	g/s	90	105	120	112	125	145	128	150	162
螺杆转速	Screw speed	rpm	400			400			400		
注射速度	Injection velocity	mm/s	350			350			350		
电机功率	Motor power	kW	60+60(注)+53(熔)+38+38(油)			67+67(注)+62(熔)+38+38(油)			67+67(注)+62(熔)+38+38(油)		
合模单元	CLAMPING UNIT										
合模力	Clamping force	kN	7000								
移动模板行程	Moving mould-plate stroke	mm	950								
最大模厚	Max.Mould height	mm	960								
最小模厚	Min.Mould height	mm	400								
拉杆有效间距	Space between tie-bars	mm	1000×950								
液压顶出力	Hydraulic ejector force	kN	200								
液压顶出行程	Hydraulic ejector stroke	mm	280								
顶出点数	Ejector number	n	17								
其它	OTHER										
油泵压力	Pump pressure	MPa	16								
加热功率	Heating capacity	kW	30			34.85			38.85		
外形尺寸	Machine dimension	m	9.67×2.45×2.95			10.79×2.45×3.31			11.74×2.45×3.65		
机器重量	Machine wight	t	31			33			34		
油箱容积	Oil tank capacity	L	1067								

模板正面尺寸
Platen Dimensions(frontal)



模板侧面尺寸
Platen Dimensions(flank)

