

宝捷精机 PowerJet



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注塑机产品系列

标准机系列

- V系列节能型注塑机
- S系列伺服节能注塑机
- DP系列两板大型注塑机
- K系列快速注塑机
- JE系列全电动注塑机

专用机系列

- KF系列高速薄壁专用注塑机
- KE系列医疗器械高速专用注塑机
- PET系列瓶坯专用注塑机
- HPET系列高速瓶坯注塑系统
- LD系列全自动注拉吹中空成型机
- IBM系列注吹专用注塑机
- BJM系列多物料专用注塑机
- SI系列硅胶专用注塑机
- PB系列制桶专用注塑机
- FB系列果筐专用注塑机
- PVC系列管件专用注塑机
- T系列电木专用注塑机
- F系列尼龙扎带专用注塑机
- PE双壁波纹管承插口注射成型机

Injection Molding Machine Series

Standard Series

- V-series Energy-saving Injection Molding Machine
- S-series Servo Energy-saving Injection Molding Machine
- DP-series Large Two-platen Injection Molding Machine
- K-series High Speed Injection Molding Machine
- JE-series Full-electric Injection Molding Machine

Special Injection Molding Machine Series

- KF-series High Speed Injection Molding Machine for Thin-wall Products
- KE-series High Speed Injection Molding Machine for Medical Instrument
- PET-series Preform Injection Molding Machine
- HPET-series High Speed Preform Injection System
- LD-series automatic Injection & Stretch Blow Molding Machine
- IBM-series Injection & Blow Molding Machine
- BJM-series Multic Material Injection Molding Machine
- SI-series Silicone Injection Molding Machine
- PB-series Paint Bucket Injection Molding Machine
- FB-series Fruit Basket Injection Molding Machine
- PVC-series Special Injection Molding Machine for PVC/PPR Fitting
- T-series Bakelite Injection Molding Machine
- F-series Injection Molding Machine for Nylon Ribbon
- PE Special IMM for Double-wall Corrugated Pipe Socket

宝捷策划2015年9月印



PET Series 高速瓶坯专用注塑机

Preform Injection Molding Machine

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PET Series 高速瓶坯专用注塑机

Preform Injection Molding Machine



主要特点 Main Characteristic

- 采用PET专用螺杆，显著提高熔胶速度和注射量、降低塑化温度与AA值，有效改善瓶坯的收缩，提高透明度；
- 变量泵控制系统比常规机器节电25%~45%；伺服控制系统比常规机器节电30%~50%。
- 机器规格齐全，适应多种不同瓶坯的选择，目前最大注射量：5000g；
- 加大顶出力及顶出行程，适应瓶坯的顶出要求；
- 锁模部份全封闭钣金结构，符合卫生和温控要求；
- 带模具针阀控制接口；
- 选配同步保压系统，可提高产能15%~25%；
- 可提供全套PET瓶生产工艺及设备，包括：注塑机、吹瓶机、模具及相关的其他设备。



- Specially made PET screw highly increases the plasticizing speed and shot weight, lowers the plasticizing speed and show weight, lowers the plasticizing temperature and AA value, also lowers the shearing of perform, while achieves better transparency.
- The servo motor control system can save energy by 30% ~ 50%, while the variable pump control system can save energy by 25% ~ 45%.
- Different models are available for the choice of customers, Max. shot weight: 5000g
- Increasing eject force ejector stroke, accepts PET perform molding.
- Whole closed safe door meets the requirement of sanitary and thermo-control.
- Hot runner system interface is included.
- Optional with pressure holding and charge at the same time, which can increase the output by 15% ~ 25%.
- Whole production project can be provided, including moulds, injection molding machine, PET stretch blow molding machine and auxiliary equipments.



同步保压装置
Pressure holding and charge at the same time

参数表 Parameter

说明	DESCRIPTION	单位	PET-350V6	PET-350S6	PET-450V6	PET-450S6	PET-500V6	PET-500S6	PET-800V6	PET-800S6	PET-850V6	PET-850S6	PET-1200V6	PET-1200S6	PET-1205V6	PET-1205S6	PET-1500V6	PET-1500S6	PET-1505V6	PET-1505S6	PET-2050V6	PET-2050S6	PET-2100V6	PET-2100S6	PET-2105V6	PET-2105S6		
国际公认型号	International size rating	UNIT	1280-424		1280-616		1600-616		1600-736		2000-950		2000-1088		2880-1088		2880-1440		3300-1440		2880-2124		3300-2124		4000-2500			
注射装置 INJECTION UNIT																												
螺杆直径	Screw diameter	mm	46		52		52		60		60		67		67		75		75		83		83		83			
理论注射容积	Shot volume	cm ³	333		435		435		693		693		952		952		1303		1303		1840		1840		1786			
注射量(PS)	Shot weight(@PS1.05)	g	297		388		388		619		619		850		850		1163		1163		1642		1642		1594			
注射量(PET)	Shot weight(@PET1.3)	g	387		506		506		806		806		1108		1108		1516		1516		2141		2141		2078			
注射量(PP)	Shot weight(@PP0.9)	g	240		313		313		499		499		685		685		938		938		1325		1325		1286			
注射行程	Screw stroke	mm	200		205		205		245		245		270		270		295		295		340		340		330			
锁模单元 CLAMPING UNIT																												
锁模力	Clamping force	KN	1280		1280		1600		1600		2000		2000		2880		2880		3300		2880		3300		4000			
开模行程	Opening stroke	mm	350		350		440		440		490		490		550		550		600		550		600		710			
模板最大开距	Max.daylight	mm	750		750		940		940		1040		1040		1160		1160		1300		1160		1300		1440			
导柱内距(水平×垂直)	Space between bars(H×V)	mm×mm	410×410		410×410		460×460		460×460		510×510		510×510		610×610		610×610		670×670		610×610		670×670		740×720			
模板尺寸(水平×垂直)	Movable platen size(H×V)	mm×mm	610×610		610×610		705×705		705×705		775×755		775×755		850×850		850×850		985×985		850×850		985×985		1050×1050			
最大模厚	Max.mold height	mm	400		400		500		500		550		550		610		610		700		610		700		730			
最小模厚	Min.mold height	mm	145		145		160		160		230		230		280		280		300		280		300		300			
顶针行程	Ejector stroke	mm	100		100		145		145		160		160		175		175		175		175		180		210			
顶出力	Ejector force	KN	60		60		75		75		99		99		111		111		184		111		184		184			
顶退力	Ejector force	KN	36		36		55		55		77		77		77		77		115		77		115		115			
顶针数目	Number of ejector pins		4+1		4+1		4+1		4+1		6+1		6+1		4+1		4+1		12+1		4+1		12+1		12+1			
动力/电热 POWER UNIT																												
油压系统压力	Hydraulic system pressure	Mpa	17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5			
油泵电机功率	Pump motor power	KW	11		15		15		18.5		18.5		22		22		30		30		30		37		37			
加热功率	Heater power	KW	10		12.5		12.5		15		15		16.5		16.5		20		20		28		28		28			
总电流	Total current	A	65	81	86.8	90	86.8	90	104.1	108	104.1	108	117.5	150	117.5	150	147.5	171	147.5	171	197	207	197	207	197	207		
其他 GENERAL																												
油箱容量	Oil tank capacity	L	200		200		280		280		420		420		560		560		560		650		650		650			
理论机重	Machine weight	Ton	3.6		3.6		4.5		4.9		6.4		6.4		8.8		8.8		10.5		9		10.6		15			
外形尺寸	Machine dimensions(L×W×H)	m×m×m	4.5×1.2×1.8		4.5×1.2×1.8		5.3×1.3×1.8		5.3×1.3×1.8		6.0×1.4×2.1		6.0×1.4×2.1		6.5×1.53×2.2		6.5×1.53×2.2		7.1×1.62×2.3		7.1×1.62×2.3		7.1×1.62×2.3		7.2×1.65×2.3			

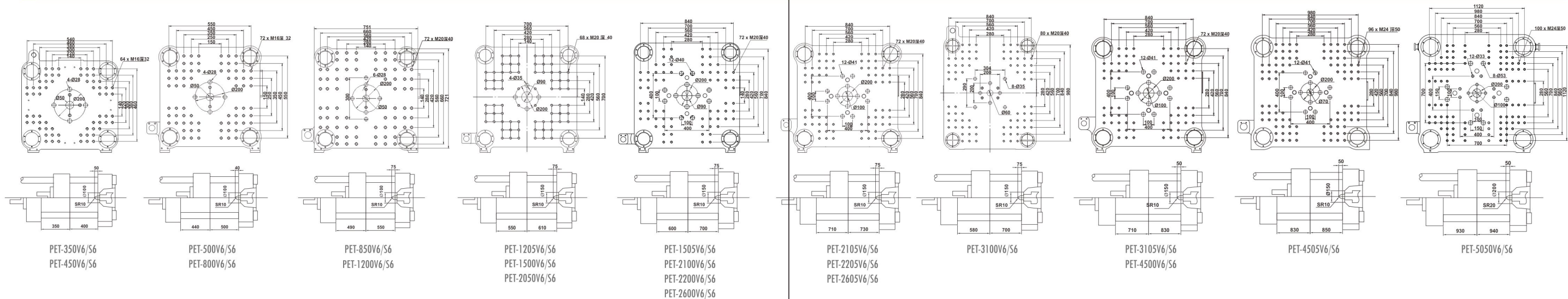
* 本公司根据产品提升的需要，可对技术参数、部份元件配置及服务内容进行更改，恕不另行通知。
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参数表 Parameter

说明	DESCRIPTION	单位	PET-2200V6	PET-2200S6	PET-2205V6	PET-2205S6	PET-2600V6	PET-2600S6	PET-2605V6	PET-2605S6	PET-3105V6	PET-3105S6	PET-4500V6	PET-4500S6	PET-4505V6	PET-4505S6	PET-5050V6	PET-5050S6	PET-1200VH	PET-2100VH	PET-4500VH
国际公认型号	International size rating	UNIT	3300-2124		4000-2500		3300-2720		4000-2720		4000-2873		4000-5310		4000-5310		6800-4340		2000-5310	2000-2124	2000-5310
注射装置 INJECTION UNIT																					
螺杆直径	Screw diameter	mm	83		83		90		90		95		105		105		110		67	83	105
理论注射容积	Shot volume	cm ³	1840		1786		2290		2290		2694		3897		3897		4276		952	1840	3897
注射量 (PS)	Shot weight(@PS1.05)	g	1642		1594		2044		2044		2404		3478		3478		3816		850	1642	3478
注射量 (PET)	Shot weight(@PET1.3)	g	2141		2078		2664		2664		3134		4534		4534		4975		1108	2141	4534
注射量 (PP)	Shot weight(@PP0.9)	g	1325		1286		1649		1649		1940		2806		2806		3079		685	1325	2806
注射行程	Screw stroke	mm	340		330		360		360		380		450		450		450		270	340	450
锁模单元 CLAMPING UNIT																					
锁模力	Clamping force	KN	3300		4000		3300		4000		4000		4000		5000		6800		2000	2000	2000
开模行程	Opening stroke	mm	600		710		600		710		710		710		830		930		900	900	900
模板最大开距	Max.daylight	mm	1300		1440		1300		1440		1540		1540		1680		1870		1820	1820	1820
导柱内距 (水平 × 垂直)	Space between bars(H×V)	mm×mm	670×670		740×720		670×670		740×720		740×720		740×720		820×780		930×930		700×700	700×700	700×700
模板尺寸 (水平 × 垂直)	Movable platen size(H×V)	mm×mm	985×985		1050×1050		985×985		1050×1050		1050×1050		1050×1050		1260×1260		1340×1340		470×470	470×470	470×470
最大模厚	Max.mold height	mm	700		730		700		730		830		830		850		940		920	920	920
最小模厚	Min.mold height	mm	300		300		300		300		300		300		300		350		600	600	600
顶针行程	Ejector stroke	mm	180		210		180		210		210		210		220		300		180	180	180
顶出力	Ejector force	KN	184		184		184		184		184		184		289		300		77	77	77
顶退力	Ejector force	KN	115		115		115		115		115		115		201		180		-	-	-
顶针数目	Number of ejector pins		12+1		12+1		12+1		12+1		12+1		12+1		12+1		15+1		-	-	-
动力/电热 POWER UNIT																					
液压系统压力	Hydraulic system pressure	Mpa	17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5	17.5	17.5
油泵电机功率	Pump motor power	KW	45		45		45		45		45		55	25+30	55		37+37		22	37	55
加热功率	Heater power	KW	28		28		36		36		36		40		40		42		16.5	28	40
总电流	Total current	A	220		197	220	220	244	220	244	243.9	244	286.8		286.8		327.5		-	-	-
其他 GENERAL																					
油箱容量	Oil tank capacity	L	650		650		650		650		800		1000		1000		1000		420	650	1000
理论机重	Machine weight	Ton	10.6		15		12		15		15.3		19		22		35		6	9	12
外形尺寸	Machine dimensions(L×W×H)	m×m×m	7.1×1.62×2.3		7.2×1.65×2.3		7.2×2.0×2.5		7.3×2.0×2.5		7.4×1.65×2.3		9×2.05×2.3		9.3×2.1×2.3		9.5×2.4×2.5		6.8×1.5×2	7.5×1.6×2	8.2×1.6×2

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模板尺寸 Platen Dimensions

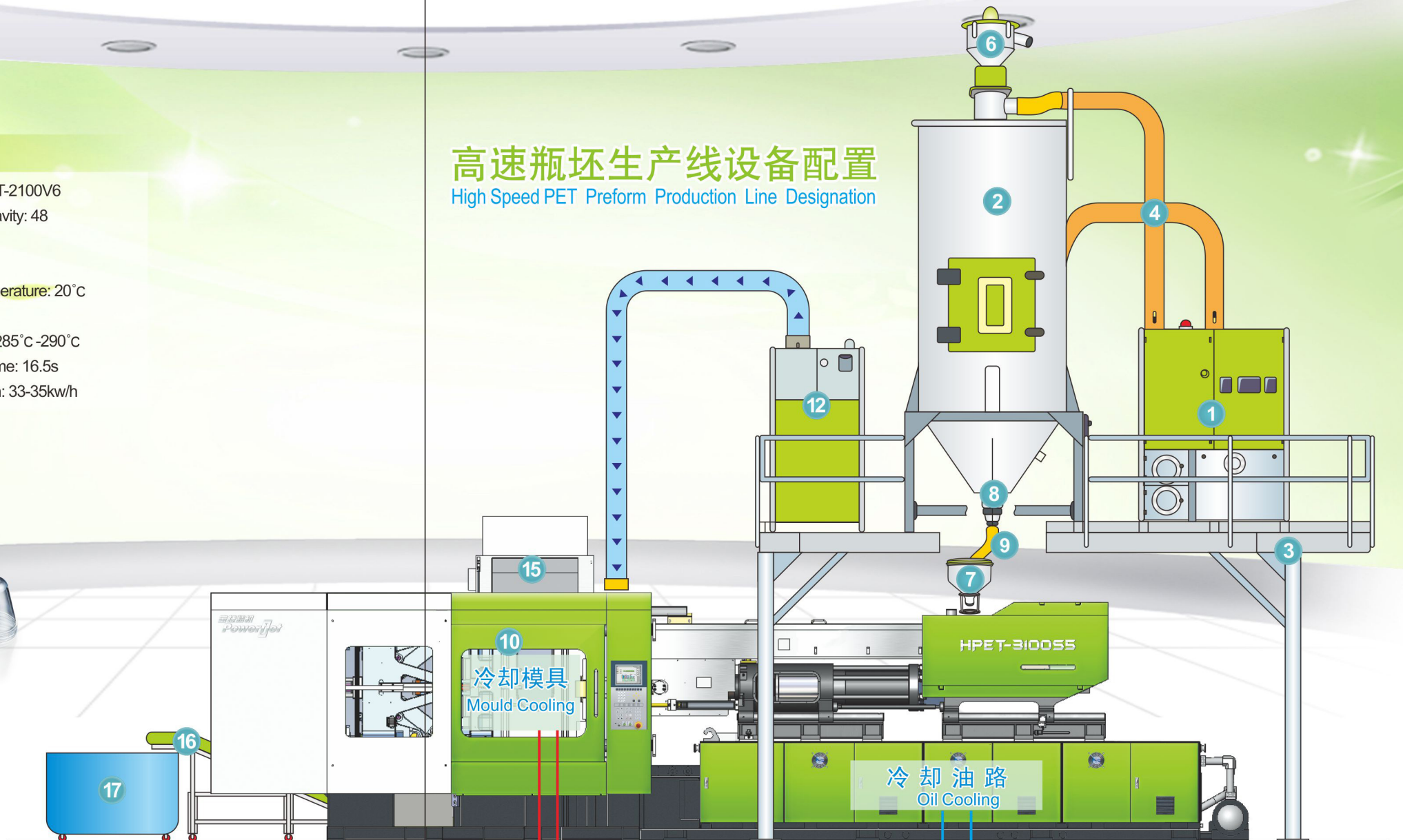


生产实例 Production Instance

注塑机型号: PET-2100V6	Machine Model: PET-2100V6
热流道模具模腔数: 48	Hot Runner Mold Cavity: 48
单个产品重量: 16g	Weight: 16g
冷水机: 9KW	Water Chiller: 9KW
冷却水温度: 20°C	Cooling Water Temperature: 20°C
原料: PET	Material: PET
成型温度: 285°C-290°C	Mold Temperature: 285°C-290°C
生产周期: 16.5s	Production Cycle Time: 16.5s
耗电量: 33-35kw/h	Power Consumption: 33-35kw/h



高速瓶坯生产线设备配置
High Speed PET Preform Production Line Designation



编号 No.	名称	Designation
1	原料除湿机	Material Dehumidifier
2	干燥料斗	Hopper Dryer
3	辅机平台	Platform
4	双层硅胶风管	Double-layer Silicone Pipe
5	自动吸料机	Auto-cleaning Loader
6	带显示器真空上料机	Vacuum Autoloader with Indicator
7	电眼料斗	Vacuum Autoloader with Electric Sensor
8	带截止阀不锈钢吸料管	Suction Box with Stop-valve
9	耐热钢丝管	Heat-Resistant Steel Pipe
10	瓶坯模具	Preform Moulds
11	模具冷水机	Water Chiller for Mould
12	模具除湿机	Dehumidifier for Mould
13	冷却水塔	Cooling Tower
14	水泵	Pump for Cooling Tower
15	伺服机械手	Servo robot
16	输送带	Conveyer
17	瓶坯桶	Preform Tank

辅机选购 Optional



主要特点 Main Characteristic

- 专门为硬质PVC, UPVC, CPVC, Powder PVC设计的一体专用镀铬螺杆, 可使塑料低温热稳定, 高效能塑化率, 射出稳定成型, 成品质量优异。
- 储料液压马达采用高扭力低转速, 可提高优质塑化能力, 有效地缩短冷却时间, 并可降低原料成本。
- 专为硬质PVC模具设计加宽型板金, 方便操作者安装模具, 降低客户购置成本, 提高操作者安全性。
- 采用固态继电器控制温度, 确保温度准确温度。
- 两组抽芯, 每组两进两出。
- 采用进口变量泵或伺服驱动控制, 省电节能效果显著。
- 标配风机和风罩, 确保料温偏差小。
- 多组抽芯和不锈钢螺杆可选配。

- Specially designed for PVC,UPVC,CPVC,PVC Powder, Bi-alloy Screw & Barrel. Stabilized temperature increasing rate from charging. Highly efficient plasticizing rate and stable injection molding. Product quality is excellent.
- High-Torsion/ Low- Rotation Hydraulic Pump. Efficient plasticized capacity. Reduce Cooling – time & Material- consumption.
- Specially designed for hard PVC mold, widened the plate metal,, convenient to mold installation. Reduce customer cost, increasing the safety of the operator.
- Adopted solid state relay to control temperature and ensure accurate temperature.
- Two groups of core-pulling, two in and two out of each group
- Imported variable pump or servo drive control, energy saving is remarkable.

参数表 Parameter

说明	DESCRIPTION	单位UNIT	PVC90V6/S6		PVC120V6/S6		PVC128V6/S6		PVC160V6/S6		PVC200V6/S6		PVC288V6/S6		PVC330V6/S6		PVC400V6/S6		PVC500V6/S6		
国际公认型号	International size rating		900-300		1200-380		1280-406		1600-604		2000-934		2880-1341		3300-1902		4000-2495		5000-3514		
锁模单元 CLAMPING UNIT																					
锁模力	Clamping force	KN	900		1200		1280		1600		2000		2880		3300		4000		5000		
开模行程	Opening stroke	mm	320		350		350		440		490		550		600		710		830		
模板最大开距	Max.daylight	mm	680		750		750		940		1040		1160		1300		1440		1680		
模板外形尺寸	Platen size	mm×mm	540×540		610×610		610×610		705×705		775×775		850×850		985×985		1050×1050		1260×1260		
导柱内距	Space between bars	mm×mm	360×360		410×410		410×410		460×460		510×510		610×610		670×670		740×720		820×780		
最大模厚	Max.mold height	mm	360		400		400		500		550		610		700		730		850		
最小模厚	Min.mold height	mm	130		145		145		160		230		280		300		300		300		
顶针行程	Ejector stroke	mm	100		100		100		140		140		145		180		210		220		
顶出力	Ejector force	KN	34		42		42		49		65		77		77		110		135		
注射单元 INJECTION UNIT																					
螺杆直径	Screw diameter	mm	30	36	36	42	36	42	42	46	46	52	52	60	60	68	68	75	75	83	
螺杆长径比L/D	Screw L/D ratio		22	22	23	22	23.3	22	22	22	23	22	22	22	22	22	22	22	22	22	
注射压力	Injection pressure	Mpa	266	185	205	150	259	190	213	177	230	180	226	169	217	169	208	171	204	167	
理论注射容积	Shot volume	cm ³	113	163	183	249	183	249	284	341	407	520	595	792	877	1126	1198	1458	1723	2110	
实际注射量(PVC)	Shot weight(PVC)	g(克)	135	194	218	297	218	297	338	405	485	619	708	942	1043	1340	1426	1735	2050	2511	
		OZ(盎司)	4.7	6.8	7.7	10.5	7.7	10.5	11.9	14.3	17.1	21.8	25.0	33.2	36.8	47.3	50.3	61.2	72.3	88.6	
注射速率	Injection rate	g/s	70	101	91	124	87	119	133	160	155	198	225	299	306	393	355	432	450	552	
塑化能力(PVC)	Plasticizing capacity	mm/s	15	22	18	25	21	30	32	35	30	37	35	50	52	65	61	72	76	90	
螺杆行程	Screw stroke	mm	160		180		180		205		245		280		310		330		390		
螺杆转速	Screw speed	rpm	155		135		160		180		146		132		147		106		110		
动力/电热 POWER UNIT																					
油压系统压力	Hydraulic system pressure	Mpa	17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		
油泵电机功率	Pump motor power	KW	11		11		11		15		18.5		22		30		37		45		
加热功率	Heater power	KW	6		7.8		8		9.8		11.5		14.2		18		22		28		
其他 GENERAL																					
空循环时间	Dry-cycle time	S	1.5		1.5		1.5		1.8		1.8		3		3.2		4		5.8		
油箱容量	Oil tank capacity	L	180		200		210		260		340		420		460		630		810		
理论机重	Machine weight	Ton	2.86		3.26		3.86		4.58		5.88		8.26		10.9		15.1		18.7		
外形尺寸	Machine dimensions(L×W×H)	m×m×m	3.8×1.35×1.7		4×1.45×1.8		4.2×1.45×1.8		4.8×1.75×1.8		5.75×1.9×2.1		6.16×1.95×2.2		6.8×2.2×2.3		7.2×2.3×2.3		8.7×2.7×2.3		

备注: 本公司根据产品提升的需要, 可对技术参数、部份元件配置及服务内容进行更改, 恕不另行通知。 Remarks: According to upgrading of machine, we will change technical parameters, configuration of some parts and service's items without further notice.

模板尺寸 Platen Dimensions

