

宝捷精机
PowerJet

PET 系列

瓶坯专用注塑机

(Shot Weight 800~6,000g)



PET Series

Preform Injection Molding Machine



宝捷集团2019年10月印



佛山市宝捷精密机械有限公司
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www.powerjet.cn

Enterprise Advantage

企业优势

宝捷精机——专用注塑机行业领跑者！

POWERJET——the leader in special injection molding machine.



十万平方米现代化生产厂区
100,000 square meters modern production plant

佛山市宝捷精密机械有限公司是一家集研发、制造、销售、售后服务于一体的专用注塑机械高新技术企业！

宝捷公司自2000年成立以来，始终专注于节能、高效、精密、稳定为核心的注塑设备，也是业内较早涉足高速PET瓶坯领域的专用机器制造商。经过多年的努力，我司在全国PET专用注塑机领域享有卓越地位，占据着领先的市场份额。目前已拥有PET专用机型注射量从800g-6,000g的完备产品线，从主机更多选择，到模具、机械手以及干燥系统等辅助设备的完善配套，提供给不同产量需求的客户贴心的服务，为全方位满足PET瓶坯注塑这一专业细分市场而提供成熟的解决方案。

POWERJET PLASTIC MACHINERY CO., LTD. is a high-tech enterprise specializing in injection molding machinery integrating R&D, manufacturing, sales and after-sales service!

Since its establishment in 2000, POWERJET has always focus on energy saving, efficient, precise and stable injection molding equipment. It is also a specialized machine manufacturer in the field of high-speed PET preforms. After years of hard work, our company has enjoyed an excellent position in the field of PET injection molding machines in China, occupying a leading market share. At present, we have a complete product line of PET-specific models with shot weight from 800g to 6,000g, from many IMM options to the complete project with auxiliary equipment such as molds, robots and drying systems, providing customers with intimate services for different production needs. Provides a proven solution for the full range of PET preform injections.

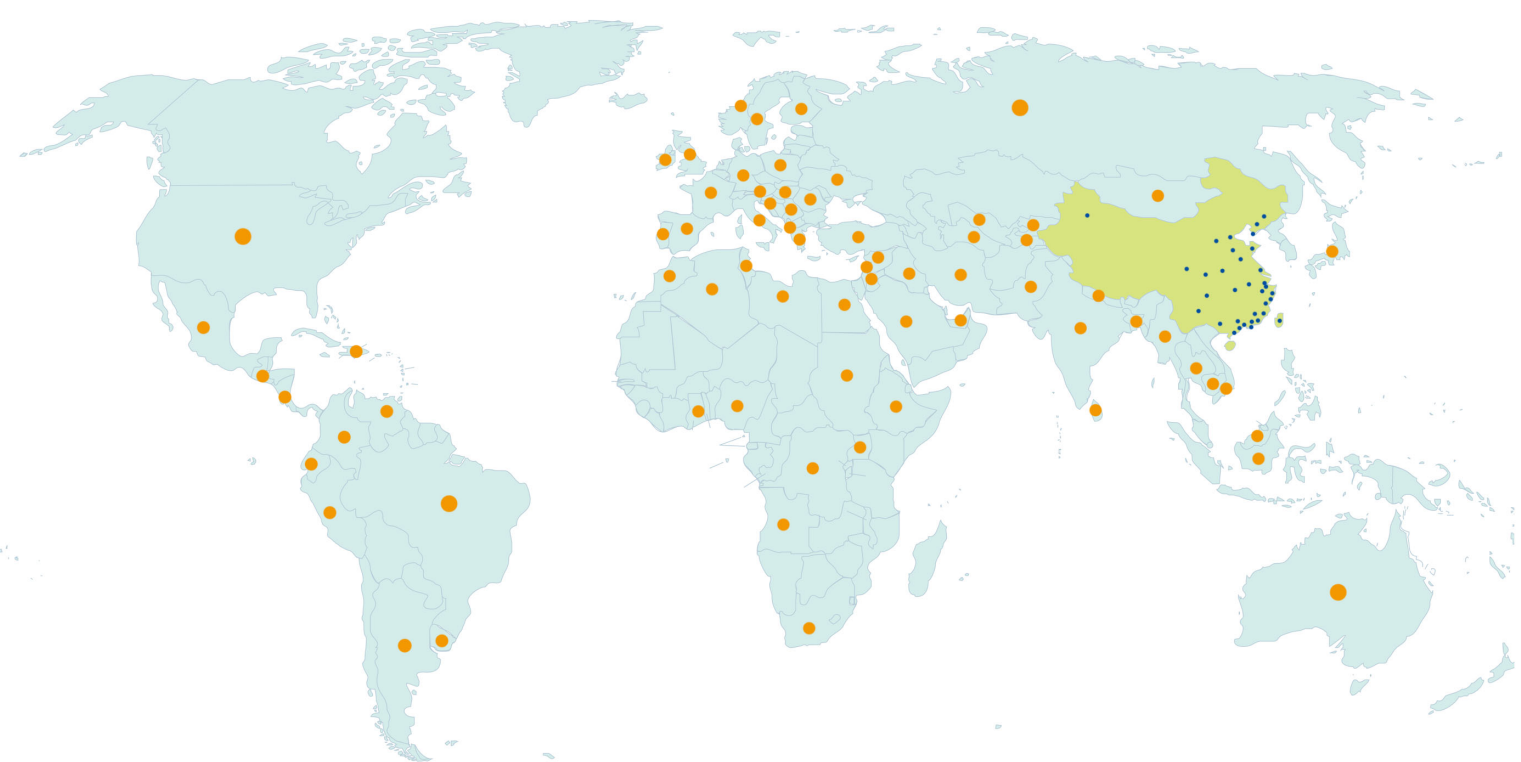


Marketing Network

营销网络

布局全球 周到服务

Global network , Good service.



宝捷全球服务网络

截止到2018年，宝捷的PET系列机型销售区域已覆盖华南、华东、华中和西南、东北等国内主要市场，并且远销海外六十多个国家和地区。客户遍布全球，涉及多个行业，不乏有国际知名一线品牌。

全程周到服务

我们从洽谈到确定客户配套生产优选方案，从设备的安装调试、维护保养、系统操作到生产过程，每个阶段我们都为您提供合理建议和完善的解决方案，还有快速的配件供应以及便捷的技术服务和支持。

- 个性化厂房布局和规划书；
- 瓶坯模具、机械手、辅助设备组合方案推荐；
- PET/PP瓶坯、瓶形开发；
- 客户现场安装及培训；
- 一对一的全程售前咨询及售后服务。

POWERJET Global Service Network

As of 2018, Powerjet's PET series machines have been sold to major domestic markets such as South China, East China, Central China, Southwest China and Northeast China, and were exported to more than 60 countries and areas. Customers from all over the world, involving many industries, some are international first-line brands.

Good Service

From negotiation to determining the production way for customer's requirement, from the installation and commissioning of the equipment, maintenance, system operation to production process, we provide reasonable advice and perfect solutions at every stage, as well as fast spare parts supply and convenient technical service and support.

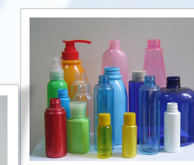
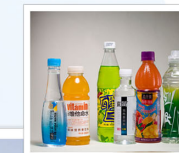
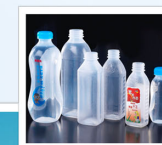
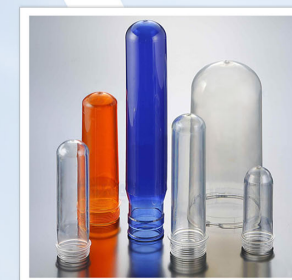
- Customized workshop layout and proposal;
- Turnkey project recommendation including preform mould, robot, auxiliary equipment, etc.;
- PET/PP preform and bottle shape design;
- Installation and training on site of customer's factory;
- One-on-one full pre-sales consultation and after-sales service.

我们的部分客户 (排名不分先后顺序) Some of our customers



PET 系列 瓶坯专用注塑机

Preform Injection Molding Machine
(Shot Weight 800~4,500g)



目前，PET被广泛应用于饮料、纯净水、糖果、饼干、食用油、化妆品、医药品和清洁用品的容器包装方面，随着瓶装饮品的风行，二步法成型工艺在大容量管坯成型中优势尽显。

宝捷PET系列瓶坯专用注塑机结合了国内外先进技术，具有节能环保、稳定可靠、高效精密等优点。机器规格齐全，适应多种不同瓶坯的选择；极高的性价比，能为客户创造更佳的投资回报和使用体验！

At present, PET is widely used in container packaging of beverages, purified water, candy, biscuits, edible oils, cosmetics, pharmaceuticals and cleaning products. With the popularity of bottled drinks, the two-step molding process shows advantage in the production of large-capacity preform molding.

POWERJET PET series preform injection molding machine combines advanced technology at home and abroad, and has the advantages of energy saving, environmental protection, stability, reliability and high precision. The machine has complete specifications and is suitable for a variety of different preforms; it is extremely cost-effective and can create a better return on investment and a better experience for customers!



High-efficiency mixing PET screw with ceramic heater highly increase the plasticizing speed and shot weight, lowers the plasticizing temperature and AA value, also lowers the shrinkage of preform, while achieves better transparency.

高效混炼PET专用螺杆，标配陶瓷发热圈，显著提高熔胶速度和注射量，降低塑化温度与AA值，有效改善制品的收缩问题，提高透明度。



带模具针阀接口，专用的针阀控制程序，更多的工艺调整。

With pin valve interface, special pine valve control system, more process adjustment.



加大顶出力和顶出行程，适应瓶坯的顶出要求。
Increasing ejector force and ejector stroke, adapts with PET preform drawing.

伺服控制系统比常规
机器节电30%~50%。

The servo motor control system
can save energy by 30%~50%.

变量泵控制系统比常规
机器节电20%~30%。

The variable pump
control system can
save energy
by 20%~30%.

节电
Save
30-50%



节电
Save
20-30%

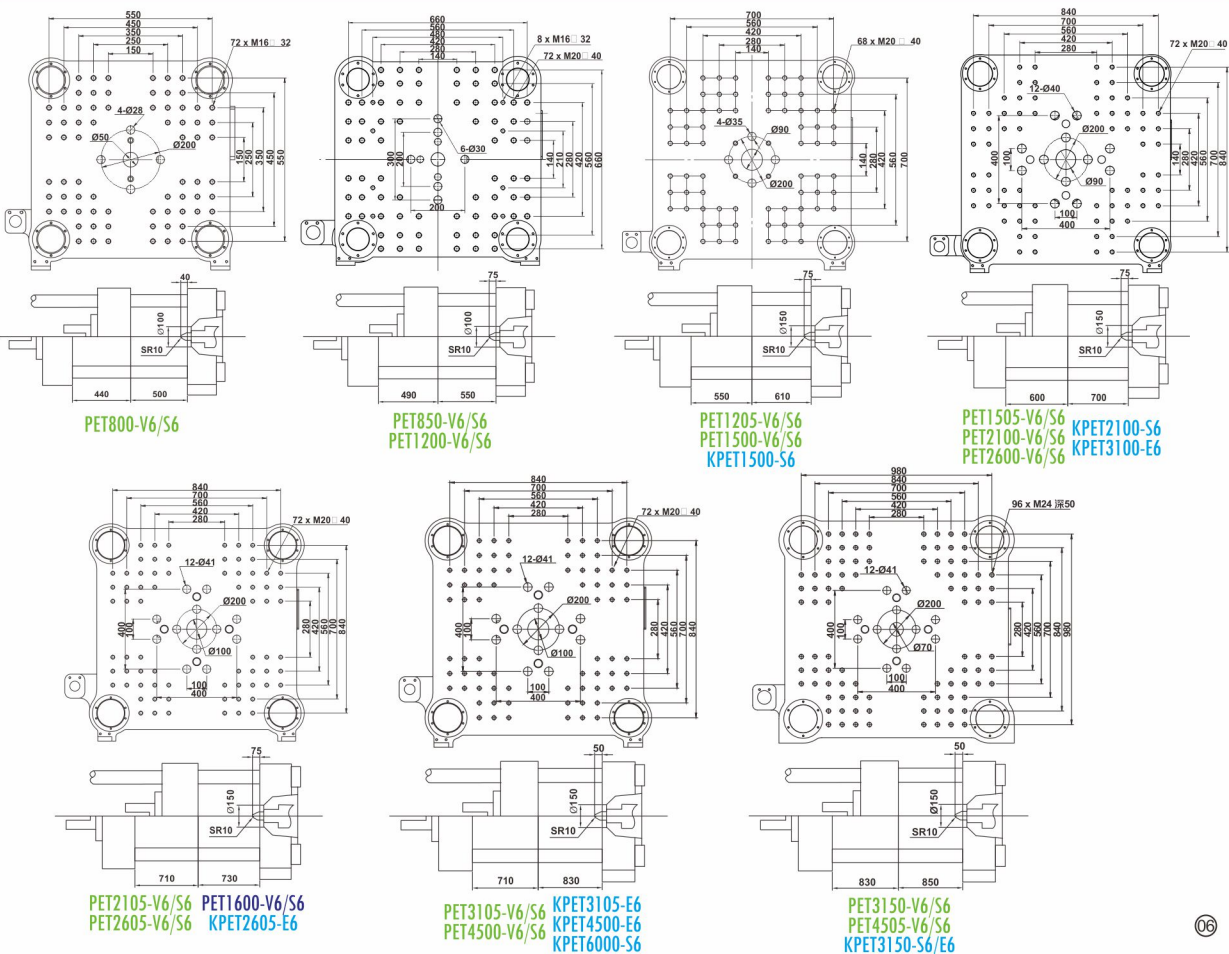


Parameter 参数

PET系列	说明	DESCRIPTION	单位	PET800-V6/S6	PET850-V6/S6	PET1200-V6/S6	PET1205-V6/S6	PET1500-V6/S6	PET1505-V6/S6	PET2100-V6/S6	PET2105-V6/S6	PET2600-V6/S6	PET2605-V6/S6	PET3105-V6/S6	PET3150-V6/S6	PET4500-V6/S6	PET4505-V6/S6	PET1600-V6/S6
	国际公认型号	International size rating	UNIT	1600-736	2000-950	2000-1088	2880-1088	2880-1440	3300-1440	3300-2124	4000-2500	3300-2720	4000-2720	4000-2873	5000-2873	4000-5310	5000-5310	4000-2500
	注射装置	INJECTION UNIT																
	螺杆直径	Screw diameter	mm	60	60	67	67	75	75	83	83	90	90	95	95	105	105	75
	理论注射容积	Shot volume	cm³	693	693	952	952	1303	1303	1840	1786	2290	2290	2694	2694	3897	3897	1458
	注射量 (PS)	Shot weight(@PS1.05)	g	619	619	850	850	1163	1163	1642	1594	2044	2044	2404	2404	3478	3478	1301
	注射量 (PET)	Shot weight(@PET1.3)	g	806	806	1108	1108	1516	1516	2141	2078	2664	2664	3134	3134	4534	4534	1696
	注射量 (PP)	Shot weight(@PP0.9)	g	499	499	685	685	938	938	1325	1286	1649	1649	1940	1940	2806	2806	1049
	注射行程	Screw stroke	mm	245	245	270	270	295	295	340	330	360	360	380	380	450	450	330
	锁模单元	CLAMPING UNIT																
PETSeries	锁模力	Clamping force	kN	1600	2000	2000	2880	2880	3300	3300	4000	3300	4000	4000	5000	4000	5000	4000
	开模行程	Opening stroke	mm	440	490	490	550	550	600	600	710	600	710	710	730	710	830	710
	模板最大开距	Max.daylight	mm	940	1040	1040	1160	1160	1300	1300	1440	1300	1440	1440	1680	1540	1680	1440
	导柱内距	Space between bars(H×V)	mm	460×460	510×510	510×510	610×610	610×610	670×670	670×670	740×720	670×670	740×720	740×720	820×780	740×720	820×780	740×720
	模板尺寸	Movable platen size(H×V)	mm	705×705	775×755	775×755	850×850	850×850	985×985	985×985	1050×1050	985×985	1050×1050	1050×1050	1260×1260	1050×1050	1260×1260	1050×1050
	最大模厚	Max.mold height	mm	500	550	550	610	610	700	700	730	700	730	730	850	830	850	730
	最小模厚	Min.mold height	mm	160	230	230	280	280	300	300	300	300	300	300	300	300	300	300
	顶针行程	Ejector stroke	mm	145	160	160	175	175	175	180	210	180	210	210	220	210	220	210
	顶出力	Ejector force	kN	75	99	99	111	111	184	184	184	184	184	184	289	184	289	184
	顶退力	Ejector force	kN	55	77	77	77	77	115	115	115	115	115	115	201	115	201	115
WinePackingSeries	顶针数目	Number of ejector pins	PCS	4+1	6+1	6+1	4+1	4+1	12+1	12+1	12+1	12+1	12+1	12+1	12+1	12+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	17.5	17.5	17.5
	油泵电机功率	Pump motor power	kW	18.5	18.5	22	22	30	30	37	37	45	45	45	55 / 25+31	55 / 25+31	55	40+40
	加热功率	Heater power	kW	15	15	16.5	16.5	20	20	28	28	36	36	36	36	40	40	23.5
	总电流	Total current	A	104.1 / 108	104.1 / 108	117.5 / 150	117.5 / 150	147.5 / 171	147.5 / 171	197 / 207	197 / 207	220 / 244	220 / 244	243.9 / 244	243.9	286.8	286.8	220
	其他	GENERAL																
	油箱容量	Oil tank capacity	L	280	420	420	560	560	560	650	650	650	650	800	800	1000	1000	810
	理论机重	Machine weight	T	4.9	6.4	6.4	8.8	8.8	10.5	10.6	15	12	15	15.3	17.5	16.5	19	14
	外形尺寸	Machine dimensions(L×W×H)	m	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	7.2×1.65×2.3	7.2×2.0×2.5	7.3×2.0×2.5	7.4×1.65×2.3	8.1×2×2.3	9×2.05×2.3	9.3×2.1×2.3	7.6×1.95×2.3

模板尺寸 Platen Dimensions

KPET系列	说明	DESCRIPTION	单位	KPET1500-S6	KPET2100-S6	KPET2605-E6	KPET3105-E6	KPET3100-E6	KPET3150-S6/E6	KPET4500-E6	KPET6000-S6
	国际公认型号	International size rating	UNIT	2880-1440	3300-2120	4000-2720	4000-2870	3000-2880	5000-2873	4000-5400	4000-6000
	注射装置	INJECTION UNIT									
	螺杆直径	Screw diameter	mm	75	83	90	95	95	95	105	120
	理论注射容积	Shot volume	cm³	1303	1840	2290	2694	2694	2694	3897	5089
	注射量 (PS)	Shot weight(@PS1.05)	g	1163	1642	2044	2404	2404	2404	3478	4542
	注射量 (PET)	Shot weight(@PET1.3)	g	1516	2141	2664	3134	3134	3134	4534	5921
	注射量 (PP)	Shot weight(@PP0.9)	g	938	1325	1649	1940	1940	1940	2806	3664
	注射行程	Screw stroke	mm	295	340	360	380	380	380	450	450
	锁模单元	CLAMPING UNIT									
KPETSeries	锁模力	Clamping force	kN	2880	3300	4000	4000	3000	5000	4000	4000
	开模行程	Opening stroke	mm	550	600	710	710	550	730	710	710
	模板最大开距	Max.daylight	mm	1160	1300	1440	1440	1300	1680	1440	1440
	导柱内距	Space between bars(H×V)	mm	610×610	670×670	740×720	740×720	620×740	820×780	740×720	740×720
	模板尺寸	Movable platen size(H×V)	mm	850×850	985×985	1050×1050	1050×1050	900×1020	1260×1260	1050×1050	1050×1050
	最大模厚	Max.mold height	mm	610	700	730	730	750	850	730	730
	最小模厚	Min.mold height	mm	280	300	300	300	450	300	300	300
	顶针行程	Ejector stroke	mm	175	180	210	210	200	210	210	210
	顶出力	Ejector force	kN	111	184	184	184	184	184	184	184
	顶退力	Ejector force	kN	77	115	115	115	115	115	115	115
WinePackingSeries	顶针数目	Number of ejector pins	PCS	4+1	12+1	12+1	12+1	12+1	12+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
	油泵电机功率	Pump motor power	kW	30+50	37+50	60+61	60+80	57+80	55+57/60+80	25+30+100	45×2+57
	加热功率	Heater power	kW	20	28	32	37	36	37	40	80
	总电流	Total current	A	220	255	286.8	300	300	320	350	350
	其他	GENERAL									
	油箱容量	Oil tank capacity	L	800	900	650	800	800	900	1000	1600
	理论机重	Machine weight	T	9.5	11.3	15	15.2	12	19.2	16.2	23
	外形尺寸	Machine dimensions(L×W×H)	m	6.8×1.55×2.2	7.2×1.65×2.3	7.3×2×2.5	7.4×2×2.5	8.8×2×2.5	8.1×2×2.3	9×2.05×2.5	10.5×2.4×2.5



* 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。
* According to upgrading of machine, we will change technical parameters, configuration of some parts and service's items without further notice.

KPET系列

快速瓶坯专用注塑机

High Speed Preform Injection Molding Machine

(Shot Weight 1,500~6,000g)



生产实例

注塑机型号: KPET3105-E6
针阀热流道模具腔数: 64
单个产品重量: 14g
材料: PET
周期: 11s
日产量: 50.2万个, 7吨原料

Production Instance

Machine Model: KPET3105-E6
Hot Runner Mold Cavity: 64
Weight: 14g
Material: PET
Production Cycle Time: 11s
Daily Output: 502000PCS, 7T material.

宝捷KPET系列快速瓶坯专用注塑机, 是在PET系列成功机型平台上开发的专用机型, 是以市场为导向、传承宝捷之技术优势、并进行产品创新与迭代的成果。产品在重复精度、塑化速度、功率消耗等多项技术参数方面均处于行业领先水平。

宝捷KPET系列高速、节能、稳定的出色表现, 是PET注坯成型市场领域的正确选择, 能为用户的业务创造了良好的前景。

POWERJET KPET series high speed preform injection molding machine is a special model developed on the successful series of PET. It is market-oriented, inherits the technical advantages of POWERJET, and carries out product innovation and iteration. The products are in the leading position in the industry in terms of repeatability, plasticizing speed, power consumption and many other technical parameters.

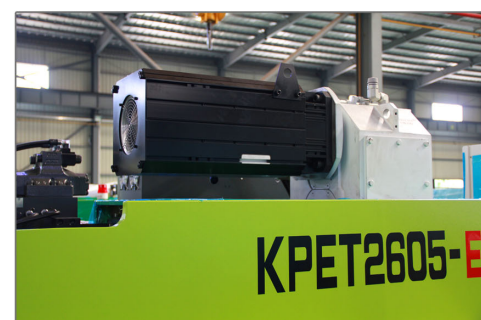
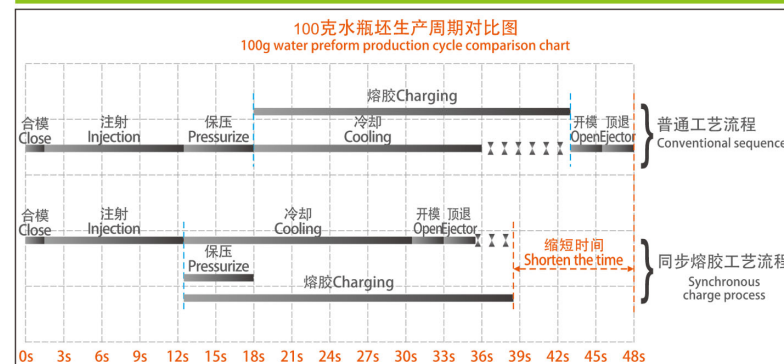
The high performance, energy saving and stable performance of POWERJET KPET series is the correct solution in the PET injection molding market, which can create a good prospect for the user's business.

✳ 表示该功能选配, 且适用于所有PET机型。
Indicates that this function is optional and is applicable to all PET models.



高效混炼PET专用螺杆, 标配纳米红外线发热圈, 显著提高熔胶速度和注射量, 降低塑化温度与AA值, 有效改善制品的收缩问题, 提高透明度。

High-efficiency mixing PET screw with Nano infrared heater highly increase the plasticizing speed and shot weight, lowers the plasticizing temperature and AA value, also lowers the shrinkage of preform, while achieves better transparency.



▲ 开合模同步熔胶功能, 缩短生产周期, 提高产量。
Synchronous charging function while mold opening and closing, shorten cycle time and increase output.

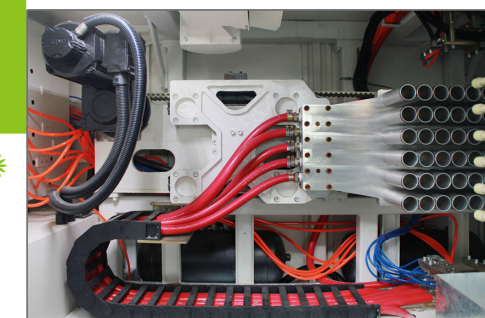
◀ KPET-E系列电动熔胶, 传动效率高, 能效比提升, 节能效果明显。
KPET-E series electric charging, high transmission efficiency, improved energy efficiency ratio, and obvious energy saving effect.



✳ 同步保压功能, 产能可进一步提升10%~15%。
Pressure holding and charge at the same time, which can increase the output by 10% ~ 15%.

锁模部份全封闭钣金结构, 符合卫生和温控要求。
Whole closed safe door meets the requirement of sanitary and thermo-control.

三工位水冷取坯机械手, 节省了在模内冷却的时间, 从而降低了生产的时间周期。
Three stations water cooling robot saves the cooling time in mold, which reduces the cycle time.

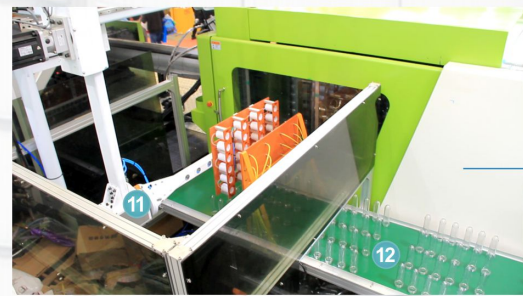


Full-automatic high speed preform production line configuration
全自动高速PET瓶坯生产线设备配置

生产实例 Production Instance

注塑机型号: KPET6000-S6 Machine Model: KPET6000-S6
热流道模具模腔数: 24 Hot Runner Mold Cavity: 24
单个产品重量: 165g Weight: 165g
冷水机: 60kW Water Chiller: 60kW
冷却水温度: 15°C Cooling Water Temperature: 15°C
原料: PET Material: PET
成型温度: 285°C~290°C Mold Temperature: 285°C~290°C
生产周期: 33s Production Cycle Time: 33s

编号 No.	名称	Designation
1	模具除湿机	Dehumidifier for Mold
2	原料除湿机	Material Dehumidifier
3	干燥料斗	Hopper Dryer
4	辅机平台	Platform
5	不锈钢管	Stainless Steel Tube
6	自动吸料机	Auto-cleaning Loader
7	电眼料斗	Vacuum Autoloader with Electric Sensor
8	耐热钢丝管	Heat-resistant Steel Pipe
9	瓶坯模具	Preform Molds
10	模具冷水机	Water Chiller for Mold
11	三工位水冷侧取机械手	Three Stations Water Cooling Outside Robot
12	输送带	Conveyer



辅机选购 Optional

