



SP小高速PET瓶坯注塑系统

SP HYBRID PREFORM INJECTION SYSTEM



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DEMARK

您的生意需要更先进的瓶坯生产技术

YOUR BUSINESS NEEDS MORE ADVANCED PREFORM PRODUCTION TECHNOLOGY

01 BETTER PREFORM QUALITY 更好的瓶坯质量

- ▲ 摒弃螺杆高转速，使用特制的PET螺杆保证瓶坯AA值始终处在很低的水平；
- ▲ Abandoning the high speed of the screw and using a special PET screw to ensure that the AA value of the preform is always at a very low level;
- ▲ 稳定的注射和模具热流道设计保证了瓶坯克重始终如一且瓶坯尺寸长期稳定。
- ▲ Stable injection and mold hot runner design ensure that the gram weight of the preform is consistent and the preform size is stable for a long time.



02 HIGHER PRODUCTION CAPACITY 更高的产能

- ▲ 提供高达72腔的瓶坯生产平台；
- ▲ Provide preform production platform up to 72 cavities;
- ▲ 独立溶胶和模后冷却节省了大量的生产时间；
- ▲ Electric screw drive and post-mold cooling save a lot of production time;
- ▲ 优秀的机械和模具设计使得整个生产周期稳定、没有卡顿。
- ▲ Excellent mechanical and mold design makes the entire production cycle stable without stop.

03 TURN-KEY SOLUTION 交钥匙方案

- ▲ 瓶坯、瓶型设计；
- ▲ Preform and bottle design;
- ▲ 实验模具制造；
- ▲ Pilot mold manufacturing;
- ▲ 厂房和车间设计服务；
- ▲ Plant and workshop design services;
- ▲ 全球安装调试以及培训；
- ▲ Global installation, commissioning and training;
- ▲ 提供包括机器，模具，辅助机械在内的整套系统。
- ▲ Provide a complete set of systems including machines, molds and auxiliary machinery.

04 FULLY CUSTOMIZED 更多选配项目

- ▲ 塑化液压马达；
- ▲ Hydraulic motor for plasticizing;
- ▲ 上取式机械手；
- ▲ Top entry take out robot;
- ▲ 大型除湿干燥系统；
- ▲ Large dehumidifying dryer;
- ▲ 同步顶出；
- ▲ Synchronous ejection;
- ▲ 封闭式锁模架；
- ▲ Closed clamping unit;
- ▲ 侧取式机械手（带模后冷却）。
- ▲ Side entry take out robot (with cooling fuction).

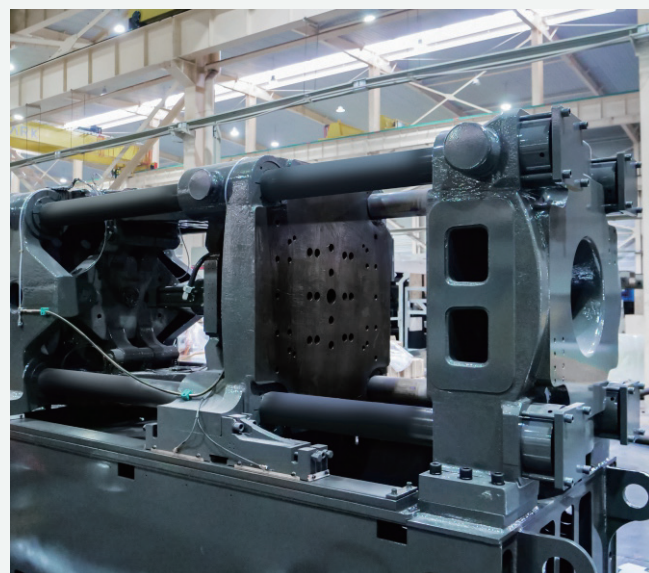
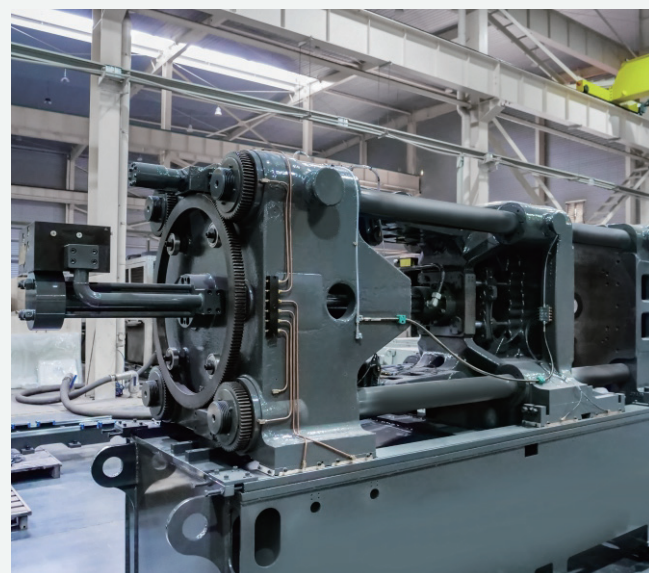
锁模装置 & 注塑装置

CLAMPING UNIT & INJECTION UNIT

DEMARC

CLAMPING UNIT

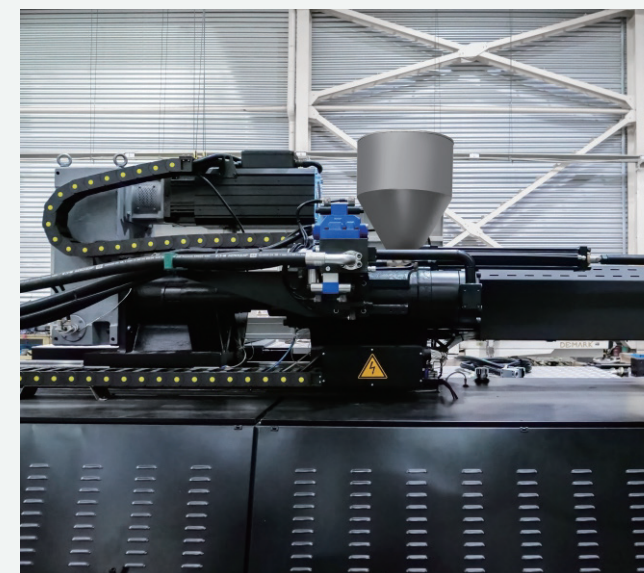
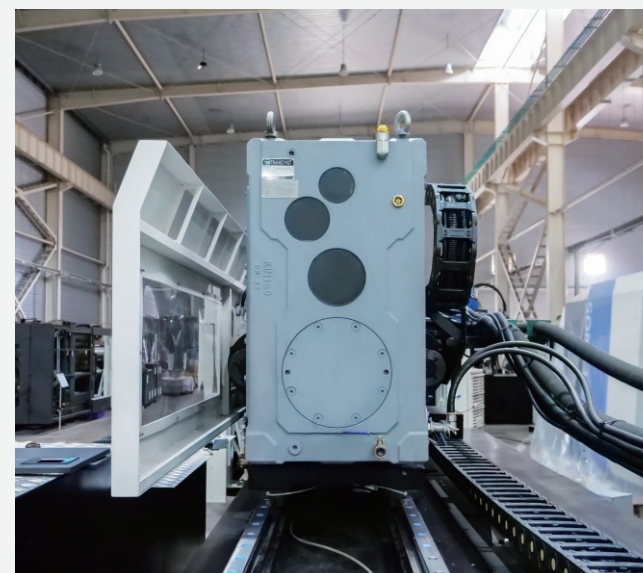
锁模装置



- 完全根据PET瓶坯模具的外形尺寸设计，使得每一腔都有稳定的锁模力；
 - 加大的顶出力和顶出行程，满足瓶坯生产要求；
 - 同其他相同腔数机台相比，拥有更小的占地面积；
 - 配备PET瓶坯模具专用水排，流量更大性能更优；
 - 高刚性箱式模板设计，不仅减轻了自身重量，还使得开合模更加稳定，重复精度高。
- Platen design according to PET preform mold, so that each cavity has a stable clamping force;
 - Increased ejection force and ejection stroke to meet the requirements of preform production;
 - Compared with other machines with the same number of cavities, it has a smaller footprint;
 - Equipped with special water discharge for PET preform mold, with greater flow rate and better performance;
 - The design of the high-rigidity and case structure platen not only reduces its own weight, but also makes the opening and closing of the mold more stable and has high repetition accuracy.

INJECTION UNIT

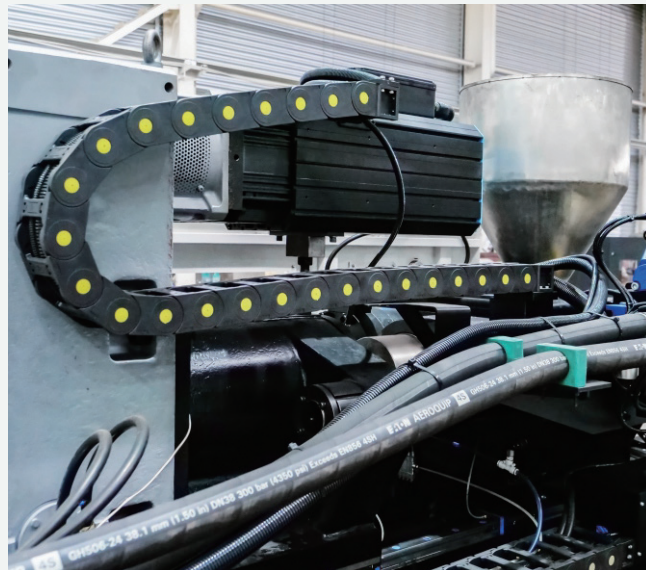
注塑装置



- 独立电动溶胶大幅度缩短了瓶坯成型周期，比同类设备快约35%；
 - 特制螺杆保证了PET塑化的快速和稳定；
 - 低转速，高扭矩设计保证瓶坯AA值始终保持在较低水平；
 - 注塑比例阀保证了注射的高稳定性和高重复精度。
- Independent electric plasticizing greatly shortens the molding cycle of the preform, about 35% faster than similar equipment;
 - The special PET screw ensures the fast and stable plasticization;
 - Low speed and high torque design ensure that the AA value of the preform is always kept at a low level;
 - Proportional valve ensures high stability and high repetition accuracy of injection.

SERVO TECHNOLOGY

伺服技术

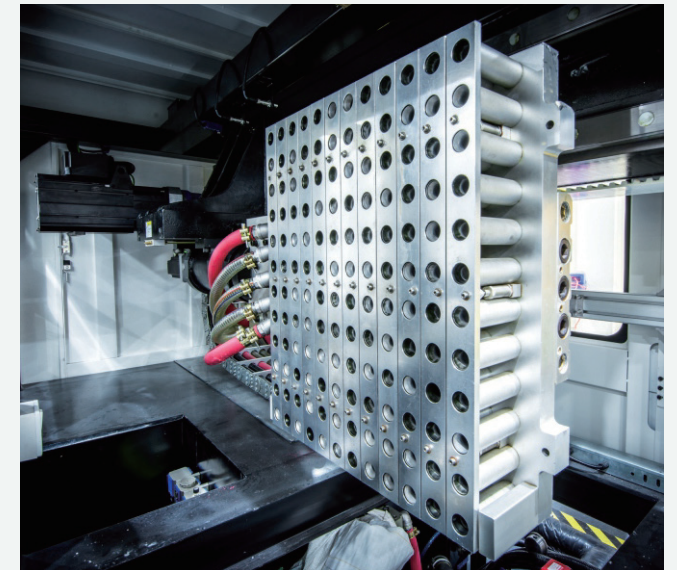
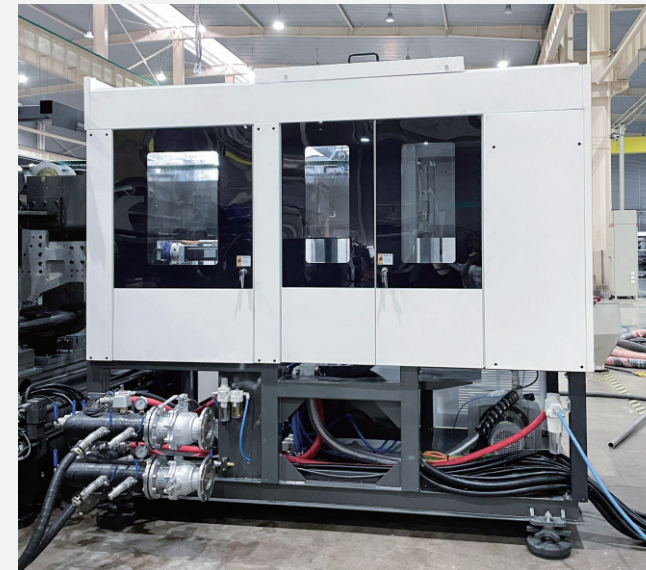


- ▲ 伺服电机和齿轮泵的搭配应用使得能耗下降30%左右；
- ▲ 伺服电机搭配齿轮箱使得溶胶可以单独进行且几乎不需要维护；
- ▲ 当瓶坯自由下落时，可选配一组额外的油路进行顶出动作，缩短周期。

- ▲ The servo motor and gear pump reduces energy consumption by about 30%;
- ▲ The servo motor and gearbox make the plasticizing can be performed separately and requires almost no maintenance;
- ▲ When the preform falls freely, an additional set of oil circuits can be selected for ejector to shorten the cycle time.

CLAMPING UNIT

锁模装置



- ▲ 可选配带冷却功能的德玛克侧取式机械手，进一步缩短瓶坯的模内时间，并且能有效的防止瓶坯砸伤，这在大克重瓶坯生产时尤其有效；
- ▲ 同时也可以选择不带冷却功能的上取式机械手。

- ▲ An optional side-entry robot with cooling function, shorten the mold time of the preform, and can effectively prevent the scratch and damage, which is especially effective in the production of large grams of preform;
- ▲ At the same time, you can also choose a top-entry robot without cooling function.

辅机 & 模具

AUXILIARY & MOLD

DEMARK

AUXILIARY EQUIPMENT INTEGRATION ABILITY

辅机配套能力



德玛克深谙PET系统工艺之道，为了生产出更加优质的瓶坯，根据PET瓶坯注塑生产的特点，专门定制相应的原料除湿干燥系统，模具除湿机，冷水机以及供料系统。

并且发挥德玛克优秀的辅机整合能力，与业内诸多厂家保持长期战略合作关系，保证充足的供货能力和更低的采购价格。

Demark has the sound knowledge of PET preform production. In order to produce higher quality preforms, according to the characteristics of PET preform injection, the corresponding raw material dehumidification drying system, chiller and material loader system are specially customized.

In order to show Demark's excellent auxiliary machine integration ability, we maintain long-term strategic cooperation with many manufacturers in the industry to ensure sufficient supply capacity and lower purchase price.

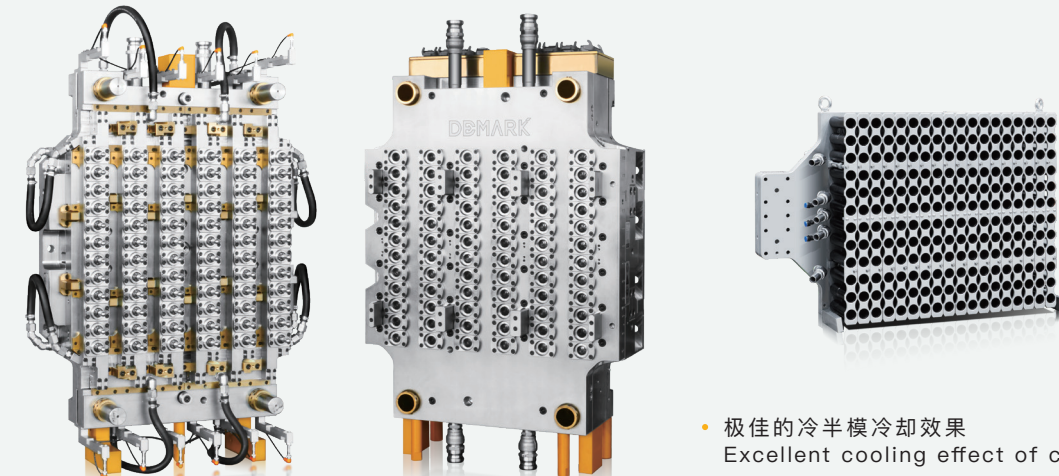
DEMARK HIGH QUALITY PREFORM MOLD

高品质德玛克瓶坯注塑模具



德玛克致力于打造世界级的恒温恒湿模具加工车间，保证材料在稳定的环境下满足严苛的精度标准。

World class stable temperature mold processing workshop. Ensure the strict precision standards in a perfect manufacturing condition.




DEMARK 72 CAVITIES PREFORM MOLD
德玛克72腔瓶坯模具

- 极佳的冷半模冷却效果
Excellent cooling effect of cold half
- 热流道超平衡设计
Super Balance Design of Hot Runner
- 模具精度始终稳定
Mold accuracy is always stable
- 提供配套冷却手掌板和冷却筒
Provide EOAT with different mold pitch



小包装饮用水、饮料、食用油、日化和调味品
Small packages of drinking water, beverages, edible oil, daily chemicals and condiments

 口径 / Neck ≤ 38mm

机型 Model	SP24	SP32	SP48			SP72			
	65mm	75mm	80mm	90mm	100mm	90mm	100mm	110mm	120mm
腔数 Cavities	12	86g	-	-	-	-	-	-	-
	16	64g	89g	-	-	-	-	-	-
	24	43g	59g	73g	-	-	-	-	-
	32	-	44g	54g	78g	-	-	-	-
	48	-	-	36g	52g	76g	-	-	-
72	-	-	-	-	-	34g	50g	63g	73g



桶装制品
Barreled packaging


 口径 / Neck ≤ 60mm

机型 Model	SP24	SP32	SP48			SP72			
	65mm	75mm	80mm	90mm	100mm	90mm	100mm	110mm	120mm
腔数 Cavities	2	-	-	879g	-	-	-	-	-

For the production of 4-cavity, 6-cavity and 8-cavity barrel products, please refer to the other special machine models of Demark. 4腔、6腔、8腔桶装制品生产方案请参考德玛克另外专用机型。



大包装PET制品
Large packaging PET products

 口径 / Neck ≤ 45mm

机型 Model	SP24	SP32	SP48			SP72			
	65mm	75mm	80mm	90mm	100mm	90mm	100mm	110mm	120mm
腔数 Cavities	8	-	130g	-	-	-	-	-	-
	12	-	119g	146g	-	-	-	-	-
	16	-	-	109g	156g	-	-	-	-
	24	-	-	73g	104g	152g	-	-	-
	32	-	-	-	-	-	-	-	142g



广口制品
Wide mouth packaging

 口径 / Neck ≤ 80mm

机型 Model	SP24	SP32	SP48			SP72			
	65mm	75mm	80mm	90mm	100mm	90mm	100mm	110mm	120mm
-	-	-	-	-	-	-	-	-	-

Highly customized products, please consult Demark sales representative for details. 高度定制产品，具体请咨询德玛克销售代表。

■ 表中的克重为建议最大克重，并不代表该机型的所有应用能力范围，不在该表内的应用请咨询德玛克销售代表。
The gram weight in the table is the recommended maximum weight, which does not represent all the application capabilities of that model of machine. For applications that are not in the table, please consult our sales representative.