



## LIGHTNING 高速直压式瓶坯注塑系统

LIGHTNING HIGH SPEED DIRECT-CLAMPING PREFORM INJECTION SYSTEM



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ISO9001 & CE

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**DEMARK**

## 与世界同步的高性能瓶坯生产系统

### WORLD CLASS HIGH PERFORMANCE PREFORM PRODUCTION SYSTEM

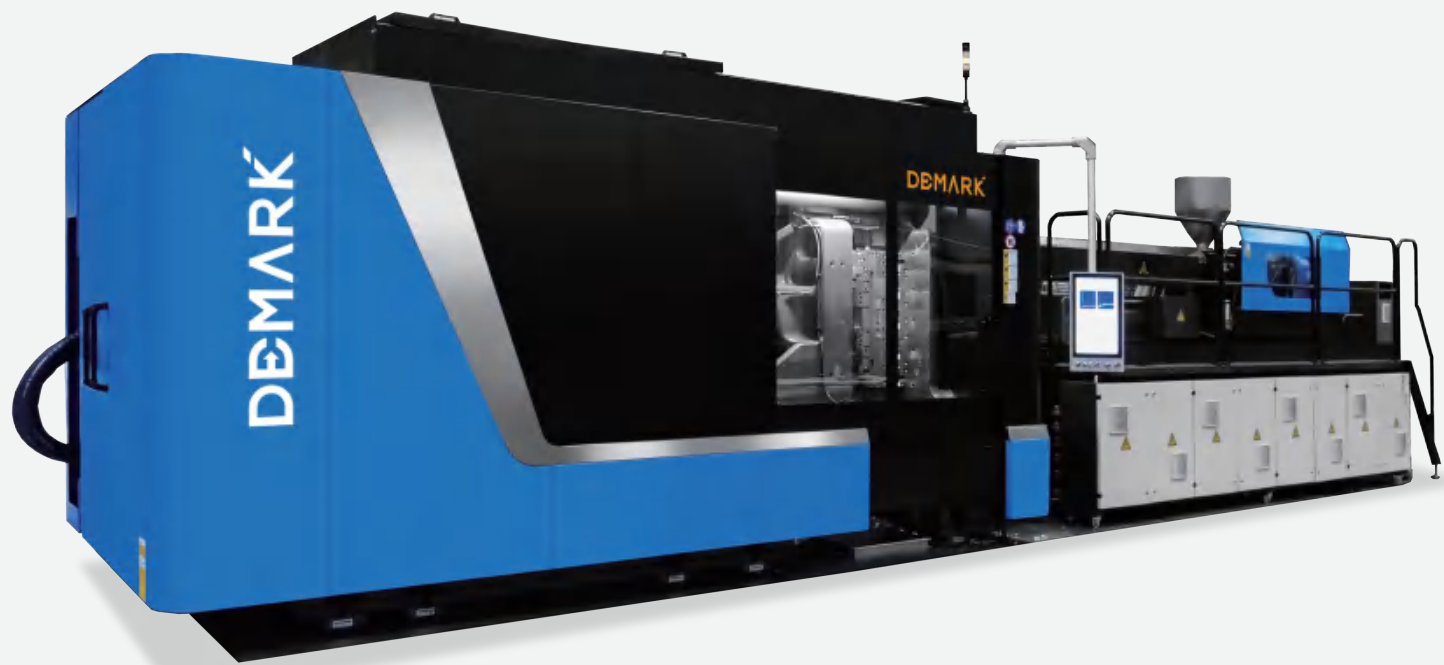
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德玛克Lightning高速直压式瓶坯注塑系统为您带来与欧洲设备同源的系统配置，但是投资却比之前更低。高达144腔的瓶坯生产系统包含双螺杆设计高速瓶坯注塑机，精密瓶坯注塑模具，模后冷却机械手，集中控制系统和高效原料干燥系统，为您带来更高的生产效率，更优的成品质量。

Demark Lightning high speed direct compression injection system allows you gain the same level of specification as European machine but with lower investment cost at the same time. The system can produce with the preform injection molds up to 144 cavities including double screw design high speed injection machine, precision preform injection molds, post cooling take out robot, centralized control system and high efficient material drying system. The results are higher production efficiency, lower investment expense and better preform quality.

不仅如此，德玛克还秉承包括瓶坯设计和整厂规划等交钥匙服务理念，为您从多个维度提供更多的建议和帮助，使得您在竞争激烈和快速变化的市场始终保持长期的竞争力。

Demark also insist on the "turnkey" solution concept by offering preform design and whole plant planning to our customers with more suggestion on various aspects to help our customers keep long term competitive strength in the hyper competitive, changeful consuming market.



模后冷却机械手  
POST-MOLD COOLING ROBOT

伺服电机溶胶  
ELECTRIC SCREW DRIVE

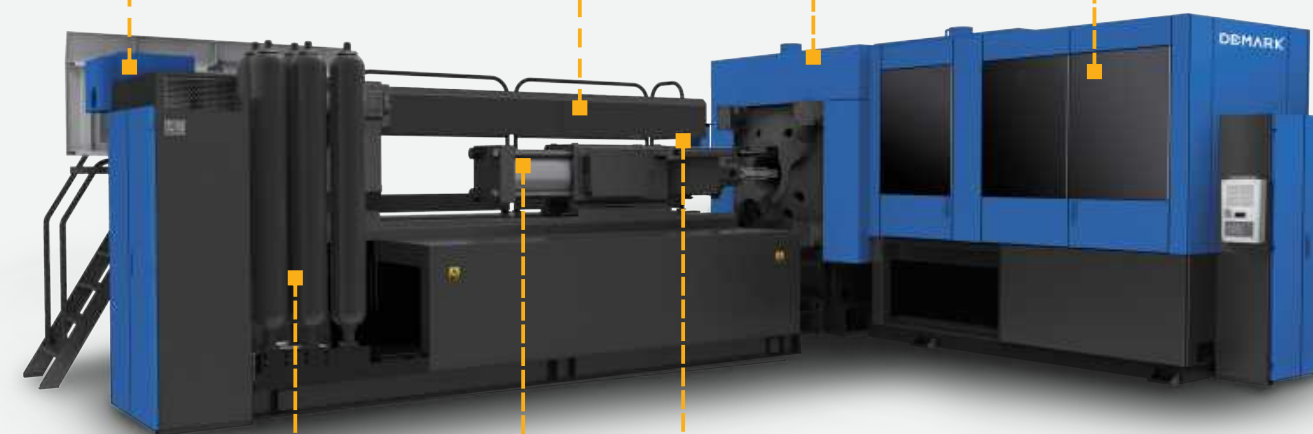
直压式锁模  
DIRECT-PRESS CLAMPING

双阶射台  
DOUBLE STAGE INJECTION

伺服阀控制  
SERVO VALVE CONTROL

高效蓄能器  
HIGH EFFICIENT ACCUMULATOR

人机交互系统  
HMI CONTROL SYSTEM



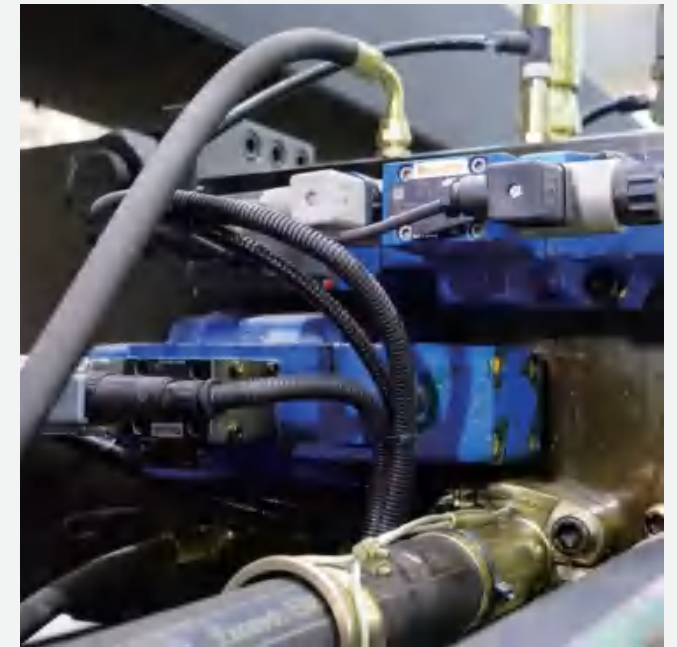
## 机型特点

## MACHINE SPECIFICATION

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### INJECTION UNIT

#### 注射装置



进口伺服电机溶胶，带来了节能和高效的双重提升。

可实现溶胶和射胶同步进行，大幅度缩短成型周期。

最高五组的高效蓄能器保证了大注射量的快速和稳定。

先进的伺服阀控制理念，使得射胶更加精准。

Independent electric screw drive brings you both melting and energy efficiency.

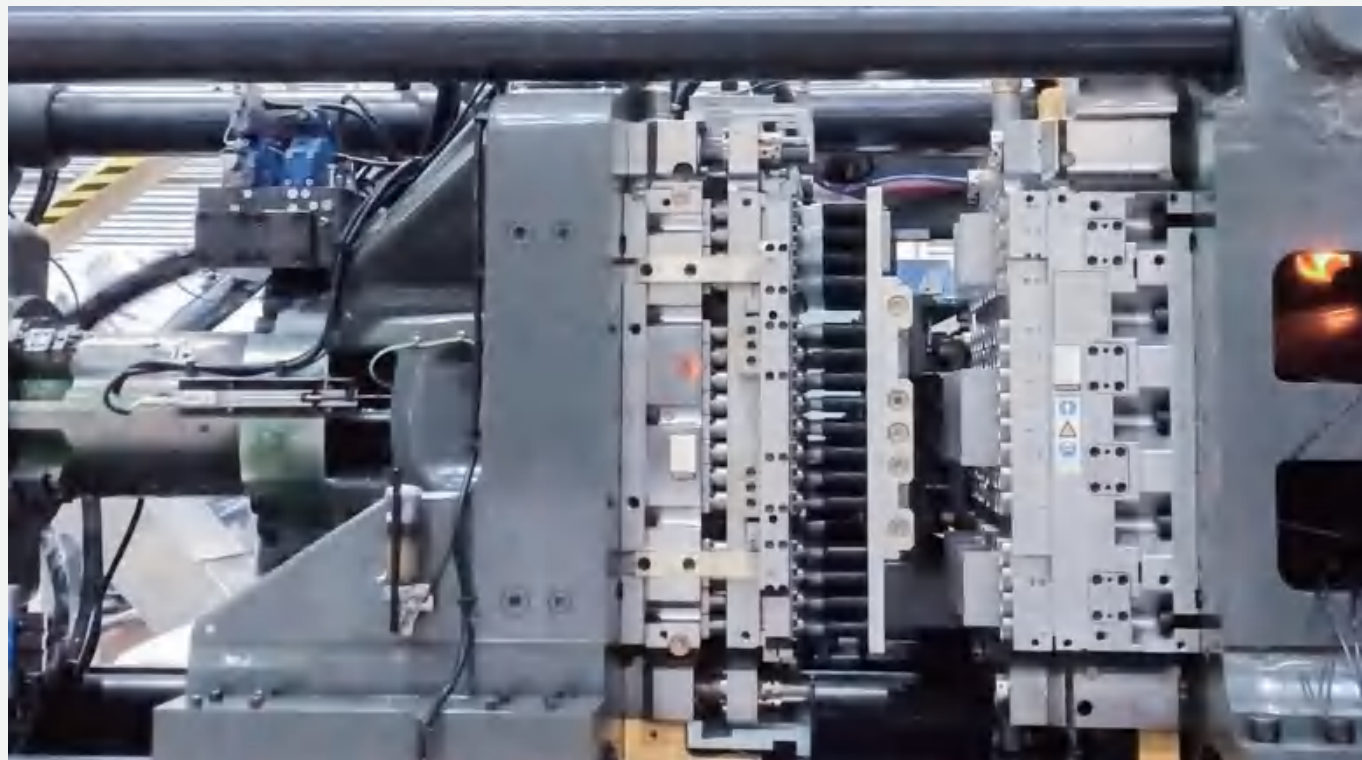
Synchronous plasticization and injection at the same.

Up to 5 sets of high efficient accumulator ensure the stability of high capacity injection.

Advanced servo valve control technology makes the highly dynamic injection possible.

### CLAMPING UNIT

#### 锁模装置



- 业内领先的液压直驱锁模结构，完美的锁模力控制和模具保护能力，使得系统运行异常稳定，模具寿命极致延长。
- The industry-leading hydraulic direct press clamping unit, perfect mold clamping force control and mold protection capabilities, make the system run abnormally stable, mold life is extremely extended.
- 专为PET瓶坯模具设计的模板结构，使得模具各部分都受力均匀，同时保证了高速开合模的要求。
- Special design for PET perform mold, which ensures the fast clamping movement and uniform force to the mold.

### POST-MOLD COOLING SYSTEM

#### 模后冷却系统



- 带副轴的模后冷却机械手使瓶坯充分冷却的同时，更缩短了产品生产周期。
- The double axis post-mold cooling system up to 3 stations and makes the perform perfectly cooled with better cycle time.

### BRAND NEW HMI CONTROL SYSTEM

#### 全新的人机交互控制系统

采用由国家千人计划的获得者，原HUSKY Injection Molding Machine ltd的控制系统开发部首席工程师，加拿大华裔博士主持开发的新一代基于BECKHOFF Pcbased平台的注塑机控制系统。

The project leading by former HUSKY engineer who was in charge of developing injection machine control system. Applied with his new generation PC based BECKHOFF injection system control solution.



### DEMARK MACHINE COULD HAS FOLLOWING ADVANTAGE

#### 具有以下优势

- 稳定快速的生产周期；
  - 快速的PLC执行周期；
  - 高性能的PC和快速的I/O；
  - 各控制部件的快速通讯能力；
  - 自校正和自适应的控制方法；
  - 高级的各种速度、压力、温度等的控制算法和节能控制策略；
  - 友好的用户设计与界面；
  - 明了精确的报警功能；
  - 详细的操作事件记录；
  - 配备寸触摸屏，双核处理器，大内存和硬盘；
  - 非接触式电子尺，寿命长，EtherCAT通讯数字讯号传输，抗干扰强。
- Stable and fast cycle time;
  - Fast PCL execution time;
  - High performance PC and fast I/O capability;
  - Quick communication thought all control components;
  - Self-adjustment and self-adaption;
  - High level control algorithm for speed, pressure and temperatue. High level control strategy for reducing energy control strategy for reducing energy consumption;
  - Friendly user interface design;
  - Clear and accuracy alarm function;
  - Detailed event log;
  - Touch screen, dual core CPU, big memory and hard drive equipped;
  - Non-touched electronic ruler with longer life time, and EtherCAT digital single with stronger anti-interference capability.

# 辅机 & 模具

## AUXILIARY & MOLD

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### 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.

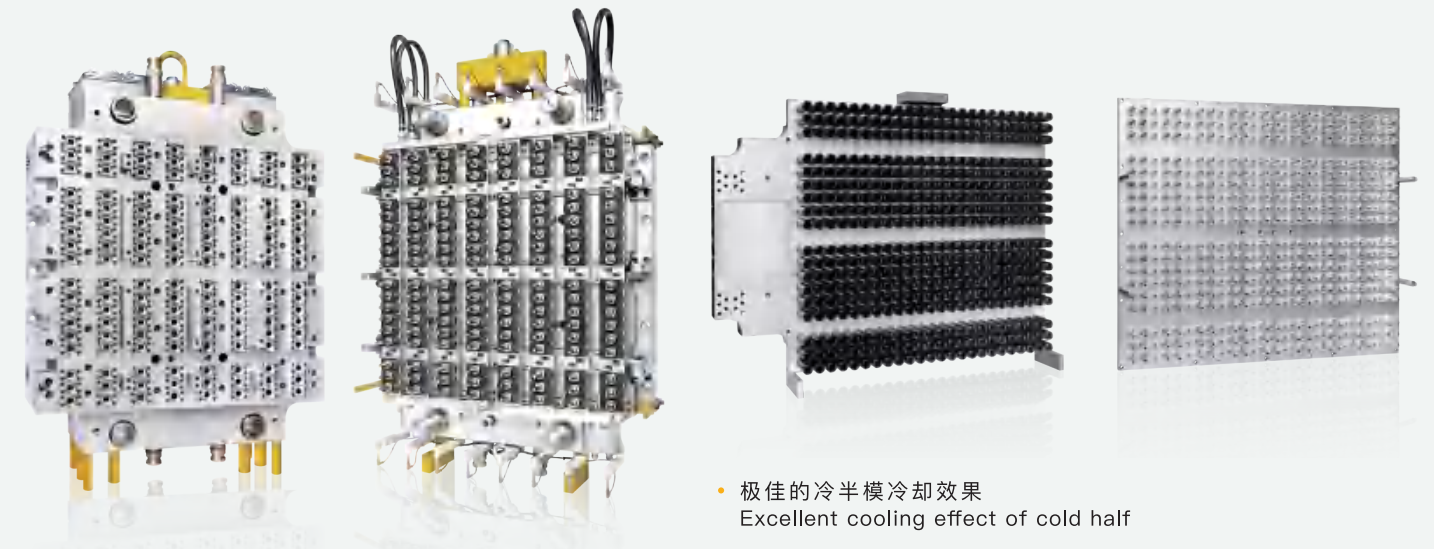
### DEMARK HIGH QUALITY PREFORM MOLD

#### 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 144 CAVITIES PREFORM MOLD & EOAT  
德玛克144腔瓶坯模具和EOAT

- 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