

iPET 系列高性能瓶坯注塑系统

IPET HIGH PERFORMANCE PREFORM INJECTION SYSTEM



DEMARK

与世界同步的高性能瓶坯生产系统

WORLD CLASS HIGH PERFORMANCE PREFORM PRODUCTION SYSTEM

德玛克iPET高速瓶坯生产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128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。同时更是提供了德国MHT瓶坯注塑模具供您选配。

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 iPET high speed preform production 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 128 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. You can also choose MHT preform injection molds from Germany at the same time.

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.



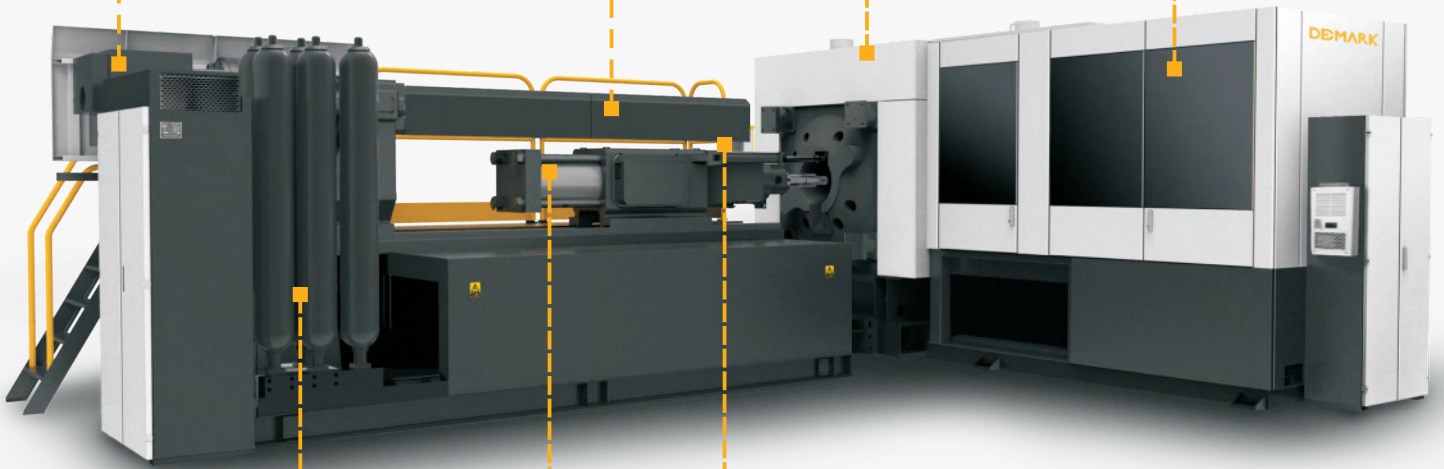


后冷却机械手
POST COOLING TAKE OUT ROBOT

伺服电机溶胶
ELECTRIC SCREW DRIVE

可靠的锁模
RELIABLE CLAMPING

同步溶胶
SYNCHRONOUS MELTING



伺服阀控制
SERVO VALVE CONTROL

高效蓄能器
HIGH EFFICIENT ACCUMULATOR

人机交互系统
HCI CONTROL SYSTEM



伺服电机溶胶 ELECTRIC SCREW DRIVE

- 进口伺服电机溶胶，带来了节能和高效的双重提升。

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



同步溶胶 SYNCHRONOUS MELTING

- 可实现溶胶和射胶同步进行，大幅度缩短成型周期。

Synchronous materia melting, plasticization and injection at the same.



可靠的锁模 RELIABLE CLAMPING

- 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 preform mold, which ensures the fast clamping movement and uniform force to the mold.



后冷却机械手 POST COOLING TAKE OUT ROBOT

- 带副轴的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 stage post cooling robot makes the preform perfectly cooled with better cycle time.



高效蓄能器 HIGH EFFICIENT ACCUMULATOR

- 最高五组的高效蓄能器保证了大注射量的快速和稳定。

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



伺服阀控制 SERVO VALVE CONTROL

- 先进的伺服阀控制理念，使得射胶更加精准。

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



人机交互系统 HCI CONTROL SYSTEM

- 专门为PET生产设计的基于德国倍福的集中操作系统。

BECKHOFF centralized control system special designed for PET production.

主要技术参数

MAIN TECHNICAL FEATURES

MODEL		UNIT	iPET300/3500	iPET300/4500	iPET400/4500	iPET400/5500
INJECTION UNIT 注射单元	Screw L/D Ratio 螺杆长径比	L/D	25	25	25	25
	Screw Diameter 螺杆直径	mm	100	120	120	130
	Theoretical shot volume 理论射胶容积	cm ³	3063	4185	4185	5177
	Shot Weight(PET) 射出量(PET)	g	3676	5022	5022	6212
	Injection pressure 射胶压力	Mpa	1125	1125	1125	1326
	Plasticizing capacity 塑化能力(PET)	g/s	150	280	280	360
CLAMPING UNIT 合模单元	Clamping Force 锁模力	T	300	300	400	400
	Clamping Stroke 移模行程	mm	565	565	670	500
	Max/Min Thickness of Mould 最小/大模厚	mm	350-900	350-900	300-820	500-1300
	Space Between Tie Bars(WxH) 导杆间距(宽x高)	mm	780x780	780x780	845x845	920x920
	Ejector Stroke 顶出行程	mm	200	200	180	200
	Ejector Force 顶出力	T	11+37	11+37	28	11+37
	NO. of Ejector Pins 顶出杆根数	pcs	1+4	1+4	13	2+8
	maximun system pressure 最高系统压力	kgf/cm ²	180	180	180	180
MOULD 模具规格	Cavity(Max) 腔数(Max)	pcs	48/72	48/72	72/96	128
	Neck of Bottle(Max) 最大螺口直径	mm	42	42	42	30
	Length of preform(Max) 最大管腔长度	mm	190	190	220	120
	Weight of preform(Max) 最大管腔重量	g	40	40	40	30
	Type of Mould 模具形式	气动针阀式热流道模具 Needle Valve Of Non-cutting PET Preform Mold				
POWER UNIT 电气单元	Pump Motor Power 马达功率	KW	81+82	81+82	81+82	110+149
	Robot Power 机械手功率	KW	36	36	43	108
	Heater Input Capacity 熔胶电热容量	KW	78	88	88	130
	Mould Heater Capacity 模具加热容量	KW	55	55	68	90
ROBOT 取胚冷却机械手	Manipulator 机械手真空吸头	cavity	72x3	72x3	96x3	128x3
	Cooling Form 瓶胚冷却装置	cavity	72x3	72x3	96x3	128x3
	Size(LxWxH) 外型尺寸(长x宽x高)	cm	263x157x230	263x157x230	281x160x250	360x260x270
OTHER 其他	Power supply (3-phase AC) 电源 (交流三相四线制)	V/HZ	380	380	380/50	380/50
		KW	332	342	362	587
	Chilling Water 冷冻水要求	°C	5-10	5-10	5-10	7-9
		Mpa	0.8	0.8	0.8	0.8
		L/min	900	900	1200	1200
	Cooling Water 冷却水要求	°C	< 25	< 25	< 25	< 25
		Mpa	0.3	0.3	0.3	0.3
		L/min	300	300	300	300
	Compressed Air 压缩空气要求	Mpa	0.7-0.9	0.7-0.9	0.7-0.9	0.7-0.9
		L/min	800	800	1200	1200
Machine Size(LxWxH) 主机外型尺寸(长x宽x高)	cm	1030x230x250	1060x230x250	1090x205x260	1190x250x260	
Machine Weight 整机重量	T	30	31	34	43	

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