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2025年3月修订

机器目录

让用户创造更大的价值

Make Molding More Valuable

西诺控股集团有限公司

SINO HOLDINGS GROUP CO.,LTD

企业介绍
COMPANY PROFILE

西诺控股集团成立于2007年，助力于为世界提供智能注塑成型系统（注塑机、注塑模具、智能制造系统），是集软硬件的研发、生产、销售、服务于一体的组织。西诺品牌始终站在技术革命和时代发展的前列，并致力于引领中国乃至世界注塑成型产业的发展潮流。

集团拥有30余名科学研究人员，160余名行业资深工程师。此外，西诺还设立了三大研发中心，一处位于德国慕尼黑，两处位于中国本土。西诺成功研发的43种项目顺利投产，其中包括智能注塑成型系统、智能无纺熔喷系统、智能制造运管软体系统等，都获得了业内的高度认可及政府项目创新奖。

随着集团全球化品牌战略的实施，依托高质量产品和服务体系，西诺已建立了覆盖全球的庞大销售网，以便于为用户提供更及时、完善、便利的服务。

在中国2025制造业强国目标的推进下，作为行业注塑成型系统的引领者，西诺从为用户提供有竞争力的注塑装备以及注塑成型方案，迭代到向用户提供成套的智能注塑装备。在现代化制造业转型升级的时代，西诺将以智慧注塑成型系统引领全球制造业高质量发展。

Sino Holdings Group Co., Ltd., established in 2007, is engaged in manufacturing and providing intelligent plastic injection molding system - plastic injection molding machine, plastic injection mould and intelligent plastic molding system, integrating software and hardware R&D, supplying, sales and service. SINO brand has always been at the forefront of technological revolution and the development of the times, and is committed to leading the development trend of China and the world's injection molding industry.

There is an outstanding R&D team with more than 30 scientific experts, more than 160 senior engineers. And SINO owns 3 R&D centers: 1 in Munich, Germany, and 2 in Mainland China. Currently, 43 projects have been developed and put into production successfully, including intelligent injection molding system, intelligent non-woven melt blown system and intelligent automation management software system, which have been highly recognized by the industry and government (project innovation awards).

With the implementation of the Group's global brand strategy and relying on high-quality products and service systems, SINO has established global sales, service and on-site support covering the world in order to provide users with more timely, complete and convenient services.

With the promotion of China's goal of being manufacturing power in 2025, as a leader in the industry's injection molding system, SINO transform into providing users with a complete set of intelligent injection molding equipment from providing users with competitive injection molding equipment and injection molding solutions. In the era of transformation and upgrading of modern manufacturing, SINO will lead the high-quality development of global manufacturing with intelligent injection molding systems.

Pursue excellent quality and create a world-renowned brand

追求卓越品质，创造世界品牌

德库玛以先进的注塑机技术，配合高端的模具设计制造理念，成熟高效的注塑工艺，为客户提供全方位的解决方案



目 录

CONTENTS

德库玛低惯量高精度射出技术 ------ 05 - 06
DKM Low Inertia Injection Technology

第六代DFS高速机 ------ 07 - 10
DKM Sixth Generation Low Inertia High Speed Machine

胜利者系列中速机 ------ 11 - 18
Victor Series Fast-speed Machine

FE全电动注塑机 ------ 19 - 30
Full Electric Injection Molding Machine

洁净EH注塑机 ------ 31 - 36
Clean EH Injection Molding Machine

伺服节能注塑机 ------ 37 - 50
Servo Energy Saving Injection Molding Machine

二板式注塑机 ------ 51 - 56
Two Platen Injection Molding Machinea

PET瓶胚专用注塑机 ------ 57 - 62
PET Preform Injection Molding Machine

注塑机生产过程监控 ------ 63 - 64
KePlast EasyNet

德库玛服务网络 ------ 65 - 66
DKM Service

德库玛低惯量高精度射出技术

DKM Low Inertia Injection Technology



低惯量高精度射出技术是DKM为提高生产效率、降低能耗而自主研发的一项型新技术突破。

Low inertia and high precision injection technology is a new technological breakthrough inde-pendently developed by DKM to improve production efficiency and reduce energy consumption.

高精度

- 储料伺服电机（或液压马达）与射台移动板分开，减少注射时产生的惯性
- 注射惯性小，射出重复精度控制在±2‰误差内，提升制品的重复精度

高节能

- 发热小，效率高，过载能力大，响应快
- 能耗较常规机型降低15%-20%，达到了国家一级能耗的要求

应用广

- 应用于小吨位到大吨位的不同规格的注塑机
- 应用于全电型、液压型、高速型各类注塑机，应用范围广泛

高速度

- 高耐磨的花键传动机构，直接传递螺杆转动扭力
- 响应时间因惯量降低，较常规机型增加50%以上
- 射出油缸上创新设计，射出速度提高，有效缩短循环周期

High precision

- The storage servo motor (or hydraulic motor) is separated from the moving plate of the shooting table to reduce the inertia generated duringinjection.
- Small injection inertia, injection repetition accuracy control within ±2% error,improve product repetition accuracy.

High energy saving

- Low heat, high efficiency, large overload capacity, fast response.
- Energy consumption is reduced by 15%-20% compared with conventional models,meeting the requirements ofnational level energy consumption.

Be widely used

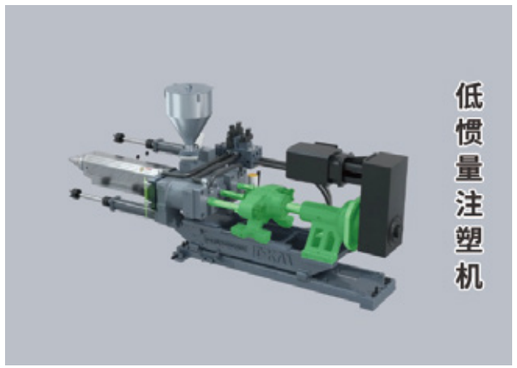
- Used for injection molding machines of different specifications from small tonnage to large tonnage.
- Used in all electric, hydraulic, high-speed injection molding machine, a wide range of applications.

High speed

- High wear-resistant spline drive mechanism, directly transfer the screw rotation torque.
- Response time is more than 50% higher than conventional models due to reduced inertia.
- Injection cylinder innovative design, injection speed, effectively shorten the cycle.

低惯量注塑机核心优势对比

Core Advantages of Low-Inertia Injection Molding Machines





- 同锁模力下，低惯量机注射系统重量仅为传统机1/2、电预塑机1/3
- 提速60%：达到75mm/s注射速度仅需30ms（传统机75ms）
- 单产能耗降15-20%：传统机17.4kW·h/136件 → 低惯量机14.75kW·h/139件

- Under the same clamping force, the injection system of low-inertia machines weighs 1/2 that of traditional machines and 1/3 that of electric pre-plasticizing machines .
- 60% faster acceleration: Achieves 75mm/s injection speed in 30ms (vs. 75ms for traditional machines).
- 15-20% lower energy consumption per unit: Traditional: 17.4 kWh/136 parts → Low-inertia: 14.75 kWh/139 parts.

第六代DFS高速机

DKM sixth generation low inertia high speed machine

模锁

- 加强中心顶板,减少锁模应力。
- 半中心锁膜，锁模受力更均匀。
- 模板整体加强。中模板厚度相对普通注塑机厚度增加160%。通过应力分析，增加更合理加强筋布局，使锁模更牢固。
- 半球体前模板蜂巢式结构，减小中心孔设计变形,能承受更大的锁模力。
- 加大哥林柱，同时增加应力槽。兼具强度与耐疲劳度，寿命更长。

射台

- 注射惯性小，射出重复精度控制在±2‰误差内，提升制品的重复精度。
- 单缸注射、同心度更高、螺杆组件寿命更长。
- 独立中空活塞杆，避开储料旋转、活塞密封寿命更长。
- **低惯量专利应用**。注、塑分离、响应速度更快，注射精度更高，标配电预塑使用更节能。

人性化设计

- 双水排设计、使用更便捷
- 后钣金独立开合，检修更方便
- 润滑合理布局，操作更方便
- 利用热力学原理，科学布局，电箱散热。
- 独立外接电源，开关使用更安全
- 红外加热圈、安全更节能

系统

- 标配12寸触摸控制屏、使用更便捷。
- 弘讯与德库玛专项研发的控制系统运行控制更丝滑。
- 多轴联动。产品生产周期更短。

Clamping

- Strengthen the center top plate to reduce clamping stress.
- Semi-center clamping, the clamping force is more even.
- The overall template has been strengthened. The thickness of the medium template is 160% higher than that of ordinary injection molding machines. Through stress analysis, a more reasonable reinforcement layout is added to make the mold clamping stronger.
- Hemispherical front template honeycomb structure, reduced center hole design can withstand more Large clamping force.
- Enlarge the tie bar and increase the stress groove. It has both strength and fatigue resistance and longer life.

Injection Unit

- Low injection inertia and high injection repeatability within ±2‰, improving the quality of products.
- Single cylinder injection, higher concentricity and longer service life of screw.
- Screw rotation and advance with independent spline drive, to avoid the reciprocating screw movement of the piston rod, to eliminate the possibility of oil leakage.
  Low inertia patented application. Injection and storage are separated.
- High response speed and high injection precision, and the standard electric is more energy-saving.

Humanized Design

- Double drain design, more convenient to use
- The rear sheet metal opens and closes independently, making maintenance more convenient
- Reasonable lubrication layout makes operation more convenient
- Utilize the principle of thermodynamics and scientific layout to dissipate heat from the electrical box.
- Independent external power supply, switch is safer to use
- Infrared heating circle, safer and more energy-saving

System

- The control system specially developed by Hongxun and DKM has smoother operation control.
- Multi-axis linkage. Product production cycle is shorter.
- The standard 12-inch touch control screen is more convenient to use
- The mold clamping is equipped with a non-contact electronic ruler as standard, which has higher accuracy and longer life.



DFS低惯量技术参数表

DFS LOW INERTIA SERIES MACHINE PARAMETER

参数表			DKM-310DF^S	
			A	B
注塑装置	INJECTION UNIT	单位		
螺杆直径	Screw Diameter	mm	50	52
螺杆长径比	Screw L/D Ratio	(L/D)	26	25
理论射出容量	Shot Volume	cm^3	470	509
注射重量(PS)	Weight	gram	423	458
注射压力	Injection Pressure	Mpa	185	171
射出速度	Injection Speed	mm/s	385	
螺杆最高转速	Screw Speed	rpm	0-300	
螺杆行程	Screw Stroke	mm	240	
合模装置	CLAMPING UNIT			
合模力	Clamping Tonnage	kN	3100	
开模行程	Toggle Stroke	mm	610	
最小模具尺寸	Min. Mold Size	mm	420X420	
拉杆内距	Tie Bar Distance	mm	620x600	
最大模厚	Max. Mold Height	mm	650	
最小模厚	Min. Mold Height	mm	250	
顶出行程	Ejector Stroke	mm	165	
顶出力	Ejector Tonnage	kN	79	
顶针数量	Ejector Number	Unit	5	
其他	OTHERS			
最大油泵压力	Max.Pump Pressure	Mpa	19	
电机功率	Pump Motor Power	kW	134	
电热功率	Heater Power	kW	26	
外形尺寸(LXWXH)	Machine Dimension	m	7.52X1.755X2.3	
机器重量	Machine Weight	t	14.3	
油箱容积	Oil Tank Capacity	L	450	

DKM-360DF^S		DKM-460DF^S	
B	C	A	B
52	55	55	60
25.4	24	27.3	25.1
509	569	676	800
458	512	618	736
196	175	216	182
420		440	
0-300		0-300	
240		285	
3600		4600	
640		700	
460X460		530X530	
680x680		760X730	
680		750	
220		250	
165		195	
79		138	
5		13	
19		19	
153		188	
26		35	
7.615X1.755X2.3		8.28X1.81X2.435	
17.2		24.6	
450		550	

胜利者系列中速机

FAST-SPEED MACHINE VICTOR SERIES

专为提质增效而设计，融合高效动力系统与智能化控制技术，全面提升生产稳定性与成型效率。

The DKM-Victor series Fast-speed injection molding machines are specifically designed to enhance product quality and production efficiency, integrating a high-performance power system with intelligent control technology to comprehensively improve production stability and molding efficiency.



COMPARISON

特性 FEATURE	普通机SV系列 ORDINARY MACHINE SV SERIE	中速机胜利者系列 FAST-SPEED MACHINE VICTOR SERIES	高速机DFS系列 HIGH-SPEED MACHINE DFS SERIES
射速范围 Injection Speed Range	0-100mm/s	100-200mm/s	>300mm/s
生产周期 Cycle Time	标准 Standard	较快 Fast	高速 Faster
能耗 Energy Consumption	低 Low	低 Low	标准 Standard
机器成本 Cost	低 Low	较低 Medium-Low ✓ 更高性价比 ✓ Higher Cost Performance	高 High

该系列机型在保证精密成型的前提下，缩短周期时间，显著提高产品良率,降低生产耗能，降低成本以大幅提升整体性价比。

While ensuring precision in molding, this series shortens cycle times, significantly increasing product yield while reducing energy consumption and production costs, thereby greatly enhancing overall cost-effectiveness.

DKM-胜利者系列不仅满足多元化生产需求，更以卓越性能助力企业增强市场竞争力。

The DKM-Victor series injection molding machine not only meets diverse manufacturing requirements, but also empowers enterprises to strengthen their market competitiveness with superior performance.









核心优势
Core Advantages

缩短成型周期25-40%

REDUCED MOLDING CYCLE TIME BY 25-40%

25%–40%

·射胶时间压缩≥50%：

基于中速机螺杆采用高速推进技术，射胶速度实现倍数级提升，大幅降低型腔填充耗时。

·Injection Time Reduced by ≥50%

Leveraging high-speed screw advancement technology in the medium-speed machine, the injection speed is significantly increased, leading to a substantial reduction in cavity filling time.

·保压时间缩短≈20%

高速填充形成更厚熔芯层，增强熔体补缩流动性，有效降低保压压力与时长。

·Holding Pressure Time Reduced by ≈20%

The thicker melt core layer formed by high-speed filling enhances the melt's shrinkage compensation flowability, effectively reducing holding pressure and duration.

·冷却效率同步优化

末端熔胶提前进入冷却阶段，缩短整体冷却周期，缩减量等同射胶时间节省量。

·Synchronized Cooling Efficiency Improvement

The melt at the end of the process enters the cooling phase earlier, shortening the overall cooling cycle by an amount equivalent to the saved injection time.

大幅降低制品不良率

SIGNIFICANTLY REDUCED DEFECT RATE

·消除表面缩痕

均质熔体与高效保压显著降低收缩缺陷风险。

·Elimination of Surface Sink Marks

Homogeneous melt and efficient holding pressure significantly reduce the risk of shrinkage defects.

·抑制飞边缺陷

保压压力大幅下降，从根源减少飞边产生概率。

·Suppression of Flash Defects

The substantial reduction in holding pressure minimizes the likelihood of flash formation at the source.

节能高效，提质降本

ENERGY-EFFICIENT, HIGH-QUALITY, AND COST-EFFECTIVE PRODUCTION

·节能20%以上

成型周期缩短，能耗显著降低。

·保压节能5%

保压压力与时间的减少，进一步降低能耗。

·提质增效

成品率提升，单位时间产出增加，实现高质量、低成本、高效率生产。

·Energy Savings Over 20%

The shortened molding cycle leads to significant energy reduction.

·Energy Savings from Holding Pressure Reduction of 5%

The decreased holding pressure and duration further lower energy consumption.

·Quality Improvement and Increased Efficiency

Higher finished product rates and increased output per unit time achieve high-quality, low-cost, and efficient production.

以PC材质（2MM壁厚）空调件生产线为例，以下是普通机和中速机生产周期对比:

Taking the production line of PC material (2mm wall thickness) air conditioning components as an example.

CYCLE TIME COMPARISON

Ordinary injection molding machines（DKM-SV） vs. Fast-speed injection molding machines(DKM-Victor)

	DKM-SV 普通机	VICTOR 胜利者系列中速机
总周期 Cycle Time	22.5S	16.5S
关模 Mold Close	4.0S	3.0S
注塑 Injection	3.0S	1.5S
保压 Pressure	1.0S	0.8S
冷却 Cooling	5.0S	3.7S
开模Mold Open	3.0S	1.5S
顶出 Eject Fwd	2.0S	1.5S

结构性能
Structural Performance

01
动力
Power

- 满足更广泛的生产场景需求
  凭借强劲的动力系统，设备能够适配更广泛的成型工艺与材料种类，全面应对复杂多变的生产场景需求，提升设备适应性与应用灵活性。
- Meeting Diverse Production Scenario Demands
  Equipped with a robust power system, the machine adapts to a wider range of molding processes and material types, comprehensively addressing complex and variable production needs while enhancing adaptability and application flexibility.

02
速度
Speed

- 快速填充模腔，有效减少制品应力，显著提高产品良品率。
- 标配比例阀，开合模又快又稳，缩短成型周期。
- 配备高性能溶胶组件，实现快速、均匀塑化。

- Rapid cavity filling effectively reduces product stress and significantly increases yield rates.
- Standard proportional valves enable swift and stable mold opening/closing, shortening cycle times.
- High-performance plasticizing components ensure fast and homogeneous melting.

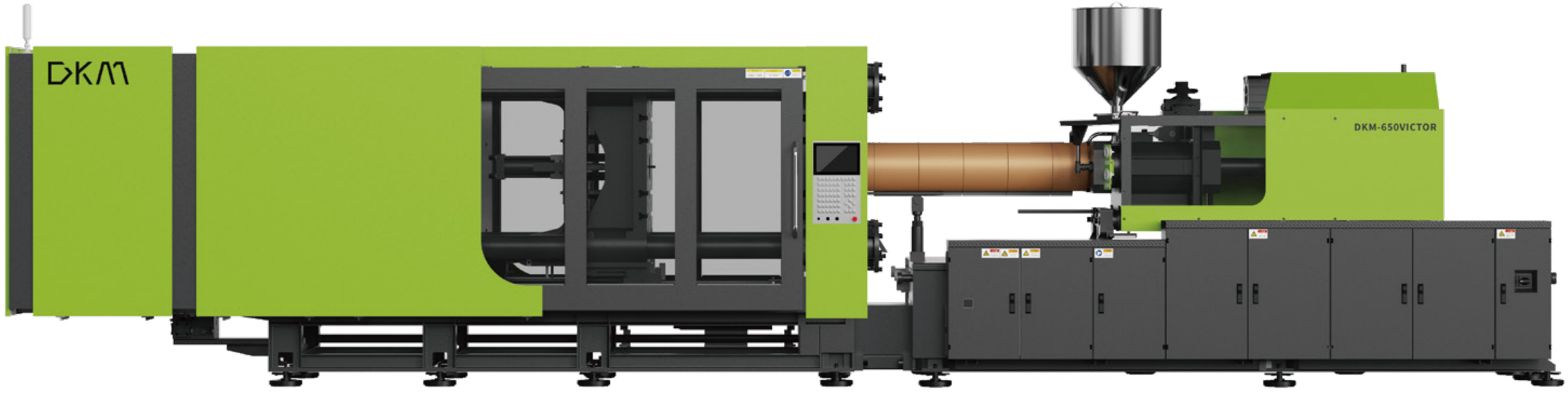
03
产能
Productivity

- 综合产能提升25%。
  通过结构优化与系统升级，整机运行效率显著提升，在保证产品质量的前提下，实现单位时间内产量的大幅增长，综合产能提升可达25%，助力企业高效生产。
- Overall Output Increased by 25%
  Through structural optimization and system upgrades, operational efficiency is substantially improved. While guaranteeing product quality, output per unit time surges significantly, achieving up to 25% higher overall productivity to empower efficient manufacturing.

04
节能设计
Energy Efficiency

- 搭载电预塑，可实现预塑联动功能，塑化速度和质量提升的同时整机节能效率全面提升。节能率高达 20% - 30%，大幅降低生产能耗，以高效节能助力企业绿色生产。
- 采用红外加热圈，有效减少热能损耗，提升能源利用效率，进一步降低整体能耗，同时减少车间热排放，优化生产作业环境。

- Electric pre-plasticizing enables simultaneous plasticizing functions. Plasticizing speed and quality are enhanced while overall energy efficiency improves by 20%–30%, drastically reducing energy consumption and supporting green manufacturing.
- Infrared heating bands minimize thermal loss, boost energy utilization, further reduce overall energy consumption, and decrease workshop heat emissions for an optimized production environment.



胜利者系列中速机参数表
FAST-SPEED MACHINE SPECIFICATION

			DKM-350VICTOR			DKM-450VICTOR		
			A	B	C	A	B	C
注塑装置	INJECTIONUNIT							
螺杆直径	Screw Diameter	mm	60	65	70	70	75	80
螺杆长径比	Screw L/D Ratio	L/D	23	21	20	23.6	22	20.6
理论注射容量	Theoretical Shot Volume	CC	990	1161	1347	1501	1723	1960
注射重量(PS)	Injection Weight (PS)	g	901	1057	1226	1366	1568	1784
注射压力	Iniection Pressure	MPa	202	174	150	204	177	156
注射速度(max)	Injection Speed (max)	mm/s	200			200		
注射速率(PS)	Injection Rate(PS)	g/s	513	603	699	702	805	916
螺杆转速	Screw Speed	rpm	0-300			0-280		
塑化能力(GPPS)	Plasticizing Rate(GPpS)	g/s	70	85	105	100	120	136
合模装置	CLAMPINGUNIT							
锁模力	Clamping Force	kN	3500			4500		
移模行程	Mold Movement Stroke	mm	640			700		
拉杆内间距	Dist. Between Tie Bars	mm	680×680			760×760		
最大模厚	Mold Height Max.	mm	680			760		
最小模厚	Mold Height Min.	mm	220			250		
顶出行程	Ejection Stroke	mm	165			195		
顶出力	Ejector Force	kN	79			138		
顶出杆数	Ejector Number	n	13			13		
其他	OTHERS							
系统压力	System Pressure	MPa	21			21		
油泵马达	Pump Motor Power	kW	62			69		
电热功率	Heater Power	kW	22			27.2		
外型尺寸	MachineDimension(LxWxH)	m	6.9×1.7×2.35			7.8×1.9×2.5		
机器重量	Machine Weight	t	13.5			17		
油箱容积	Oil Tank	L	400			50		

DKM-550VICTOR			DKM-650VICTOR			DKM-850VICTOR		
A	B	C	A	B	C	A	B	C
75	80	85	85	90	95	95	100	110
23.5	22	20.7	22.7	21.5	19.3	23.6	22.4	20.4
1922	2187	2468	2440	2736	3048	3331	3691	4467
1749	1990	2246	2220	2489	2774	3032	3359	4065
204	180	159	210	188	168	185	167	137
200			185			182		
803	913	1031	951	1069	1191	1173	1300	1573
0-250		150	0-200			0-200		
110	130		120	150	170	170	200	250
5500			6500			8500		
850			900			1040		
830×830			900×900			1040×1040		
850			1000			1040		
290			300			420		
240			240			300		
150			210			210		
17			21			21		
21			21			21		
100			100			112		
33.9			44.9			55.4		
8.6×2×2.5			10.2×2.3×3.15			10.8×2.4×3.25		
20			30			35.5		
750			1000			1000		

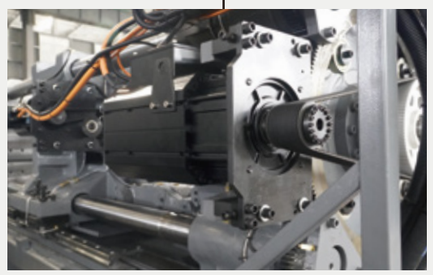
FE全电动注塑机

FULL ELECTRIC INJECTION MOLDING MACHINE

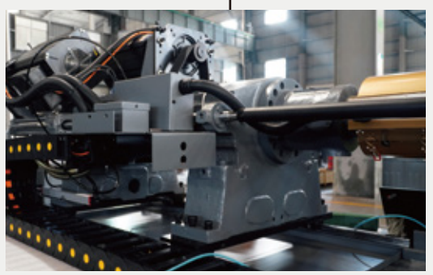




锁模 Mode-locking



电气控制 Electrical control



射台 Shooting platform

应用领域
Application Areas

DKM全电动注塑机广泛应用于汽车、电子、医疗、包装等多个领域，适用于精密零件的生产，例如采血管、鲁尔针筒注射器等医疗产品以及光学镜片等高透产品，满足不同行业的需求。

DKM Full Electric injection molding machine is widely used in automotive, electronics, medical, packaging, and other fields, suitable for the production of precision parts, such as medical products like blood collection tubes, luer syringes,etc and high-transparency products like optical lenses, to meet the needs of different industries.







01
整机
Entire structure

- 整机采用模块化设计，既能确保性能，又可根据需求实现灵活多变的组织形式，适应更多的生产场景。
- The entire structure features a modular design that ensures high performance and can be organized flexibly based on demands, allowing it to adapt to a wider range of production scenarios.

02
射台
Injection unit

- 射台采用直列式单丝杠设计，主要零件使用精密车床加工，确保丝杠加工精度，标准化组装流程，配备高标准检测流程，确保丝杠在正确的状态下工作，无偏载，从而大大增加了滚珠丝杠的使用寿命。
- 射台整移及射胶均采用线性导轨支撑，随动性好，稳定性高。
- Injection unit adopts inline single-screw design, with key components processed by precision machining centers to ensure that the screw under the right working state without any eccentric load,thus greatly extending the service life of the ball screw.
- The injection unit's movement and injecion processes are both supported by linear guides, offering excellent responsiveness and high stability.

03
锁模
Mold clamping

- 高刚性的锁模机构，采用电脑优化的五铰斜排模式，既保证了锁模的刚性，还兼顾了开模空间。
- 可媲美直压式注塑机的动模板设计，确保模板中心施压，在注射成型过程中更易于保护模具，延长模具的寿命。
- 锁模力稳定，冲击小，开模位置重复性好。
- 顶出位置准确，便于机械手取拿制品，易于实现自动化。
- The high-rigidity clamping mechanism adopts a computer-optimized five-point diagonal toggle design, ensuring clamping rigidity while accommodating sufficient mold-opening space.
- The moving platen design rivals that of direct-clamp injection molding machines, ensuring central pressure on the platen. This maintains balanced force on the molds and extends their lifespan.
- The clamping force is stable and the mold-opening position has good repeatability.
- The ejection position is precise, which is convenient for the robot to take out the products and easy to realize automation.

04
电气控制
Electrical control

- 配置弘讯SANDAL II全电动专用控制电脑，采用ＮＥＴ及CAN通讯。15吋高清电脑显示屏，其拥有良好的人机界面。
- 系统、电机及驱动弘讯集成，有利于各轴的通信，确保系统的稳定性。
- Equipped with Techmation SANDAL II all-electric specialized control computer, using NET and CAN communication. It provides a good man-machine interface with its 15-inch high-definition computer display.
- The electric system, motor and drive are integrated by Techmation, facilitating communication between axes and ensuring whole system stability.

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应用领域
Application Areas



节能高效 Energy efficient

能量利用率高：全电动注塑机由伺服电机直接驱动，能量转换效率可达95%以上，远高于传统液压系统的30-50%。
无需液压油：全电动注塑机不使用液压油，减少了液压油的购买、维护和处理成本，同时也避免了液压油泄漏带来的环境污染。

High energy efficiency: The all-electric injection molding machine is directly driven by the servo motor, and the energy conversion efficiency can reach more than 95%, which is much higher than the 30-50% of the traditional hydraulic system.
No hydraulic oil: The all-electric injection molding machine does not use hydraulic oil, which reduces the cost of hydraulic oil and is cleaner in the production, avoiding the environmental pollution caused by hydraulic oil leakage.

精密控制 Precise control

高定位精度：全电动注塑机的伺服电机和精密控制系统可以实现高达0.01mm级别的定位精度，确保注塑产品的精确度和一致性。
稳定性：不受油温变化影响，注射性能稳定，保证产品质量。

High positioning accuracy: The servo motor and precision control system of the all-electric injection molding machine can achieve positioning accuracy of 0.01mm to ensure the accuracy and consistency of the injection molding products.
Stability: The whole production process via the all-electric machine will not be affected by oil temperature changes. Its stable injection performance can ensure high quality of the products.

高速响应 Fast response

快速响应：伺服电机的快速响应时间（10毫秒级）比液压系统的响应时间（100毫秒级）快得多，缩短了成型周期，提高了生产效率。

Fast response: The servo motor has a fast response time of 10 ms, which is significantly quicker than the hydraulic system's response time of 100 ms. This faster response greatly shortens the molding cycle and enhances production efficiency.

友商对比 Comparison between DKM and other competitors

说明 DESCRIPTION	单位 UNIT	DKM-180FE	Competitor Machine
注射压力 Injection Pressure	Mpa	231	197
理论注射容积 Max. Shot Volume	cm^3	350	333
射胶速度 Injection Speed	mm/s	300	250
电热功率 Heater Power	kW	13.5	20.2
机器重量 Machine Weight	t	8.3	9.2

1.高注射压力搭配高注射容积，无论是生产小体积/重量的塑件，还是大体积/重量的产品，都同样使用，使用范围广。
2.较高的注射速度能够缩短成型周期，大幅度提高车间的生产效率
3.适合生产高精密、高附加值的塑件，提升单位时间产能效益

1.High injection pressure combined with a large injection volume allows for the production of both small-volume/weight plastic parts and large-volume/weight products, making it widely applicable across various production scopes.
2. Higher injection speed can shorten the molding cycle, significantly improving the production efficiency of the workshop.
3. It is suitable for the production of high-precision, high-value-added plastic parts, thereby enhancing the output efficiency per unit of time.

传统机对比 Comparison between DKM FE series and SV traditional hydraulic series

说明 DESCRIPTION	单位 UNIT	DKM-180FE	DKM-180SV
注射压力 Injection Pressure	MPa	231	214
理论注射容积 Max. Shot Volume	cm^3	350	312
螺杆转速 Max. Screw Speed	rpm	300	200

1.高注射压力，更适合薄壁、结构复杂或者高精度产品的制造。
2.高螺杆转速，缩短塑化时间，助力塑化效率。

1. High injection pressure is more suitable for projects of thin wall, complex structure or high precision products.
2. High screw rotation speed shortens the plasticization time, enhancing plasticization efficiency.

全电动注塑机参数表

FULL ELECTRIC INJECTION MOLDING MACHINE SPECIFICATION

			DKM-90FE						DKM-130FE								
			E165-30			E185-30			E165-30			E185-30			E320-30		
注塑装置	INJECTIONUNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw Diameter	mm	22	26	30	26	30	35	22	26	30	26	30	35	30	35	40
螺杆行程	Screw Stroke	mm	100	120	120	135	140	140	100	120	120	135	140	140	160	160	160
螺杆长径比L/D	Screw L/D Ratio		22	22	22	22	22	20	22	22	22	22	22	22	23.3	20	20
注射压力	Injection Pressure	Mpa	320	250	195	270	205	150	320	250	195	270	205	205	270	200	153
理论注射容积	Max.Shot Volume	cm3	38	64	85	72	99	135	38.01	63.71	84.82	71.68	98.96	98.96	113	154	201
理论射胶量(PS)	Max. Shot Weight(Ps)	g	34	57	76	65	89	121	34.21	57.34	76.34	64.51	89.06	89.06	102	139	181
射胶速率	Injection Rate	cm^3 /sec	133	159	212	159	212	289	133	159.3	212.1	159.3	212.1	212.1	212	289	377
射胶速度	Injection Speed	mm/s	350	300	300	300	300	300	350	300	300	300	300	300	300	300	300
螺杆转速	Max.Screw Speed	rpm	400	400	400	400	400	400	400	400	400	400	400	400	350	350	350
合模装置	CLAMPINGUNIT																
锁模力	Clamping Force	kN	900						1300								
开模行程	Opening Stroke	mm	360						400								
四柱内距	Space Between Bars	mm	420*420						510*510								
最大模厚	Max.mold Height	mm	510						550								
最小模厚	Min.mold Height	mm	150						150								
顶针行程	Ejector Stroke	mm	100						100								
顶针力	Ejector Force	kN	24.5						35								
其他	OTHERS																
电机功率	Motor Power	kw	37.5			48			37.5			48			40		
电热功率	Heater Power	kW	5	6	7.6	6	7.6	8	5	6	7.6	6	7.6	8	7.3	7.3	7.5
液压电机功率	Hydraulic Motor Power	kW	10						10								
系统压力	Hydraulic System Pressure	Mpa	16						16								
油箱容量	Oil Tank Capacity	L	50						50								
机器重量	Machine Weight	Ton	4.2						5			5.1			5.3		
外形尺寸	Machine Dimension	m	4.3*1.4*1.85						4.6*1.55*1.95			4.6*1.55*1.95			4.7*1.55*1.95		

			DKM-180FE											
			E320-30			E452-30			E635-30			E800-30		
注塑装置	INJECTIONUNIT		A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw Diameter	mm	30	35	40	35	40	45	40	45	50	45	50	55
螺杆行程	Screw Stroke	mm	160	160	160	180	180	180	200	200	200	220	220	220
螺杆长径比L/D	Screw L/D Ratio		23.3	20	20	22.8	20	20	22.5	20	20	22.2	20	20
注射压力	Injection Pressure	Mpa	270	200	153	261	200	158	253	200	162	231	187	155
理论注射容积	Max.Shot Volume	cm3	113	154	201	173	226	286	251	318	393	350	432	523
理论射胶量(PS)	Max. Shot Weight(Ps)	g	102	139	181	156	204	258	226	286	353	315	389	470
射胶速率	Injection Rate	cm^3 /sec	212	289	377	289	377	477	377	477	589	477	589	713
射胶速度	Injection Speed	mm/s	300	300	300	300	300	300	300	300	300	300	300	300
螺杆转速	Max.Screw Speed	rpm	350	350	350	350	350	350	300	300	300	300	300	300
合模装置	CLAMPINGUNIT													
锁模力	Clamping Force	kN	1800											
开模行程	Opening Stroke	mm	470											
四柱内距	Space Between Bars	mm	570*520											
最大模厚	Max.mold Height	mm	600											
最小模厚	Min.mold Height	mm	220											
顶针行程	Ejector Stroke	mm	120											
顶针力	Ejector Force	kN	39											
其他	OTHERS													
电机功率	Motor Power	kw	50			55			68			75		
电热功率	Heater Power	kW	7.3	7.3	7.5	8.9	8.9	9.3	10.2	11	12	13.5	15	16.6
液压电机功率	Hydraulic Motor Power	kW	10											
系统压力	Hydraulic System Pressure	Mpa	16											
油箱容量	Oil Tank Capacity	L	80											
机器重量	Machine Weight	Ton	8			8.1			8.2			8.3		
外形尺寸	Machine Dimension	m	5.7*1.52*195			5.7*1.52*1.95			5.8*1.53*1.95			5.9*1.53*1.95		

全电动注塑机参数表

FULL ELECTRIC INJECTION MOLDING MACHINE SPECIFICATION

			DKM-230FE											
			E635-30			E800-30			E1050-30			E1350-30		
注塑装置	INJECTIONUNIT		A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw Diameter	mm	40	45	50	45	50	55	50	55	60	55	60	65
螺杆行程	Screw Stroke	mm	200	200	200	220	220	220	235	235	235	265	265	265
螺杆长径比L/D	Screw L/D Ratio		22.5	20	20	22.2	20	20	22	20	20	22	20	20
注射压力	Injection Pressure	Mpa	253	200	162	231	187	155	216	180	151	214	180	153
理论注射容积	Max.Shot Volume	cm3	251	318	393	350	432	523	461	558	664	630	749	879
理论射胶量(PS)	Max. Shot Weight(Ps)	g	226	286	353	315	389	470	415	502	598	567	674	791
射胶速率	Injection Rate	cm³ /sec	377	477	589	477	589	713	589	713	848	713	848	995
射胶速度	Injection Speed	mm/s	300	300	300	300	300	300	300	300	300	300	300	300
螺杆转速	Max.Screw Speed	rpm	300	300	300	300	300	300	300	300	300	300	300	300
合模装置	CLAMPINGUNIT													
锁模力	Clamping Force	kN	2300											
开模行程	Opening Stroke	mm	560											
四柱内距	Space Between Bars	mm	620*620											
最大模厚	Max.mold Height	mm	680											
最小模厚	Min.mold Height	mm	230											
顶针行程	Ejector Stroke	mm	150											
顶针力	Ejector Force	kN	50											
其他	OTHERS													
电机功率	Motor Power	kw	68			85			115			123		
电热功率	Heater Power	kW	10.2	11	12	13.5	15	16.6	15		16.5	16.7	18	
液压电机功率	Hydraulic Motor Power	kW	15											
系统压力	Hydraulic System Pressure	Mpa	17.5											
油箱容量	Oil Tank Capacity	L	80											
机器重量	Machine Weight	Ton	11.8			12			12.2			12.5		
外形尺寸	Machine Dimension	m	6.5*1.85*2.4			6.75*1.85*2.4			6.9*1.85*2.4			7.1*1.9*2.4		

			DKM-300FE											
			E800-30			E1000-30			E1350-30			E1735-30		
注塑装置	INJECTIONUNIT		A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw Diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70
螺杆行程	Screw Stroke	mm	220	220	220	235	235	235	265	265	265	290	290	290
螺杆长径比L/D	Screw L/D Ratio		22.3	20	20	22	20	20	22	20	20	21.7	20	20
注射压力	Injection Pressure	Mpa	231	187	155	216	180	151	214	180	153	211.2	180	155
理论注射容积	Max.Shot Volume	cm3	350	432	523	461	558	664	630	749	879	820	962	1116
理论射胶量(PS)	Max. Shot Weight(Ps)	g	315	389	470	415	502	598	567	674	791	738	866	1004
射胶速率	Injection Rate	cm³ /sec	477	589	713	589	713	848	713	848	995	707	830	962
射胶速度	Injection Speed	mm/s	300	300	300	300	300	300	300	300	300	250	250	250
螺杆转速	Max.Screw Speed	rpm	300	300	300	300	300	300	300	300	300	250	250	250
合模装置	CLAMPINGUNIT													
锁模力	Clamping Force	kN	3000											
开模行程	Opening Stroke	mm	610											
四柱内距	Space Between Bars	mm	730*730											
最大模厚	Max.mold Height	mm	730											
最小模厚	Min.mold Height	mm	280											
顶针行程	Ejector Stroke	mm	150											
顶针力	Ejector Force	kN	30											
其他	OTHERS													
电机功率	Motor Power	kw	85			115			123			126		
电热功率	Heater Power	kW	13.5	15	16.6	15		16.5	16.7	18		23.5		
液压电机功率	Hydraulic Motor Power	kW	15											
系统压力	Hydraulic System Pressure	Mpa	17.5											
油箱容量	Oil Tank Capacity	L	100											
机器重量	Machine Weight	Ton	14			14.2			15			15.5		
外形尺寸	Machine Dimension	m	7.3*2.2*2.5			7.4*2.2*2.5			7.5*2.2*2.5			7.6*2.2*2.5		

全电动注塑机参数表

FULL ELECTRIC INJECTION MOLDING MACHINE SPECIFICATION

			DKM-380FE											
			E100030			E1350-30			E1735-25			E2200-25		
注塑装置	INJECTIONUNIT		A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw Diameter	mm	50	55	60	55	60	65	60	65	70	65	70	75
螺杆行程	Screw Stroke	mm	235	235	235	265	265	265	290	290	290	315	315	315
螺杆长径比L/D	Screw L/D Ratio		22	20	20	22	20	20	21.7	20	20	21.6	20	20
注射压力	Injection Pressure	Mpa	216	180	151	214	180	153	211.2	180	155	209	180	157
理论注射容积	Max.Shot Volume	cm3	461	558	664	630	749	879	820	962	1116	1045	1212	1392
理论射胶量(PS)	Max. Shot Weight(Ps)	g	415	502	598	567	674	791	738	866	1004	941	1091	1252
射胶速率	Injection Rate	cm³ /sec	589	713	848	713	848	995	707	830	962	830	962	1104
射胶速度	Injection Speed	mm/s	300	300	300	300	300	300	250	250	250	250	250	250
螺杆转速	Max.Screw Speed	rpm	300	300	300	300	300	300	250	250	250	200	200	200
合模装置	CLAMPINGUNIT													
锁模力	Clamping Force	kN	3800											
开模行程	Opening Stroke	mm	720											
四柱内距	Space Between Bars	mm	830*830											
最大模厚	Max.mold Height	mm	750											
最小模厚	Min.mold Height	mm	300											
顶针行程	Ejector Stroke	mm	160											
顶针力	Ejector Force	kN	60											
其他	OTHERS													
电机功率	Motor Power	kw	115			123			126			135		
电热功率	Heater Power	kW	15	16.5		16.7	18		23.5			30		
液压电机功率	Hydraulic Motor Power	kW	15											
系统压力	Hydraulic System Pressure	Mpa	17.5											
油箱容量	Oil Tank Capacity	L	80											
机器重量	Machine Weight	Ton	17			17.2			17.4			18.6		
外形尺寸	Machine Dimension	m	7.8*2.2*2.5			7.9*2.2*2.5			8*2.2*2.5			7.9*2.2*2.5		

			DKM-460FE											
			E1350-30			E1735-25			E2200-25			E2700-25		
注塑装置	INJECTIONUNIT		A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw Diameter	mm	55	60	65	60	65	70	65	70	75	70	75	80
螺杆行程	Screw Stroke	mm	265	2365	265	290	290	290	315	315	315	340	340	340
螺杆长径比L/D	Screw L/D Ratio		22	20	20	21.7	20	20	21.6	20	20	22.14	20	20
注射压力	Injection Pressure	Mpa	214	180	153	211.2	180	155	209	180	157	207	180	158
理论注射容积	Max.Shot Volume	cm3	630	749	879	820	962	1116	1045	1212	1392	1308	1502	1709
理论射胶量(PS)	Max. Shot Weight(Ps)	g	567	674	791	738	866	1004	941	1091	1252	1178	1352	1538
射胶速率	Injection Rate	cm³ /sec	713	848	995	707	830	962	830	962	1104	770	884	1005
射胶速度	Injection Speed	mm/s	300	300	300	250	250	250	250	250	250	200	200	200
螺杆转速	Max.Screw Speed	rpm	300	300	300	250	250	250	200	200	200	160	160	160
合模装置	CLAMPINGUNIT													
锁模力	Clamping Force	kN	4600											
开模行程	Opening Stroke	mm	820											
四柱内距	Space Between Bars	mm	930*930											
最大模厚	Max.mold Height	mm	800											
最小模厚	Min.mold Height	mm	320											
顶针行程	Ejector Stroke	mm	180											
顶针力	Ejector Force	kN	100											
其他	OTHERS													
电机功率	Motor Power	kw	123			126			135			150		
电热功率	Heater Power	kW	16.7	18		23.5			30			36		
液压电机功率	Hydraulic Motor Power	kW	15											
系统压力	Hydraulic System Pressure	Mpa	17.5											
油箱容量	Oil Tank Capacity	L	100											
机器重量	Machine Weight	Ton	22			22.5			22.8			23.5		
外形尺寸	Machine Dimension	m	8.1*2.4*2.6			8.3*2.4*2.6			8.4*2.4*2.6			8.5*2.4*2.6		

洁净医疗产线(培养皿)生产实测

Production Test Report: Clean Medical Production Line (Petri Dish)

DKM-180FE

模具类型 Mold Type

培养皿4+4模具 4+4 Cavity Petri Dish Mold

成型周期 Cycle Time

4.9s

终端产品表面高透光无凹痕，误差控制在±0.1mm以内，符合国际标准，满足医疗行业对洁净度和精密性的严格要求，进一步为智能化、自动化生产线提升培养皿产品质量。

The final product features a high-transparency, dent-free surface, with dimensional errors controlled within ±0.1 mm, fully compliant with international standards. This meets the medical industry's stringent requirements for cleanliness and precision, significantly enhancing the quality of petri dishes in intelligent, automated production lines.

实测数据对比 Test Data Comparison

指标 PARAMETER	原液压设备 ORIGINAL HYDRAULIC EQUIPMENT	DKM-180FE	提升幅度 IMPROVEMENT
成型周期 Cycle Time	6.2s	4.9s	21%
尺寸误差 Dimensional Error	±0.28mm	±0.09mm	精度提升3倍 3x Precision Gain
透光率一致性 Light Transmittance Consistency	89.7%	99.3%	通过ASTM D1003标准 ASTM D1003 Certified
单日模具清洁耗时 Daily Mold Cleaning Time	2.1小时	0.4小时	效率提升81% 81% Efficiency Boost

结论

Conclusion



全电动注塑机在节能、效率、精度、清洁生产、维护成本和环保等方面具有明显优势，为客户提供精密、稳定、智慧的高效生产解决方案，是现代制造业向智能化、绿色化转型的理想选择。全电注塑机易于实现自动化和智能化，与现代工业4.0的发展趋势相契合，有利于实现无人化黑灯工厂，提高生产效率和灵活性。随着技术的进步和成本的降低，全电动注塑机的市场应用前景广阔。

Full Electric injection molding machines have significant advantages in energy efficiency, performance, precision, clean production, maintenance cost and environmental sustainability. They provide customers with precise, stable and intelligent solutions for efficient production, making them an ideal choice for the transition of modern manufacturing towards smart and eco-friendly practices. The all-electric injection molding machines are easy to realize automation and intelligence, which is in line with the development trend of modern industry 4.0. This facilitates the implementation of unmanned operations, enhancing production efficiency and flexibility. With technological advancements and decreasing costs, the market potential for all-electric injection molding machines is extensive.

洁净EH注塑机130T-450T

随着DKM德库玛塑机在软硬件研究的不断深入，为了迎合注塑成型行业某些高精度射出的要求，同时又能够降低用户的投入，EH系列电液混合注塑机经过长达2年的稳定性测试，现已进入量产。DKM发明的高驱力伺服动力系统与智能化控制系统结合，实现注射系统闭环控制，使重复定位精度达到小于0.01mm,这一出色特点，使EH系列注塑机可广泛应用于医疗器件，精密IT零件等具有高精度要求的精密器件成型上。

精密 +

伺服全电射出，高精密丝杆运动控制，使射出位移精密无比，高速射出使成型产品应力均衡不变形，是精密医疗器件射出的不二之选。

洁净 +

EH系列射出单元，没有液压系统不存在漏油滴油现象，锁模单元铰链润滑用采用特殊自润滑材质，局部用固体润滑油脂，无油无尘，不污染净化车间。

高效 +

分布式动力源，可实现多个动作同时工作，大大缩短产品成型周期，从而提升生产效率。

节能 +

配套伺服系统的优异性能及效率使注塑机的每一动作都更加节能，相较液压伺服节能型注塑机及采用伺服阀的电液混合机再节能20-30%

- 分布式动力源，每一个动力源(含液压伺服)都精确匹配动力;
- 由伺服系统直接驱动射胶及融胶，避免了油泵及液压系统带来的能源损耗;
- 分布式动力结构可以减少液压油路的管路长度及油路的泄漏。

Clean EH Injection Molding Machine 130T-450T

In order to meet the requirements of high-precision injection molding and reduce the user's investment,DKMEH series electro-hydraulic hybrid injection molding machine has the most economical solution for precisionand high speed injection molding.The high servo drive power system invented by DKM is combined with theintelligent control system to realize the closed-loop control of the injection system and make the repeatedpositioning accuracy<0.01mm.This excellent feature enables EH series being widely used in the compo-nents molding with high precision requirements such as medical devic-es and precision IT parts.

Precise +

Full electric injection unit with servo motor system,precise screw motion control leads to the precise injec-tion displace-ment.High injection speed makes the balanced products stress without deformation.It's theperfect choice of medical device injection molding.

Clean +

There is no hydraulic system in EH series injection unit,clamping unit hinge lubrication with special self-lu-bricating design,guaranteed there will be no pollution in purification workshop.

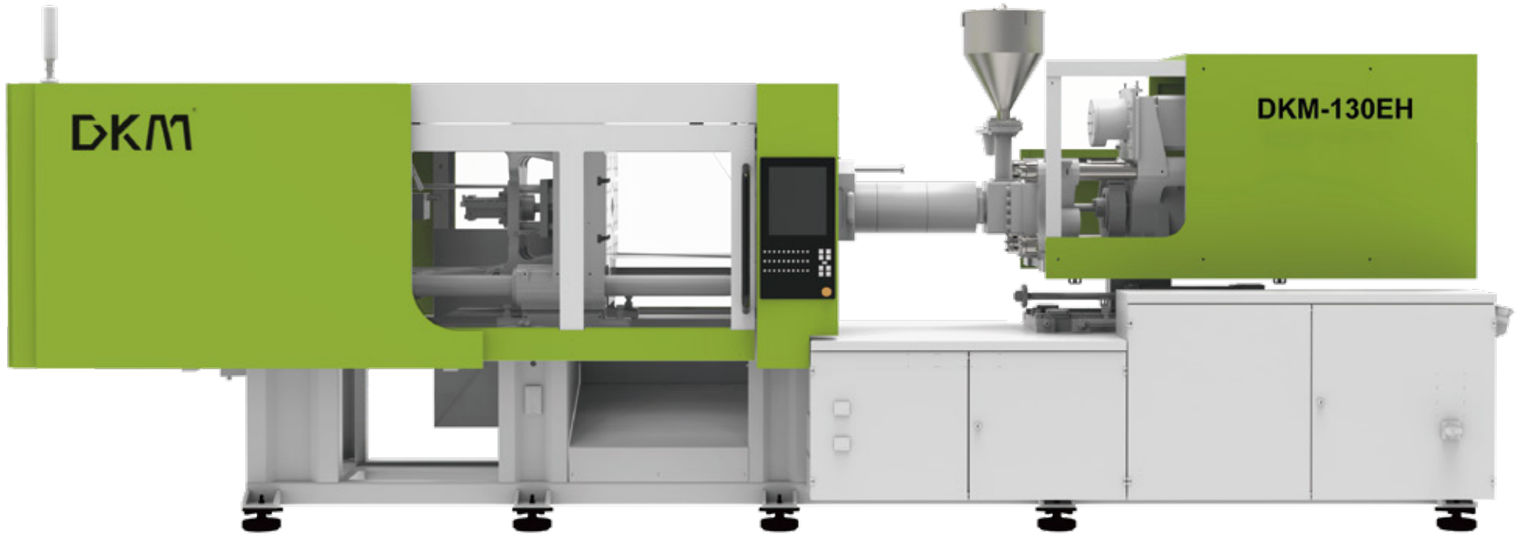
Efficient +

Distributed power source,EH can realize parallel actions at the same time,greatly shorten the productioncycle time,thus improving production efficiency.

Energy saving +

The excellent performance and efficiency of the supporting servo system make every action being ener-gy-saving.-Compared with the hydraulic servo machine,the electro-hydraulic mixer using enable 20-30%energy saving by equipped with servo valve;

- Distributed power source,each power source (including hydraulic servo)is precisely matched power;
- Driven directly by the servo system for injection and melting, it avoids the energy loss caused by the oil pump and hydraulic system.
- Distributed dynamic structure can reduce the length of the hydraulic pipeline and the leakage of the oil pipeline.



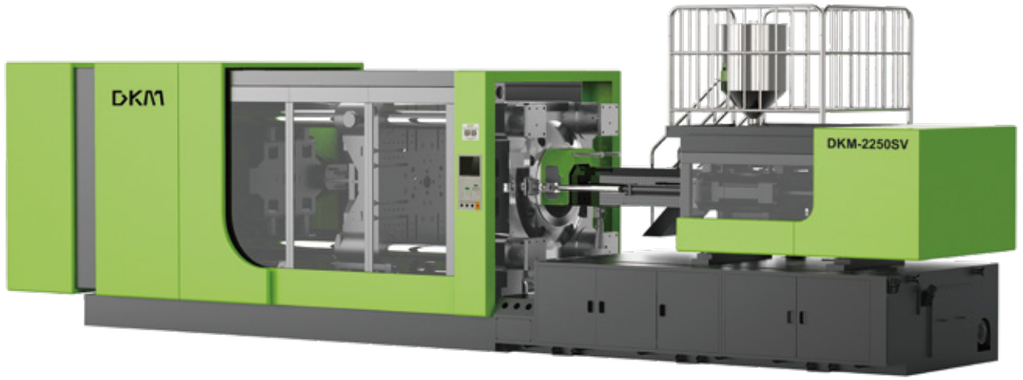
洁净EH注塑机参数表
EH INJECTION MOLDING MACHINE SPECIFICATION

			DKM-130EH			DKM-180EH		
			A	B	C	A	B	C
注塑装置	INJECTIONUNIT							
螺杆直径	Screw Diameter	mm	25	28	32	28	32	36
螺杆长径比	Screw L/D Ratio	L/D	26.8	24	21	27.4	24	21.3
理论射出容量	Theoretical Shot Volume	cm^3	69	86	113	111	145	183
注射重量(PS)	Injection Weight(PS)	gram	62	78	101	100	130	165
注射压力	Injection Pressure	Mpa	350	280	214	327	250	198
射出速度	Injection Speed	mm/s	500			500		
螺杆转速	Screw Speed	rpm	0-200			0-200		
合模装置	CLAMPINGUNIT							
合模力	Clamp Force	kN	1300			1800		
移模行程	Togde Stroke	mm	390			440		
拉杆内距	Distance Between Tiebars	mm	417*417			470*470		
最大模厚	Max.Mold Height	mm	460			550		
最小模厚	Min.Mold Height	mm	160			180		
最小模具尺寸	Min.Mould Size	mm	295*295			330*330		
顶出行程	Ejector Stroke	mm	120			135		
顶出力	Ejector Force	kN	53			53		
顶针数量	Ejector Numbers	unit	5			5		
其他	OTHERS							
最大油泵压力	Max.Pump Pressure	Mpa	16			16		
电机功率	Pump Motor Power	kW	13.4			16.4		
电热功率	Heater Power	kW	8.9			11.4		
外形尺寸(L/W/H)	Machine Dimension(L/W/H)	mm	5.7*1.45*2.2			6.1*1.5*2.2		
机械重量	Machine Weight	tons	4.5			5.36		
油箱容积	Oil Tank Capacity	liter	140			230		

DKM-250EH			DKM-350EH			DKM-450EH		
A	B	C	A	B	C	A	B	C
36	40	45	36	40	45	40	45	50
26.6	24	21.3	26.6	24	21.3	27	24	21.6
213	264	333	219	270	342	270	342	422
192	237	300	197	243	308	243	308	380
283	230	182	309	250	198	291	230	186
500			500			300		
0-200			0-200			0-200		
2500			3500			4500		
535			640			700		
570*570			680*680			760*760		
600			680			760		
200			220			250		
400*400			460*460			530*530		
155			165			195		
70			79			138		
5			13			13		
16			16			16		
20.5			30.2			2×20.5		
13.7			22			27.2		
6.3*1.6*2.3			6.9*1.7*2.35			7.8*1.9*2.5		
8.3			13.3			17		
260			400			500		

德库玛伺服节能注塑机

Servo Energy Saving Injection Molding Machine



DKM-90SV——DKM-4000SV

通用型伺服注塑机适用于各类塑料产品，如塑料日用品、周转箱、桌椅、托盘、工业垃圾桶以及汽车零件的生产。并且可以根据客户的产品需求，特别定制专用机器，为客户创造更大的价值。

DKM-90SV-DKM-4000SV SERVO ENERGY SAVING MACHINE

Suitable for industrial containers and pallets, chairs and tables, home appliances, automotive parts etc. DKiM can offer customized machine according to customer's special requirements.





高节能，更环保，驱动绿色未来
Environmental Protection - High Energy Saving

该系列机型采用高性能的伺服动力控制系统，驱动油泵作为整机的动力源，具有高响应，节能，低噪音，高控制精度等特点，突破性地实现了电动伺服与液压驱动技术的完美结合。

DKM use high-performance servo dynamic control system, as the power source the oil pump, have the characteristics high speed response, energy saving, low noise, high-control precision, and a breakthrough in the perfect connection of the electrical servo and hydraulic drive system.

超效节能 High energy saving

在同等工作状态下，相较传统液压注塑机能实现20%-40%的节能率

Under normal operating condiions,compared with conventional hydraulic iniection molding machines,20-40% energy can be reduced.

超灵敏响应性Quick response

灵敏伺服驱动系统响应迅速，快速启动时间仅需0.05S

Featuring a dynamic servo motor with a response time of only 0.05sec.

超佳成型稳定性 Molding stability

伺服驱动系统，闭环控制，相较传统液压注塑机，成型重复精度大幅提高

Compared with conventional iniection molding machines,repeat-ability is greatly improved due to servo motor closed-loop control.

超性能环保 Quiet operation

整机运行低噪音，低速运行更宁静

The machine runs at a much lower noise level, particularly in low speed applications.

超可靠保压性能 Reliable holding pressure

相较传统液压注塑机，保压时间调整范围更宽泛，保压性能更稳定

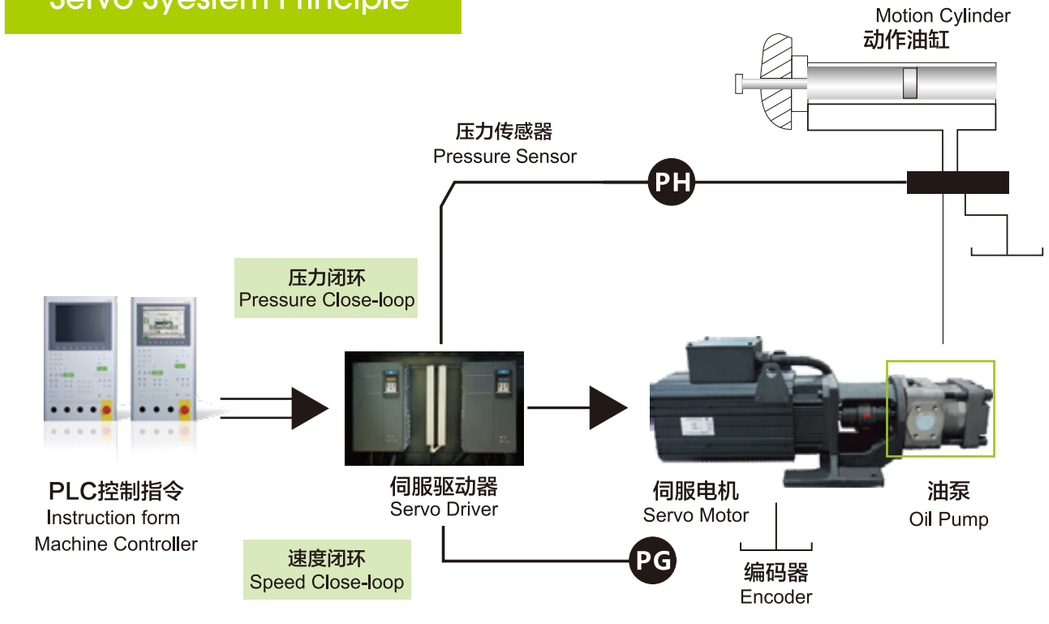
compared with traditional hvdraulic machine the holding pressure is more stable and the dwel ime has been much extended.

超恒定油温 Better oil temperature stability

伺服电机比例输出液压油，避免多余热量产生，升温慢，液压油甚至不需冷却，实现大幅节水

The servo svstem onlv delivers hvdraulic oil as it is needed for various functions.which orevents unnecessary generation of heat and substantially reduces oil cooling requirements.

伺服系统工作原理
Servo Syestem Principle



伺服系统
Servo System

- 高效的节能效果降低注塑机运转成本。
- 不仅有高节能性，更能实现高精度的速度和压力控制；
- 高效率，抑制油温上升，实现油箱的小型化，延长液压油和液压元件的使用寿命。

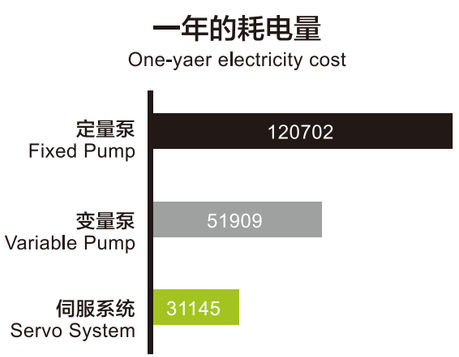


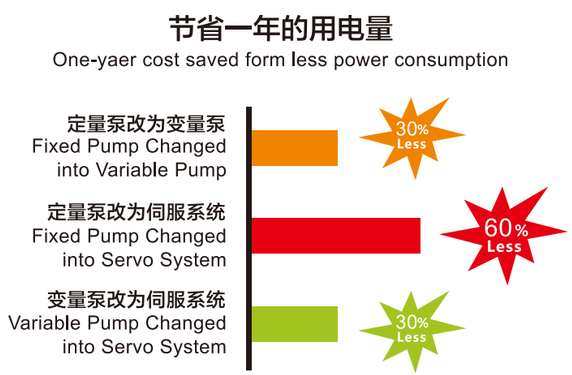
- High performance energy saving to reduce cost.
- Not only save energy, but also realize the precise speed and pressure control.
- High efficiency, lower oil temperature,making oil tank much smaller and the service life of hydraulic oil and elements much longer.

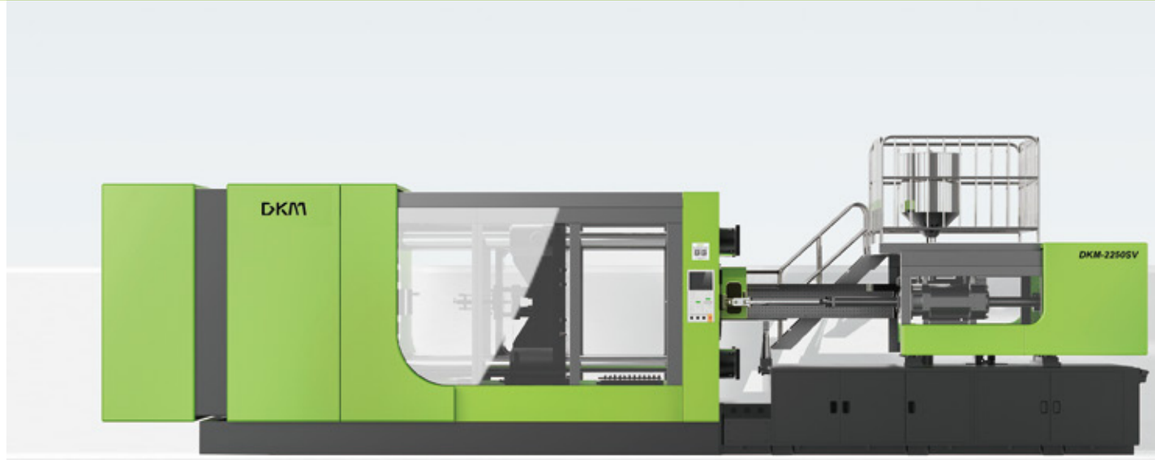
伺服电液系统与传统流量、压力系统的能耗比较
Energy Consumption Compare between Electro Hydraulic Servo System and Traditional Flow and Pressure System

下图为您展示在相同功率运行环境下，DKM同股注塑机采用伺服系统后耗电量与节省用电量的对比示意图:

There are comparison diagrams of power consumption and energy saving between fixed pump, variable pump and servo system, based on the same power.







高效 High efficiency

德库玛伺服电液系统采用转动惯量较小的细长型电机设计，配合以最先进的高速DSP运算器件实现磁场定向失量控制策略。系统具备极快的响应速度，部分伺服电机最高转速达到2500转分，并且从零转速到最高转速的时间仅36毫秒。注塑机的动作如开合模、射台移动、顶针进退等得以明显加快，缩短了产品的成型周期，提高了生产效率。

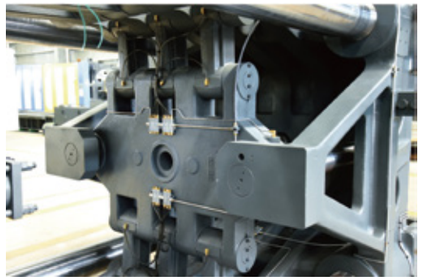
DKM servo electro-hydraulic system adopts the desian of motor with less space and small rotation inertia, combined with the most advanced high-speed DSP operation device, to realize the vector control strategy of magnetic field orientation.

精密 Precision

采用精度达4096脉冲/转的高精度旋转变压器作为电机转速(流量)反部件和高度压力传感器作为压力反馈部件，并对压力、流量进行双闭环控制，运用高速DSP实现各种控制算法，平均压力误差可达到0.5bar,转速控制的误差为0.1%，滞环为零。因此，制品重量重复精度高，满足了生产高精度产品的需要。

We take the high-precision rotary transformer which reaches 4096 pulse/rev the feedback element of motor rotate speed (flowf) and take the inaccuracy of rotate speed control within 0.1%, and the hysteresis hoop is zero. Hence, the repeat accuracy of product weight is very high that meets customer's need to pursue high precision in production

锁模单元
Clamping Unit

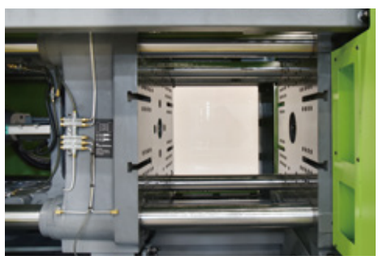


- 高精度高强度锁模板
- T型槽标配
- 精准锁模力设定
- 油润滑钢套
- 多段开模程序控制
- 加强的机较结构设计
- 高平行度模板稳定维护拉杆寿命
- 低压模保
- 保压泄压功能
- 机械安全与液压安全双安全装置
- 650T以上合开模顶出同步
- 机械手安装螺纹孔预设

- High-precision & high-strength platens
- T-slot on platen
- Accurate clamping force setting
- Oil lubrication steel sleeve
- Multi-stage mould opening control
- Reinforced hinge structure design
- Excellent platen parallelism prolongs tie bar life
- Low-pressure mould protection
- Pressure holding and relief function
- Mechanical and hydraulic double safety system
- Parallel movement of mould opening and ejection (machine above 650T)
- Robot installation hole

- 液压中子2组以上(多组可选配)
- 吹气装置2组(多组可选配)
- 玻璃管流景计(选)
- 快速插头分水器
- 欧规机械手安装装置
- 动模板移动高硬度钢带
- 高刚性5铰链锁模机构
- 自动调模功能
- 开关模、脱模电子尺控制
- 检知式自动集中润滑系统
- 合模区移动安全顶盖板

- 2 sets core pulling as standard (optional: more sets)
- 2 sets air blowing as standard (optional: more sets)
- High precision glass water distributor (optional)
- Standard water distributor with fast water nozzle connection
- Euromap socket for Robot
- High hardness sliding guide for moving platen
- High rigidity 5 hinge clamping mechanism
- Automatic mold thickness adjustment
- Precision mould opening/closing and ejection thanks to electronic ruler
- Automatic centralized lubrication system
- Top cover for clamping unit





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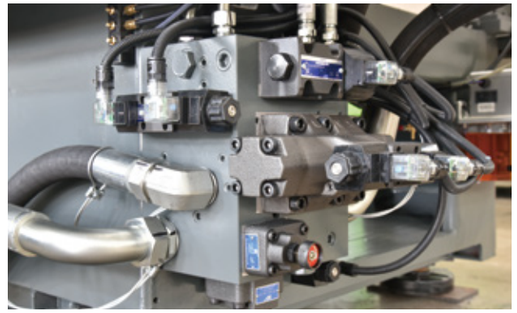
液压单元
Cydraulic Unit

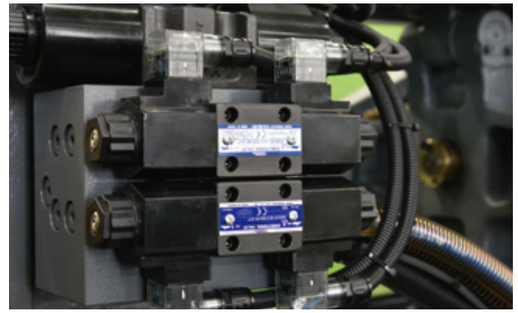
- 伺服油泵
- 加大油泵电机功率
- 多组顺序注射功能(选)
- 低噪音高效能油路系统

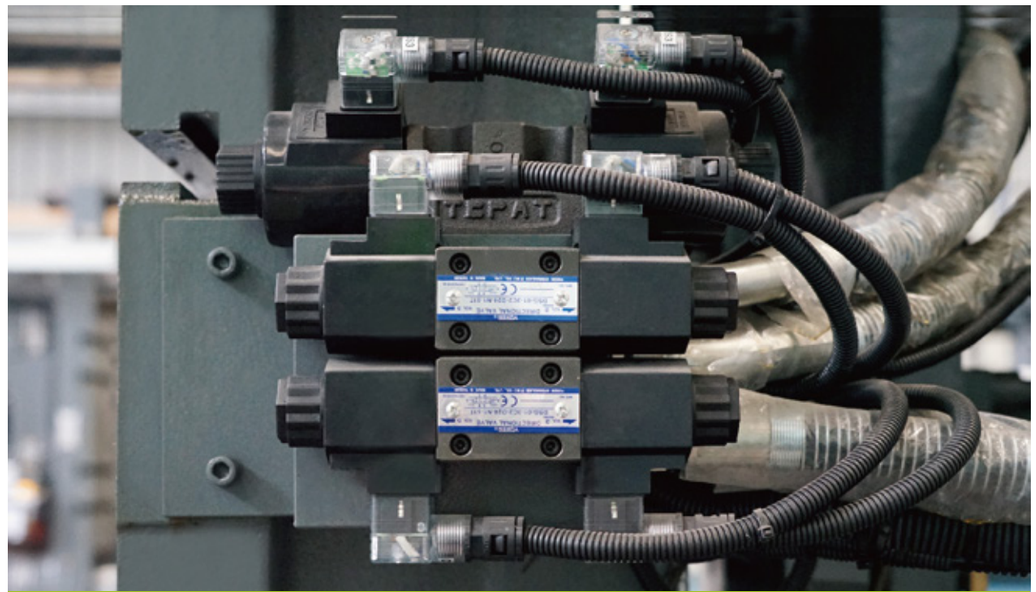
- 液压油位报警
- 冷水阀(选)
- 无焊接刚性一体油管油路
- 高压油管锁链保护

- Servo motor system
- Enlarged servo motor power
- Multi sequential injection function
- Low-noise and high-efficiency hydraulic system

- Hydraulic oil level alarm
- Cold water valve (optional)
- Rigid hydraulic piping system without welding
- High-pressure pipe chain protection







控制单元
Controller Unit



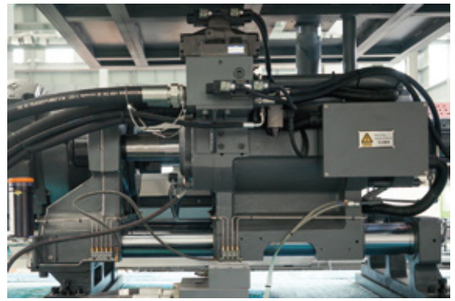
- KEBA 电脑系统彩色显示屏(触摸式可选)
- 模具成型工艺数据库 300项以上
- 10国语吉切换
- I/O检测显示
- 成型数据记录及可视化图标分析
- 设备保养提醒检测
- 模内检测功能(可选装置)
- 高稳定国际名牌电器零件
- 各动作工况实时监视功能
- 生产资料检测功能

- 故障报警显示功能
- 注射压力转保压功能
- 三色报警灯
- 电机过载保护
- 前、后门紧急停止按钮
- 变频节能
- 欧规12机械手接口
- 欧规67机械手接口(选)
- 加热固态继电器控制
- 计算机网络集中控制系统

- KEBA colorful screen (touch screen optional)
- Mold setting database 300 sets record
- 10 language available
- I/O data detecting
- Molding record data and visual report
- Equipment maintenance reminder
- In-mold monitor (optional)
- International famous brand electrical components
- Real-time monitoring for molding process
- Production data detection

- Fault alarm
- Injection pressure/ holding pressure convert
- Three color alarming
- Motor overload protection
- Front and back door emergency stop buttons
- Frequency conversion for energy saving (servo motor)
- Euromap 12 robot interface
- Euromap 67 robot interface (optional)
- Heating SSR control
- Computer network centralized control system

注塑单元
Injection Unit



- 加长喷嘴
- 耐磨螺杆组件
- 螺杆位置精准设定
- 螺杆转速显示
- 双金属螺杆料筒(选)
- 红外加热圈(选)
- 料筒隔热防护
- 注射喷嘴安全罩

- Elongated nozzle
- Wear-resistant screw unit
- Screw position accurate setting
- Screw speed display
- Bimetallic screw barrel (optional)
- Infrared heater (optional)
- Heat insulation protection for barrel
- Injection nozzle safety cover

- 自封式喷嘴(选)
- 螺杆冷启动自制功能
- 喷嘴中心简易调节
- 座台电子尺控制
- 油马达预塑

- 上料平台
- 座台自动集中润滑装置
- 料筒温度闭环控制
- 各段智能独立控温
- 标准型料斗、不锈钢料斗(选)

- Self shut-off nozzle (optional)
- Cold start screw alarm and self protection
- Easy adjustment of the nozzle center
- Injection unit position controlled by electronic ruler
- Oil motor for plasticizing

- Equipped with material feeding platform
- Automatic centralized lubrication system for injection unit
- Closed-loop temperature control for barrel
- Separate control for each heating section
- Standard hopper/stainless steel hopper (optional)

其他 Others

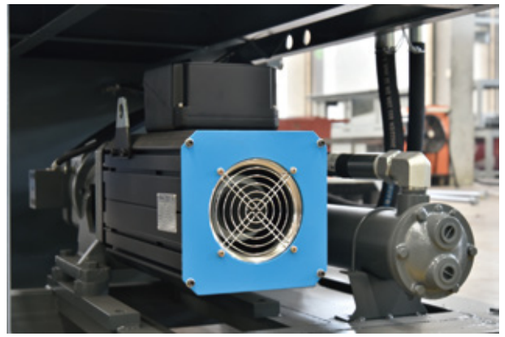
- 德库玛品牌专利外观
- 欧标CE安全防护结构
- CE标准机(选)
- 可调防震垫脚

- CE standard safety cover design
- CE standard machine (optional)
- Adjustable machine shake proof foot pad

- 常用工具箱
- 预留USB电插座
- 550以下产品下料斜板
- 加高机架(选)

- Tool box
- USB and Aviation plug
- Sloping panel for product dropping area (machine below 550T)
- Heightened machine base (optional)





DKM伺服机技术参数表

DKM Servo Energy Saving Injection Machine Specification

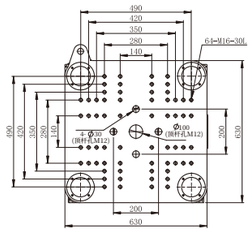
			DKM-90SV			DKM-130SV			DKM-180SV			DKM-250SV			DKM-350SV			DKM-450SV				DKM-550SV				DKM-650SV			
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D
注塑装置	INJECTION UNIT																												
螺杆直径	Screw Diameter	mm	32	36	40	38	42	45	40	45	50	45	50	55	60	65	70	70	75	80	85	75	80	85	90	85	90	95	100
螺杆长径比	Screw L/D Ratio	(L/D)	22.5	20	18	22	20	18.5	23.2	20.6	18.5	24	21.6	19.4	23	21	20	24	22	20	18	23.7	22	20.7	19.5	22.7	21.5	19.3	18.4
理论注射容积	Shot Volume	cm^3	133	168	207	195	235	270	312	395	488	421	520	629	989	1160	1345	1500	1722	1960	2212	1926	2191	2473	2773	2439	2734	3046	3376
理论注射重量(ps)	Injection Weight	g	121	154	190	177	216	248	284	358	444	379	468	566	890	1044	1211	1350	1550	1764	1991	1733	1972	2226	2496	2195	2461	2742	3038
注射压力	Injection Pressure	Mpa	232	183	149	200	163	142	214	169	137	219	178	147	204	174	150	204	177	156	138	204	180	159	142	210	188	168	152
塑化率(ps)	Plasticizing Rate	(g/s)	11.7	14.2	16.9	14.1	19.4	26.4	16.7	22.8	29.6	20	24	29.6	22.6	33.7	38.2	44.9	51.4	58.7	65.4	51.4	58.7	65.4	71.8	65.4	71.8	78.2	86.5
螺杆转速	Screw Speed	rpm	0-200			0-200			0-200			0-200			0-200			0-150				0-200				0-200			
合模装置	CLAMPING UNIT																												
合模力	Clamping Tonnage	kN	900			1300			1800			2500			3500			4500				5500				6500			
移模行程	Toggle Stroke	mm	320			390			440			535			640			700				850				900			
拉杆内距	Tie Bar Distance	mm	360×360			417×417			470×470			570×570			680*680			760×760				830×830				900×900			
最大模厚	Max.Mold Height	mm	390			460			550			600			680			760				850				1000			
最小模厚	Min.Mold Height	mm	150			160			180			200			220			250				290				300			
最小模具尺寸	Min.Mould Size	mm	230×200			295×295			330×330			400×400			460×460			530×530				580×580				630×630			
顶出行程	Ejector Stroke	mm	95			120			135			155			165			195				240				240			
顶出力	Ejector Force	kN	53			46			53			70			79			138				150				210			
顶出杆数	Ejector Number	n	5			5			5			5			13			13				17				21			
其他	OTHERS																												
最大油泵压力	Max.Pump Pressure	Mpa	16			16			16			16			16			16				16				16			
电机功率	Pump Motor Power	kW	13.4			13.4			16.4			20.5			30.2			2×20.5				2×26.7				2×20.5+26.7			
电热功率	Heater Power	kW	5.99			8.9			11.4			13.7			22			27.2				33.9				44.9			
外形尺寸	Machine Dimension	m	4.38×1.3×1.89			4.7×1.3×1.9			5.1×1.5×1.95			5.8×1.6×2.3			6.9×1.7×2.35			7.8×1.9×2.5				8.6×2×2.5				10.2×2.3×3.15			
机器重量	Machine Weight	t	3.9			4.5			5.36			8.3			13.3			17				20				30			
油箱容积	Oil Tank Capacity	L	140			190			230			260			400			500				750				1000			

			DKM-850SV				DKM-1150SV				DKM-1350SV				DKM-1650SV				DKM-2250SV			DKM-2800SV			DKM-3350SV
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	A	B	C	A
注塑装置	INJECTION UNIT																								
螺杆直径	Screw Diameter	mm	90	95	100	110	100	110	120	130	110	120	130	140	120	130	140	150	140	150	165	170	185	200	225
螺杆长径比	Screw L/D Ratio	(L/D)	24.8	23.6	22.4	20.4	26	24	22	20	26	24	22	20	26	24	22.3	20.8	23.6	22	20	25.8	23.7	22	20
理论注射容积	Shot Volume	cm^3	2980	3325	3685	4460	4710	5699	6782	7960	6275	7470	8765	10170	7924	9299	10785	12380	12693	14571	16579	22687	26867	31400	47688
理论注射重量(ps)	Injection Weight	g	2682	2993	3317	4014	4239	5129	6104	7164	5648	6723	7889	9153	7132	8369	9707	11142	11424	13114	14921	20418	24180	28260	42919
注射压力	Injection Pressure	Mpa	207	185	167	137	206	170	143	122	201	169	144	124	193	164	142	123	199	173	142	188	159	136	132
塑化率(ps)	Plasticizing Rate	(g/s)	71.8	78.2	86.5	104	86.5	104	122	139	104	122	139	151	122	139	151	165	151	165	181.4	188	201	230	263
螺杆转速	Screw Speed	rpm	0-130				0-120				0-120				0-110				0-80			0-60			0-55
合模装置	CLAMPING UNIT																								
合模力	Clamping Tonnage	kN	8500				11500				13500				16500				22500			28000			33500
移模行程	Toggle Stroke	mm	1040				1280				1410				1520				1700			1940			2160
拉杆内距	Tie Bar Distance	mm	1040*1040				1200*1200				1370*1320				1570*1510				1800*1600			1865*1715			2160*1900
最大模厚	Max.Mold Height	mm	1040				1250				1400				1500				1800			1900			2000
最小模厚	Min.Mold Height	mm	420				500				500				700				900			900			1000
最小模具尺寸	Min.Mould Size	mm	720*720				840*840				960*920				1100*1050				1260*1120			1300*1200			1510*1330
顶出行程	Ejector Stroke	mm	300				350				350				350				420			450			550
顶出力	Ejector Force	kN	210				246				246				318				400			430			618
顶出杆数	Ejector Number	n	21				21				25				29				29			29			29
其他	OTHERS																								
最大油泵压力	Max.Pump Pressure	Mpa	16				16				16				16				16			16			16
电机功率	Pump Motor Power	kW	2×26.7+20.5				3×30.2+26.7				4×30.2+26.7				4×30.2+26.7				5×40.9			8×30.2			336
电热功率	Heater Power	kW	55.4				76.1				82.2				102.9				125			170			190
外形尺寸	Machine Dimension	m	10.8*2.4*3.25				12.8*2.63*3.2				13.5*2.8*3.25				14.9*3.22*3.38				16.9*3.72*3.82			19.8*3.8*4			21.8*4.9*4.2
机器重量	Machine Weight	t	35.5				54				62				100				141			185			250
油箱容积	Oil Tank Capacity	L	1000				1300				1500				1500				2500			2500			3000

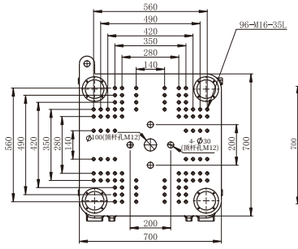
德库玛提供高品质的上料机、干燥机、冷水机、粉碎机、混色机、机械手等全自动生产线设备和配件

Dakumar offers customers high quality automatic devices and auxiliary equipment,including auto loader, hopper dryer, water chiller, crusher, color doser, robot etc.

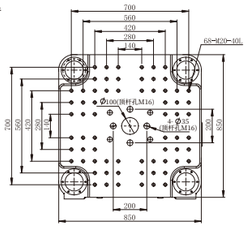
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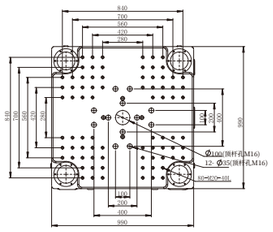
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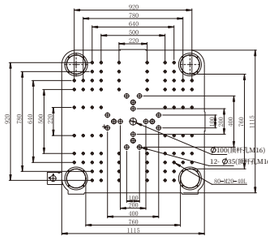
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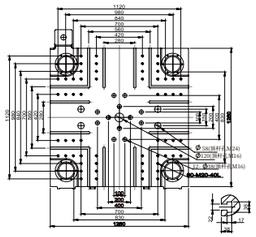
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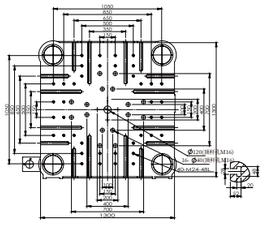
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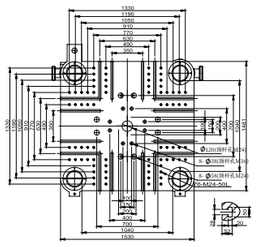
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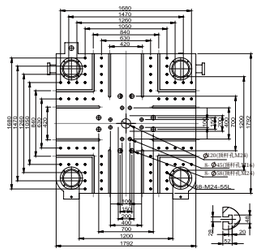
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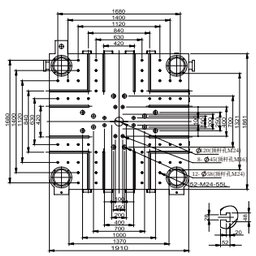
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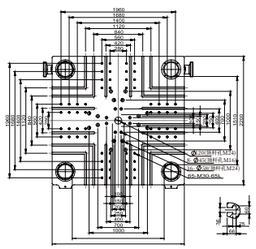
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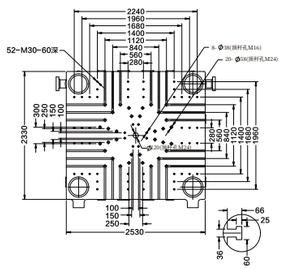
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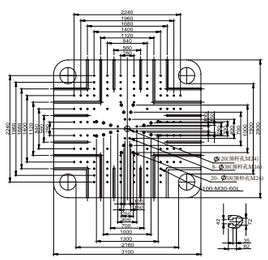
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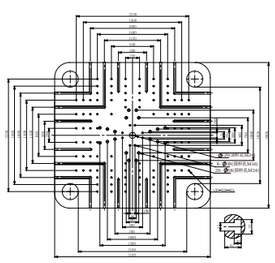
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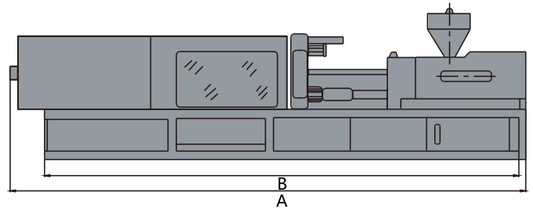
DKM2800



DKM3350



整机外廓尺寸
MACHINE DIMENSION



Model	A	a	B	b	C	c	D	d	e	f	g
DKM130	4700	343	4430	162-460	1313	Φ3.5	1900	125	SR10	270	30
DKM180	5380	435	4055	180-550	1563	Φ3.5	1950	125	SR10	285	30
DKM250	5760	535	4700	200-600	1563	Φ3.5	2300	160	SR10	340	40
DKM350	6900	640	5820	220-680	1746	Φ4.5	2200	160	SR15	390	40
DKM450	7800	700	1350	250-760	1900	Φ4.5	2480	200	SR15	445	50
DKM550	8585	850	7315	290-850	2011	Φ4.5	2475	200	SR15	490	50
DKM650	10205	900	8505	300-1000	2230	Φ6	3147	200	SR15	495	50
DKM850	10766	1040	9430	420-1040	2350	Φ6	3220	250	SR15	535	50
DKM1150	12800	1280	11360	500-1250	2628	Φ6	3103	250	SR20	680	50
DKM1350	13518	1410	11966	500-1400	2708	Φ6	3200	250	SR20	680	50
DKM1650	14915	1520	13000	700-1500	3218	Φ6	3500	315	SR20	740	50
DKM2250	18935	1700	16905	900-1800	3716	Φ8	3818	315	SR20	930	50
DKM2800	19760	1940	17608	900-1900	3784	Φ10	4036	350	SR20	1000	100
DKM4000	19500	2260	18500	1100-2110	4200	Φ10	5250	350	SR25	1100	100

德库玛二板式注塑机600T-6000T

德库玛二板机系列由我司欧洲技术总工程师组织研发，为迎合大型塑件生产的市场需求，简约的机器设计不仅具有超大的容模量和取件空间，而且相对同等吨位的三板机而言具有独特的占地空间少，机械手取件空间大的优势，尤其适合生产大规格尺寸的塑料制品，如垃圾桶、家用电器、汽车零部件、物流箱和大型托盘。

European Technology



高稳定性

- 借助有限元分析，突破传统的技术工艺瓶颈，大幅提高机器零件的强度和刚性
- 高精度的H型夹板
- 移动固定板双滑动结构，使大型模具的平行度均匀
- 通过机器底部移动板导轨，滑动以消除倾斜扭矩，提高模具承载能力

高可靠性

- 拉杆固定在定模板上的结构便于安装大型模具，提高装卸效率和工作质量。拉杆螺母及锁模活塞的悬置结构，在抱闸部分充分保护拉杆，提高机器寿命。

高灵活性

- 倒置式顶出装置，顶出行程可根据产品的需求自由设定

高精度

- 采用全封闭液压系统，能量泄露更少，保压性能更好
- 各结构件使用锁紧螺母进行连接，保证机械结构可靠性
- 4组液压油缸集成式中心锁模，确保锁模精准、平稳、可靠
- 安装锁模压力传感器，可轻松、直观、快速调整机器锁模力大小

高容模量

- 开模行程、模具厚度等各项参数较传统注塑机大50%以上，机器使用和选择更自由

高节能性

- 伺服控制系统，降低能源消耗，且机身占地面积较传统注塑机减少30%

高安全

- 严格按照欧洲CE标准执行 保证操作安全

DKM TWO PLATEN INJECTION MOLDING MACHINE 600-6000T

DKM TP series two platen injection machine is developed by our technical team from Europe. The machine is designed for large size parts like industrial dustbins, auto parts, logistic container and large pallets. Two platen machine has the advantage of bigger mould opening stroke capacity and space for robot, 30% less floor space. DKM Two platen machines were designed with higher molding speed and more precision injection.

HIGH STABILITY

- Enhanced strength and rigidity of mechanical parts, with the help of finite element analysis.
- H type clamping plate for high precision.
- Double sliding structure for moving and fixed plate to make the parallelism even for large size mould.
- Moving plate guide by machine bottom and slide to eliminate any titling torque and increase mould bearing capacity.

HIGH RELIABILITY

- Tie bars are fixed to the stationary plate for convenient installation for large size mold.
- Tie bar nut and clamping piston are suspension structure to fully protect tie bar in band-type brake unit, this greatly increase machine life with high reliability and good performance.

HIGH FLEXIBILITY

- Inversion type ejection system, the ejection stroke could be set up as per particular production requirement.

HIGH PRECISION

- A fully enclosed hydraulic system is adopted, which results in less energy leakage and better pressure-holding performance.
- Structural components are connected using locking nuts, ensuring the reliability of the mechanical structure.
- Four sets of integrated central locking hydraulic cylinders are used for precise, stable, and reliable mold clamping.
- Mold clamping pressure sensors are installed, allowing for easy, intuitive, and quick adjustment of the machine's clamping force.

HIGH MOULD THICKNESS CAPACITY

- More than 50% opening stroke, mould thickness capacity etc.
- The operation, installation and production are full of humanization.

HIGH ENERGY SAVING

- World Famous brand servo system for low energy consumption.
- Machine size is 30% smaller than three plate machine.

HIGH SAFETY

- European brand servo system for low energy consumption
- European CE standard for safe operation

二板式注塑机参数表
PLATEN INJECTION MOLDING MACHINE SPECIFICATION

			DKM-600TP				DKM-800TP				DKM-1000TP		
			A	B	C	D	A	B	C	D	A	B	C
注塑装置	INJECTIONUNIT												
螺杆直径	Screw Diameter	mm	85	90	95	100	90	95	100	110	100	120	135
理论射胶容积	Theoretical Shot Volume	cm^3	2439	2734	3046	3376	2980	3325	3685	4460	5102	7350	9300
注射重量(PS)	Injection Weight(Ps)	g	2195	2461	2742	3038	2682	2993	3317	4014	4591	6615	8370
螺杆长径比	Screw L/D Ratio	L/D	22.7	21.5	19.3	18.4	24.8	23.6	22.4	20.4	25.3	21.1	18.7
注射压力	Injection Pressure	Mpa	232	207	186	168	207	185	167	137	270	188	148
射胶行程	Shot Stroke	mm	430				468				650		
螺杆转速	Screw Speed	rpm	130				130				125		
合模装置	CLAMPINGUNIT												
合模力	Clamp Force	Ton	600				800				1000		
模板最大间距	Max.Daylight	mm	1750				1850				2420		
开模行程	Opening Stroke	mm	1350-800				1400-900				1920-1180		
四柱内距	Space Between Bars	mm	1040×910				1180×1100				1300×1100		
容模量	Modulus	mm	400-950				450-950				1240-500		
最大模具重量	Max.Mold Weight	Ton	9				11				13		
顶针力	Ejector Force	Ton	15				26				26		
顶针行程	Ejector Stroke	mm	250				300				300		
顶出孔数	Ejector Number	unit	210				21				25		
墙板尺寸	Plate Dimension	mm	1400×1350				1540×1515				1845×1645		
其他	OTHERS												
电机功率	Motor Power	kW	2×20.5+26.7				3×26.7				3×56		
最大油泵压力	Hydraulic System Pressure	Mpa	22				22				23		
加热区	Heating Zone Number	unit	7				7				7		
电热功率	Heater Power	kW	44.9				55.4				55		
净重	Machine Weight	Ton	28				32				54		
注油量	Oil Tank Capacity	L	1150				1150				900		
外形尺寸	Machine Dimension(LxWxH)	mm	9300×2750×3300				8700×3000×3000				10800×3100×2800		

DKM-1200TP				DKM-1350TP				DKM-1600TP			
A	B	C	D	A	B	C	D	A	B	C	D
100	110	120	130	110	120	130	140	120	130	140	150
4710	5699	6782	7960	6275	7470	8765	10170	7924	9299	10785	12380
4239	5129	6104	7164	5648	6723	7889	9153	7131.6	8369.1	9707	11142
26	24	22	20	26	24	22	20	26	24	22.3	20.8
206	170	143	122	201	169	144	124	193	164	142	123
600				661				700			
120				120				110			
1200				1350				1600			
2650				2850				3250			
1400-2050				1500-2200				2550-1700			
1310×1160				1410×1260				1580×1480			
600-1250				650-1350				700-1550			
20				23				30			
21.5				25				44.7			
350				350				400			
21				29				33			
1950×1850				2150×2050				2200×2100			
102.6				105.3				5×40.9			
22				22				22			
5+1				5+1				7			
58				74				102.9			
60				70				88			
1400				1700				1700			
12500×2800×3100				13000×3200×3200				12800×3800×4100			

二板式注塑机参数表
PLATEN INJECTION MOLDING MACHINE SPECIFICATION

			DKM-1800TP				DKM-2000TP			DKM-2350TP		
			A	B	C	D	A	B	C	A	B	C
注塑装置	INJECTIONUNIT											
螺杆直径	Screw Diameter	mm	120	130	140	140	140	150	165	140	150	165
理论射胶容积	Theoretical Shot Volume	cm^3	7924	9299	10785	10170	12700	14579	17632	12700	14579	17632
注射重量(PS)	Injection Weight(Ps)	g	7131.6	8369.1	9707	9153	11429	13121	15868	11429	13121	15868
螺杆长径比	Screw L/D Ratio	L/D	26	24	22.3	20	23.6	22	20	23.6	22	20
注射压力	Injection Pressure	Mpa	193	164	142	124	197	172	142	197	172	142
射胶行程	Shot Stroke	mm	700				825			825		
螺杆转速	Screw Speed	rpm	110				80			80		
合模装置	CLAMPINGUNIT											
合模力	Clamp Force	Ton	1800				2200			2350		
模板最大间距	Max.Daylight	mm	3300				3800			3700		
开模行程	Opening Stroke	mm	1700-2550				3000-2000			1900-2900		
四柱内距	Space Between Bars	mm	1660×1560				2020×1620			1900×1700		
容模量	Modulus	mm	750-1600				800-1800			800-1800		
最大模具重量	Max.Mold Weight	Ton	40				50			60		
顶针力	Ejector Force	Ton	36				44.7			36.6		
顶针行程	Ejector Stroke	mm	400				500			400		
顶出孔数	Ejector Number	unit	33				30			21		
墙板尺寸	Plate Dimension	mm	2320×2220				2640×2400			2720×2520		
其他	OTHERS											
电机功率	Motor Power	kW	143.5				5×48.82			169.8		
最大油泵压力	Hydraulic System Pressure	Mpa	22				22			22		
加热区	Heating Zone Number	unit	5+1				8			5+1		
电热功率	Heater Power	kW	92				125			122.54		
净重	Machine Weight	Ton	100				129			155		
注油量	Oil Tank Capacity	L	2000				2500			2900		
外形尺寸	Machine Dimension(LxWxH)	mm	14500×3600×3400				14500×5200×4500			16000×4000×3900		

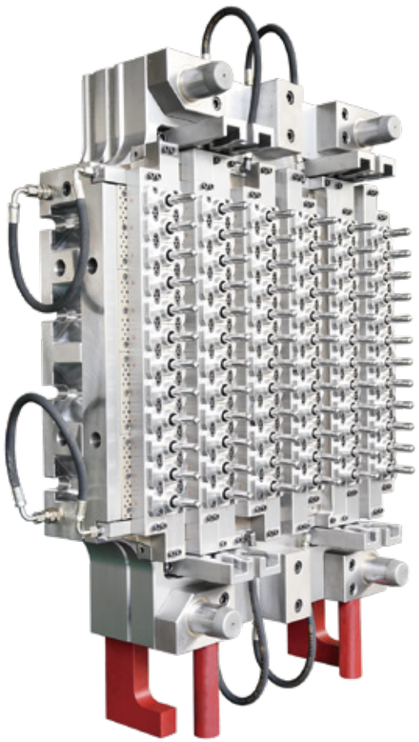
DKM-2800TP			DKM-3350TP			DKM-4000TP	
A	B	C	A	B	C	A	B
170	185	200	180	200	220	240	260
22687	26867	31400	27977	34540	41793	58781	68986
20418	24180	28260	25180	31086	37614	52903	62087
25.8	23.4	21.9	24.4	22	20	23.8	22
188	159	136	194	157	130	160	136
1150			1100			1300	
60			55			40	
2800			3300			4000	
4100			4160			4460	
3300-2100			3160-2160			3460-2360	
2185×1800			2200×1950			2450×2050	
800-2000			1000-2000			1000-2100	
66			75			85	
44.7			62			62	
500			600			600	
33			33			33	
2900×2700			3050×2800			3350×2950	
4×40.9+4×30.2			237			385	
22			19.5			19.5	
9			15			15	
170			200			240	
160			230			290	
2500			5000			6000	
15500×5650×5000			17000×4500×5500			18000×5000×6500	

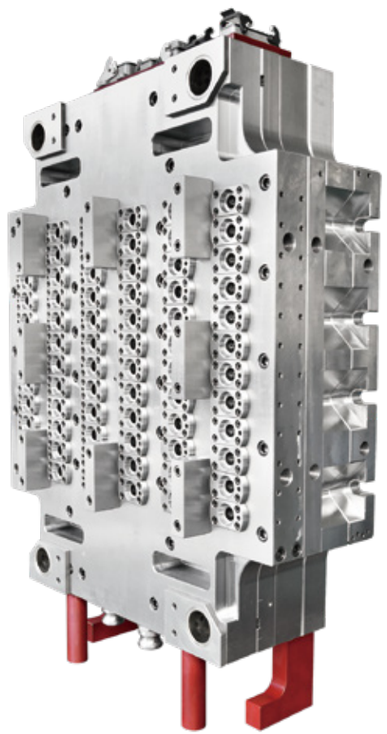
DKM德库玛PET瓶胚专用注塑机

DKM PET Preform Injection Molding Machine

DKM开发有三大系列PET瓶胚专用注塑机，分别为：DKM-PETI系列130-650吨和DKM-PETII系列250-650吨，以及系列DKM-PETIII350-650吨。三种机型可广泛适用于水瓶胚、油瓶胚、碳酸瓶胚、广口瓶胚及各款单色、多色、混色等瓶胚生产，并且满足PET产品注塑成型的高品质需求。

DKM has developed three major series of PET preform injection molding machines, namely the DKM-PETI series (130-650 tons), the DKM-PETII series (250-650 tons), and the DKM-PETIII series (350-650 tons). These three types of machines are widely applicable for the production of preforms for water bottles, oil bottles, carbonated bottles, wide-mouth bottles, and various styles of monochrome, multi-color, and mixed-color preforms. They also meet the high-quality requirements for PET product injection molding.





PET伺服注塑机

PET Injection Molding Machine

根据PET成型工艺的特性，本公司推出的PET专用机型具有标准机型的所有优点之外，另做出成熟改进，保证PET产品成型优良。

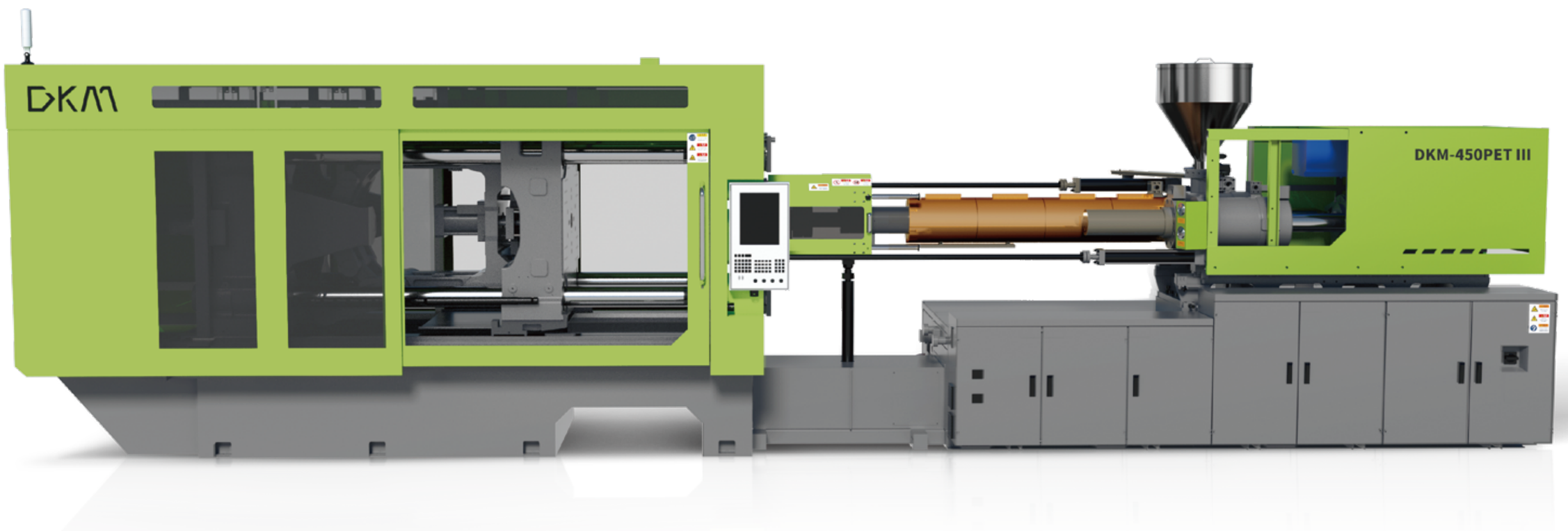
According to the characteristics of the PET molding process,the PET machine has all the advantages ofthe standard model,and mature improvements have been made to ensure the excellent molding of PETproducts.

- 另可特别定制成型加玻纤PET专用料管组，片料PET专用料管组
- 四段及以上进料筒PID温度精确控制
- PET专用料筒螺杆，大长径比，低剪切、高混炼、塑化效果好
- 弹簧喷嘴供650T以下机器选配，液压喷嘴供650T机器选配，满足客户的特殊需求，有效防止溢流
- 大直径螺杆设计，以及大长径比
- 塑化耐力优
- 加长机架，超大四柱空间、加大容模及加专顶针行程
- 为满足PET原料除湿要求标配除湿干燥机
- 变量泵和定量泵均适用
- 低压模具保护功能
- PID温度控制
- 双缸平衡注射
- 低噪音液控系统
- 独立数控背压
- 自动调模功能
- 射移线性导轨
- 全数字闭环控制，高速度，高响应
- 加大一级油泵、电机
- 加大一级储料马达
- 多组抽芯装置



- Specialized screw barrel assemblies for molding glass-fiber reinforced PET and sheet PET materials.
- Four or more segments of PID temperature control for the feed barrel, ensuring precise temperature management.
- PET-specific screw and barrel with a high length-to-diameter ratio, designed for low shear and high mixing efficiency, resulting in excellent plasticization.
- Spring-actuated nozzles available for machines up to 650T, and hydraulic nozzles for machines of 650T and above, meeting specific customer needs and effectively preventing material overflow.
- Large-diameter screw with a high length-to-diameter ratio.
- High durability
- Extended machine frame with a large four-column space, increased mold capacity, and extended ejector pin stroke.
- Standard dehumidifying dryer to meet the moisture removal requirements of PET materials.

- Compatibility with both variable and fixed displacement pumps.
- Low-pressure mold protection function to prevent mold damage.
- PID temperature control for precise thermal management.
- Dual-cylinder balanced injection for stable and uniform material flow.
- Low-noise hydraulic control system.
- Independent numerical control of backpressure.
- Automatic mold adjustment function for quick and accurate mold setup.
- Linear guides for precise and smooth injection movement.
- Full digital closed-loop control for high speed and rapid response.
- Upgraded primary oil pump and motor for enhanced performance.
- Upgraded primary feeding motor for improved material supply.
- Multiple drawbar devices for complex mold operations.



PET第三代注塑机
DKM-PET III Injection Molding Machine

PET第三代注塑机具有高熔化率、快速混合、高速注射、高精度注射等特点。
与二代机对比，DKM第三代PET瓶胚专用注塑机，其注塑重复精准度、螺杆塑化效率均在二代机的基础上大幅度提高。并搭载DKM专用低惯量技术，大幅度降低了机器在塑化、射胶过程中的能耗，在能耗领域获得塑料机械工业协会认证一级能耗标准。

DKM-PETIII injection molding machine characterized by high melting rate, rapid mixing, high-speed injection, and high-precision injection.

Compared with DKM-PETII, DKM-PETIII preform-specific injection molding machines have greatly improved injection repeatability and precision and screw plastication efficiency based on DKM-PETII. Equipped with DKM's dedicated low-inertia technology, the energy consumption of the machine during the plastication and injection process has been greatly reduced, and it has obtained the first-class energy consumption standard certification from the Plastics Machinery Industry Association in the field of energy consumption.

DKM-PET三代注塑机相较于DKM-PET二代注塑机拥有如下优势

Compared with DKM-PETII injection molding machines, the third-generation DKM-PETIII injection molding machines have the following advantages

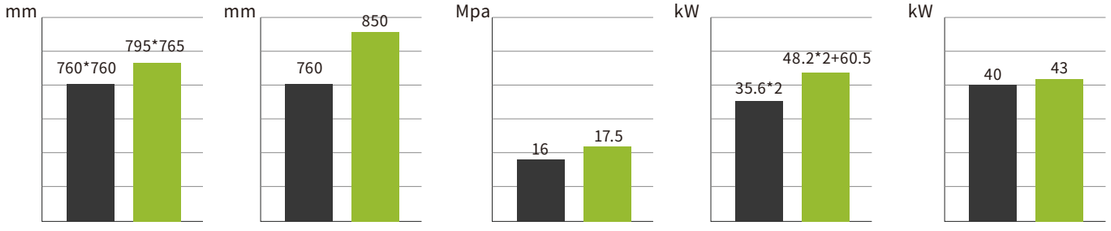
- 增加最大膜厚，有效降低了产品的变形程度，大幅度提升了产品品质
- DKM-PETIII拥有更大的动力系统，最大油泵压力、电机功率和电热功率-三大系统性提升大幅度提高了机器的
- 射胶速度、有效缩短产品成型周期并大幅度提升了产品质量
- 搭配电储料实现同步溶胶、大幅度缩短了制品的成型周期

- Increasing the maximum mold thickness effectively reduces product deformation and greatly enhances product quality.
- DKM-PETIII is equipped with a more powerful power system, with three systematic upgrades in maximum hydraulic
- pump pressure, motor power, and electric heating power, which greatly increase the machine's injection speed, effectively shorten the product forming cycle, and significantly enhance product quality.
- DKM-PETIII is equipped with electric material storage to achieve synchronous gel melting, greatly shortening the forming cycle of the product.

PET第三代注塑机参数表
DKM-PET III INJECTION MOLDING MACHINE SPECIFICATION

			DKM-350PET III	DKM-450PET III	DKM-550PET III	DKM-650PET III
			C	C	C	C
注塑装置	**INJECTIONUNIT**					
螺杆直径	Screw Diameter	mm	85	90	100	110
螺杆长径比	Screw L/D Ratio	L/D	25	25	25	25
理论射出容量	Theoretical Shot Volume	cm^3	2212	2773	3376	4460
注射重量(PS)	Injection Weight(PET)	gram	2654	3328	4051	5352
注射压力	Injection Pressure	Mpa	124	128	123	137
射出速度	Injection Speed	mm/s	200	200	200	200
射出行程	Injection Stroke	mm	390	436	430	470
螺杆转速	Screw Speed	rpm	120	105	105	100
合模装置	**CLAMPINGUNIT**					
合模力	Clamp Force	kN	3500	4500	5500	6500
移模行程	Togde Stroke	mm	640	700	850	900
拉杆内距	Distance Between Tiebars	mm	680*680	795*765	830*830	1100*1150
最大模厚	Max.Mold Height	mm	680	850	850	1200
最小模厚	Min.Mold Height	mm	220	250	290	300
最小模具尺寸	Min.Mould Size	mm	460*460	530*530	580*580	630*630
顶出行程	Ejector Stroke	mm	180	195	180	210
顶出力	Ejector Force	kN	200	280	280	280
顶针数量	Ejector Numbers	unit	9	13	13	17
其他	**OTHERS**					
最大油泵压力	Max.Pump Pressure	Mpa	17.5	17.5	17.5	17.5
电机功率	Pump Motor Power	kW	35.6+31.4+59.7	48.2*2+60.5	31.4*3+78.3	40.9*3+113.1
电热功率	Heater Power	kW	28.7	43	58.6	70
外形尺寸(L/W/H)	Machine Dimension(L/W/H)	mm	8.97*2.01*2.54	9.4*2.2*2.6	10.1*2*3.15	10.6*2.23*3.22
机械重量	Machine Weight	tons	19	20	25	33
油箱容积	Oil Tank Capacity	liter	500	750	1000	1000

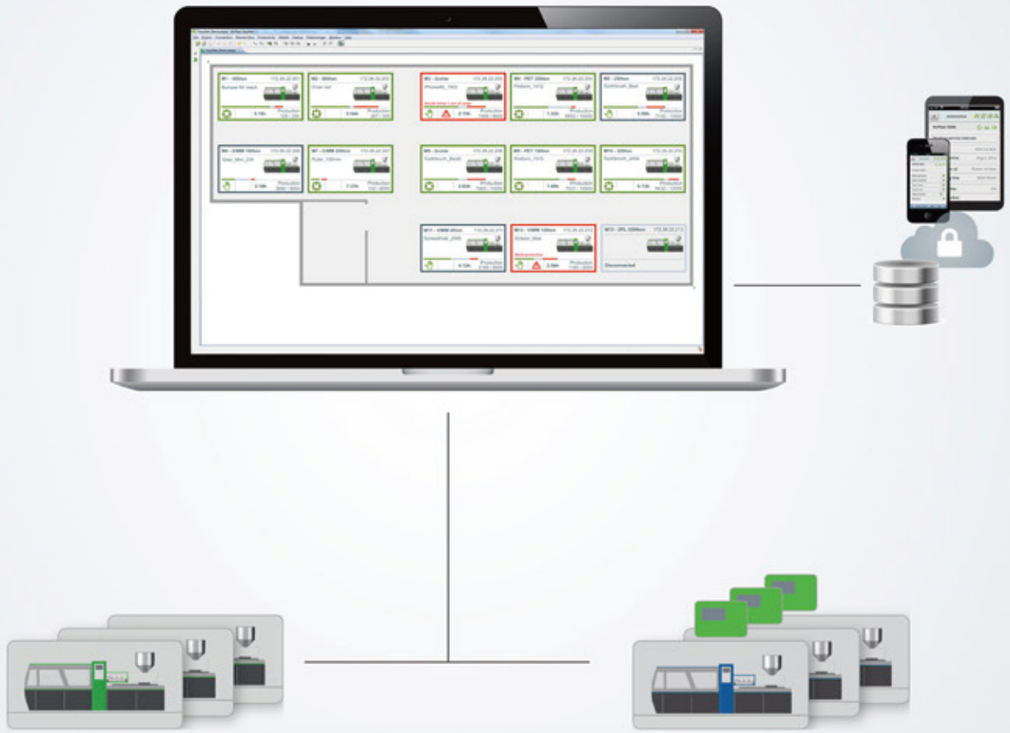
以DKM-450PETIII为例
Taking the DKM-450PETIII as an example



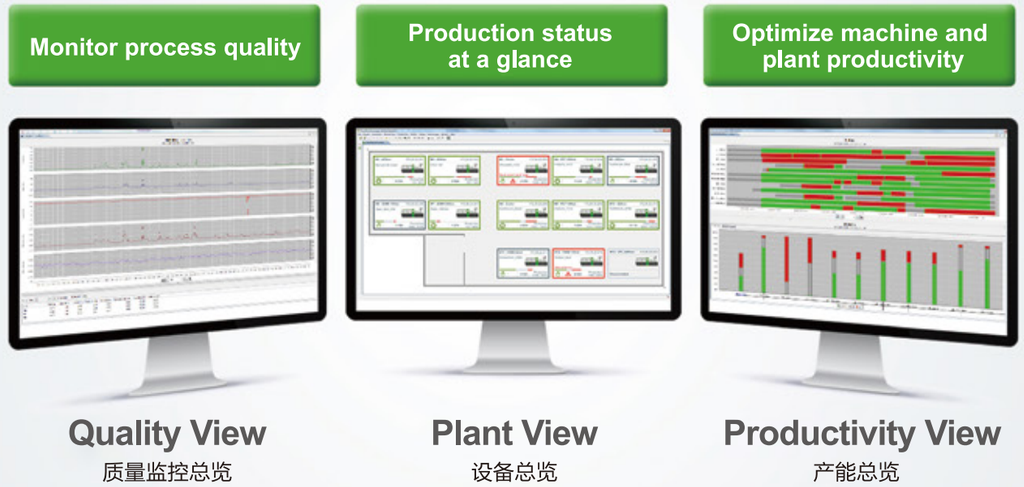
注塑机生产过程监控
KePlast EasyNet



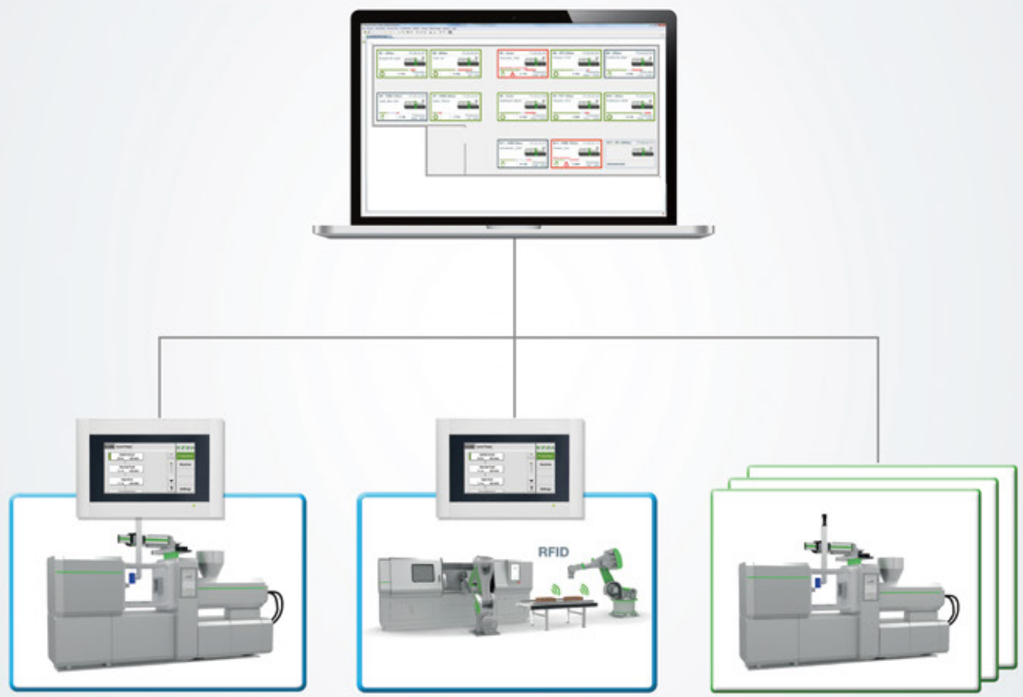
1 Monitor production with PC, Tablet and Smart Phone
个人电脑、平板电脑和智能手机监控注塑机生产过程



2 Easy Data anaylisis for quality and productivity
质量和产能的整体总览

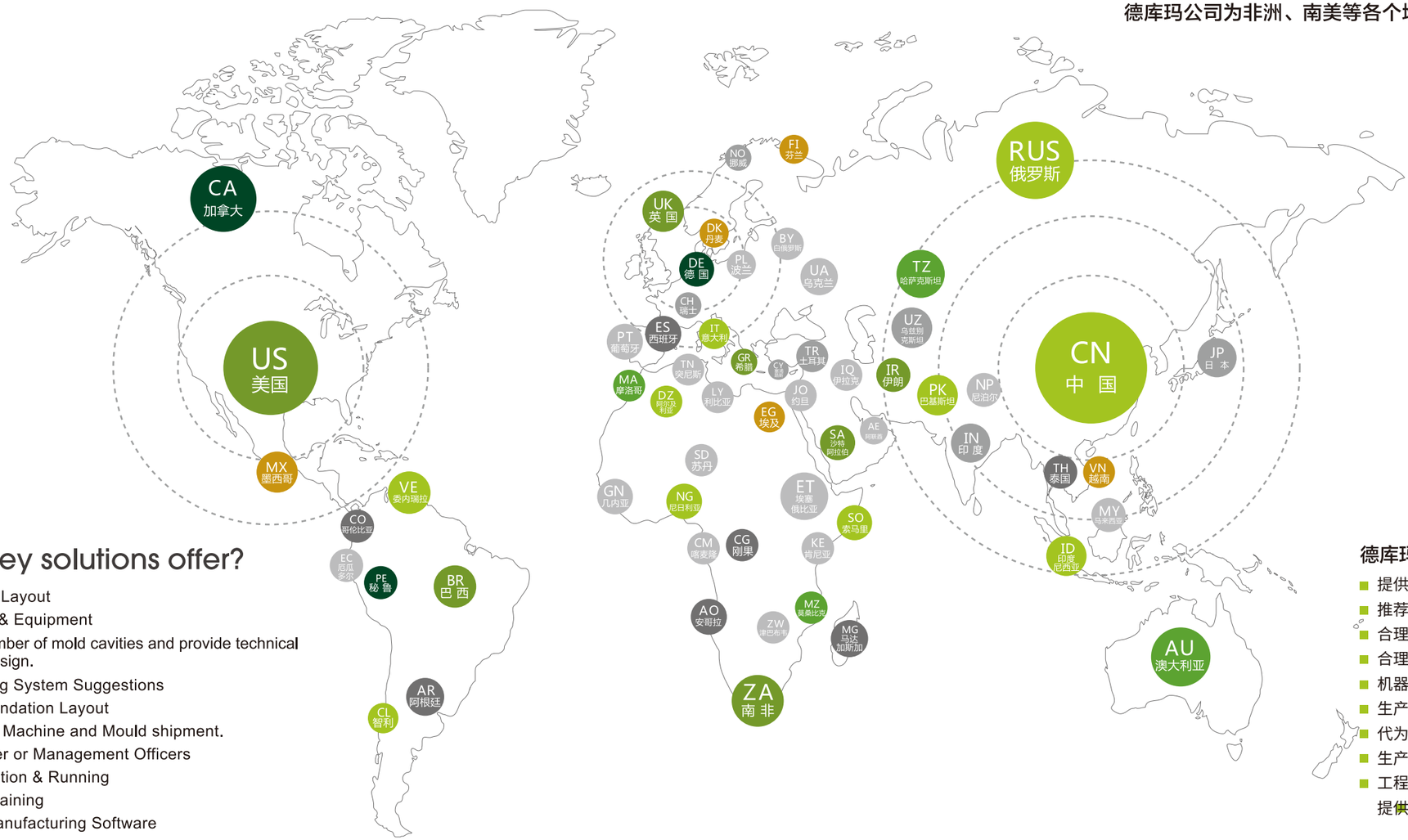


3 Easy acccess to machine data at any time by Tablet and Smart Phone
通过智能手机和平板电脑获取机器最新状态的最新数据



德库玛服务网络
DKM Service

TURNKEY SOLUTION
for African and South American,countries to start new plastic molding factories
德库玛公司为非洲、南美等各个地区的塑胶生产线提供交钥匙工程



What our turnkey solutions offer?

- Offer Workshop Detailed Layout
- Select Suitable Machine & Equipment
- Select the appropriate number of mold cavities and provide technical support related to mold design.
- Automation Manufacturing System Suggestions
- Machine Assembling Foundation Layout
- Operator Training Before Machine and Mould shipment.
- Hunting Chinese Engineer or Management Officers
- Machine & Mould Installation & Running
- Offer On Site & Online Training
- Offer TOP Automation Manufacturing Software

德库玛交钥匙解决方案能为您提供什么?

- 提供注塑车间布局设计方案
- 推荐机器和设备的最佳搭配方案
- 合理选择模具腔数，并提供模具相关技术要点支持
- 合理选配自动化生产系统
- 机器装配基础布局图
- 生产线出运前为客户员工提供操作、维护培训
- 代为招聘中国工程师或管理人员
- 生产线设备上门安装服务
- 工程师提供生产线现场和在线培训
- 提供顶级自动化制造软件实景图







