



宁波海太机械制造有限公司
NINGBO HAITAI MACHINERY MANUFACTURE CO., LTD.

宁波海太工贸有限公司
NINGBO HAITAI INDUSTRY & TRADE CO., LTD.

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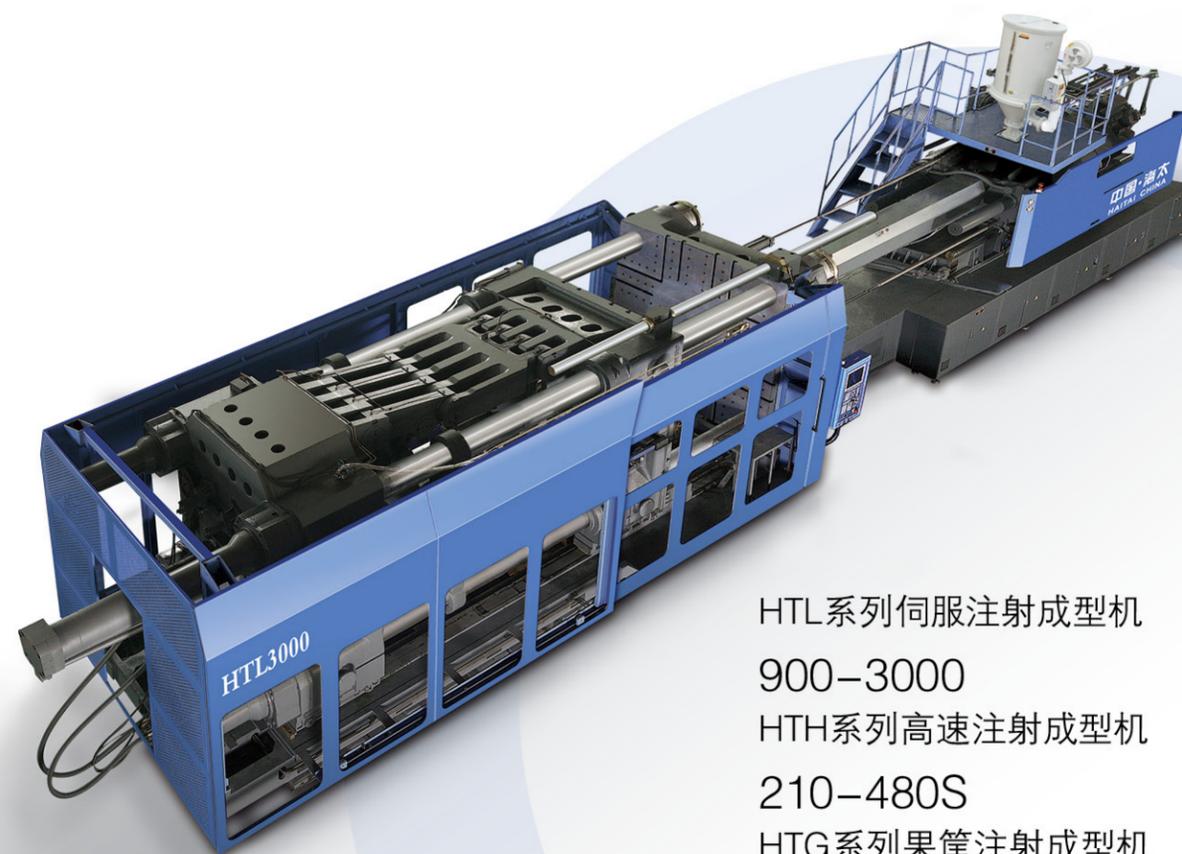
中国·海太
HAITAI CHINA

// HT
SERIES

**HAITAI HT SERIES PLASTIC
INJECTION MOLDING MACHINE**

海太HT系列塑料注射成型机

www.china-haitai.com



HTL系列伺服注射成型机
900-3000
HTH系列高速注射成型机
210-480S
HTG系列果筐注射成型机
350-550
HTD系列二板注射成型机
1000-6500

HT 90T-3000T //

// CONTENTS

海太是海，以博大纳百川

巧妙衔接而成的和谐

彰显非凡的魄力

oceansun-she is an ocean
its vast expanse is able to hold millions
of rivers in it and its strenght is
great and strong enough



HAITAI
MACHINERY

// INTRODUCTION 公司简介

Haitai will be successful in developing the world leading multi expert systems intelligent injection molding machine with its strong technology background.

03-04

// SERVICE 优质服务

Haitai servicemen are skilled, our professional staff will to achieve your praise with good services.

05-06

// PRODUCT 产品概览

Haitai HT-series injection molding machine is a strong open platform, which can meet the customer's special request.

07-20

// SPECIFICATION 技术参数

Haitai HT serie injection molding machine ranges from 68T-3000T, aiming at processing high quality plastic products.

21-28

// CONFIGURATION 标准配置

Haitai has customers from more than 30 countries and regions.

29-30



// HAITAI MACHINERY

HaiTai Enterprise Haitai was founded in 1995. It is praised as the National Important & High Technology Enterprise, excellent technology enterprise for exportation in China, one of 100 key enterprises in Ningbo. It covers total area of 150,000 square meters. The headquarter is located in NO.17 Xinling Road, Shangqiao Industry zone, Fenghua, Ningbo, Zhejiang, China.

Haitai Company owns large high-precision machining equipment and various types of CNC machining equipment as well as a full set of precision testing equipment and chemical facilities. Haitai had got the certificate of the ISO9001-2000 international quality management system and it is the first to be certified by provincial measures authorization. Haitai have achieved ERP, PDM, CAM and other enterprise information engineering.

Haitai stands stably among the top three enterprises year after year based on its comprehensive strength. in 2011, haitai had become a subsidiary of zhejiang time shine industry co.,LTD due to asset restructuring. Haitai will be base on plastics machinery industry wish brand-new image to create brighter future.

HaiTai Product Haitai established the first Engineering Research Institute in Ningbo. Haitai have (provincial) Enterprise Technology Center, polymer molding equipment National Engineering Research Center, Ningbo Sub-center, plastic molding simulation and mold technology national Key Laboratory Ningbo branch center, and Haitai postdoctoral workstation. Haitai has cooperated with more than ten large universities and colleges and undertaken a number of national-level Torch Program new technology projects and major technical research projects. Haitai had created more than 30 items of national patents.

As early as 2003, Haitai has developed China's first launch of international advanced level HTD80 all-electric high-speed precision servo type injection molding machine with the appraisal by experts. Haitai will be successful in developing the world leading multi expert systems intelligent injection molding machine with its strong technology background.

Early products have passed european ce certification; haitai products have obtained praise and good comment from domestic and foreign customers with its excellent service and quality. haitai has customers from more than 30 countries and regions.

海太机械

海太公司成立于1995年，现被誉为“国家高新技术企业”，“中国产品出口先进技术企业”、“宁波市百家重点企业”。企业总占地面积十五万平方米，总部位于宁波奉化尚桥科技工业园新岭西路17号。海太企业拥有大型精密加工设备和各类高档数控加工设备以及全套精密检测仪器与理化设施，行业中率先通过ISO9001-2000国际质量管理体系认证和首家通过省级计量认证，早期已实现了ERP、PDM、CAM等企业信息化工程。海太企业凭借综合实力连年位于国内同行前三位。2011年海太资产重组，现已隶属于浙江天星集团旗下子公司，将会以崭新的面貌立足于塑机界，创造更辉煌的明天。

海太公司创立宁波市首家企业（海太）工程研究院，设有海太（省级）企业技术中心、聚合物新型成型装备国家工程研究中心宁波分中心、塑性成型模拟及模具技术国家重点实验室宁波分中心和海太博士后工作站、已与十余家名校所建立长期科研合作，承担了多项国家火炬计划项目、国家级新产品开发项目与重大技术攻关项目，创造了30多项国家专利技术，产品研发集欧美先进技术于一体。早在2003年已研制推出属国内首台通过专家鉴定具有国际先进水平的HTD80型伺服全电动高速精密注塑机。海太以强大的技术力量与华中科技大学合作研发具有当今世界领先水平的智能化注塑机产品。

产品设计优点集欧美先进技术于一体，刚性强、性能优、响应快、高效、节能、耐用。产品早期已通过欧盟CE认证。海太产品以优异的服务和品质获得国内外顾客好评，境外顾客遍布30余个国家和地区。

haitai product "haitai machinery" is a well-known company. "haitai" trademark is a famous brand in china. we have htl series and htw series with clamping force ranges from 90T - 3000T injection molding machine, it combines advantages of advanced technology in europe and the united states and features as high rigidity, excellent performance, and fast response, energy efficient and durable.

“海太机械”获省知名商号，“海太”商标获中国驰名商标和省著名商标，推出的HTL系列和HTW系列合模力为90T-3000T注塑机，

EXCELLENCE
INNOVATION
WORLDWIDE KNOWN

铭求创新、腾飞神州、誉满全球

爱
我
海
太
敬
业
奉
献

Haitai servicemen are skilled, our professional staff will to achieve your praise with good services, will achieve your touching with dedication, will achieve your trusts on Haitai machines with excellent technology.

海太的维修人员均技术精湛，我们专业的人员会以良好的服务赢得你的赞誉，以热诚忘我的精神赢得您的感动，更会以精湛的技术赢得您对海太塑机的信任。

PRODUCTION EQUIPMENT 生产设备



HAITAI AIM SERVE 服务 //

our customer with our heart and keep our promise, excellence, seeking good quality, dedicated service, and innovation, to be the leader in the market.

诚信为本、精益求精、铭求质量、竭诚服务、自主创新、引领市场



// PRE-SALES SERVICE 售前

Apart from best quality and price advantage, Haitai has advantages on pre-sales service. Haitai uses its network for the IT supports and customers can get supports through it.

除去过硬的品质以及价格上的优势，海太更有在售前服务上的优势。海太利用自身的网络平台进行信息技术支援，用户可以通过海太信息平台得到公司信息和技术支持。



// IN-SALES SERVICE 售中

Haitai takes "Smile while Serving for Customers" as our in-sales service concept, well knowing every department of the company, making customers feel happy and confident while cooperating with Haitai, keeping the "0 error" service, and maintaining Haitai good reputation.

海太秉承“微笑第一、服务三问”的售中服务理念，深入公司部门各网点，使得用户在和海太合作的同时感受到快乐和自信，产品交易保持着“零误差”这种细致体贴的服务，使得海太在同行中保持着良好的口碑。



// AFTER-SALES SERVICE 售后

Haitai has good after-sales services centers home and abroad, serve for every customer. Haitai is responsible for every machine we sold.

海太运用自身良好而快捷的服务已覆盖全国的技术服务中心，对购买海太产品的客户进行及时有效地售后服务，海太承诺对海太产品的质量无法确认责任归属时，由海太公司承担相应责任。

HT SERIES //

plastic injection molding machine

// HAITAI HT SERIES

injection molding machine ranges from 90T-3000T, aiming at processing high quality plastic products, because of its high-performance, Haitai machine is widely used among domestic and foreign customers.

海太HT系列塑料注射成型机的规格从90T-3000T, 定位于高端塑料产品加工, 由于具有优异的性能, 广泛被国内外客商选用。

// HAITAI HT-SERIES

injection molding machines has smaller deformation of the platen, smoother movement, longer working life, lower energy consumption, easily operation, so it has been recognized by the market.

海太HT系列注塑机具有更小的模板变形系数、更好的运动平稳性、准确率、更长的使用寿命、更低的能耗、更方便的操作, 得到了市场的一致认同。

// WITH THE PURSUIT

of independent innovation constantly, Haitai now processes a total of 33 independent intellectual property rights, three of which are invention patents with high technology content. The use of advanced computer software designed to optimize the parameters of the most optimal design. And the application of automatic sampling system is used to test performance parameters of the new product.

海太注塑机不断的自主创新, 目前共有自主知识产权33项, 其中发明专利3项, 技术含量高, 采用了先进的计算机优化设计软件对各参数进行最优化设计, 并应用计算机自动采样系统对新产品的性能参数进行检测。

// HAITAI HT-SERIES

injection molding machine is a strong open platform, which can meet the customer's special request, like adding special features so as to suit all kinds of process techniques.

海太HT系列注塑机具有很强的开放平台, 可以按照客户的特殊要求添加相应的特殊功能配置, 满足客户的各种特殊加工工艺需要。

"海太"HT系列塑料注射成型机

*Super precision
super long working life*

超强精度, 超长寿命

- 优化设计的肘杆式高速锁模机构, 关节处低压应力, 确保了机器的超强精度与超长寿命

Super precision super long working life

- Optimization of high-speed toggle clamp unit and stress of low pressure for joint ensure super precision and super long life of machine.

Core / screw control

中子/绞牙控制

- 灵活的中子编程控制, 独立的液压泵站提供动力

Core / screw control

- Flexible core programming control, an independent hydraulic pump stations to provide power.

*Extra large platen design
greater space for installing platen.*

超宽模板设计, 更大容模范围

- 大容量宽模板设计最大限度的满足了客户对模具选择范围

Extra large platen design greater space for installing platen.

- Large-capacity wide platen designed to meet the customer selection scope.

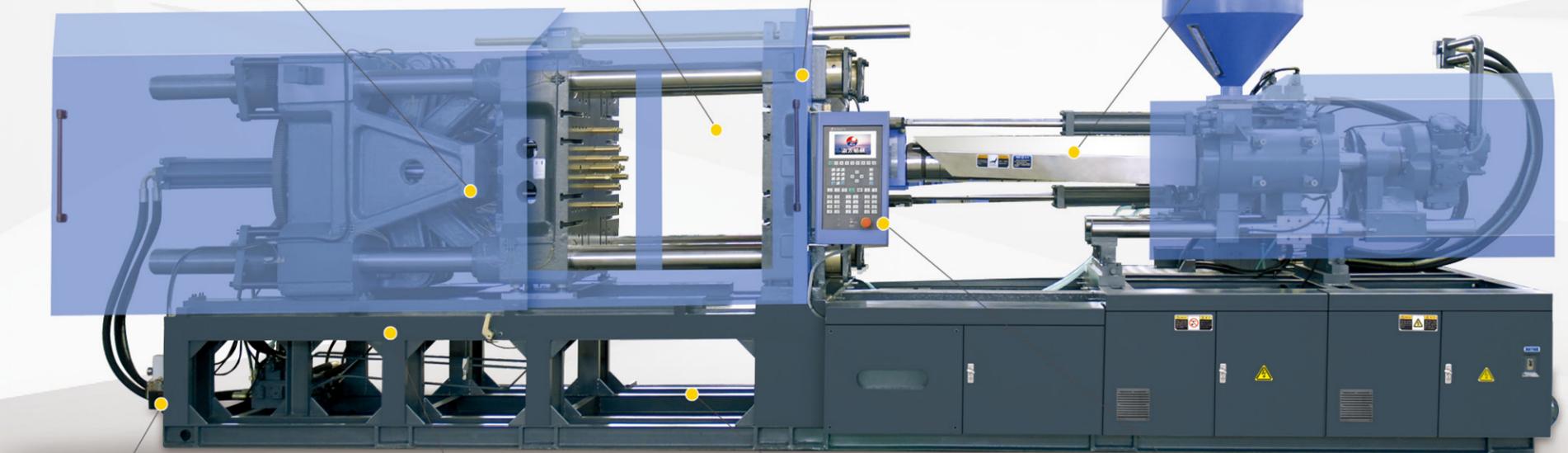
*High-precision
temperature control*

高精度温度控制

- 自动适应料筒温度精度稳定控制

High-precision temperature control

- Self-adaptive barrel temperature accuracy and stability control



Oil System

油脂系统集中润滑

- 高性能油脂集中润滑, 运动磨损急剧下降, 长期保持模具的定位精度

Oil System

- High-performance lubricating oil, decline the wear sharply, keep long-term positioning accuracy of the mold

Working Environment

工作环境清洁化

- 移动式废油清洁托盘, 使合模区废油清洁十分简便

Working Environment

- Mobile waste oil clean tray, so that the waste oil clean platen area is very simple

Easily Transfer

制品输送便利

- 多方位塑料制品取出, 有效利用设备空间, 适用于多种输送设备的安置

Easily Transfer

- Multi-directional products removed, effective use of space, is suitable for installing various convey equipment

Advanced Controller

高端控制器

- 采用高性能全电脑专用控制器, 大视窗, 彩色显示屏, 功能齐全

Advanced Controller

- High-performance computers is used for the entire controller, big display, color display, full-featured



STABILITY AND RELIABILITY OF THE ELECTRONIC CONTROL SYSTEM

// FEATURES 特点

- A variety of text can be switched.
- Manual, semi-automatic and fully automatic mode.
- To provide EUROMAP robot interface.
- Automatic movement monitoring with alarm and fault diagnosis.
- Function of slope setting can set the start and stop of movements, so as ensure the smooth movement.
- 多种文字可切换。
- 手动、半自动、全自动三种工作模式选择。
- 可提供EUROMAP机械手界面。
- 运行状态自动检视和故障报警与诊断。
- 斜率设定机能，可设定各阶段动作启动与停止缓冲曲线，使运行流畅平稳。

Intelligent control has been applied in injection machine field for the first time.

智能化控制首次在注塑机领域实际应用。

// CONTROL SYSTEM 控制系统

All-digital control system uses dedicated controller, multiple CPU processing division, a multi-functional automatic fault detection, alarm system, certificates 99 mold of processing procedures, with remote control interface. System is of high stability and responsiveness. System uses color LCD, man made interface for easy operation and with a number of peripheral interfaces.

Post-doctor research project focus on automatic determination of parameter and automatic modification.

控制系统采用全数字电脑、专用控制器，多重CPU分工处理，设有多功能故障自动检测、报警系统，可储存99付模具的加工程序，备有远程控制接口。系统具有很高的稳定性和响应速度。系统采用彩色LCD，人机界面直观易操作，并配有多个外设接口。

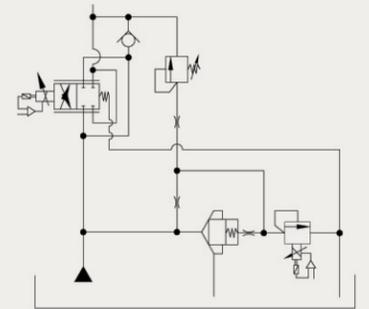
博士后科研项目，实现注射工艺参数自动确定和料频缺陷自动修正。



Stability and reliability of the electronic control system

// FEATURES 特点

- The manual plug valve hydraulic system make the machine having quick and smooth motion response
- Double proportional valve control pressure and flow
- Hydraulic oil cooling device
- High-performance imported hydraulic unit with optimizing allocation
- The fuel tank has a big opening hole so can be cleaned easily
- 采用插装阀液压系统使机器动作反应敏捷平衡
- 压力流量双比例阀控制
- 液压油冷却装置
- 高性能进口液压件优化组合配置
- 油箱开孔大，便于清洗

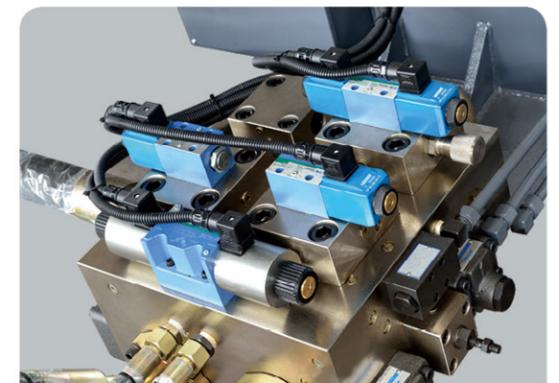


注塑机液压系统闭环反馈控制原理图
injection molding machine hydraulic system closed-loop feedback control schematics

ADVANCED HYDRAULIC SYSTEM DESIGN

through proportional control of pressure, flow achieves rapid multi-level pressure, speed switching, the system configuration is reasonable, stable and reliable. The noise is less than 75 dB. The medium and large machine adopts a two-way cartridge inserted valve system to improve the system of flow and speed of response, and makes the whole machine reach the best performance.

液压系统设计先进，通过压力、流量比例控制实现快速多级压力、速度切换、系统配置合理，先进、工作稳定可靠，噪声低于75dB，中大型机采用二通插装阀系统，提高了系统的通流量及响应速度，使得整机性能达到最佳。

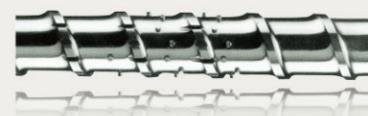


// FEATURES 特点

- APID temperature control, precise temperature control of barrel.
- There are three or four screws and barrels with optimal design, respectively, nitride, hard plating, dual-metal, which is suitable for different processes of a variety of plastics. and the choice of product.
- Two-guided guided bar supports, double-balanced rapid injection.
- The high-torque hydraulic motors offer a stable plasticizing capacity, high-precision electronic device position detection enable accurate measurement.
- Multi-injection speed and pressure and multi-level holding pressure settings, switch from the injection time, location, pressure control to ensure the quality of molding.
- Multi-level back-pressure of pre-plastic and pre-speed are computer-controlled, anti-drooling and automated auto purge.
- Expected to prevent cold-start function to ensure that the screw, Barrel will not be harmed. Stability of the injection unit.
- 以PID温度控制，可精确掌握料筒温度。
- 有三种或四种直径螺杆、料筒，经优化设计，分别有氮化、镀硬铬、双金属等不同工艺制成，适合多种塑料及制品加工时的选择。
- 双导柱支承，双平衡快速注射。
- 大扭矩液压马达预塑质量稳定，高精度电子尺位置检测，计量准确。
- 多级注射速度和压力及多级保压压力设定，可从注射时间、位置、压力三种方式控制保压切换点，保证成型质量。
- 多级预塑背压和预塑速度电脑控制，螺杆预塑防流涎和自动清料。
- 防止冷料启动功能，确保螺杆、料筒不受损害。



①
Stainless steel screw for heat-sensitive high viscosity material, like UPVC, CPVC
不锈钢螺杆适应UPVC、CPVC热敏感高粘度塑料。



②
Two-metal screw with high wear resistance, suitable for glass fiber reinforced plastics.
双金属螺杆具有高耐磨性，适合玻璃纤维增强塑料。



③
High mixing screw, suitable for the materials with high requirements of mixing and plasticizing, like PP, ABS, TPU.
高混炼螺杆，适合于对塑化和混色要求高的PP, ABS, TPU。



④
Two-thread, double-lead screw, with better plasticizing capacity and faster speed of plasticizing, which is suitable for large machine.
双螺纹，双导程螺杆，具有更优良的塑化效果和更快的塑化速度，适合于大型机



2005, diversified screw optimal design municipal science and technology research projects focus on key issues is completed, and is now designed professionally and production for a whole variety of raw material. the diversity of the screw is for your option.

2005年完成多元化螺杆优化设计科技攻关市级重点课题攻关项目，现已专业设计和生产，适合各种整体原料特性的多元化螺杆供选用。



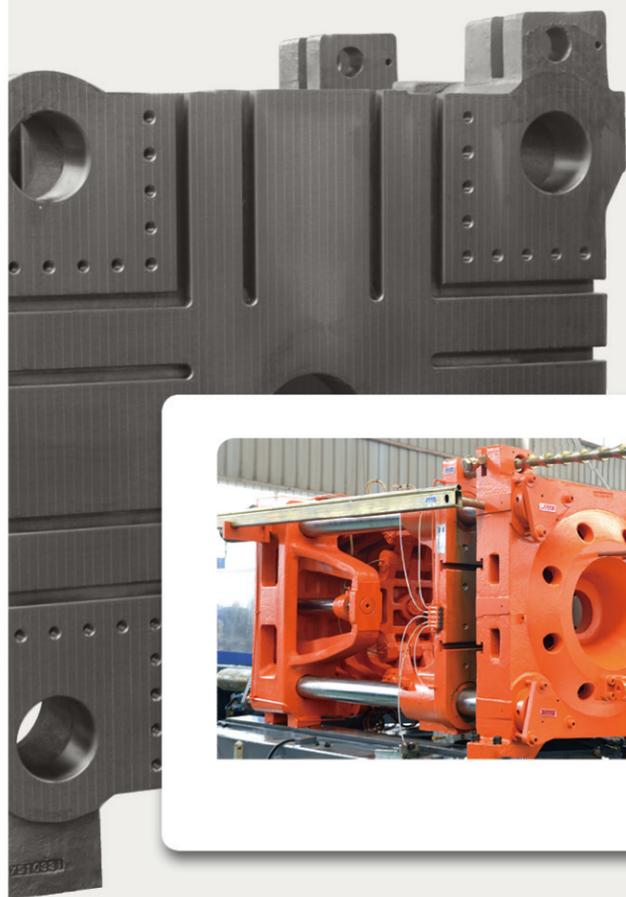
// FEATURES 特点

- Security doors fitted with hydraulic, mechanical and electrical interlocking triple safety device. When the safety door is open, the machine cannot clamp.
 - Low pressure mold protection device to prevent damage to platen.
 - Plywood, frame, the bridge, and the template attached structure, the finite element analysis.
 - Hydraulic ejector, adjustable stroke, and top speed of ejector in and out, for multiple actions.
 - Flexible tie bars nut eliminates fatigue fracture; assure the working life of tie bars
 - Automatic adjustment. The replacement of different mold, the parameters set by clamping force to achieve the automatic adjustment.
 - High-precision electronic detection device, multi-stage control of opening stroke, speed and location, location accuracy.
- 安全门装有液压、机械及电器三重互锁安全装置，任何一道安全门开启都无法合模。
 - 低压模具保护装置，可防止模具因异物而损坏。
 - 夹板、支架、过桥、模板连体结构，经有限元分析刚性强。
 - 液压顶针可调整行程、顶进及顶退速度，可多次动作。
 - 弹性拉杆螺母消除疲劳断裂，保证拉杆寿命。
 - 自动调模，更换不同模具时，通过参数设定实现锁模力的自动调整。
 - 高精度电子尺位置检测，多段控制移模行程，速度及位置，定位准确。



Arch splint piece of the tail plate use the finite element analysis. It features as light weight, high-intensity, and high-rigidity.

弓形夹板连体结构的尾板，经有限元分析，具有重量轻，高强度，高刚性的优点。

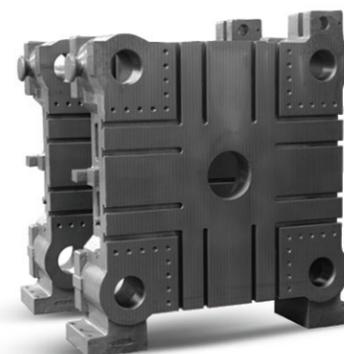


CORE / SCREW CONTROL

中子/绞牙控制

Flexible core programming control, an independent hydraulic pump station to provide power.

灵活的中子编程控制，独立的液压泵站提供动力。



SERVO ENERGY-SAVING //

伺服节能注塑机

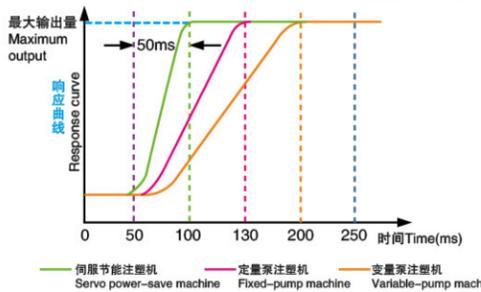
FEATURE 节能特性

Servo energy-saving injection molding machines: there is no extra energy consumption due to output volume changes according to load alteration. In the phase of holding pressure, servo motor lowers rotate speed and consumes a little of energies. In the phase of cooling, motor doesn't work and consumes no energy.

输出功率随负载变化而变化，不存在多余能量的浪费。保压阶段伺服电机降低转速，耗能极低，而且在冷却阶段电机不工作，耗电为0。

According to different products, servo energy-saving injection molding machines will save 20%-80% energy and bring you prominent economic benefit.

根据产品不同，伺服节能注塑机相比传统注塑机可节省用电 20%-80%，给您带来真正的省电享受，经济效益显著。



A REVOLUTION OF CONTROLLING HYDRAULIC SYSTEM

液压系统控制单元的革命性突破

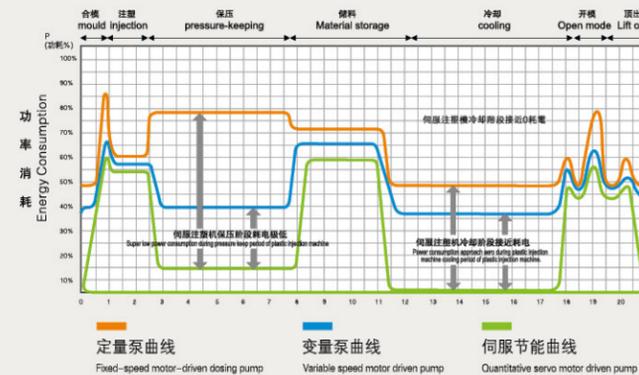
// HT/JD SERVO ENERGY-SAVING INJECTION MOLDING MACHINE

Is equipped with high performance servo motor controlling system, the machine's output power can vary in accordance with the loading changes.

HT / JD 伺服节能注塑机装载了高性能的伺服电机动力控制系统，伺服电机输出的功率随负载变化而变化，不存在多余能量的损耗。

which reduce energy consumption and noise. The motor rotates at lower speed in holding pressure stage, and doesn't work in cooling time.

保压阶段电机降低转速，能耗极低，冷却阶段电机不工作，能耗为零，提高注射精度的同时，大幅度节电、节水，降低噪音。真正实现了液压注塑机的一次全新革命。



// SPECIALTY PRODUCTS

其他特种产品

HTG SERIES //

fruit Basket Special Machine

HTG系列果筐专用机



PET SERIES //

plastic injection molding machine

PET系列注塑机



HTH SERIES //

high-speed thin-wall machine

HTH系列高速薄壁专用机

JC SERIES //

closed-loop variable pump plastic injection molding machine

JC系列闭环变量泵注塑机



JD SERIES //

servo injection molding machine

JD系列伺服注塑机



TECHNICAL 技术参数 PARAMETERS //



(*) /JB Variable pump injection molding machine (*) /JD Servo energy-saving injection molding machine (*) /UPVC UPVC Special machine
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 (*) /JB 高效节能变量泵注塑机 (*) /JD 伺服节能注塑机 (*) /F 高性能快速注塑机 (*) /UPVC UPVC专用机 (*) /JC 闭环变量泵注塑机 (*) /C 型精密注塑机

国际标准型号	INTERNATIONAL CLASS	NO	HTW90			HTW110			HTW140			HTW160			HTW200			HTW250		
国内标准规格	SPECIFICATION	CN	HTL90A			HTX110			HTL140A			HTL160A			HTX200			HTX250		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射装置 INJECTION UNIT																				
螺杆直径	Screw diameter	mm	30	32	35	32	35	38	38	42	45	42	45	50	45	50	55	50	55	60
螺杆长径比	Screw L/D ratio	L/D	23.5	22	20.1	24.1	22	20.2	22.1	20	18.6	23.6	22	19.8	23.3	21	19.1	23	21	19.2
理论注射容量	Shot volume(theoretical)	cm ³	117	133	158	137	163	192	227	277	318	305	350	432	340	420	510	537	650	774
注射重量	Injection weight(ps)	g	106	121	144	125	148	175	206	252	289	277	319	393	310	383	466	488	592	704
注射速率	Injection rate	g/s	71	81	97	74	89	105	94	115	132	138	160	196	124	154	186	187	227	270
注射压力	Injection pressure	MPa	230	203	170	260	219	186	205	170	147	203	177	143	207	168	139	205	169	142
螺杆转速	Screw speed	rpm		225			210			190			180			155			180	
锁模装置 CLAMPING UNIT																				
锁模力	Clamping force	KN		900			1100			1400			1600			2000			2500	
移模行程	Open stroke	mm		320			350			380			435			475			540	
拉杆间距(宽x高)	Space between tie bars(WxH)	mm		355x330			410x410			420x420			460x460			530x530			580x580	
最大模厚	Max.Mold height	mm		350			380			450			520			530			550	
最小模厚	Min.Mold height	mm		150			150			160			180			200			200	
顶出行程	Ejector stroke	mm		90			100			120			135			140			150	
顶出力	Ejector force	KN		30			38			50			45			70			70	
其它 OTHERS																				
最大油泵压力	Max.Pump pressure	MPa		16			16			16			16			16			16	
油泵马达功率	Pump motor power	KW		11			13			13			18.5			18.5			22	
电热功率	Heating power	KW		7.55			8.2			7.9			12.5			13.6			15	
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m		3.81x1.19x1.77			4.15x1.12x1.90			4.60x1.18x1.90			4.86x1.30x2.10			5.22x1.57x2.21			5.82x1.55x2.23	
油箱容积	Oil tank cubage	L		180			230			180			300			300			380	
机器重量	Machine weight	t		2.8			3.4			4			6			7			8	

模板正面尺寸	Platen Dimension	
模板侧面尺寸	Mold Space Dimension	
外型尺寸	Machine Dimension	

基于设计不断改良关系，规格如有更改，恕不作另行通知。
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TECHNICAL 技术参数

PARAMETERS //



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国际标准型号	INTERNATIONAL CLASS	NO	HTW280			HTW300			HTW320			HTW400			HTW460			HTW500		
国内标准规格	SPECIFICATION	CN	HTL280A			HTL00			HTL320			HTX400			HTL460			HTL500A		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射装置			INJECTION UNIT																	
螺杆直径	Screw diameter	mm	55	60	65	55	60	65	67	70	75	70	75	80	75	80	85	75	80	85
螺杆长径比	Screw L/D ratio	L/D	22.9	21	19.4	22.9	21	19.4	22.5	21.5	20	23.6	22	20.6	22.7	21	20	22.7	21	20
理论注射容量	Shot volume(theoretical)	cm ³	676	805	945	712	847	994	1181	1289	1480	1500	1723	1960	1900	2161	2440	1900	2161	2440
注射重量	Injection weight(ps)	g	615	732	859	648	771	905	1076	1175	1349	1365	1567	1784	1729	1967	2220	1729	1967	2220
注射速率	Injection rate	g/s	223.5	266	312.2	223.5	266	312.2	337	368	422	335	384	437	386	442	499	386	442	499
注射压力	Injection pressure	MPa	202.3	170	144.9	202.3	170	144.9	186	170	148	199	173	152	191	168	148	191	168	148
螺杆转速	Screw speed	rpm	220			220			190			150			130			130		
锁模装置			CLAMPING UNIT																	
锁模力	Clamping force	KN	2800			3000			3200			4000			4600			5000		
移模行程	Open stroke	mm	590			605			660			720			740			770		
拉杆间距(宽x高)	Space between tie bars(WxH)	mm	610x610			630x630			660x660			730x730			780x780			820x800		
最大模厚	Max.Mold height	mm	630			640			720			780			800			810		
最小模厚	Min.Mold height	mm	200			220			250			250			280			330		
顶出行程	Ejector stroke	mm	150			150			160			180			200			240		
顶出力	Ejector force	KN	70			70			70			110			110			150		
其它			OTHERS																	
最大油泵压力	Max.Pump pressure	MPa	16			16			16			16			16			16		
油泵马达功率	Pump motor power	KW	30			30			37			37			55			55		
电热功率	Heating power	KW	18.3			18.3			24.7			29.3			31.4			31.4		
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m	5.98x1.66x2.37			6.42x1.64x2.45			7.21x1.90x2.34			7.52x1.9x2.5			8.2x1.91x2.76			8.4x1.92x2.76		
油箱容积	Oiltank cubage	L	385			400			620			700			750			900		
机器重量	Machine weight	t	9			10			12.5			16			18			18.5		
模板正面尺寸	Platen Dimension																			
模板侧面尺寸	Mold Space Dimension																			
外型尺寸	Machine Dimension																			

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TECHNICAL 技术参数 PARAMETERS //



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国际标准型号	INTERNATIONAL CLASS	NO	HTW600				HTW730				HTW1000				HTW1100				HTW1200			
国内标准规格	SPECIFICATION	CN	HTL600B				HTL730				HTL1000				HTL1100				HTL1200			
			A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
注射装置			INJECTION UNIT																			
螺杆直径	Screw diameter	mm	90	95	100	90	95	105	110	90	100	110	115	100	110	120	125	110	115	120	125	
螺杆长径比	Screw L/D ratio	L/D	23.2	22	20.9	23.2	22	19.9	19	25.5	23	20.9	20	25.2	23	21	20	23	22	21	20.2	
理论注射容量	Shot volume(theoretical)	cm ³	2863	3190	3534	3181	3544	4330	4752	3244	4006	4847	5297	4163	5037	5994	6504	5270	5760	6272	6805	
注射重量	Injection weight(ps)	g	2605	2903	3216	2895	3225	3940	4324	2952	3645	4410	4821	3788	4583	5455	5919	4796	5242	5707	6193	
注射速率	Injection rate	g/s	575	640	710	574	640	781	858	580	717	867	948	610	739	880	954	793	867	944	1024	
注射压力	Injection pressure	MPa	177	159	143	195	175	143	130	216	176	146	133	201	166	140	129	186	170	156	144	
螺杆转速	Screw speed	rpm	150				115				100				100				90			
锁模装置			CLAMPING UNIT																			
锁模力	Clamping force	KN	6000				7300				10000				11000				12000			
移模行程	Open stroke	mm	870				950				1000				1100				1180			
拉杆间距(宽x高)	Space between tie bars(WxH)	mm	870x870				950x950				1080x1000				1160x1100				1220x1100			
最大模厚	Max.Mold height	mm	900				960				1100				1200				1200			
最小模厚	Min.Mold height	mm	350				400				400				450				450			
顶出行程	Ejector stroke	mm	250				280				325				325				325			
顶出力	Ejector force	KN	150				210				245				245				245			
其它			OTHERS																			
最大油泵压力	Max.Pump pressure	MPa	16				16				16				16				16			
油泵马达功率	Pump motor power	KW	30+37				37+37				37+45				45+45				45+55			
电热功率	Heating power	KW	42.95				56.7				59				68.4				66.1			
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m	10.2x2.24x2.71				11.43x2.40x3.14				12.1x2.64x3.00				12.30x2.60x3.00				12.54x2.66x3.27			
油箱容积	Oil tank cubage	L	1100				1200				1700				1750				2100			
机器重量	Machine weight	t	28				37				53				58				60			
模板正面尺寸	Platen Dimension																					
模板侧面尺寸	Mold Space Dimension																					
外型尺寸	Machine Dimension																					

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TECHNICAL 技术参数 PARAMETERS //



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国际标准型号	INTERNATIONAL CLASS	NO	HTW1400				HTW1660				HTW2000				HTW2500			HTW3000		
国内标准规格	SPECIFICATION	CN	HTL1400				HTL1660				HTL2000				HTL2500			HTL3000		
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	A	B	C
注射装置			INJECTION UNIT																	
螺杆直径	Screw diameter	mm	110	120	130	140	120	130	140	150	130	140	150	160	180	200	210	180	210	220
螺杆长径比	Screw L/D ratio	L/D	25.7	24	22	20	25.4	23.4	21.7	18.9	25.9	24	22.4	20.9	24	24	24	24	24	22.9
理论注射容量	Shot volume(theoretical)	cm ³	6271	7463	8759	10158	7368	8759	10159	11662	9460	11238	12900	14678	28501	35186	38775	29390	40003	43904
注射重量	Injection weight(ps)	g	5706	6791	7970	9243	6704	7970	9244	10612	8608	10226	11739	13356	25935	32019	35285	26745	36402	39953
注射速率	Injection rate	g/s	815	970	1138	1320	1056	1240	1438	1650	1172	1360	1560	1776	1523	1880	2000	1468	2000	2200
注射压力	Injection pressure	MPa	208	175	150	129	195	165	145	126	190	163	142	125	175	142	128	210	155	141
螺杆转速	Screw speed	rpm	90				85				70				53			50		
锁模装置			CLAMPING UNIT																	
锁模力	Clamping force	KN	14000				16600				20000				25000			30000		
移模行程	Open stroke	mm	1350				1550				1600				1900			2000		
拉杆间距(宽x高)	Space between tie bars(WxH)	mm	1310x1300				1500x1400				1650x1500				1850x1700			1900x1750		
最大模厚	Max.Mold height	mm	1400				1500				1620				1800			1900		
最小模厚	Min.Mold height	mm	600				700				800				700			1000		
顶出行程	Ejector stroke	mm	360				420				420				450			450		
顶出力	Ejector force	KN	260				420				490				490			565		
其它			Others																	
最大油泵压力	Max.Pump pressure	MPa	16				17.5				16.5				16			16		
油泵马达功率	Pump motor power	KW	55+55				45+45+45				45+55+55				45+45+55+55			55+55+55+55		
电热功率	Heating power	KW	86				94.9				110.7				170.9			177		
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m	15.2x3.00x4.13				16.35x3.15x4.17				17.80x3.35x4.28				18.50x4.10x4.3			22.00x5.50x5.00		
油箱容积	Oil tank cubage	L	2900				3000				3700				3100			4500		
机器重量	Machine weight	t	83				125				137				180			200		
模板正面尺寸	Platen Dimension																			
模板侧面尺寸	Mold Space Dimension																			
外型尺寸	Machine Dimension																			

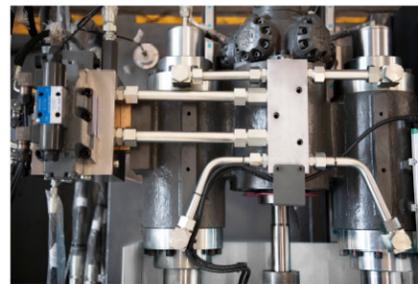
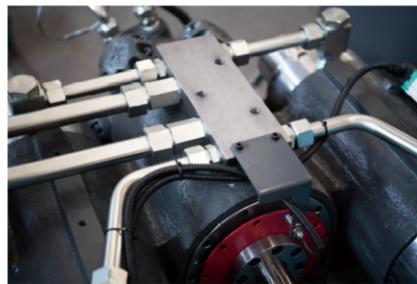
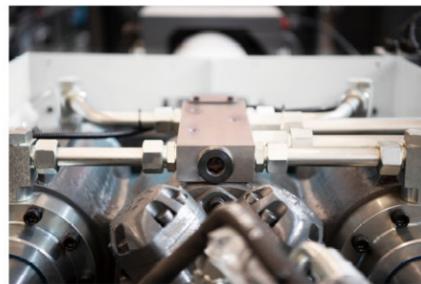
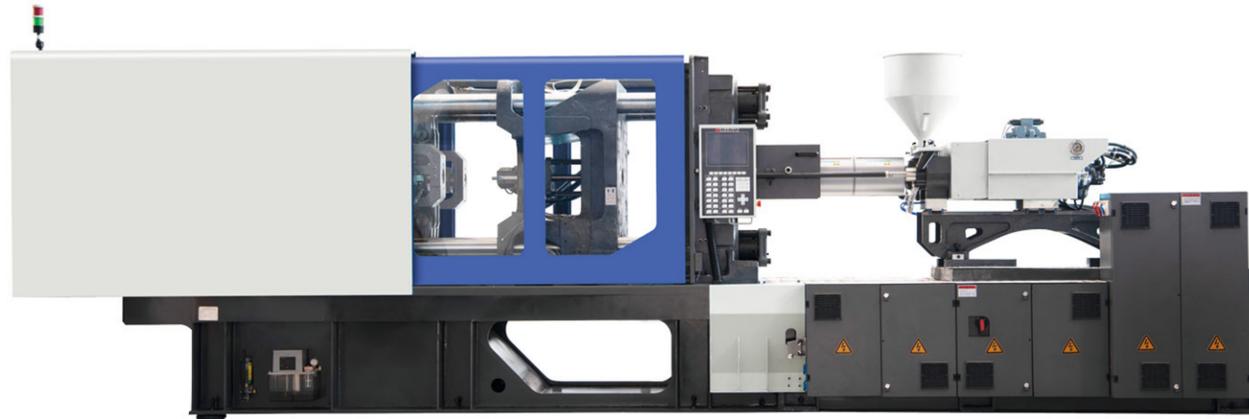
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HT HIGH SPEED SERIES //

海太HTH高速注塑机

海太 HTH 高速机系列是在多年实验、研究的基础上专门针对成型周期短、高速注射成型的制品潜心打造的。在运动特性、机器精度、使用寿命等方面表现卓越。广泛应用于包装类塑料制品、医疗类塑料制品、3C 电子产品的生产。

Haitai high speed IMM series is based on years of experiment and researching, specifically for the molding cycle is short, high speed injection molding requirement products. Outstanding performance in the aspects of motion characteristics, machine precision, service life and so on. Widely used in packaging, medical and 3C electronic products.



所有机型高度集成的双缸注射结构及中心对称的油路布局，直线导轨的支撑确保射胶动作的平稳与精确。无焊接的油路设计，耐高压、抗冲击防爆裂。

The integrated double drive cylinder injection system with symmetrical oil circuit and linear guide, can control injection stable and precise. Weldless oil circuit can bear high pressure and high forces.



Packaging Series

包装系列



Tableware Series

餐具系列



Milky-Tea Cup

奶茶杯

TECHNICAL 技术参数

PARAMETERS //

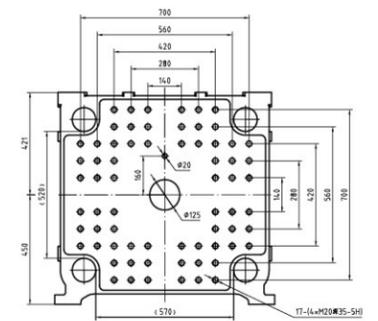
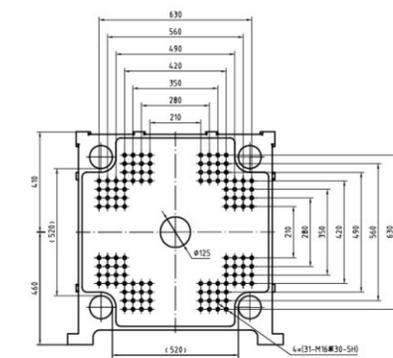


(*) /JB Variable pump injection molding machine (*) /JD Servo energy-saving injection molding machine (*) /UPVC UPVC Special machine
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国际标准型号	INTERNATIONAL CLASS	NO	HTH210	HTH250
国内标准规格	SPECIFICATION	CN	HTH210	HTH250
注射装置 INJECTION UNIT				
螺杆直径	Screw diameter	mm	50	50
螺杆行程	Injection stroke	L/D	225	225
螺杆长径比	Screw/d ratio	cm ³	25	25
理论注射量	Shot volume(theoretical)	g	420	420
注射重量	Injection weight(pp)	OZ	378	378
			13.34	13.34
注射压力	Injection pressure	MPa	164	164
保压压力	Dwell pressure	kg/cm ³	1640	1640
注射速度	Injection speed	mm/sec	360	360
螺杆转速	Screw speed	rpm	400	400
锁模装置 CLAMPING UNIT				
合模力	Clamping force	KN	2100	2500
移模行程	Open stroke	mm	490	490
拉杆间距(宽x高)	Space between tie bars(WxH)	mm	520x520	520x520
最大模厚	Max. Mold height	mm	55	670
最小模厚	Min. Mold height	mm	210	300
顶出行程	Ejector stroke	mm	140	140
顶出力	Ejector force	KN	61.5	61.5
顶出杆根数	Ejector number	N	5	5
其它 Others				
最大油泵压力	Max. Pump pressure	MPa	23	23
伺服驱动功率	Heating power	KW	55	55
电热功率	Heating power	KW	15.05	15.05
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m	5.74x1.45x1.78	5.74x3.145x1.78
油箱容积	Oil tank cubage	L	300	300
机器重量	Machine weight	t	8.3	8.7

模板正面尺寸

Platen Dimension



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FRUIT VEGETABLE CRATE BASKET MACHINE //

海太HTG果框专机

- With double alloy screw barrel, it is more wearable and corrosion resistant, and improves service life.
- By increasing the power system, the ejection speed is faster, the production cycle is shortened, and the production efficiency is increased.
- New rigid frame, shock absorption is more obvious, more stable production.
- High efficiency and energy saving variable displacement pump, the energy saving effect is more obvious.
- Heating uses nanometer infrared energy saving heating device, with little energy loss and high heating quality.

- 配双合金螺杆料筒, 更加耐磨、耐腐蚀, 提高使用寿命。
- 加大的动力系统, 射胶速度更快, 缩短生产周期, 提高生产效率。
- 全新刚性机架, 减震更明显, 生产更稳定。
- 配置高效节能变量泵, 节能效果更明显
- 加热采用纳米红外节能加热装置, 能量损失小、加热质量高。



一次性果筐塑化应用

生产机型: HA4500/2900 columba
使用原料: 回料PP
产品名称: 12.5kg果筐
产品单重: 1.4kg (1出1)
成型周期: 20S



一次性果筐塑化应用

生产机型: HA4500/2900 columba
使用原料: 回料PP
产品名称: 15kg果筐
产品单重: 1.9kg (1出1)
成型周期: 24S



一次性果筐塑化应用

生产机型: HA3600/2250 columba
使用原料: 回料PP
产品名称: 7kg果筐
产品单重: 1kg (1出1)
成型周期: 20.5S



TECHNICAL PARAMETERS // 技术参数

国际标准型号	INTERNATIONAL CLASS	NO	HTW350	HTW400	HTW450	HTW500	HTW550
L款规格	SPECIFICATION	CN	HTG350T	HTG400T	HTG450T	HTG500T	HTG550T
注射装置			INJECTION UNIT				
螺杆直径	Screw diameter	mm	75	90	90	95	95
螺杆长径比	Screw L/D ratio	L/D	21.5	20	20	20	20
理论注射容量	Shot volume(theoretical)	cm ³	1480	2553	2553	3849	3849
注射重量	Injection weight(ps)	g	1350	2352	2352	3560	3560
注射速率	Injection rate	g/s	422	851	851	1010	1010
注射压力	Injection pressure	MPa	168	156	156	148	148
螺杆转速	Screw speed	rpm	0-195	0-200	0-200	0-200	0-200
射出行程	Injection stroke	mm	335	430	430	450	450
锁模装置			CLAMPING UNIT				
锁模力	Clamping force	KN	3500	4000	4500	5000	5500
移模行程	Open stroke	mm	660	720	750	770	890
拉杆间距(宽x高)	Space between tie bars(WxH)	mm	660x660	730x730	745x745	820x800	830x830
最大模厚	Max.Mold height	mm	720	780	780	800	820
最小模厚	Min.Mold height	mm	250	250	250	300	300
顶出行程	Ejector stroke	mm	160	200	200	200	230
顶出力	Ejector force	KN	110	110	110	110	150
其它			OTHERS				
最大油泵压力	Max.Pump pressure	MPa	16	16	16	16	16
油泵马达功率	Pump motor power	KW	48	82	82	95	93
电热功率	Heating power	KW	24.7	44	44	48.5	48.5
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m	7.21x1.90x2.34	7.81x2.00x2.61	8.2x2.00x2.61	8.4x2.24x2.85	8.4x2.24x2.85
油箱容积	Oil tank cubage	L	620	700	700	900	900
机器重量	Machine weight	t	12.5	16	16.8	19.3	21.2

TECHNICAL 技术参数 PARAMETERS //



(*) /JB Variable pump injection molding machine (*) /JD Servo energy-saving injection molding machine (*) /UPVC UPVC Special machine
 (*) /F Series High-speed plastic injection molding machine (*) /JC closed loop variable pump machine (*) /C precision injection molding machine
 (*) /JB 高效节能变量泵注塑机 (*) /JD 伺服节能注塑机 (*) /F 高性能快速注塑机 (*) /UPVC UPVC专用机 (*) /JC 闭环变量泵注塑机 (*) /C 型精密注塑机

国际标准型号	INTERNATIONAL CLASS	NO	HTW1400			HTW1660			HTW2000			HTW2200			HTW2200		
国内标准规格	SPECIFICATION	CN	HTD1400			HTD1660			HTD2000			HTD2200			HTD2200		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射装置			INJECTION UNIT														
螺杆直径	Screw diameter	mm	115	125	135	125	135	145	130	140	150	130	140	150	140	150	165
螺杆长径比	Screw L/D ratio	L/D	23	21	19	19	21	19	23	21	19	23	21	19	23	21	19
理论注射容量	Shot volume(theoretical)	cm ³	7271	8590	10020	9818	11451	13211	10619	12315	17672	10619	12315	17672	13547	15551	23093
注射重量	Injection weight(ps)	g	6689	7903	9218	9032	10535	12155	9769	11330	16258	9769	11330	16258	12463	14307	21246
注射速率	Injection rate	g/s	986	1166	1360	1178	1375	1585	1215	1408	1616	1215	1408	1616	1416	1626	1958
注射压力	Injection pressure	MPa	185	156	134	181	155	134	180	155	135	180	155	135	180	157	130
螺杆转速	Screw speed	rpm		95			95			92			92			92	
锁模装置			CLAMPING UNIT														
锁模力	Clamping force	KN		14000			16000			18500			25000			30000	
移模行程	Open stroke	mm		1600-2450			1750-2700			1900-2900			1950-3050			1950-3050	
拉杆间距(宽x高)	Space between tie bars(WxH)	mm		1460x1330			1560x1430			1720x1520			1820x1600			1820x1600	
最大模厚	Max.Mold height	mm		1500			1600			1700			1800			1800	
最小模厚	Min.Mold height	mm		650			650			700			700			700	
顶出行程	Ejector stroke	mm		350			420			460			460			460	
顶出力	Ejector force	KN		312			464			464			464			464	
其它			Others														
最大油泵压力	Max.Pump pressure	MPa		17.5,21			17.5,21			17.5,21			17.5,21			17.5,21	
油泵马达功率	Pump motor power	KW		67x2+7.5			67x2+31+7.5			67x2+37+7.5			67x37+15			67x37+15	
电热功率	Heating power	KW		75			95			105			105			130	
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m		11.6x3.3x2.8			12.8x3.5x3.3			13.3x3.8x3.3			14x4x3.5			14x4x3.5	
油箱容积	Oil tank cubage	L		1400			1800			1800			1800			2200	
机器重量	Machine weight	t		63			77			90			103			103	
模板正面尺寸	Platen Dimension																
模板侧面尺寸	Mold Space Dimension																
外型尺寸	Machine Dimension																

基于设计不断改良关系，规格如有更改，恕不作另行通知。
 Due to continual improvement, specifications are subject to change without prior notice.

TECHNICAL 技术参数 PARAMETERS //



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国际标准型号	INTERNATIONAL CLASS	NO	HTW2600			HTW3000			HTW3500			HTW4500			HTW6500		
国内标准规格	SPECIFICATION	CN	HTD2600			HTD3000			HTD3500			HTD4500			HTD6500		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射装置			INJECTION UNIT														
螺杆直径	Screw diameter	mm	160	180	195	175	200	210	190	210	230	210	230	250	270	300	330
螺杆长径比	Screw L/D ratio	L/D	22	20	19	22	20	19	22	20	19	22	20	19	22	20	19
理论注射容量	Shot volume(theoretical)	cm ³	21715	27483	37331	30066	39270	43495	35441	43495	51935	48491	58166	68723	125962	155509	188166
注射重量	Injection weight(ps)	g	19978	25285	34345	27661	36128	40015	32606	40015	47780	44611	53513	63225	115885	143068	173113
注射速率	Injection rate	g/s	1698	2150	2522	1859	2426	2687	2031	2520	3023	2528	3033	3585	4185	5166	6255
注射压力	Injection pressure	MPa	180	146	125	182	140	127	180	147	125	185	155	130	170	138	115
螺杆转速	Screw speed	rpm	83			77			71			71			71		
锁模装置			CLAMPING UNIT														
锁模力	Clamping force	KN	26000			30000			35000			45000			65000		
移模行程	Open stroke	mm	2000-3100			2100-3200			2200-3500			2300-3600			3200-5200		
拉杆间距(宽x高)	Space between tie bars(WxH)	mm	1920x1720			2020x1800			2220x1920			2450x2020			3200x2600		
最大模厚	Max.Mold height	mm	1900			2000			2200			2300			3500		
最小模厚	Min.Mold height	mm	800			900			900			1000			1500		
顶出行程	Ejector stroke	mm	460			500			550			550			1100		
顶出力	Ejector force	KN	464			464			660			660			1000		
其它			Others														
最大油泵压力	Max.Pump pressure	MPa	17.5,21			17.5,21			17.5,21			17.5,21			17.5,21		
油泵马达功率	Pump motor power	KW	67x3+47+15			67x4+15			75x4+15			75x5+15			67x8+15		
电热功率	Heating power	KW	165			200			200			268			388		
外形尺寸(长x宽x高)	Machine dimension(LxWxH)	m	15.5x4.2x3.8			12.8x3.5x3.3			18x4.7x4.3			20x5.3x4.6			26x6.5x6.5		
油箱容积	Oil tank cubage	L	2600			1800			3000			3800			6000		
机器重量	Machine weight	t	130			160			196			240			550		

模板正面尺寸	Platen Dimension	
模板侧面尺寸	Mold Space Dimension	
外型尺寸	Machine Dimension	

基于设计不断改良关系，规格如有更改，恕不作另行通知。
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STANDARD 配置 CONFIGURATION OPTIONS //

// HYDRAULICS 液压配置

- High-precision suction filter
- Alarm for oil temperature deviations function
- Oil level monitoring function
- Cooling device for hydraulic oil

- 高精度吸油过滤器
- 油温偏差报警功能
- 油箱油液位置监测
- 液压油冷却装置



Japan SUMITOMO
日本住友



Sweden Trelleborg
瑞典特瑞堡



France Schneider
法国施耐德



U.K. Hallite
英国好莱特



U.S. Vickers
美国威格士



Japan Omron
日本欧姆龙



Germany Siemens
德国西门子



Japan Yuken
日本油研



Japan Panasonic
日本松下

// CLAMPING CONFIGURATION 锁模配置

- 5 Point double toggle
- Mechanical, electrical, hydraulic triple chain security protection (large, medium machine); hydraulic mechanical security chain to protection (small machine)
- Low pressure mold protection device
- Multi-stage pressure, speed and position control

- 5点双曲肘
- 机械, 电气, 液压三重安全保护 (大, 中型), 机械液压二重安全连锁保护 (小机)
- 低压模具保护装置
- 多段开关模压力、速度、位置控制

- A variety of hydraulic ejection mode and vibration mode
- Strengthening moving platen wearable rail
- Mold cooling water distributor
- Automatic centralized lubrication system (volume of quantitative)
- Fast-mold differential device

- 多种液压顶出和震动模式
- 强化处理动模板移动耐磨轨道
- 模具冷却水分流器
- 自动集中润滑系统 (容积式定量)
- 快速合模差动装置
- 开关模刹车装置

- Open/close mold brakes device
- Hydraulic oil motor drives gear model
- Special handling on tie bars, reliable strength
- Electric ruler for open/close mold and ejection
- Automatic adjustment structure
- Adjustable moving platen sliding feet

- 液压油马达驱动齿圈调模
- 拉杆特殊工艺处理, 强度可靠
- 开关模、顶出位置尺控制
- 自动调模功能
- 可调节式动模板滑脚

// ELECTRONIC 电控配置

- Pre-set technical parameters
- Robot interface
- Data protection lock for parameters
- Color LCD screen
- Computer memory mold data up to 99 groups

- 工艺参数预设定
- 机械手电气接口
- 参数资料保护锁
- 彩色LCD显示屏

- Real-time monitoring showed movements of the machine.
- Abnormal alarm function
- The temperature deviations and automatic correction
- Motor safety protection device

- 电脑内存模具记忆功能可达99组
- 实时监测显示各动作运行情况
- 异常报警功能
- 温度偏差显示及自动校正

- System hardware I / O detection function
- Three sockets for power supply
- Color warning light
- Emergency stop protection device

- 电机安全保护装置
- 系统硬件I/O检测功能
- 外供预留电源插头3组
- 彩色报警灯
- 紧急停止保护装置

// INJECTION UNIT 注射配置

- Balance cylinder injection unit
- Multi-stage injection speed and pressure setting
- Multi-level holding speed and pressure setting
- Multi-level refilling speed, pressure setting

- 双缸平衡注射装置
- 多级注射速度、压力设定
- 多级保压速度、压力设定
- 多级储料速度、压力设定
- 注射转保压起点控制
- 注射位置检测控制

- Injection switch to holding control
- Injection position detection control
- Injection device control position
- Anti-cold start (prevention) of screw
- Injection cover
- 3-Mode carriage retreat mode
- Auto-purge function
- High-torque motor-driven

- 注射位置尺控制
- 螺杆冷启动 (防止) 功能
- 射出防护罩
- 3种模式退选选择功能
- 自动清料功能
- 高扭力油马达驱动螺杆预塑装置

- plasticizing unit
- Decompression device
- Three or four kinds of screw diameter and barrel
- Barrel PID temperature control
- Back pressure regulation
- Safety cover for heating of barrel
- Nozzle regulation device

- 螺杆倒索防流延装置
- 3种或4种直径螺杆、料筒
- 料筒温度PID控制
- 储料背压调节功能
- 料筒加热安全防护罩
- 喷嘴对中调节装置

// OPTIONAL EXTRAS 选用配置

- Bi-metal screw
- Stainless steel screw
- Screw for special material
- Mold temperature controller
- Mold opening while ejection
- Spring nozzle / extension nozzle
- Accumulator-assisted rapid injection

- 双金属螺杆
- 不锈钢螺杆
- 特殊原料专用螺杆
- 模具温度控制器
- 边开模边顶出装置
- 弹簧喷嘴/加长喷嘴
- 蓄能器辅助快速注射

- Multi-core pulling device
- Cooling glass tube flow meter
- Automatic feeder
- Hopper dryer
- Dehumidifier
- Hopper magnetic
- Mold clamp
- Three-color warning light

- 多组抽芯装置
- 玻璃管冷却流量计
- 自动上料机
- 干燥料斗
- 除湿机
- 磁力架
- 模具压板

- Power regulator
- Closed-loop pressure and flow control system
- Bypass filter
- Automatic security gate control device
- Automatic color doser
- Intelligent control system

- 三色报警灯
- 电流稳压器
- 闭环压力、流量控制系统
- 旁路过滤器
- 自动安全门控制装置
- 自动加色计量器
- 智能控制系统