



**Changzhou Runlong machinery Co.,Ltd**

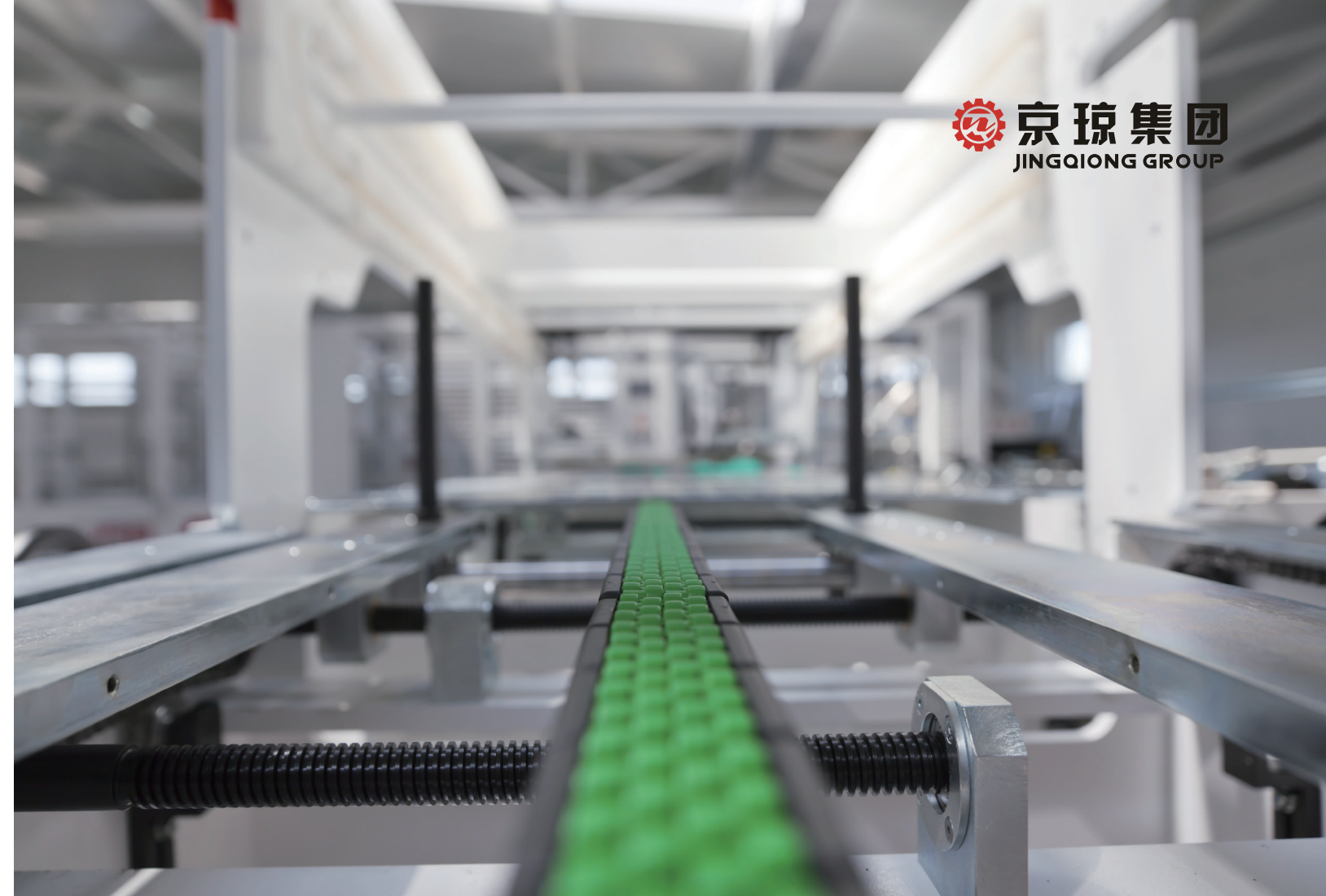
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## INJECTION MOLDING MACHINE

**塑料注射成型机**

NHTX SERIES



[www.runlongmachinery.com](http://www.runlongmachinery.com)

企业宗旨

铭求质量 竭诚服务

ENTERPRISE TENENT

Just for quality,just for solution.

企业精神

敢为人先 奋发图强

ENTERPRISE SPIRIT

Pioneer spirit and work hard.

企业方针

坚持以市场为导向，科技创新为源动力，精益求精，持续改进，不断满足和超越顾客愿望与需求，最大程度地实现顾客的利益。

COMPANY POLICY

Market-oriented,technological innovation as the source of power,  
keep improving,customer's need and maximize the customer's interests.

企业理念

营造一支团结、紧张、严肃、活泼的创业团队，创造一个舒适、优静、宽松的工作环境，最大限度地激发员工的主观能动性，感受企业的文化气息，把企业发展目标与员工的人生价值的实现有机地结合起来，直面未来挑战，振兴民族企业。

ENTERPRISE PHILOSOPHY

Establish a unity tension,serious and lively entrepreneurial team,create comfortable,quiet and relaxed work environment,maximize employee's initiative,feel enterprise culture,combine company developed goal and employee's value,face the challenges and revitalize national industry.



追求卓越

PURSUE EXCELLENCE

铭求创新

KEEP INNOVATION

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# COMPANY INTRODUCTION

## 宁波京琼机械制造有限公司总部



## 公司简介

企业总部位于中国塑机之都——宁波市鄞州区东吴工业区，是该区内研发、制造、销售高端节能环保注塑机产品的特色基地。

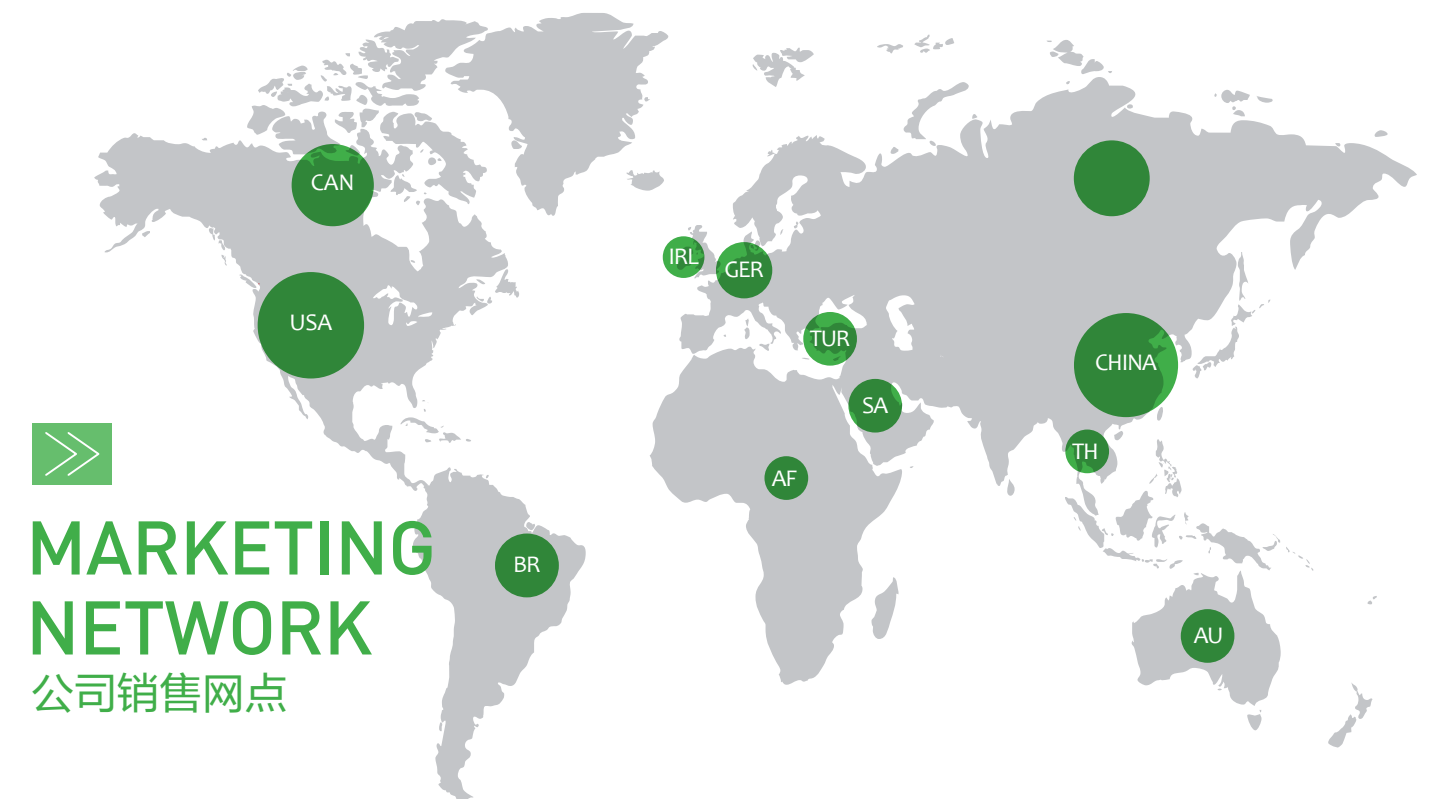
Our headquarter located in injection molding machine capital in China---Dongwu Industrial area, Yinzhou District, Ningbo. It is the production base for researching, manufacturing and marketing of high end economic injection molding machine in the area. Our Group consists of Changzhou Runlong machinery Co.,Ltd, Ningbo Jingqiong Machinery Manufacturing Co.,LTD(Previous name is Ningbo New Haitai Plastic Machinery Co. Ltd.)

公司以“铭求质量，竭诚服务”为宗旨，不断提升产品在同行业中的领先地位，企业凭其先进的技术、可靠的产品质量、优质的售后服务赢得了越来越多中外顾客的信赖。未来，京琼集团将继续坚持科技创新，把握时代发展机遇，以高瞻远瞩的目光和诚信合作的精神，高效进取，搏击未来。

In the line with seek for quality and dedication to service, we will continue to improve our leading position in the field. We could win the trust of more and more customers from domestic and abroad based on our advance technology, stable quality of product and good after sale service. Jingqiong Group will adhere to scientific and technological innovation, and seize the opportunities of the times, in the spirit of vision and foresight of good faith cooperation, efficient and enterprising, fighting in the future.

企业主要从事塑料机械、工程机械、锻压机械、液压机械等产品的设计研发、制造与销售。公司生产的“NHTX”牌系列合模力为 10T-3000T，注射量 45G-40000G 的 30 余种规格型号塑料注射成型机产品，具有节能、环保、低噪声、刚性强、性能优、响应快、高效耐用等特色，是集光、机、电一体化的高新技术产品，属于国家重点支持的高新技术领域，产品畅销国内外，目前已拥有 20 多个国内和 10 多个国际代理商、经销商。企业已建立完善的 ERP 信息资源管理系统，并实施 PDM，CAM 等企业信息化工程，已通过 ISO9001:2008 质量管理体系认证，还通过欧盟 CE 认证与韩国 KCS 认证。企业十分注重人才引进和科技创新，开发具有行业特色的升级和延伸产品，现已设立企业科研中心、浙江省企业博士后试点工作站，并引进日本留学博士一名，柔性引进博士后二名。企业总经理翁贞琼被评为 2012 年度“宁波 3315 创新创业人才”及 2013 年度“国家科技部创新创业人才”，2016 年国家“万人计划”领军人才等。此外通过在日本建立全资子公司株式会社新海太，引进消化、吸收欧美、日本的先进技术，促进产品的转型与升级，全面提升品牌效应和核心竞争力。

Our company specialized in developing, manufacturing and selling for all kinds of plastic machinery, Engineering machinery, metal forming machinery, Hydraulic machinery. NHTX series with clamping force from 10T-3000T, injection weight from 45g-40000g, 30 kinds of specifications of injection molding machine have the feature of energy-saving, environmental friendly, low noise, high rigidity, good performance, fast response and excellent durability. It is integrated of optical, mechanical and electrical of high-tech products, belong to high-tech fields with national key support, best-selling at home and abroad, we have more than 20 domestic and more than 10 international agents, or dealers. Our Enterprise has established perfect ERP information resource management system, and has implemented the Enterprise Informationalization management (PDM), CAM etc. Our Enterprise also has passed ISO9001:2008 quality management system certification, and get the CE certification and Korea KCS certification. We pay great attention to talent introduction, technological innovation and develops upgrading and extended product. Research center and Zhejiang Enterprise Postdoctoral pilot workstation have been set up, introducing one doctor study in Japan and two postdoctors, The General Manager of company Weng Zhenqiong has been awarded as "2012 Ningbo 3315" creative and innovative talents and creative and innovative talents of Ministry of Science and Technology. "2016 National leading talents". Via Japan New Haitai Co.Ltd. wholly owned subsidiary, we have introduced and absorbed European and Japan advanced technology, which help us to upgrade product, improve brand effect and core competitiveness.





## COMPANY PLANT

新厂区(建设中)



## WORKSHOP CORNER

车间一角



## WORKSHOP EQUIPMENTS

车间设备



- 一切的资源调配顺应市场的变化, 运用精益生产要素中的柔性配置和 持续的消除浪费, 我们的生产管理从流程最优化、过程标准化、和交付准时化出发, 以工艺简洁和设备合理利用为目标开展各项生产活动。

All resource allocation adapt to market changes, the use of lean production elements of the flexible configuration and ongoing eliminate waste. management process focus on optimization process, process standardization, on time delivery. Carry out various production activities to achieve the target of simple process and rational device.



# PRODUCT ANALYSIS NHTX 系列塑料注塑成型机

## A 超强精度，超长寿命

SUPER PRECISION, SUPER LONG WORKING LIFE

- 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和超长寿命。
- 运用计算机模块优化设计双肘五支点合模机构，具有合模力强、运行平稳、可靠。

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

Use the computer module optimal to design five-point double toggle clamp unit, offer a strong, smooth and reliable operation.

## B 中子 / 绞牙控制

CORE/SCREW CONTROL

- 灵活的中子编程控制，独立的液压泵站提供动力。

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

## C 超宽模块设计，更大容模范围

EXTRA LARGE PLATEN DESIGN, GREATER SPACE FOR INSTALLING MOLD

- 模块设计经过有限分析，采用支架连体铸造结构，大大提高模板刚性。
- 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。

Platen has been designed by finite element analysis, and incorporates cast structure to improve the rigid of platen greatly.

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

## D 高精度温度控制

HIGH-PRECISION TEMPERATURE CONTROL

- 自适应料筒高精度温度稳定控制。

Self-adaptive barrel temperature accurate and stable control.

## E 可靠的液压系统

RELIABILITY OF THE HYDRAULIC SYSTEM

- 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。

Through proportional control of pressure, flow achieves rapid multilevel pressure, speed switching, the system configuration is reasonable, stable and reliable.

## F 油脂系统集中润滑

CENTRAL-LUBRICATING OIL SYSTEM

- 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准。

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

## G 液压脚

HYDRAULIC FOOT

- 上拆式液压脚平衡油缸支撑，有效保护拉杆模板。

Feet on the balance split hydraulic cylinder support, effective protection of tie bar and platen.

## H 高端控制器

ADVANCED CONTROLLER

- 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。

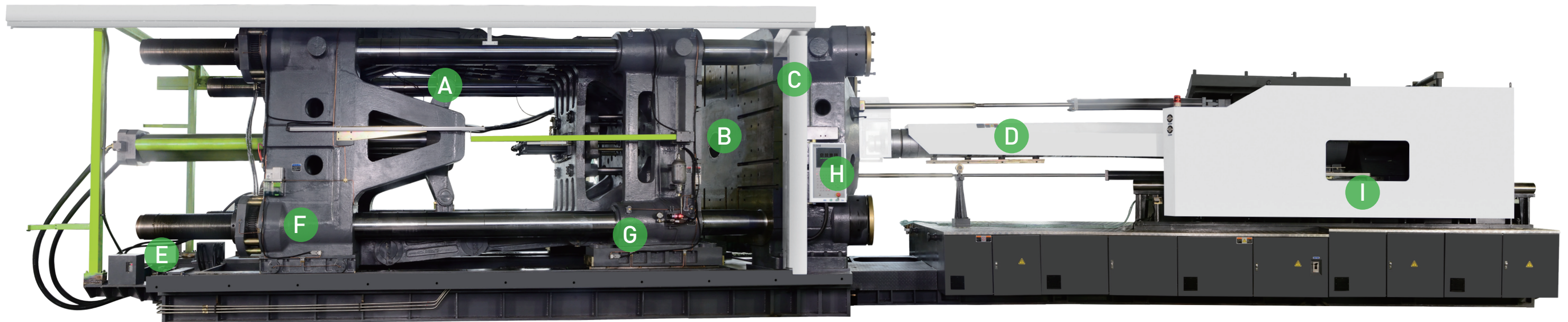
High-performance computer has been used large screen with color display, full-featured.

## I 双导柱

DOUBLE GUIDE COLUMN

- 双导柱支承，双油缸平衡注射，使运行快捷 & 节能。

Two-guided column supports, dual-injection balance unit, running fast & energy saving.





# PRODUCT MAIN STRUCTURE DIAGRAM

## 产品主要结构图解

### 电控系统采用多项专利技术

ELECTRICAL CONTROL SYSTEM USE THE PATENT TECHNOLOGY

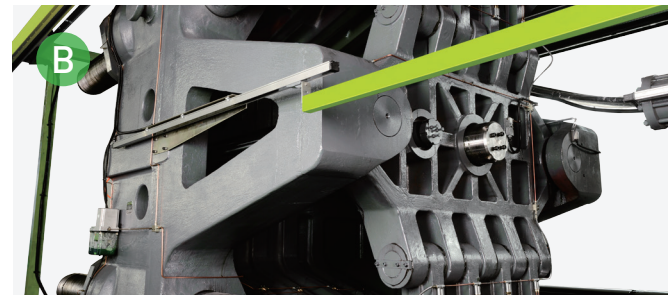
- 塑料注塑过程中注塑件缺陷的智能修正方法及注塑机
- 塑料注射工艺参数确定方法及注塑机

Intelligent method of defects in the course of the injection  
Plastic injection process parameters established methods



- A** 螺杆采用优质氮化钢，经特殊处理达到耐磨，螺杆设计适合多种塑料原料。针对 PMMA 等特殊工程塑料，可分别提供相应的专用螺杆。

Special designed screw for PET, PC, PMMA ect.



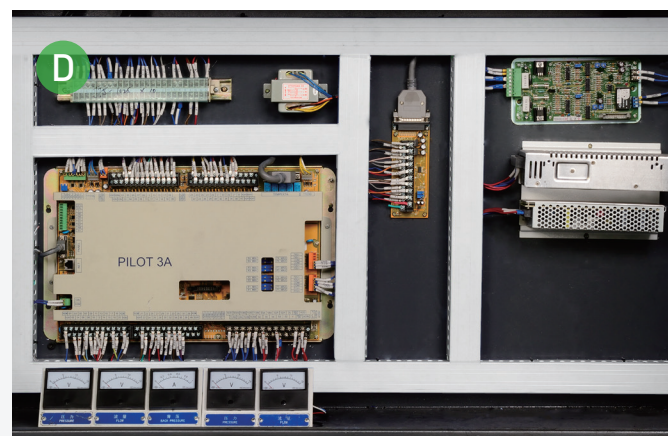
- B** 运用计算机模块优化设计双曲肘五支点合模机构，具有合模力强、运行平稳、可靠。

Five points double toggle clamping system with reliable and equal motion.



- C** 整机采用插装阀液压系统，机器动作平稳、灵敏。应用国际品牌液压系统，确保使用可靠。

Hydraulic system apply cartridge valve style ensure stability and sensitivity of machine motion. Apply world famous hydraulic components to ensure reliability.



- D** 国际品牌的电子电器元件，机器运用稳定、敏捷。

Electrical parts of world famous brand have been used. Machine runs fast and stably.

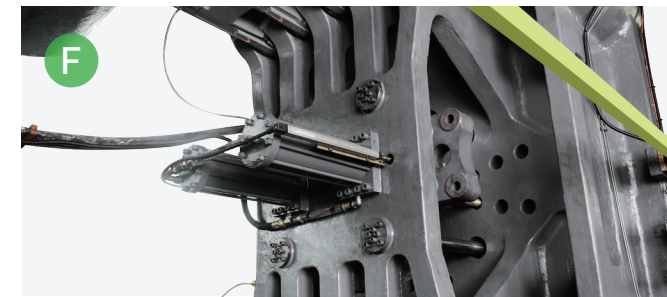


- E** 采用高性能并具有多种功能人机画面专用控制器。

High performance man-machine interface controller with multi function.

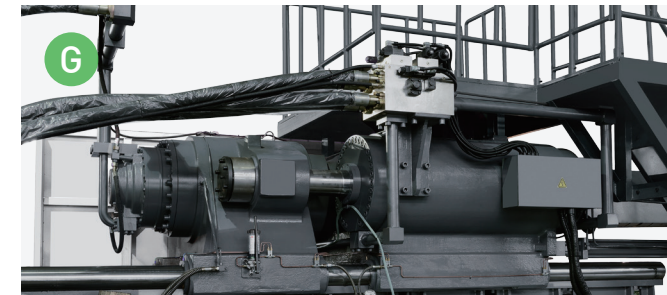
博士后科研项目，实现注射工艺参数自动确定和料缺陷自动修正。智能化控制首次在注塑机领域实现应用。

Post-doctor research project focus on automatic determination of parameter and automatic modification. Intelligent control has been applied in injection machine field for the first time.



- F** 模板设计经过有限元分析，采用支架体铸造结构，大大提高模板刚性。

Mold platens optimized by finite element analysis improved mold rigidity greatly.



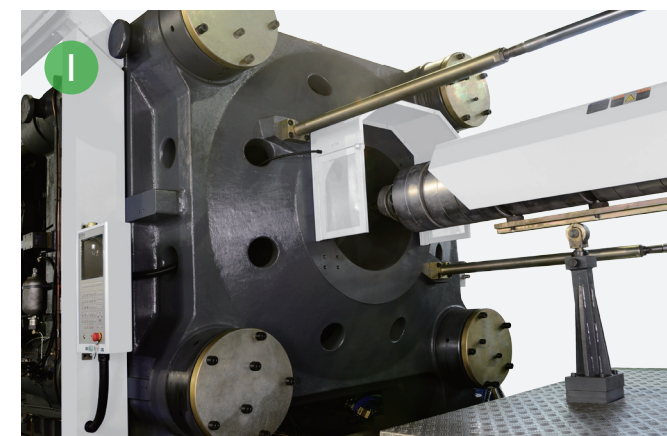
- G** 注塑油缸双头活塞差动装置，使运行快捷 & 节能。

The differential device of injection cylinder with twin piston head, ensures quick motion and energy saving.



- H** 敏捷平稳的调膜机结构。

Adjustment structure with celerity & equation.



- I** 空心球面结构头模板，确保模板使用寿命。

Fixed platen with hollow spherical structure, extended service life.



# NHTX/JD ENERGY-SAVING INJECTION MOLDING MACHINE

## 伺服节能注塑机

### 产品介绍 PRODUCT INTRODUCTION

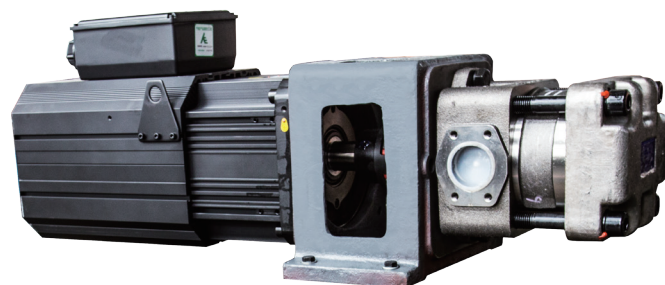
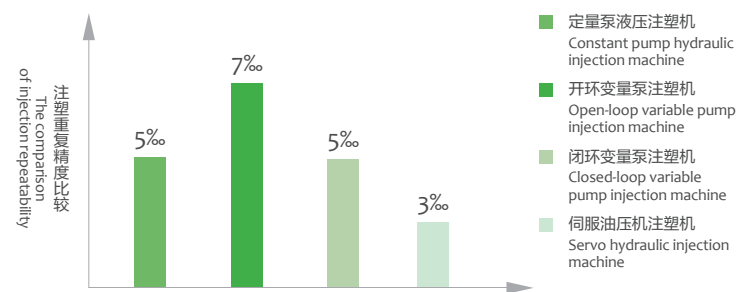
- NHTX/JD 伺服节能注塑机装载了高性能的伺服电机动力控制系统，伺服电机输出的功率随负载变化而变化，不存在多余能量的损耗，保压阶段电机降低转速，能耗极低，冷却阶段电机不工作，能耗为零，提高注射精度的同时，大幅度节电、节水，降低噪音。真正实现了液压注塑机的一次全新革命。

NHTX/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, which reduce energy consumption and noise. The motor rotates at lower speed in holding pressure stage, and doesn't work in cooling time. It realizes a new revolution in the field of injection molding machine.

### 控制精密 SOPHISTICATED CONTROL

- 伺服油压机系统的重复精度能够达到 3‰，相比传统液压动力控制系统重复精度更高，有效保证产品的稳定性，减少次品率。

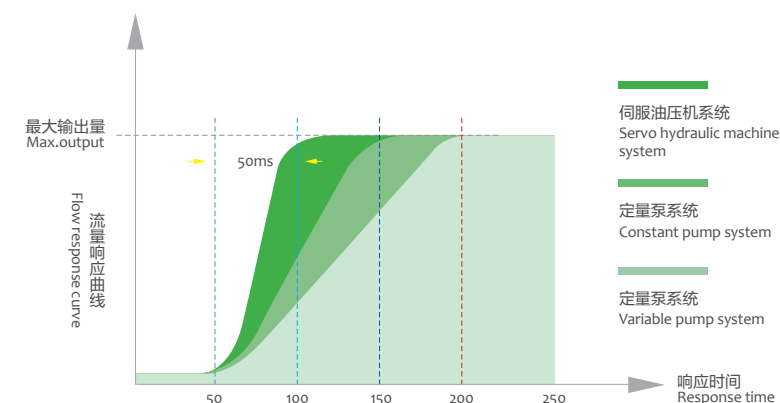
Compared with the traditional hydraulic power control system, the repeatability of servo hydraulic machine system is much higher, and can be achieved by 3‰, it can effectively ensure the stability of products and reduce the defective rate.



### 响应快速 RAPID RESPONSE

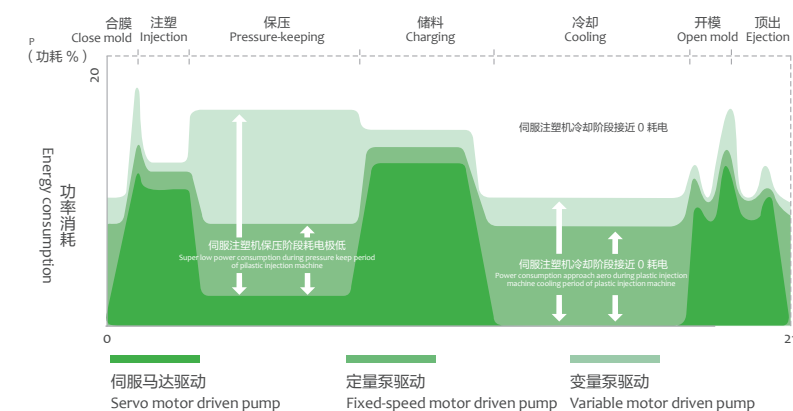
- 伺服油压机的响应时间能够达到 0.05S (0~最大输出量)，相比传统油压动力控制系统响应速度明显加快，有效缩短周期，提高生产效率。

Compared with the traditional hydraulic power control system, the response speed of servo hydraulic machine is significantly faster, the quickest response time of servohydraulic machine can be within 0.05S (0~Max output), it effectively shorten the cycle time and increase the production efficiency.



### 能耗低 LOW ENERGY CONSUMPTION

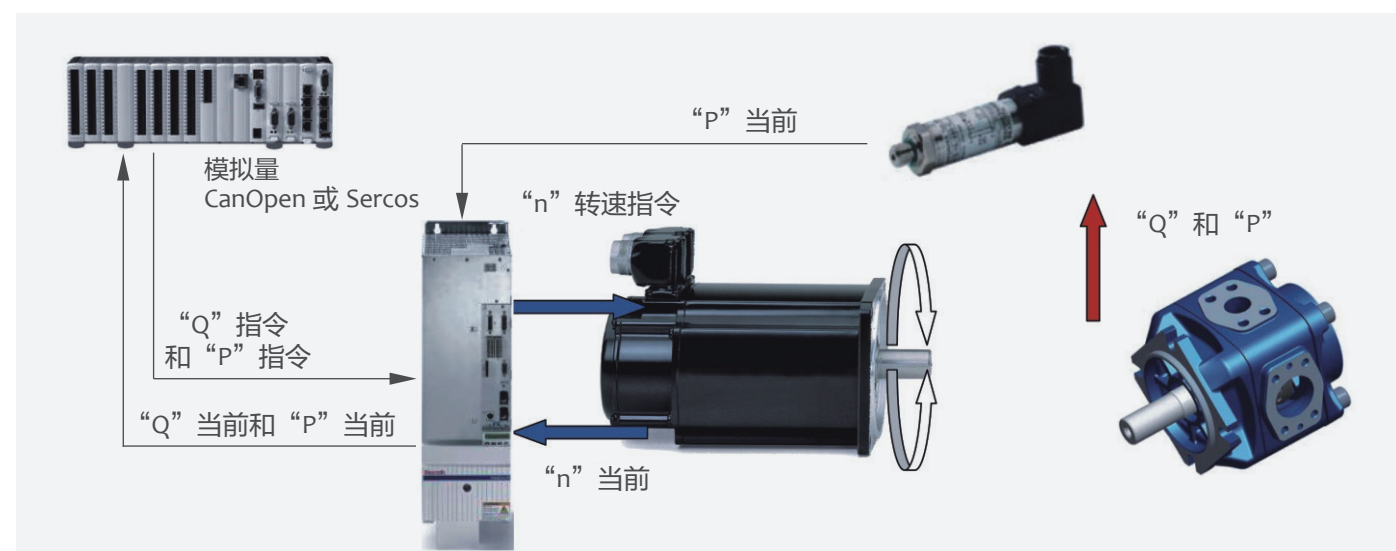
- 伺服油压机输出功率随负载变化而变化，不存在多余能量的浪费。保压阶段伺服电机降低转速，能耗极低，而且在冷却阶段电机不工作，耗电为 0，根据产品不同，安装伺服油压机的注塑机比传统注塑机可节省为电 20%~80%，给您带来真正的省电享受，经济效益显著。



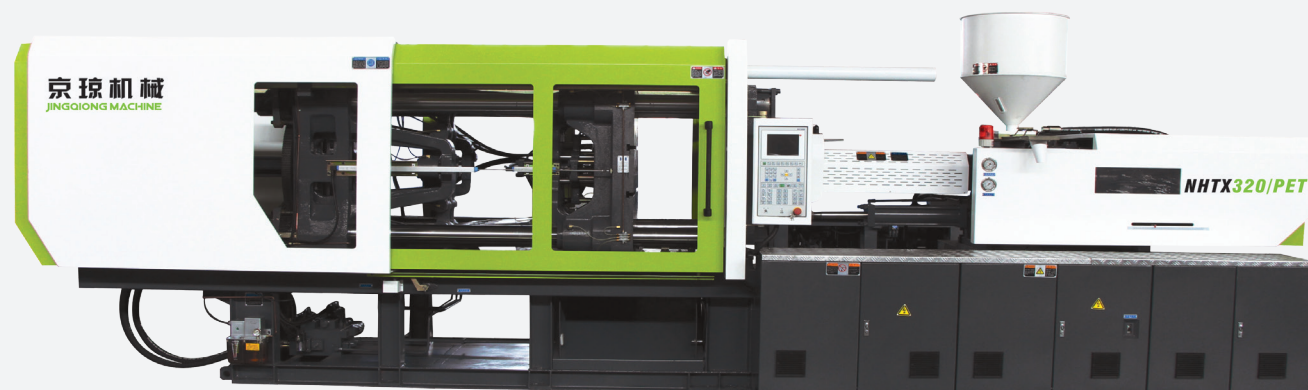
Servo energy-saving injection molding machines: there is no extra energy consumption due to output volume changes according to load alteration. In the phase of holding pressure, servo motor rotates at lower speed and consumes a little of energy. In the phase of cooling, motor doesn't work and consumes no energy. According to different products, servo energy-saving injection molding machines will save 20%-80% energy and bring you prominent economic benefit.



68T-3000T







## NHTX320/PET

### NHTX/PET 系列瓶胚专用机 NHTX/PET SERIES SPECIAL MACHINE

- 优化的螺杆设计，降低了瓶胚的乙醛含量。
- 优良的塑化质量，瓶胚颜色更加均匀，成型更加稳定。
- 根据瓶胚产品特点，多项结构、配置经过优化改进，生产效率更高，工艺更加稳定。

The screw-designed optimum can inject plastic with minimized aldehyde content of bottling.  
Advanced plasticizing quality, uniform color, more stable.  
Some structures are improved and optimized in order to make production efficiently according to product feature.

#### 选配功能

顶出双油路结构，根据模具结构，可以提高生产效率。  
预塑双油路结构，根据模具结构和周边配套设备，可以大幅提高生产效率。

#### OPTION

The ejector double hydraulic circuit structure can raise production efficiently according to mold structure.  
Plasticizing double hydraulic circuit enables high production based on mold structure and other accessories.



### NHTX/UPVC 系列专用机

NHTX/PET  
SERIES SPECIAL MACHINE

- 风冷装置，控制反应迅速，温度准确。
- 新型专用的螺杆结构设计，适合 PVC 的材料性能，塑化，稳定，效果佳。
- 加宽的安全门结构，适合放置长抽芯模具。
- 可配置多组抽芯装置。
- 自动润滑油泵。
- 自动调模装置。

Air cooling device with quick response and accurate temperature control.  
Special designed screw structure for PVC material, character with steady plasticizing.  
Widen safeguard, suitable for mold with long core pulling.  
Multi-core pull is available.  
Auto lubrication pump.  
Auto mold thickness adjustment device is available.



## NHTX280/PVC





# HIGH PERFORMANCE RAPID INJECTION MOLDING MACHINE

NHTF 系列高性能快速注塑机

■ 注射速度  
INJECTION RATE

150 mm/s

■ 注射压力  
INJECTION PRESSURE

200 Mpa

■ 注射速率  
INJECTION RATE

300 mm/s



- NHTF 系列高性能快速注塑机配备优化设计的液压系统，注射速度可达到 150mm/s，注射压力可达到 200Mpa 以上，可配置蓄能器装置，注射速率可达到 300mm/s，有效节省生产周期，提高生产效率，完全胜任薄壁产品的生产，适合薄壁航空杯，磁卡等高精度薄壁产品的应用。

NHTF series high-speed plastic injection machine adopts optimized hydraulic system. The injection rate can reach to 150mm/s and injection pressure can reach to 200Mpa. When it works with the assistant of an accumulator, the injection rate will be at 300mm/s which save cycle time and improve efficiency. It's suitable for the application of thin wall products, like thin-wall cup, magcard, etc.

## ■ 产品应用

PRODUCT APPLICATION





# SANDWICH / MIXED COLOR INJECTION MOLDING MACHINE

NHTS178 夹层 / 混色共用注塑机

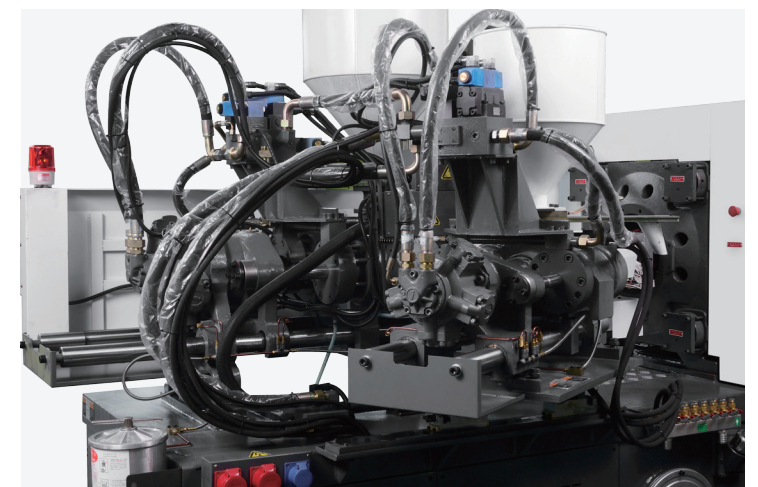
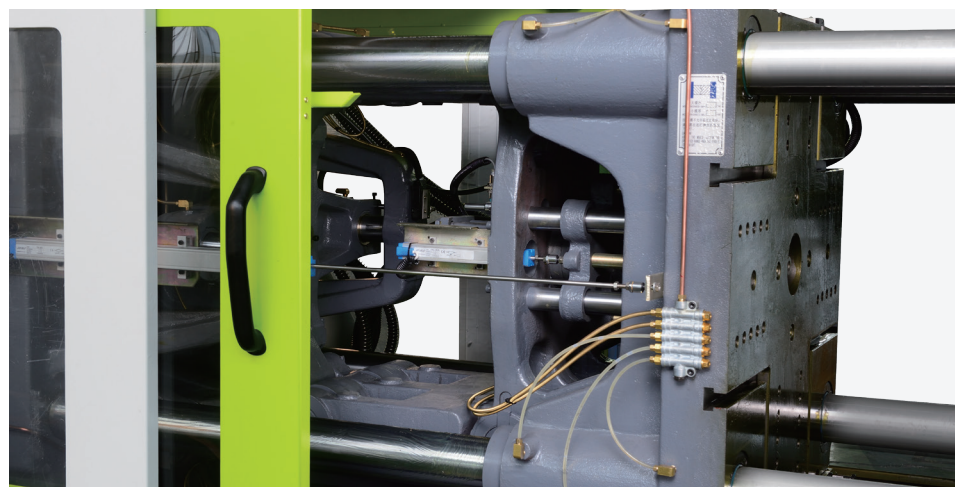
- 两组独立注射单元，具备多种注射模式可供选择，可根据需求按顺序单独注射，也可同时注射。可用于单色生产，也可不同颜色不同透明度塑料混合生产。同时某些产品通过表层注射高品质料，核心层注射二次回收料，可减少残余应力，提高产品强度，降低生产成本。动力配置两组伺服控制系统，即可满足精密注射，又可降低能耗。

Sandwich co-injection molding is one of the newly developed injection molding methods. To accomplish such a molding method, an additional barrel is added to a traditional plastic injection molding machine to form an independent double barrel with specially designed nozzle. Two independent injection unit and multi injection mode are available for independent injection and simultaneous injection, and it is also available for products of single color and mix color. Some products could be done by surface of high quality material and core of recycled material. Internal stress is reduced, tensile strength is improved and production cost is lowered. Servo system is installed to meet high precision injection and realizes the energy saving.



NHTS178

## 产品局部 PRODUCT PART



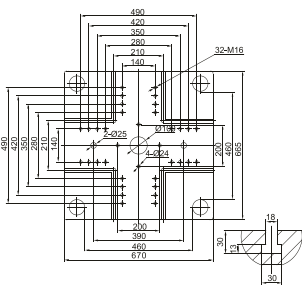
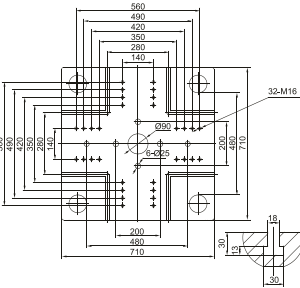
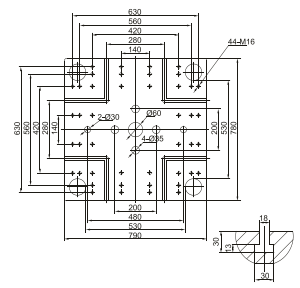
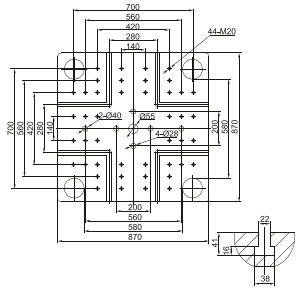
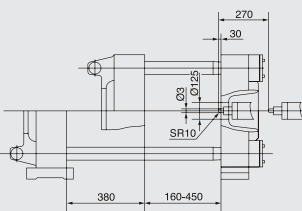
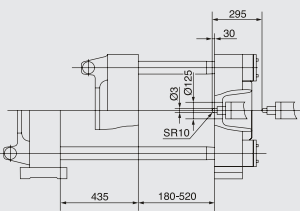
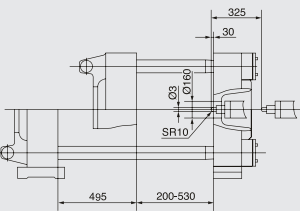
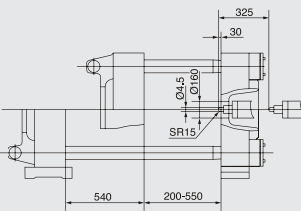


TECHNICAL PARAMETERS ①

技术参数

| 规格 Specification |                                  | CN    | NHTX68         |     |      | NHTX90         |     |      | NHTX110        |     |      |
|------------------|----------------------------------|-------|----------------|-----|------|----------------|-----|------|----------------|-----|------|
| 项目 Item          |                                  |       | A              | B   | C    | A              | B   | C    | A              | B   | C    |
| 注射装置             | INJECTION UNIT                   |       |                |     |      |                |     |      |                |     |      |
| 螺杆直径             | Screw diameter                   | mm    | 26             | 30  | 32   | 30             | 32  | 35   | 32             | 35  | 38   |
| 螺杆长径比            | Screw l/d ratio                  | L / D | 25.4           | 22  | 20.6 | 23.5           | 22  | 20.1 | 24.1           | 22  | 20.2 |
| 理论注射容量           | Shot volume (theoretical)        | cm³   | 67.6           | 90  | 102  | 117            | 133 | 158  | 137            | 163 | 192  |
| 注射重量             | Injection weight(ps)             | g     | 61.4           | 82  | 93   | 106            | 121 | 144  | 125            | 148 | 175  |
| 注射速率             | Injection rate                   | g / s | 55             | 73  | 83   | 71             | 81  | 97   | 74             | 89  | 105  |
| 注射压力             | Injection pressure               | MPa   | 227            | 170 | 150  | 230            | 203 | 170  | 260            | 219 | 186  |
| 螺杆转速             | Screw speed                      | rpm   | 195            |     |      | 240            |     |      | 210            |     |      |
| 合模装置             | CLAMPING UNIT                    |       |                |     |      |                |     |      |                |     |      |
| 合模力              | Clamping force                   | KN    | 680            |     |      | 900            |     |      | 1100           |     |      |
| 移模行程             | Open stroke                      | mm    | 280            |     |      | 320            |     |      | 350            |     |      |
| 拉杆间距 (宽 * 高)     | Space between tie bars ( w * h ) | mm    | 310x310        |     |      | 360x360        |     |      | 410x410        |     |      |
| 最大模厚             | Max.Mold height                  | mm    | 320            |     |      | 350            |     |      | 380            |     |      |
| 最小模厚             | Min.Mold height                  | mm    | 100            |     |      | 150            |     |      | 150            |     |      |
| 顶出行程             | Ejector stroke                   | mm    | 80             |     |      | 90             |     |      | 100            |     |      |
| 顶出力              | Ejector force                    | KN    | 28             |     |      | 30             |     |      | 38             |     |      |
| 其它               | OTHERS                           |       |                |     |      |                |     |      |                |     |      |
| 最大油泵压力           | Max.pump pressure                | MPa   | 16             |     |      | 16             |     |      | 16             |     |      |
| 油泵马达功率           | Pump motor power                 | KW    | 7.5            |     |      | 11             |     |      | 13             |     |      |
| 电热功率             | Heating power                    | KW    | 6.8            |     |      | 7.55           |     |      | 8.2            |     |      |
| 外形尺寸 (长 * 宽 * 高) | Machine dimension ( l * w * h )  | m     | 3.65x1.13x1.73 |     |      | 3.81x1.19x1.79 |     |      | 4.15x1.12x2.00 |     |      |
| 油箱容积             | Oiltank cubage                   | L     | 135            |     |      | 180            |     |      | 200            |     |      |
| 机器重量             | Machine weight                   | t     | 2.5            |     |      | 2.9            |     |      | 3.4            |     |      |
| 模板正面尺寸           | Platen Dimension                 |       |                |     |      |                |     |      |                |     |      |

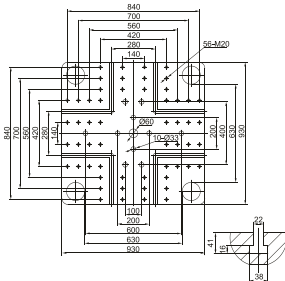
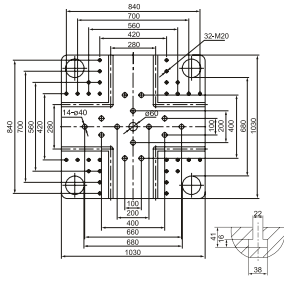
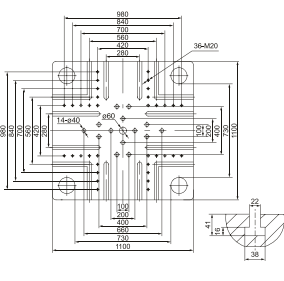
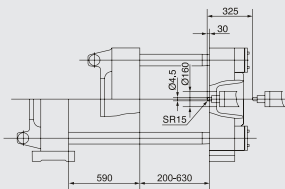
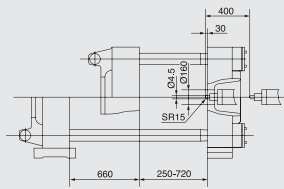
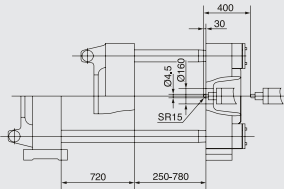
伺服电动机功率以出厂机器为标准。  
The servo motor power will be according to factory standard.

| NHTX140                                                                               |     |      | NHTX160                                                                               |     |      | NHTX200                                                                               |     |     | NHTX250                                                                               |     |      |
|---------------------------------------------------------------------------------------|-----|------|---------------------------------------------------------------------------------------|-----|------|---------------------------------------------------------------------------------------|-----|-----|---------------------------------------------------------------------------------------|-----|------|
| A                                                                                     | B   | C    | A                                                                                     | B   | C    | A                                                                                     | B   | C   | A                                                                                     | B   | C    |
| 38                                                                                    | 42  | 45   | 42                                                                                    | 45  | 50   | 45                                                                                    | 50  | 55  | 50                                                                                    | 55  | 60   |
| 24.3                                                                                  | 22  | 20.5 | 23.6                                                                                  | 22  | 19.8 | 24.5                                                                                  | 22  | 20  | 24.2                                                                                  | 22  | 20.2 |
| 193                                                                                   | 235 | 270  | 305                                                                                   | 350 | 432  | 340                                                                                   | 420 | 510 | 455                                                                                   | 550 | 655  |
| 176                                                                                   | 213 | 246  | 277                                                                                   | 319 | 393  | 310                                                                                   | 383 | 466 | 416                                                                                   | 503 | 600  |
| 94                                                                                    | 115 | 132  | 138                                                                                   | 160 | 196  | 124                                                                                   | 154 | 186 | 187                                                                                   | 227 | 270  |
| 205                                                                                   | 170 | 147  | 203                                                                                   | 177 | 143  | 207                                                                                   | 168 | 139 | 205                                                                                   | 169 | 142  |
| 190                                                                                   |     |      | 190                                                                                   |     |      | 170                                                                                   |     |     | 180                                                                                   |     |      |
| 1400                                                                                  |     |      | 1600                                                                                  |     |      | 2000                                                                                  |     |     | 2500                                                                                  |     |      |
| 380                                                                                   |     |      | 435                                                                                   |     |      | 495                                                                                   |     |     | 540                                                                                   |     |      |
| 460x460                                                                               |     |      | 480x480                                                                               |     |      | 530x530                                                                               |     |     | 580x580                                                                               |     |      |
| 450                                                                                   |     |      | 520                                                                                   |     |      | 530                                                                                   |     |     | 550                                                                                   |     |      |
| 160                                                                                   |     |      | 180                                                                                   |     |      | 200                                                                                   |     |     | 200                                                                                   |     |      |
| 120                                                                                   |     |      | 135                                                                                   |     |      | 140                                                                                   |     |     | 150                                                                                   |     |      |
| 50                                                                                    |     |      | 50                                                                                    |     |      | 70                                                                                    |     |     | 70                                                                                    |     |      |
| 16                                                                                    |     |      | 16                                                                                    |     |      | 16                                                                                    |     |     | 16                                                                                    |     |      |
| 13                                                                                    |     |      | 18.5                                                                                  |     |      | 18.5                                                                                  |     |     | 22                                                                                    |     |      |
| 9.2                                                                                   |     |      | 12.5                                                                                  |     |      | 13.6                                                                                  |     |     | 15                                                                                    |     |      |
| 4.51x1.16x1.87                                                                        |     |      | 4.86x1.30x2.10                                                                        |     |      | 5.22x1.60x2.21                                                                        |     |     | 5.82x1.60x2.24                                                                        |     |      |
| 265                                                                                   |     |      | 300                                                                                   |     |      | 300                                                                                   |     |     | 380                                                                                   |     |      |
| 4.0                                                                                   |     |      | 5.4                                                                                   |     |      | 6.4                                                                                   |     |     | 7.5                                                                                   |     |      |
|  |     |      |  |     |      |  |     |     |  |     |      |
|  |     |      |  |     |      |  |     |     |  |     |      |

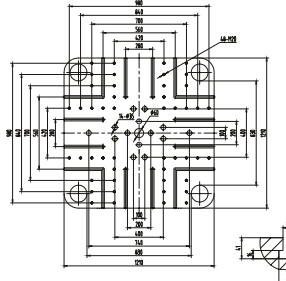
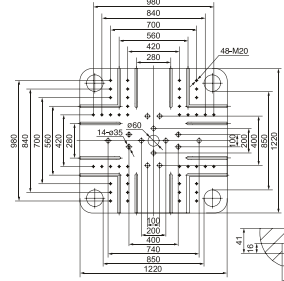
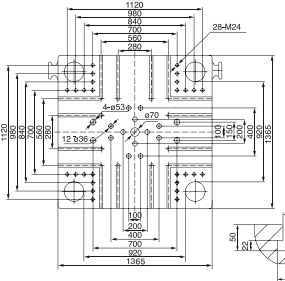
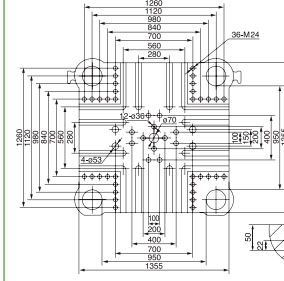
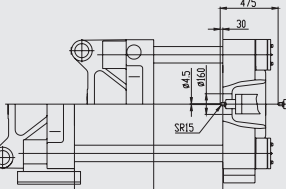
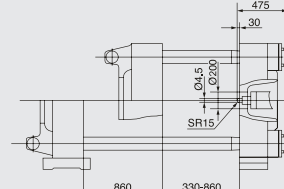
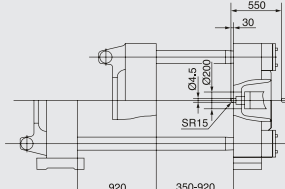
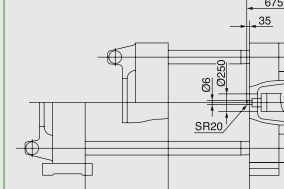


# TECHNICAL PARAMETERS ②

## 技术参数

| 规格 Specification |                                  | CN    | NHTX280                                                                             |     |       | NHTX320                                                                              |      |      | NHTX400                                                                               |      |      |
|------------------|----------------------------------|-------|-------------------------------------------------------------------------------------|-----|-------|--------------------------------------------------------------------------------------|------|------|---------------------------------------------------------------------------------------|------|------|
| 项目 Item          |                                  |       | 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    | 67                                                                                   | 70   | 75   | 70                                                                                    | 75   | 80   |
| 螺杆长径比            | Screw l/d ratio                  | L / D | 24                                                                                  | 22  | 20.3  | 23                                                                                   | 22   | 20.5 | 23.6                                                                                  | 22   | 20.6 |
| 理论注射容量           | Shot volume (theoretical)        | cm³   | 676                                                                                 | 805 | 945   | 1181                                                                                 | 1289 | 1480 | 1500                                                                                  | 1723 | 1960 |
| 注射重量             | Injection weight(ps)             | g     | 615                                                                                 | 732 | 859   | 1076                                                                                 | 1175 | 1349 | 1365                                                                                  | 1567 | 1784 |
| 注射速率             | Injection rate                   | g / s | 223.5                                                                               | 266 | 312.2 | 337                                                                                  | 368  | 422  | 344                                                                                   | 395  | 449  |
| 注射压力             | Injection pressure               | MPa   | 200                                                                                 | 168 | 143   | 183                                                                                  | 168  | 146  | 199                                                                                   | 173  | 152  |
| 螺杆转速             | Screw speed                      | rpm   | 220                                                                                 |     |       | 195                                                                                  |      |      | 150                                                                                   |      |      |
| 合模装置             | CLAMPING UNIT                    |       |                                                                                     |     |       |                                                                                      |      |      |                                                                                       |      |      |
| 合模力              | Clamping force                   | KN    | 2800                                                                                |     |       | 3200                                                                                 |      |      | 4000                                                                                  |      |      |
| 移模行程             | Open stroke                      | mm    | 590                                                                                 |     |       | 660                                                                                  |      |      | 720                                                                                   |      |      |
| 拉杆间距 (宽 * 高)     | Space between tie bars ( w * h ) | mm    | 630x630                                                                             |     |       | 680x680                                                                              |      |      | 730x730                                                                               |      |      |
| 最大模厚             | Max.Mold height                  | mm    | 630                                                                                 |     |       | 720                                                                                  |      |      | 780                                                                                   |      |      |
| 最小模厚             | Min.Mold height                  | mm    | 200                                                                                 |     |       | 250                                                                                  |      |      | 250                                                                                   |      |      |
| 顶出行程             | Ejector stroke                   | mm    | 150                                                                                 |     |       | 160                                                                                  |      |      | 190                                                                                   |      |      |
| 顶出力              | Ejector force                    | KN    | 70                                                                                  |     |       | 70                                                                                   |      |      | 110                                                                                   |      |      |
| 其它               | OTHERS                           |       |                                                                                     |     |       |                                                                                      |      |      |                                                                                       |      |      |
| 最大油泵压力           | Max.pump pressure                | MPa   | 16                                                                                  |     |       | 16                                                                                   |      |      | 16                                                                                    |      |      |
| 油泵马达功率           | Pump motor power                 | KW    | 30                                                                                  |     |       | 37                                                                                   |      |      | 45                                                                                    |      |      |
| 电热功率             | Heating power                    | KW    | 18.3                                                                                |     |       | 24.7                                                                                 |      |      | 29.3                                                                                  |      |      |
| 外形尺寸 (长 * 宽 * 高) | Machine dimension ( l * w * h )  | m     | 6.11x1.81x2.41                                                                      |     |       | 7.08x1.99x2.38                                                                       |      |      | 7.56x2.00x2.52                                                                        |      |      |
| 油箱容积             | Oiltank cubage                   | L     | 390                                                                                 |     |       | 680                                                                                  |      |      | 770                                                                                   |      |      |
| 机器重量             | Machine weight                   | t     | 8.8                                                                                 |     |       | 12.8                                                                                 |      |      | 15.4                                                                                  |      |      |
| 模板正面尺寸           | Platen Dimension                 |       |  |     |       |  |      |      |  |      |      |
| 模板侧面尺寸           | Mold Space Dimension             |       |  |     |       |  |      |      |  |      |      |

伺服电动机功率以出厂机器为标准。  
The servo motor power will be according to factory standard.

| NHTX500                                                                               |      |      |      | NHTX550                                                                               |      |      |      | NHTX680                                                                               |      |      |      | NHTX730                                                                               |      |      |      |
|---------------------------------------------------------------------------------------|------|------|------|---------------------------------------------------------------------------------------|------|------|------|---------------------------------------------------------------------------------------|------|------|------|---------------------------------------------------------------------------------------|------|------|------|
| A                                                                                     | B    | C    | D    | A                                                                                     | B    | C    | D    | A                                                                                     | B    | C    | D    | A                                                                                     | B    | C    | D    |
| 75                                                                                    | 80   | 85   | 90   | 80                                                                                    | 85   | 90   | 95   | 90                                                                                    | 95   | 100  | 105  | 90                                                                                    | 95   | 105  | 110  |
| 23.7                                                                                  | 22   | 20.7 | 19.5 | 23.4                                                                                  | 22   | 20.7 | 19.6 | 23.3                                                                                  | 22   | 20.7 | 19.9 | 23.2                                                                                  | 22   | 19.9 | 19   |
| 1727                                                                                  | 1965 | 2218 | 2487 | 2215                                                                                  | 2500 | 2802 | 3122 | 2544                                                                                  | 2835 | 3140 | 3461 | 2925                                                                                  | 3258 | 3980 | 4369 |
| 1560                                                                                  | 1788 | 2018 | 2266 | 2015                                                                                  | 2275 | 2550 | 2841 | 2315                                                                                  | 2580 | 2858 | 3149 | 2662                                                                                  | 2965 | 3622 | 3975 |
| 386                                                                                   | 442  | 499  | 560  | 429                                                                                   | 484  | 543  | 604  | 552                                                                                   | 612  | 679  | 748  | 587                                                                                   | 654  | 798  | 877  |
| 191                                                                                   | 168  | 148  | 132  | 184                                                                                   | 163  | 145  | 130  | 184                                                                                   | 165  | 149  | 135  | 195                                                                                   | 175  | 143  | 130  |
| 130                                                                                   |      |      |      | 130                                                                                   |      |      |      | 150                                                                                   |      |      |      | 115                                                                                   |      |      |      |
|                                                                                       |      |      |      |                                                                                       |      |      |      |                                                                                       |      |      |      |                                                                                       |      |      |      |
| 5000                                                                                  |      |      |      | 5500                                                                                  |      |      |      | 6800                                                                                  |      |      |      | 7300                                                                                  |      |      |      |
| 770                                                                                   |      |      |      | 860                                                                                   |      |      |      | 920                                                                                   |      |      |      | 950                                                                                   |      |      |      |
| 830x830                                                                               |      |      |      | 850X850                                                                               |      |      |      | 920x920                                                                               |      |      |      | 950x950                                                                               |      |      |      |
| 810                                                                                   |      |      |      | 860                                                                                   |      |      |      | 920                                                                                   |      |      |      | 960                                                                                   |      |      |      |
| 330                                                                                   |      |      |      | 330                                                                                   |      |      |      | 350                                                                                   |      |      |      | 400                                                                                   |      |      |      |
| 240                                                                                   |      |      |      | 240                                                                                   |      |      |      | 260                                                                                   |      |      |      | 280                                                                                   |      |      |      |
| 150                                                                                   |      |      |      | 150                                                                                   |      |      |      | 210                                                                                   |      |      |      | 210                                                                                   |      |      |      |
|                                                                                       |      |      |      |                                                                                       |      |      |      |                                                                                       |      |      |      |                                                                                       |      |      |      |
| 16                                                                                    |      |      |      | 16                                                                                    |      |      |      | 16                                                                                    |      |      |      | 16                                                                                    |      |      |      |
| 55                                                                                    |      |      |      | 55                                                                                    |      |      |      | 30+37                                                                                 |      |      |      | 37+37                                                                                 |      |      |      |
| 33                                                                                    |      |      |      | 40                                                                                    |      |      |      | 49                                                                                    |      |      |      | 59.1                                                                                  |      |      |      |
| 7.74x1.89x2.69                                                                        |      |      |      | 8.6x2.1x2.7                                                                           |      |      |      | 10.65x2.37x2.63                                                                       |      |      |      | 11.15x2.33x3.55                                                                       |      |      |      |
| 900                                                                                   |      |      |      | 900                                                                                   |      |      |      | 1040                                                                                  |      |      |      | 1200                                                                                  |      |      |      |
| 19                                                                                    |      |      |      | 21                                                                                    |      |      |      | 28                                                                                    |      |      |      | 35.5                                                                                  |      |      |      |
|  |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |
|  |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |

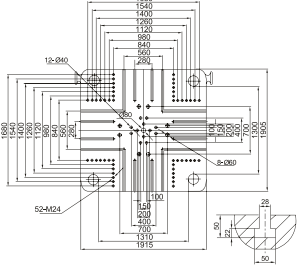
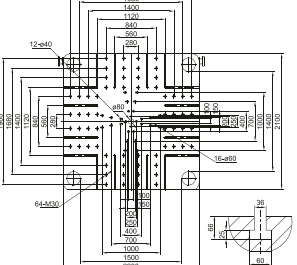
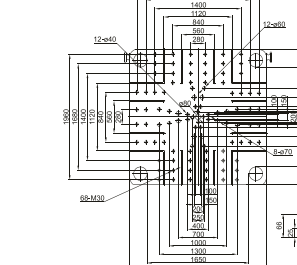
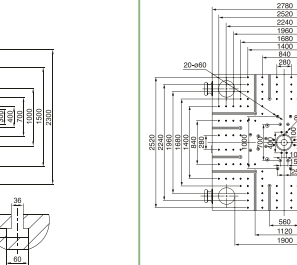
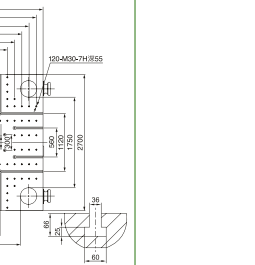
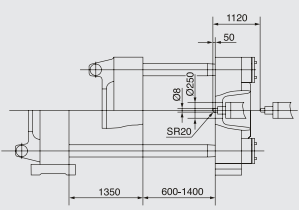
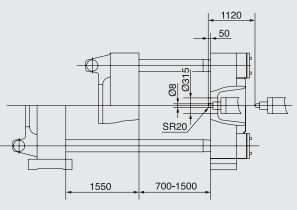
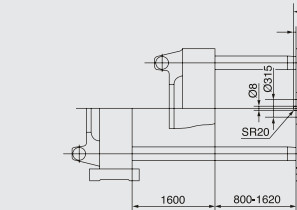
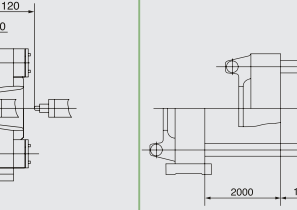
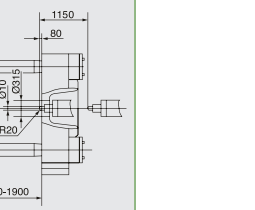


# TECHNICAL PARAMETERS ③

## 技术参数

| 规格 Specification |                                  | CN    | NHTX780         |      |      |      | NHTX1000        |      |      |      | NHTX1250     |      |      |      |
|------------------|----------------------------------|-------|-----------------|------|------|------|-----------------|------|------|------|--------------|------|------|------|
| 项目 Item          |                                  |       | 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   | 105  | 110  | 90              | 100  | 110  | 115  | 110          | 115  | 120  | 125  |
| 螺杆长径比            | Screw l/d ratio                  | L / D | 23.2            | 22   | 19.9 | 19   | 25.5            | 23   | 20.9 | 20   | 23           | 22   | 21   | 20.2 |
| 理论注射容量           | Shot volume (theoretical)        | cm³   | 2925            | 3258 | 3980 | 4369 | 2988            | 3689 | 4464 | 4879 | 5270         | 5760 | 6272 | 6805 |
| 注射重量             | Injection weight(ps)             | g     | 2662            | 2965 | 3622 | 3975 | 2719            | 3356 | 4062 | 4440 | 4796         | 5242 | 5707 | 6193 |
| 注射速率             | Injection rate                   | g / s | 587             | 654  | 798  | 877  | 590             | 729  | 880  | 960  | 793          | 867  | 944  | 1024 |
| 注射压力             | Injection pressure               | MPa   | 195             | 175  | 143  | 130  | 216             | 176  | 146  | 133  | 186          | 170  | 156  | 144  |
| 螺杆转速             | Screw speed                      | rpm   | 115             |      |      |      | 100             |      |      |      | 90           |      |      |      |
| 合模装置             | CLAMPING UNIT                    |       |                 |      |      |      |                 |      |      |      |              |      |      |      |
| 合模力              | Clamping force                   | KN    | 7800            |      |      |      | 10000           |      |      |      | 12500        |      |      |      |
| 移模行程             | Open stroke                      | mm    | 980             |      |      |      | 1120            |      |      |      | 1320         |      |      |      |
| 拉杆间距 (宽 * 高)     | Space between tie bars ( w * h ) | mm    | 980x980         |      |      |      | 1080x1080       |      |      |      | 1250x1250    |      |      |      |
| 最大模厚             | Max.Mold height                  | mm    | 1000            |      |      |      | 1100            |      |      |      | 1300         |      |      |      |
| 最小模厚             | Min.Mold height                  | mm    | 400             |      |      |      | 400             |      |      |      | 550          |      |      |      |
| 顶出行程             | Ejector stroke                   | mm    | 280             |      |      |      | 325             |      |      |      | 380          |      |      |      |
| 顶出力              | Ejector force                    | KN    | 210             |      |      |      | 210             |      |      |      | 245          |      |      |      |
| 其它               | OTHERS                           |       |                 |      |      |      |                 |      |      |      |              |      |      |      |
| 最大油泵压力           | Max.pump pressure                | MPa   | 16              |      |      |      | 16              |      |      |      | 16           |      |      |      |
| 油泵马达功率           | Pump motor power                 | KW    | 37+37           |      |      |      | 37+45           |      |      |      | 45+55        |      |      |      |
| 电热功率             | Heating power                    | KW    | 59.1            |      |      |      | 63.9            |      |      |      | 74.4         |      |      |      |
| 外形尺寸 (长 * 宽 * 高) | Machine dimension ( l * w * h )  | m     | 11.34x2.39x2.55 |      |      |      | 12.10x2.51x2.95 |      |      |      | 12.9x2.7x3.3 |      |      |      |
| 油箱容积             | Oil tank cubage                  | L     | 1250            |      |      |      | 1700            |      |      |      | 2100         |      |      |      |
| 机器重量             | Machine weight                   | t     | 38              |      |      |      | 42              |      |      |      | 59           |      |      |      |
| 模板正面尺寸           | Platen Dimension                 |       |                 |      |      |      |                 |      |      |      |              |      |      |      |

伺服电动机功率以出厂机器为标准。  
The servo motor power will be according to factory standard.

| NHTX1500                                                                              |      |      |       | NHTX1800                                                                              |      |       |       | NHTX2200A                                                                             |       |       |       | NHTX2200B                                                                             |       |       | NHTX3000                                                                              |       |       |
|---------------------------------------------------------------------------------------|------|------|-------|---------------------------------------------------------------------------------------|------|-------|-------|---------------------------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------|-------|-------|---------------------------------------------------------------------------------------|-------|-------|
| A                                                                                     | B    | C    | D     | A                                                                                     | B    | C     | D     | A                                                                                     | B     | C     | D     | A                                                                                     | B     | C     | A                                                                                     | B     | C     |
| 110                                                                                   | 120  | 130  | 140   | 120                                                                                   | 130  | 140   | 150   | 130                                                                                   | 140   | 150   | 160   | 150                                                                                   | 160   | 180   | 180                                                                                   | 210   | 220   |
| 25.7                                                                                  | 24   | 22   | 20    | 25.4                                                                                  | 23.4 | 21.7  | 18.9  | 25.9                                                                                  | 24    | 22.4  | 20.9  | 25.9                                                                                  | 24    | 22    | 24                                                                                    | 24    | 22.9  |
| 6269                                                                                  | 7460 | 8755 | 10150 | 7460                                                                                  | 8755 | 10150 | 11655 | 9680                                                                                  | 11230 | 12890 | 14670 | 18360                                                                                 | 20890 | 26450 | 29390                                                                                 | 40003 | 43904 |
| 5705                                                                                  | 6789 | 7967 | 9236  | 6789                                                                                  | 7967 | 9236  | 10606 | 8808                                                                                  | 10219 | 11730 | 13350 | 16708                                                                                 | 19000 | 24060 | 26745                                                                                 | 36402 | 39953 |
| 790                                                                                   | 940  | 1102 | 1280  | 1056                                                                                  | 1240 | 1438  | 1650  | 1172                                                                                  | 1360  | 1560  | 1776  | 1230                                                                                  | 1400  | 1780  | 1468                                                                                  | 2000  | 2200  |
| 205                                                                                   | 172  | 146  | 126   | 179                                                                                   | 152  | 131   | 114   | 184                                                                                   | 159   | 138   | 122   | 190                                                                                   | 168   | 132   | 210                                                                                   | 155   | 141   |
| 90                                                                                    |      |      |       | 85                                                                                    |      |       |       | 70                                                                                    |       |       |       | 65                                                                                    |       |       | 50                                                                                    |       |       |
| 15000                                                                                 |      |      |       | 18000                                                                                 |      |       |       | 22000                                                                                 |       |       |       | 30000                                                                                 |       |       |                                                                                       |       |       |
| 1350                                                                                  |      |      |       | 1550                                                                                  |      |       |       | 1810                                                                                  |       |       |       | 2000                                                                                  |       |       |                                                                                       |       |       |
| 1310x1300                                                                             |      |      |       | 1500x1400                                                                             |      |       |       | 1750x1600                                                                             |       |       |       | 1900x1750                                                                             |       |       |                                                                                       |       |       |
| 1400                                                                                  |      |      |       | 1500                                                                                  |      |       |       | 1700                                                                                  |       |       |       | 1900                                                                                  |       |       |                                                                                       |       |       |
| 600                                                                                   |      |      |       | 700                                                                                   |      |       |       | 750                                                                                   |       |       |       | 1000                                                                                  |       |       |                                                                                       |       |       |
| 360                                                                                   |      |      |       | 420                                                                                   |      |       |       | 420                                                                                   |       |       |       | 450                                                                                   |       |       |                                                                                       |       |       |
| 260                                                                                   |      |      |       | 400                                                                                   |      |       |       | 490                                                                                   |       |       |       | 565                                                                                   |       |       |                                                                                       |       |       |
| 16                                                                                    |      |      |       | 16                                                                                    |      |       |       | 16                                                                                    |       |       |       | 16                                                                                    |       |       |                                                                                       |       |       |
| 55+55                                                                                 |      |      |       | 45+45+45                                                                              |      |       |       | 55+55+55                                                                              |       |       |       | 55+55+55+55                                                                           |       |       |                                                                                       |       |       |
| 81.9                                                                                  |      |      |       | 94.9                                                                                  |      |       |       | 114.5                                                                                 |       |       |       | 204.5                                                                                 |       |       |                                                                                       |       |       |
| 14.78x2.84x4.13                                                                       |      |      |       | 16.31x3.07x4.17                                                                       |      |       |       | 21.3x3.4x4.3                                                                          |       |       |       | 22.20x4.71x4.32                                                                       |       |       |                                                                                       |       |       |
| 2900                                                                                  |      |      |       | 3000                                                                                  |      |       |       | 3700                                                                                  |       |       |       | 4500                                                                                  |       |       |                                                                                       |       |       |
| 83                                                                                    |      |      |       | 123                                                                                   |      |       |       | 137                                                                                   |       |       |       | 200                                                                                   |       |       |                                                                                       |       |       |
|  |      |      |       |  |      |       |       |  |       |       |       |  |       |       |  |       |       |
|  |      |      |       |  |      |       |       |  |       |       |       |  |       |       |  |       |       |



# STANDARD CONFIGURATION

## 标准配置

### ► 锁模配置 CLAMPING

- 5 点双曲肘  
5Point double toggle
- 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）  
Mechanical, electrical, hydraulic triple chain security protection (large, medium machine); hydraulic mechanical security chain to protection (small machine)
- 低压模具保护装置  
Low pressure mold protection device
- 多段开关模压力、速度、位置控制  
Multi-stage pressure, speed and position control
- 多种液压顶出和震动模式  
A variety of hydraulic ejection mode and vibration mode
- 强化处理动模板移动耐磨轨道  
Strengthening moving platen wearable rail
- 模具冷却水分流器  
Mold cooling water distributor
- 自动集中润滑系统（容积式定量）  
Automatic centralized lubrication system(volume of quantitative)
- 快速合模差动装置  
Fast-mold differential device
- 开关模刹车装置  
Open / close mold brakes device
- 液压油马达驱动齿圈调模  
Hydraulic oil motor drives gear model
- 拉杆特殊工艺处理，强度可靠  
Special handing on tie bars, reliable strength
- 开关模、顶出位置尺控制  
Electric ruler for open / close mold and ejection
- 自动调模功能  
Automatic adjustment structure
- 可调节式动模板滑脚  
Adjustable moving platen sliding feet

### ► 注射配置 INJECTION

- 双缸平衡注射装置  
Balance cylinder injection unit
- 多级注射速度、压力设定  
Multi-stage injection speed and pressure setting
- 多级保压速度、压力设定  
MULTi-level hoding speed and pressure setting
- 多级储料速度、压力设定  
Multi-level refilling speed,pressure setting
- 注射转保压起点控制  
Injection switch to holding control
- 注射位置检测控制  
Injection position detection control
- 注射位置尺控制  
Injection device control position
- 螺杆冷却启动（防止）功能  
Anti-cold start (prevention) of screw
- 射出防护罩  
Injection cover
- 3 种模式座退选择功能  
3-Mode carriage retreat mode
- 自动清料功能  
Auto-purge function
- 高扭力油马达驱动螺杆预塑装置  
High-torque motor-driven plasticizing unit
- 螺杆倒索防流涎装置  
Decompression device
- 3 种或 4 种直径螺杆、料筒  
Three or four kinds of screw and barrel
- 料筒温度 PID 控制  
Barrel PID temperature control
- 储料背压调节功能  
Back pressure regulation
- 料筒加热安全防护罩  
Safety cover for heating of barrel
- 喷嘴对中调节装置  
Nozzle regulation device

### ► 液压装置 HYDRAULICS

- 高精度吸油过滤器  
High-precision suction filter
- 油温偏差报警功能  
Alarm for oil temperature deviations function
- 油箱油液位置监测  
Oil level monitoring function
- 液压油冷却装置  
Cooling device for hydraulic oil
- 电控配置 ELECTRIC
- 工艺参数预设设定  
Pre-set technical parameters
- 机械手电气接口  
Robot interface
- 参数资料保护锁  
Data protection lock for parameters
- 彩色 LCD 显示屏  
Color LCD screen
- 电脑内存模具记忆功能可达 99 组  
Computer memory mold data Up to 99 groups
- 实时监测显示各动作运行情况  
Real-time monitoring showed Movements of the machine
- 异常报警功能  
Abnormal alarm function
- 温度偏差显示及自动校正  
The temperature deviations and automatic correction
- 电机安全保护装置  
Motor safety protection device
- 系统硬件 I/O 监测功能  
System hardware I/O detection function
- 外供预留电源插头 3 组  
Three sockets for power supply
- 彩色报警灯  
Color warning light
- 紧急停止保护装置  
Emergency stop protection device

### ► 选用配置 OPTIONAL CONFIGURATION

- 双金属螺杆  
Bi-metal screw
- 不锈钢螺杆  
Stainless steel screw
- 特殊原料专用螺杆  
Screw for special material
- 模具温度控制器  
Mold temperature controller
- 边开模边顶出装置  
Mold opening while ejection
- 弹簧喷嘴 / 加长喷嘴  
Spring nozzle/extension nozzle
- 蓄能器辅助快速注射  
Accumulator-assisted rapid injection
- 多组抽芯装置  
Multi-core pulling device
- 玻璃管冷却流量计  
Cooling glass tube flow meter
- 自动上料机  
Automatic feeder
- 干燥料斗  
Hopper dryer
- 除湿机  
Dehumidifier
- 磁力架  
Hopper magnetic
- 模具压板  
Mold clamp
- 三色报警器  
Three-color warning light
- 电流稳压器  
Power regulator
- 闭环压力、流量控制系统  
Closed-loop pressure and flow control system
- 旁路过滤器  
Bypass filter
- 自动安全门控制装置  
Automatic security gate control device
- 自动加色计量器  
Automatic color doser
- 智能控制系统  
Intelligent control system