

"荃笙" 压铸机  
TSUENSAINT SERIES DIE-CASTING MACHINE



"荃笙" 高精冲床  
TSUENSAINT SERIES HIGH PRECISION PRESS MACHINE



NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD.  
宁波荃笙科技发展有限公司

Add: Building 4, No.128, Jingyuan Road, High Tech Zone, Ningbo, Zhejiang.  
地址: 浙江省宁波市高新区晶源路128号4号楼

Mob: 0086-15658273134 0086-13967807575

Email: michelle@tsuensaint.com info@tsuensaint.com



EUROPEAN STYLE  
INJECTION MOLDING MACHINE

融合 创新 超越  
*Integration, Creation, Transcendence*



宁波荃笙科技发展有限公司  
NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD.

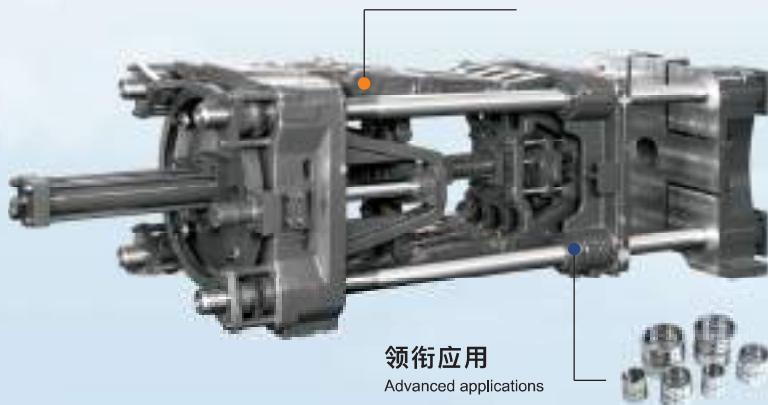
**自润滑专用套**  
用于关节、拉杆、导杆处，大幅增加合模部件的使用寿命，并减少润滑加油的频率。

**Self-lubricating special sets**

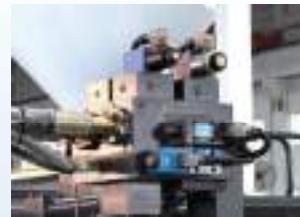
Used for joints, tie-bars and guide bars, which can substantially increase the lifetime of clamping unit, and reduce the lubricating frequency as well.

**含油轴套**

Oil bushings



**领衔应用**  
Advanced applications



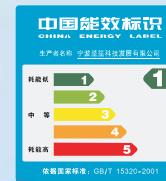
**高精注射单元压力闭环/选配**  
High precision injection with pressure closed loop function (OPTIONAL)



**高品质螺杆组**  
特殊优质合金材料和处理，对结构与精度进行重点设计，达到与众不同的射出计量和高标准精度。

**High quality screw set**  
The use of special high-quality alloy materials and processing, to focus on the structure and precision design to achieve different injection metering accuracy and high standards.

**U系列&J款伺服节能机**



U Series / J Type Energy Saving Servo Machine

**欢迎选购CE标准产品**  
Welcome to choose machines with CE standard as option



## 曾列火炬计划★倡导节能技术

Included in the National Torch Plan,  
Advocating energy-saving technology

### 展现高精度

机器工况中的精确位置、压力、速度和保压，确保射胶计量的重复精度误差<0.3%，实现精密成型

### Show High Precision

The accurate injection positioning, pressure, speed and pressure maintaining, to ensure the repeatability error of injection accuracy less than 0.3% to achieve precision molding.

### 超强节能特性

同样塑料制品的生产与普通注塑机相比较，节能率通常可达到45%-75%

### Super Energy-Saving Features

Compared with standard injection machine, the energy saving rate can reach 45%-75% for the same plastic production.

### 高效率

总效率比普通机提高10%左右，拖动能力提高18%左右

### High Efficiency

Compared with standard machine, the total efficiency can increase by 10% and dragging capacity is can increase by 18%.

### 高响应系统

系统加速和减速性能敏捷，力和速度的调整灵敏，采样处理速度达100KHz，快速启动时间0.05s

### High Response System

The system acceleration and deceleration performance is quite agile and force&speed regulation is very sensitive. The sampling processing speed can reach 100KHz and system quick start time can reach 0.05s.

### 保持稳定可靠

压力 / 速度稳定，保压切换平稳精确

### Maintain Stability and Reliability

The pressure or speed is stable and switch of pressure maintaining is smooth and accurate.

### 低油温

实现避免高压卸荷，工况中低油温状态，提高机器使用性能与使用时效，节约大量冷却水

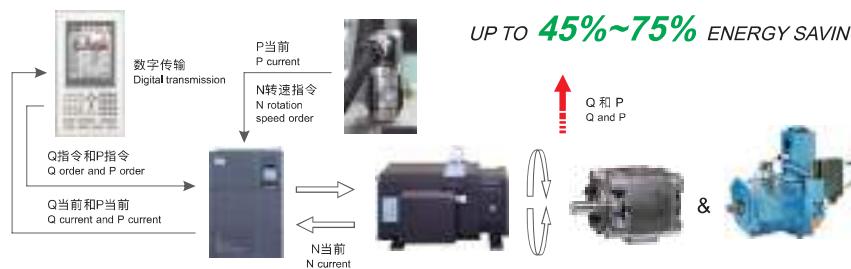
### Low Oil Temperature

Avoid high pressure unloading and low oil temperature situation during operation. Improve the operation performance, promote using efficiency and save a large quantity of cooling water.

## 节能J型特性 Energy-saving J series main features

J型系统的设计为公司技术领航者倡导的国内最早发起和研制被国家列入火炬计划的高能效注塑机，采用伺服马达驱动对机器工作状况是根据注塑制品工要求，将数据编入控制器后高速指令机器个动作不同负载需求，伺服驱动系统运行过程的线性与工艺指令保持高度跟随性，使系统的压力 / 流量形成闭环，实现了高机能 & 高节能(45%-75%)的科学结合，高响应系统使机器效率>98%。

J Series system design high energy-saving injection molding machine has been listed in our National Torch Plan and we're the earliest domestic company who is engaged in this project. Servo motor can dictate different machine action according to product workmanship requirement. It will input data into the controller and instruct each machine's movement quickly based on different load demand. The linearity of servo driving system operational process keeps good tracking with technological instruction. Therefore, the system pressure and flow becomes a closed loop, which achieves scientific combination of high machine performance & high energy-saving(45%-75%). With this high-response system, the machine working efficiency can reach 98% or more.



## U系列/J款伺服节能系统/装置

U series / J type energy saving servo system configuration

### 控制系统

- EST彩屏多功能/高端控制器
- 程序深层调整&维护的网通
- 空/负载参数设定/节能输出自控模块
- 高响应压力/流量闭环控制
- 多国语言选用&大容量模具组记忆功能

### CONTROL SYSTEM

- EST multifunction high end controller
- Program further adjustment & Network maintenance
- Zero load & Over load parameter settings / Energy-saving output self-control module
- High-response pressure/flow closed-loop control
- Multiple language selection& Large-capacity mold group memory function

### 液压系统

- 伺服马达驱动（装置）高性能泵浦
- 系统压力/流量分离调节多级控制
- 空/负载节能输出自动控制

### HYDRAULIC SYSTEM

- Servo motor drive unit & high performance pump
- System pressure/flow separation regulation and multilevel control
- Non-load & over load energy-saving output self-control

### 锁模系统

- 斜排式双曲肘锁模机构/同步齿轮液压调模
- 高灵敏低压模具保护装置
- 多级开合模压力/速度&位置尺数控
- 集中式自动分配油脂润滑&含油轴套
- 中、大机液压抽插芯（中子2组）接口

### CLAMPING SYSTEM

- Diagonal hinges twin toggle clamping mechanism/ Mold adjustment by synchronous gear hydraulic driving
- High sensitivity & low pressure mold protection device
- Multi-step mold opening & clamping pressure / Speed & position transducer digital control
- Centralized automatic distribute grease lubrication & oil bushings
- Hydraulic pull and insert cores (2 pcs of core) connector for medium and large size machine

### 注射系统

- 双缸平衡式高敏捷注射机构
- 多级注射压力/速度&位置数控
- 液压马达驱动螺杆与转速检测
- 储料电液比例背压阀控制 (360T及以上机)
- 注射计量重复精度监测控制
- 储料动作防流涎控制
- 冷料启动储料防护控制
- 料管加热PID控制
- 喷嘴校准微调

### INJECTION SYSTEM

- Double cylinder balanced type &High agility mechanism
- Multi-step injection pressure/ Speed &position digital control
- Hydraulic motor drives screw and rotation speed (RPM) detection
- Material charging electro-hydraulic proportional back pressure valve control (360T machine and above)
- Injection metering repetitive precision (repeat accuracy) monitoring and controlling
- Nozzle control in charging movement
- Cool material starts with charging protection control
- Barrel heating by PID control
- Nozzle calibration by fine adjustment

产品配置表，敬请另行垂询。

Please feel free to contact us if you need machine configuration list for more details, thank you!

### PET & PVC

PET & PVC Special Injection  
Molding Machine



- ◆ 高性能镀硬铬或不锈钢PVC专用螺杆
- ◆ 加宽机门
- ◆ 配备两组以上的抽芯装置
- ◆ 多段机筒风冷装置，精确控制料温
- ◆ 大扭矩塑化液压马达
- ◆ PVC特殊螺杆，具有高性能硬铬或不锈钢电镀层
- ◆ 增宽安全门（可选）
- ◆ 配备两个或更多抽芯装置
- ◆ 多段机筒风冷装置，精确控制料温
- ◆ 大扭矩塑化液压马达

### 垫填料夹芯注塑机

Filler Sandwich Injection  
Molding Machine

在传统塑料射出成型机上增加一组复合式射嘴及料管组形成独立的双料管，在射出的过程中可以同时或间隔方式将两种溶胶透过共同射嘴射入模穴中达成双料共射，其中外层的溶胶称为皮层料，内层的溶胶称为核心料。

For some special products production, such machine add one set of compound nozzle and feeding barrel assembly on the traditional machine so as to achieve independent double barrels. During injection period, they can achieve double injection by charging with two materials and inject to mold cavity through the conjunct nozzle simultaneous or intervalic, in which the outer charge material is called external material while the inner one is called core material.



### BMC 专用机款

BMC Special Injection Molding  
Machine

配备针对BMC原料专用的热固性类理化部件，具有特殊填料自动压紧装置和特别高扭力液压马达储料&特殊射出油缸等组成的系统优化模块。

BMC injection molding machine is equipped with thermosetting physicochemical components which is specialized for BMC material. And it has system optimization module which is composed of specific charging automatic compressing device, specially high torque hydraulic motor for charging and special injection hydraulic cylinder etc.



### 支持选配定制 / 领衔应用模块

Support optional and customized solutions  
Advanced application module

#### ① 进口品牌控制器

进口常选：KEBA科霸与B&R贝加莱为主以体现高响应&多功能人性化控制

#### ② CE标准系统&款型

获CE认证，电/液系统&机器款型以提升工况中安全概率

#### ③ 双油路快速系统

当开合模的同时进行顶出或选预塑的双动作以实现增快机器循环高效率

#### ④ 高效非标功率/扩容系统

在标准机功率上增加驱动功效以明显加快工况循环&实现优质高效

#### ⑤ 高增速/蓄能器装置

适合用于超薄&快速成型类制品产出以解决精密&高难度制品工艺要求

#### ⑥ 高精注射单元压力传感装置

提升注射单元工况中系统压力实时循环以实现注射/保压/预塑背压闭环功效

#### ⑦ 高精注射伺服阀/闭环装置

适用于极精密高端制品工艺要求以实现注射重复精度有效提高

#### ⑧ 单缸快速注射装置

适用含360T以下合模匹配单缸高速射出成型以确保超薄类制品产出实现优质高效

#### ⑨ 合模&注射最佳机能组合

适用于针对性特种制品合模&注射/非标/优化匹配的个性化组合机，以实现最佳量产的适从性应用

#### I. Imported brand controller

Imported options: mainly KEBA and B&R, Display the concept of high response & multifunction people-oriented control.

#### II. CE standard system & series

Hybrid system & machine series, which is honored with CE Certificate, To improve the safety rate during machine operation.

#### III. Overlap movement high speed system

Ejection or plasticizing when mold opening & clamping, To increase machine cycle and achieve high efficiency.

#### IV. High efficiency non-standard power/capacity expansion system

Add driving function on standard machine power, So to increase operation cycle obviously & achieve super quality and high efficiency.

#### V. High speed acceleration /accumulator unit

Suitable for the production of thin-wall& fast molding products, So to meet the processing requirements of precision & high difficulty products.

#### VI. High precision injection unit pressure sensor device

Improve system pressure real time cycle during injection unit operation, So to realize the closed-loop effect of injection/holding pressure and pre-plasticizing & back pressure.

#### VII. High precision injection servo valve/closed-loop device

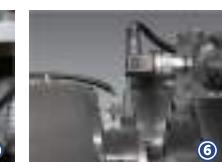
Applicable to processing requirements of extremely precision high end products, So to increase injection repeat accuracy efficiently.

#### VIII. Single cylinder fast injection device

Appropriate for 360T (or below) machine's clamping unit to match single cylinder high injection molding, So to ensure the production of ultrathin-wall products, and realize super quality and high efficiency.

#### IX. Optimum function combination of clamping & injection

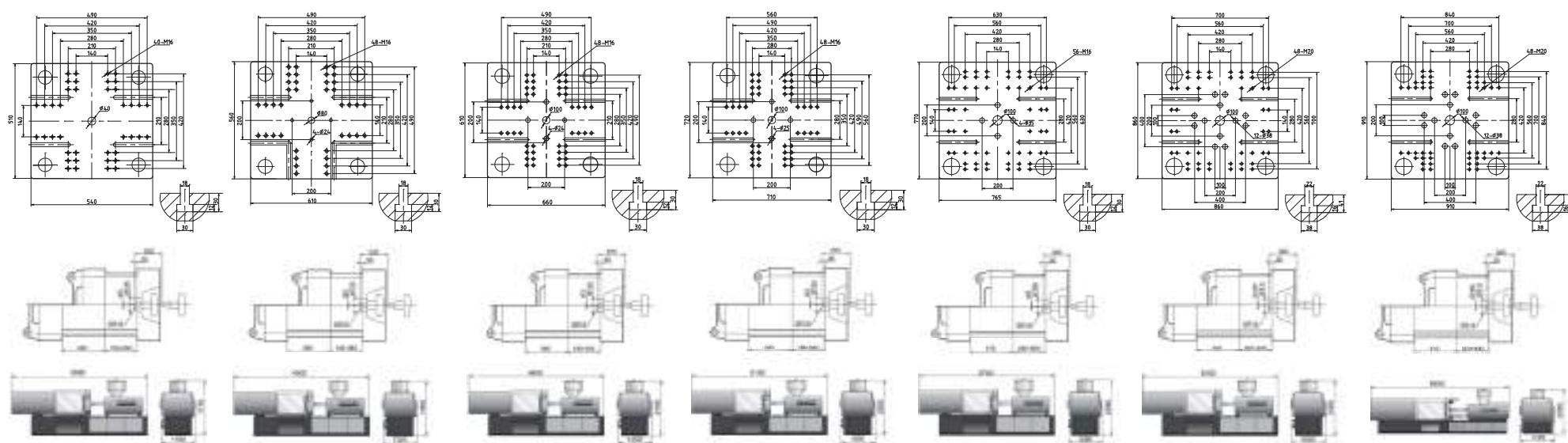
Suitable for the pertinent special products by nonstandard and optimum customized combination of clamping unit & injection unit machine, So to reach most suitable application of optimum mass production.



## U系列规格参数

U series technical parameters

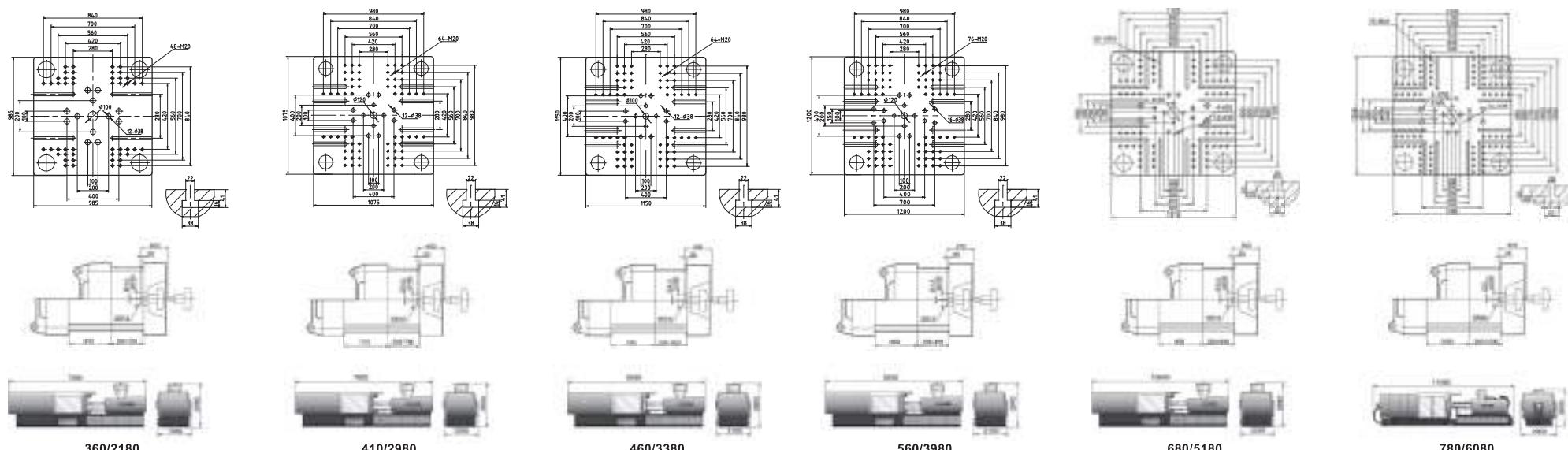
| 国际标准型号      | INTERNATIONAL CLASS NO.     | 90/268          |               |        |      | 120/358 |               |        |      | 150/478 |              |        |      | 180/638 |               |      |      | 230/828 |                |      |     | 270/1080 |               |     |      | 300/1380 |                |   |   |  |
|-------------|-----------------------------|-----------------|---------------|--------|------|---------|---------------|--------|------|---------|--------------|--------|------|---------|---------------|------|------|---------|----------------|------|-----|----------|---------------|-----|------|----------|----------------|---|---|--|
| 项目/规格       | TYPE / SPECIFICATION        | U/90C           |               | U/120C |      | U/150C  |               | U/180C |      | U/230B  |              | U/270C |      | U/300C  |               |      |      |         |                |      |     |          |               |     |      |          |                |   |   |  |
| 螺杆型式        | Screw type                  | A               | B             | C      | D    | A       | B             | C      | D    | A       | B            | C      | D    | A       | B             | C    | D    | A       | B              | C    | D   | A        | B             | C   | D    | A        | B              | C | D |  |
| <b>注射装置</b> |                             |                 |               |        |      |         |               |        |      |         |              |        |      |         |               |      |      |         |                |      |     |          |               |     |      |          |                |   |   |  |
| 螺杆直径        | Screw diameter              | mm              | 30            | 32     | 35   | 38      | 32            | 35     | 38   | 42      | 38           | 42     | 45   | 42      | 45            | 50   | 45   | 50      | 55             | 50   | 55  | 60       | 55            | 60  | 65   |          |                |   |   |  |
| 螺杆长径比       | Screw L/D ratio             | L/D             | 23.5          | 22     | 20.1 | 18.5    | 24.1          | 22     | 20.3 | 18.4    | 21           | 19     | 17.7 | 23.6    | 22            | 19.8 | 24.4 | 22      | 20             | 24.2 | 22  | 20.2     | 24            | 22  | 20.3 |          |                |   |   |  |
| 理论注射容量      | Shot volume (theoretical)   | CM <sup>3</sup> | 117           | 133    | 160  | 190     | 136           | 163    | 192  | 235     | 227          | 277    | 318  | 311     | 357           | 441  | 397  | 490     | 593            | 530  | 641 | 763      | 676           | 805 | 945  |          |                |   |   |  |
| 注射重量(ps)    | Injection weight (PS)       | g               | 9             | 106    | 121  | 146     | 173           | 124    | 148  | 175     | 214          | 207    | 252  | 289     | 283           | 325  | 401  | 361     | 446            | 540  | 482 | 583      | 694           | 615 | 733  | 860      |                |   |   |  |
| 注射速率        | Injection rate              | g/s             | 71            | 81     | 97   | 114     | 74            | 89     | 105  | 128     | 94           | 115    | 132  | 139     | 160           | 198  | 136  | 168     | 203            | 188  | 227 | 270      | 224           | 266 | 312  |          |                |   |   |  |
| 注射压力        | Injection pressure          | Mpa             | 230           | 203    | 170  | 144     | 260           | 219    | 186  | 152     | 209          | 171    | 149  | 203     | 177           | 143  | 207  | 168     | 139            | 204  | 169 | 142      | 202           | 170 | 145  |          |                |   |   |  |
| 螺杆转速        | Screw speed                 | rpm             | 225           |        |      |         | 210           |        |      |         | 185          |        |      |         | 180           |      |      |         | 155            |      |     |          | 180           |     |      |          | 220            |   |   |  |
| <b>合模装置</b> |                             |                 |               |        |      |         |               |        |      |         |              |        |      |         |               |      |      |         |                |      |     |          |               |     |      |          |                |   |   |  |
| 合模力         | Clamping force              | kN              | 900           |        |      |         | 1200          |        |      |         | 1500         |        |      |         | 1800          |      |      |         | 2300           |      |     |          | 2700          |     |      |          | 3000           |   |   |  |
| 移模行程        | Open stroke                 | mm              | 320           |        |      |         | 350           |        |      |         | 380          |        |      |         | 435           |      |      |         | 475            |      |     |          | 560           |     |      |          | 610            |   |   |  |
| 拉杆内间距(宽x高)  | Space between tie-bars(WxH) | mm              | 360×330       |        |      |         | 410×370       |        |      |         | 460×420      |        |      |         | 490×470       |      |      |         | 520×520        |      |     |          | 580×580       |     |      |          | 650×650        |   |   |  |
| 最大模厚        | Max. mould height           | mm              | 370           |        |      |         | 400           |        |      |         | 470          |        |      |         | 590           |      |      |         | 560            |      |     |          | 620           |     |      |          | 700            |   |   |  |
| 最小模厚        | Min. mould height           | mm              | 150           |        |      |         | 150           |        |      |         | 160          |        |      |         | 180           |      |      |         | 200            |      |     |          | 200           |     |      |          |                |   |   |  |
| 顶出行程        | Ejector stroke              | mm              | 90            |        |      |         | 120           |        |      |         | 140          |        |      |         | 140           |      |      |         | 150            |      |     |          | 180           |     |      |          |                |   |   |  |
| 顶出力         | Ejector force               | KN              | 30            |        |      |         | 38            |        |      |         | 50           |        |      |         | 50            |      |      |         | 70             |      |     |          | 70            |     |      |          |                |   |   |  |
| <b>其它</b>   |                             |                 |               |        |      |         |               |        |      |         |              |        |      |         |               |      |      |         |                |      |     |          |               |     |      |          |                |   |   |  |
| 最大油泵压力      | Pump max. pressure          | Mpa             | 16            |        |      |         | 16            |        |      |         | 16           |        |      |         | 16            |      |      |         | 16             |      |     |          | 16            |     |      |          | 16             |   |   |  |
| 电机功率(伺服)    | Pump motor power (servo)    | KW              | 11 (11)       |        |      |         | 13 (14)       |        |      |         | 13 (18.5)    |        |      |         | 18.5 (23)     |      |      |         | 18.5 (23)      |      |     |          | 22 (29)       |     |      |          | 30 (33)        |   |   |  |
| 电热功率        | Heating power               | KW              | 6.8           |        |      |         | 7.5           |        |      |         | 9.3          |        |      |         | 12.3          |      |      |         | 14.8           |      |     |          | 16.8          |     |      |          | 18.3           |   |   |  |
| 加热段数        | Numbers of heating area     | Segment         | 3+1           |        |      |         | 3+1           |        |      |         | 3+1          |        |      |         | 3+1           |      |      |         | 3+1            |      |     |          | 3+1           |     |      |          | 3+1            |   |   |  |
| 外形尺寸(长x宽x高) | Machine dimension (L*W*H)   | M               | 3.9×1.19×1.77 |        |      |         | 4.3×1.32×1.95 |        |      |         | 4.6×1.45×2.1 |        |      |         | 5.15×1.52×2.2 |      |      |         | 5.75×1.58×2.28 |      |     |          | 6.1×1.65×2.35 |     |      |          | 6.55×1.72×2.45 |   |   |  |
| 油箱容积        | Oil tank cubage             | L               | 180           |        |      |         | 230           |        |      |         | 270          |        |      |         | 300           |      |      |         | 380            |      |     |          | 385           |     |      |          |                |   |   |  |
| 机器重量        | Machine weight              | TON             | 2.8           |        |      |         | 3.5           |        |      |         | 4            |        |      |         | 6             |      |      |         | 7              |      |     |          | 9             |     |      |          | 10             |   |   |  |



## U系列规格参数

U series technical parameters

| 国际标准型号      | INTERNATIONAL CLASS NO.     | 360/2180        |                |      |      | 410/2980      |      |      |              | 460/3380 |      |                |      | 560/3980 |                |      |      | 680/5180      |      |      |      | 780/6080 |      |      |      |      |      |  |  |  |
|-------------|-----------------------------|-----------------|----------------|------|------|---------------|------|------|--------------|----------|------|----------------|------|----------|----------------|------|------|---------------|------|------|------|----------|------|------|------|------|------|--|--|--|
| 项目/规格       | TYPE / SPECIFICATION        | U/360C          |                |      |      | U/410C        |      |      |              | U/460D   |      |                |      | U/560D   |                |      |      | U/680C        |      |      |      | U/780C   |      |      |      |      |      |  |  |  |
| 螺杆型式        | Screw type                  | A               | B              | C    | D    | A             | B    | C    | D            | 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              | 60             | 67   | 70   | 75            | 70   | 75   | 80           | 85       | 75   | 80             | 85   | 90       | 80             | 85   | 90   | 100           | 90   | 95   | 100  | 105      | 90   | 95   | 105  | 110  |      |  |  |  |
| 螺杆长径比       | L/D                         |                 | 24.6           | 22   | 21.1 | 19.7          | 23.6 | 22   | 20.7         | 19.4     | 22   | 20.6           | 19.4 | 18.3     | 22             | 20.7 | 19.6 | 17.6          | 23.2 | 22   | 20.9 | 19.9     | 23.2 | 22   | 19.9 | 19   |      |  |  |  |
| 理论注射容量      | Shot volume (theoretical)   | CM <sup>3</sup> | 947            | 1181 | 1289 | 1480          | 1501 | 1723 | 1960         | 2213     | 1767 | 2010           | 2269 | 2544     | 2212           | 2497 | 2799 | 3456          | 2926 | 3260 | 3612 | 3982     | 3085 | 3437 | 4199 | 4608 |      |  |  |  |
| 注射重量(ps)    | Injection weight (PS)       | g               | 9              | 862  | 1075 | 1173          | 1347 | 1366 | 1568         | 1784     | 2014 | 1608           | 1829 | 2065     | 2315           | 2013 | 2272 | 2547          | 3145 | 2663 | 2967 | 3287     | 3624 | 2807 | 3128 | 3821 | 4193 |  |  |  |
| 注射速率        | Injection rate              | g/s             | 278            | 346  | 378  | 434           | 335  | 384  | 438          | 493      | 356  | 405            | 457  | 513      | 443            | 500  | 561  | 692           | 549  | 612  | 678  | 747      | 574  | 640  | 782  | 858  |      |  |  |  |
| 注射压力        | Injection pressure          | Mpa             | 231            | 186  | 170  | 148           | 199  | 173  | 152          | 135      | 191  | 168            | 149  | 133      | 179            | 159  | 142  | 115           | 177  | 159  | 143  | 130      | 195  | 175  | 143  | 130  |      |  |  |  |
| 螺杆转速        | Screw speed                 | rpm             |                | 200  |      |               | 150  |      |              | 160      |      |                |      |          | 130            |      |      |               | 150  |      |      |          |      |      | 115  |      |      |  |  |  |
| 合模装置        | Clamping Unit               |                 |                |      |      |               |      |      |              |          |      |                |      |          |                |      |      |               |      |      |      |          |      |      |      |      |      |  |  |  |
| 合模力         | Clamping force              | kN              |                | 3600 |      |               | 4100 |      |              | 4600     |      |                | 5600 |          |                | 6800 |      |               | 7800 |      |      |          |      |      |      |      |      |  |  |  |
| 移模行程        | Open stroke                 | mm              | 675 ( 705 )    |      |      | 715 ( 720 )   |      |      | 780 ( 790 )  |          |      | 850 ( 860 )    |      |          | 900 ( 920 )    |      |      | 1000 ( 1020 ) |      |      |      |          |      |      |      |      |      |  |  |  |
| 拉杆内间距(宽x高)  | Space between tie-bars(WxH) | mm              | 680×680        |      |      | 730×730       |      |      | 780×780      |          |      | 830×830        |      |          | 910×895        |      |      | 1010×980      |      |      |      |          |      |      |      |      |      |  |  |  |
| 最大模厚        | Max. mould height           | mm              | 750            |      |      | 800           |      |      | 800          |          |      | 850            |      |          | 900            |      |      | 1000          |      |      |      |          |      |      |      |      |      |  |  |  |
| 最小模厚        | Min. mould height           | mm              | 250            |      |      | 250           |      |      | 250          |          |      | 330            |      |          | 350            |      |      | 400           |      |      |      |          |      |      |      |      |      |  |  |  |
| 顶出行程        | Ejector stroke              | mm              | 180            |      |      | 180           |      |      | 220          |          |      | 240            |      |          | 250            |      |      | 300           |      |      |      |          |      |      |      |      |      |  |  |  |
| 顶出力         | Ejector force               | kN              | 70             |      |      | 90            |      |      | 110          |          |      | 150            |      |          | 150            |      |      | 210           |      |      |      |          |      |      |      |      |      |  |  |  |
| 其它          | Others                      |                 |                |      |      |               |      |      |              |          |      |                |      |          |                |      |      |               |      |      |      |          |      |      |      |      |      |  |  |  |
| 最大油泵压力      | Pump max. pressure          | Mpa             | 16             |      |      | 16            |      |      | 16           |          |      | 16             |      |          | 16             |      |      | 16            |      |      |      |          |      |      |      |      |      |  |  |  |
| 电机功率(伺服)    | Pump motor power (servo)    | KW              | 37 (45.2)      |      |      | 37 (45.2)     |      |      | 45 (52)      |          |      | 55 (58)        |      |          | 30+37 (66)     |      |      | 37+37 (79)    |      |      |      |          |      |      |      |      |      |  |  |  |
| 电热功率        | Heating power               | KW              | 24.7           |      |      | 29.3          |      |      | 29.3         |          |      | 31.4           |      |          | 42.95          |      |      | 56.7          |      |      |      |          |      |      |      |      |      |  |  |  |
| 加热段数        | Numbers of heating area     | Segment         | 4+1            |      |      | 5+1           |      |      | 5+1          |          |      | 5+1            |      |          | 5+1            |      |      | 6+1           |      |      |      |          |      |      |      |      |      |  |  |  |
| 外形尺寸(长x宽x高) | Machine dimension (L×W×H)   | M               | 7.38×1.95×2.55 |      |      | 7.65×2.05×2.6 |      |      | 8.05×2.1×2.8 |          |      | 8.45×2.15×2.84 |      |          | 10.6×2.28×2.89 |      |      | 11.58×2.3×3.2 |      |      |      |          |      |      |      |      |      |  |  |  |
| 油箱容积        | Oil tank cubage             | L               | 510            |      |      | 690           |      |      | 695          |          |      | 795            |      |          | 1100           |      |      | 1200          |      |      |      |          |      |      |      |      |      |  |  |  |
| 机器重量        | Machine weight              | TON             | 13.5           |      |      | 16            |      |      | 18           |          |      | 21             |      |          | 29.8           |      |      | 43            |      |      |      |          |      |      |      |      |      |  |  |  |



## U系列规格参数

U series technical parameters

| 国际标准型号      | INTERNATIONAL CLASS NO.    | 1080/6380       |             |      |      | 1280/9780 |                 |      |      | 1420/11580 |                |      |      | 1680/12980 |                 |      |      | 2200/16580 |                |       |       | 3000/62000 |                   |       |       |   |   |
|-------------|----------------------------|-----------------|-------------|------|------|-----------|-----------------|------|------|------------|----------------|------|------|------------|-----------------|------|------|------------|----------------|-------|-------|------------|-------------------|-------|-------|---|---|
| 项目/规格       | TYPE / SPECIFICATION       | U/1080C         |             |      |      | U/1280C   |                 |      |      | U/1420C    |                |      |      | U/1680C    |                 |      |      | U/2200C    |                |       |       | U/3000C    |                   |       |       |   |   |
| 螺杆型式        | Screw type                 | A               | B           | C    | D    | A         | B               | C    | D    | 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              | 90          | 100  | 110  | 120       | 110             | 115  | 120  | 125        | 110            | 120  | 130  | 140        | 120             | 130  | 140  | 150        | 150            | 160   | 170   | 180        | 210               | 220   |       |   |   |
| 螺杆长径比       | Screw L/D ratio            | L/D             | 25.6        | 23   | 20.9 | 19.2      | 23              | 22   | 21.1 | 20.3       | 25.1           | 23   | 21.2 | 19.7       | 26              | 24   | 22.3 | 20.8       | 23.5           | 22    | 20.7  | 24.8       | 21                | 21    |       |   |   |
| 理论注射容量      | Shot volume (theoretical)  | CM <sup>3</sup> | 3180        | 3927 | 4750 | 5655      | 5270            | 5760 | 6272 | 6806       | 5559           | 6616 | 7765 | 9006       | 6673            | 7831 | 9082 | 10426      | 13900          | 15800 | 17900 | 29390      | 40000             | 43904 |       |   |   |
| 注射重量(ps)    | Injection weight (PS)      | g               | 9           | 2895 | 3574 | 4320      | 5145            | 4796 | 5242 | 5708       | 6193           | 5059 | 6021 | 7066       | 8195            | 6072 | 7126 | 8265       | 9488           | 12688 | 14436 | 16297      | 26740             | 36400 | 39953 |   |   |
| 注射速率        | Injection rate             | g/s             | 581         | 717  | 868  | 1033      | 793             | 867  | 944  | 1024       | 752            | 895  | 1050 | 1218       | 1057            | 1240 | 1438 | 1650       | 1315           | 1496  | 1689  | 1468       | 2000              | 2200  |       |   |   |
| 注射压力        | Injection pressure         | Mpa             | 217         | 176  | 145  | 122       | 186             | 170  | 156  | 144        | 208            | 175  | 149  | 128        | 194             | 165  | 142  | 124        | 173            | 152   | 134   | 210        | 154               | 141   |       |   |   |
| 螺杆转速        | Screw speed                | rpm             | 100         |      |      |           | 90              |      |      |            | 90             |      |      |            | 85              |      |      |            | 75             |       |       |            | 50                |       |       |   |   |
| 合模装置        | Clamping Unit              |                 |             |      |      |           |                 |      |      |            |                |      |      |            |                 |      |      |            |                |       |       |            |                   |       |       |   |   |
| 合模力         | Clamping force             | kN              | 10800       |      |      |           | 12800           |      |      |            | 14200          |      |      |            | 16800           |      |      |            | 22000          |       |       |            | 30000             |       |       |   |   |
| 移模行程        | Open stroke                | mm              | 1080        |      |      |           | 1300            |      |      |            | 1350           |      |      |            | 1550            |      |      |            | 1870           |       |       |            | 2000              |       |       |   |   |
| 拉杆内间距(宽x高)  | Space between tie-bars(WH) | mm              | 1125×1080   |      |      |           | 1260×1160       |      |      |            | 1310×1300      |      |      |            | 1500×1400       |      |      |            | 1750×1600      |       |       |            | 1900×1750         |       |       |   |   |
| 最大模厚        | Max. mould height          | mm              | 1100        |      |      |           | 1250            |      |      |            | 1400           |      |      |            | 1500            |      |      |            | 1700           |       |       |            | 1900              |       |       |   |   |
| 最小模厚        | Min. mould height          | mm              | 400         |      |      |           | 450             |      |      |            | 600            |      |      |            | 700             |      |      |            | 780            |       |       |            | 1000              |       |       |   |   |
| 顶出行程        | Ejector stroke             | mm              | 340         |      |      |           | 360             |      |      |            | 360            |      |      |            | 420             |      |      |            | 420            |       |       |            | 450               |       |       |   |   |
| 顶出力         | Ejector force              | kN              | 248         |      |      |           | 248             |      |      |            | 260            |      |      |            | 420             |      |      |            | 490            |       |       |            | 565               |       |       |   |   |
| 其它          | Others                     |                 |             |      |      |           |                 |      |      |            |                |      |      |            |                 |      |      |            |                |       |       |            |                   |       |       |   |   |
| 最大油泵压力      | Pump max. pressure         | Mpa             | 16          |      |      |           | 16              |      |      |            | 16             |      |      |            | 17.5            |      |      |            | 16             |       |       |            | 16                |       |       |   |   |
| 电机功率(伺服)    | Pump motor power (servo)   | KW              | 37+45 (91)  |      |      |           | 45+55 (99)      |      |      |            | 55+55 (116)    |      |      |            | 45+45+55 (151)  |      |      |            | 45+55+55 (168) |       |       |            | 55+55+55+55 (232) |       |       |   |   |
| 电热功率        | Heating power              | KW              | 59          |      |      |           | 66.1            |      |      |            | 86             |      |      |            | 94.9            |      |      |            | 114            |       |       |            | 117               |       |       |   |   |
| 加热段数        | Numbers of heating area    | Segment         | 6+1         |      |      |           | 6+1             |      |      |            | 7+1            |      |      |            | 8+1             |      |      |            | 9+1            |       |       |            | 10+1              |       |       |   |   |
| 外形尺寸(L×W×H) | Machine dimension (L×W×H)  | M               | 12.1×2.64×3 |      |      |           | 12.82×2.78×3.35 |      |      |            | 15.2×3.00×4.13 |      |      |            | 16.35×3.15×4.17 |      |      |            | 18.6×3.6×4.42  |       |       |            | 22.00×5.50×5.00   |       |       |   |   |
| 油箱容积        | Oiltank cubage             | L               | 1600        |      |      |           | 2100            |      |      |            | 2900           |      |      |            | 3000            |      |      |            | 3700           |       |       |            | 4500              |       |       |   |   |
| 机器重量        | Machine weight             | TON             | 53          |      |      |           | 62              |      |      |            | 90             |      |      |            | 125             |      |      |            | 140            |       |       |            | 220               |       |       |   |   |

