

TP5

90T-2800T

TP5 SERIES PRECISION ENERGY-SAVING  
INJECTION MOLDING MACHINE  
A5 to TP5: Excellence Forward



Yizumi International Business Co., Ltd.  
Address: No.22-2 Ke Yuan 3rd Road, Shunde, Foshan, Guangdong 528300, China  
TEL: 400-802-6888(China) 86-757-2921 9001(Overseas)  
Email: imm@yizumi.com  
www.yizumi.com

【DISCLAIMER】  
[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.  
[2] The picture in the catalogue is for reference only. The real object should be considered as final.  
[3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.  
Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.



THINK TECH FORWARD

## TP5 Series Precision Energy-Saving Injection Molding Machine

For over a decade, A5 series has been widely recognized for its reliability, stability, and exceptional quality. Building on a decade of A5's success, TP5 series (Toggle-Professional 5) debuts with a fresh new look and enhanced performance, paying tribute to the conclusion of the A5 series while marking the beginning of YIZUMI's new era of professional three-platen injection molding machines.

With YIZUMI's "IPD2.0" development process, TP5 series was designed from the outset to deeply understand and meet users' expectations for high-quality professional injection molding machines. Throughout the development, every technological advancement was precisely implemented, while design reliability quality metrics were introduced for the first time, ensuring that TP5 series excels in both quality and performance.

As the wave of technological manufacturing surges forward, YIZUMI remains unwavering in its relentless pursuit of technological innovation. We believe that TP5 series will further enhance the professional solutions and exceptional experiences YIZUMI provides to customers, helping them achieve their manufacturing vision faster and create greater value.

# TP5 Series

A5 to TP5: Excellence Forward

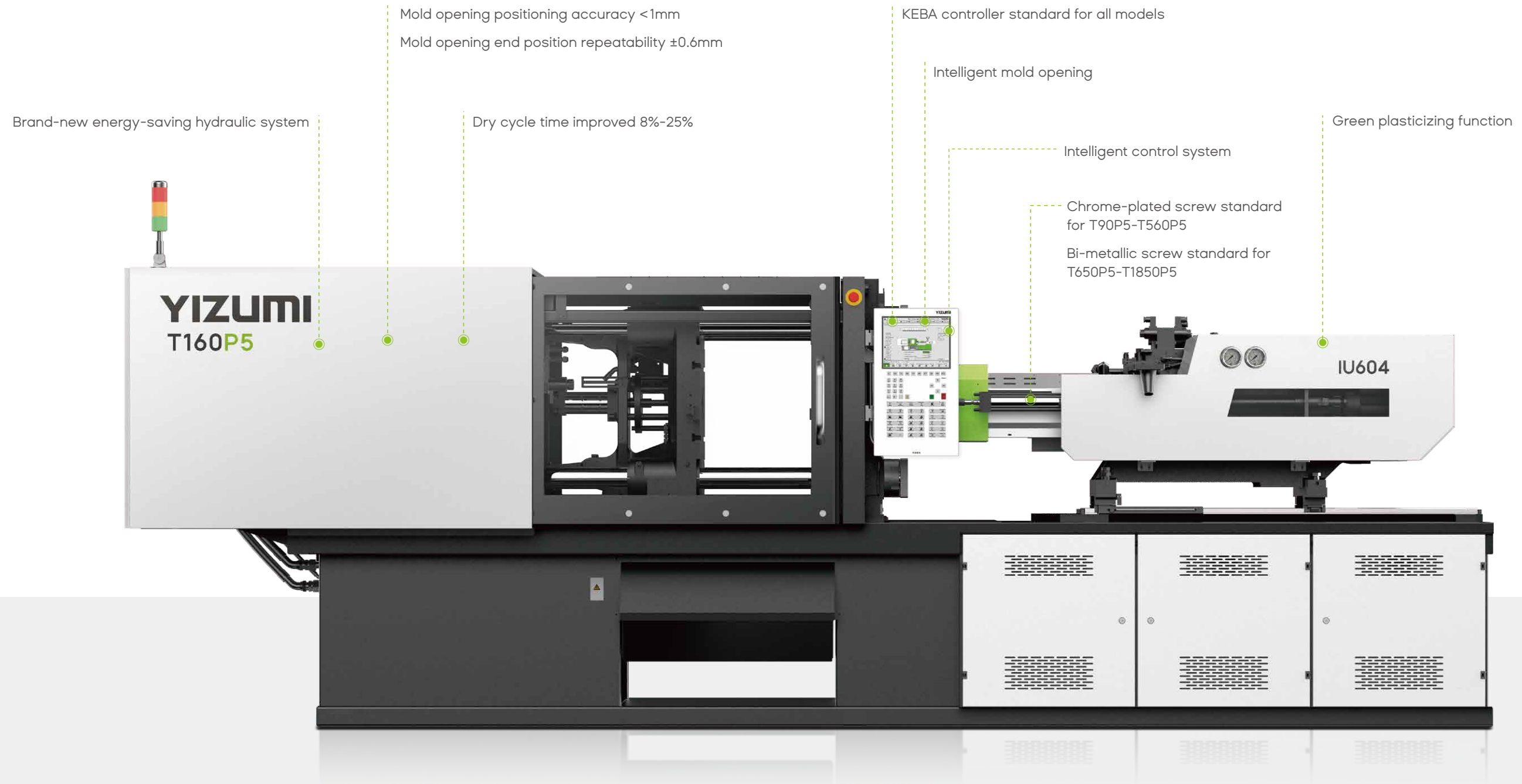
■ T160P5



■ T800P5

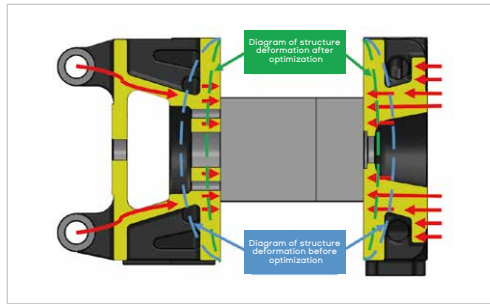


## A5 to TP5: Excellence Forward



\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Clamping Unit

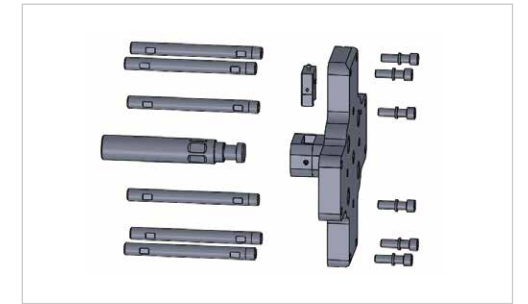


## Uniform mold compression technology

- ▶ Fully upgraded TP5 series platen adopts uniform mold compression technology (YIZUMI's patented structure, Patent No.: ZL202321094203.2).
- ▶ Increased platen center thickness for enhanced rigidity and reduced deformation (overall deformation of movable platen reduced by 5%-20%).
- ▶ Significantly improved clamping force utilization, optimizing product molding.
- ▶ Higher strength, lighter structure, and lower clamping force, extending service life of both molds and machines.
- ▶ Standardized T-slot platen across the entire series, facilitating mold mounting and removal while enhancing platen durability.

## Pull-back ejector system

Equipped with a pull-back ejector system as a standard feature, meeting the requirements for special molds that require pull-back ejector systems, with a wider range of mold thickness applicability.



## Self-adaptive mold opening positioning control technology

Dynamic sensing of pressure and real-time valve core adjustment to achieve high positioning accuracy and outstanding stability.

## Intelligent mold opening

Simplified mold opening parameters setting for improved efficiency. The mold opening and closing are intelligently generated and optimized, resulting in smoother movements and high positioning accuracy (0-1mm).

## Low pressure mold protection

Equipped with low-pressure mold protection control unit to ensure effective protection of mold.



## New graphite steel bushing standard for TP5 series

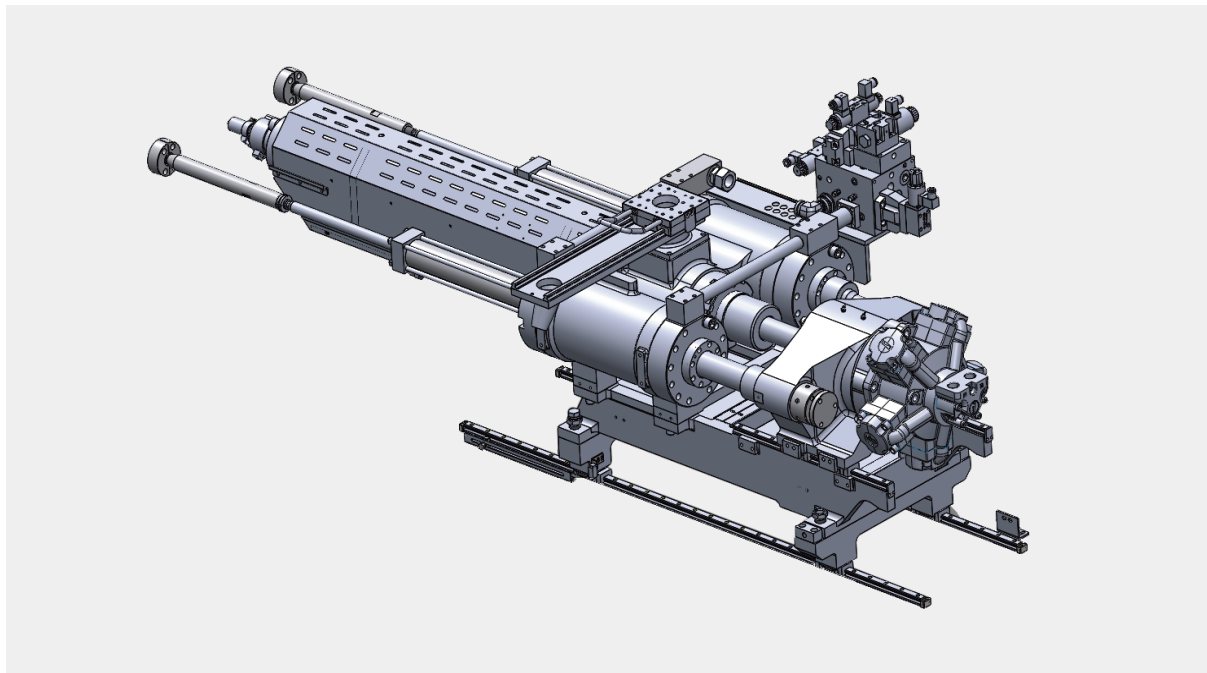
By analyzing actual load characteristics through simulation, the graphite distribution has been optimized to achieve the best self-lubrication performance.

Lubrication frequency has been reduced from once every 300 cycles to once every 800 cycles, significantly decreasing lubricant consumption.

## Tie bar and tie bar nut: high-reliability design technology

Based on simulation analysis, the uniquely effective tie bar design significantly reduces stress concentration, ensuring extremely low failure rates throughout its application. This enhances overall reliability.

# Injection Unit



## Fully upgraded injection unit for enhanced efficiency

The new power system configuration delivers an average 8% increase in injection speed, an 8% boost in screw rotation speed, and a 10% improvement in plasticizing efficiency.

## Integral dual-layer support for injection unit

- ▶ TP5 series features integral dual-layer support for injection unit as a standard configuration, with dual linear guides for both carriage and injection.
- ▶ Lower resistance in injection process enables improved energy efficiency, faster response and more accurate control.

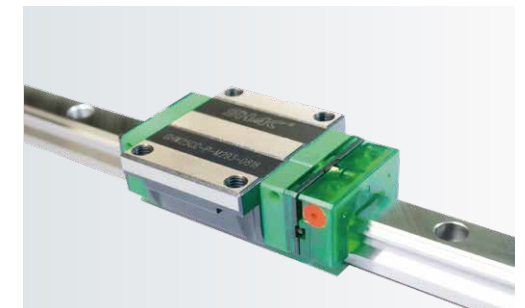
## Chrome-plated screw

- ▶ Chrome-plated screw enhances wear resistance and improves plasticizing quality.
- ▶ Optimized screw tip, check ring, and screw washer design further improves injection weight repeatability.
- ▶ Increased screw rotation speed boosts plasticizing capacity by 5-10%.



## Oil-free self-lubricating linear guides

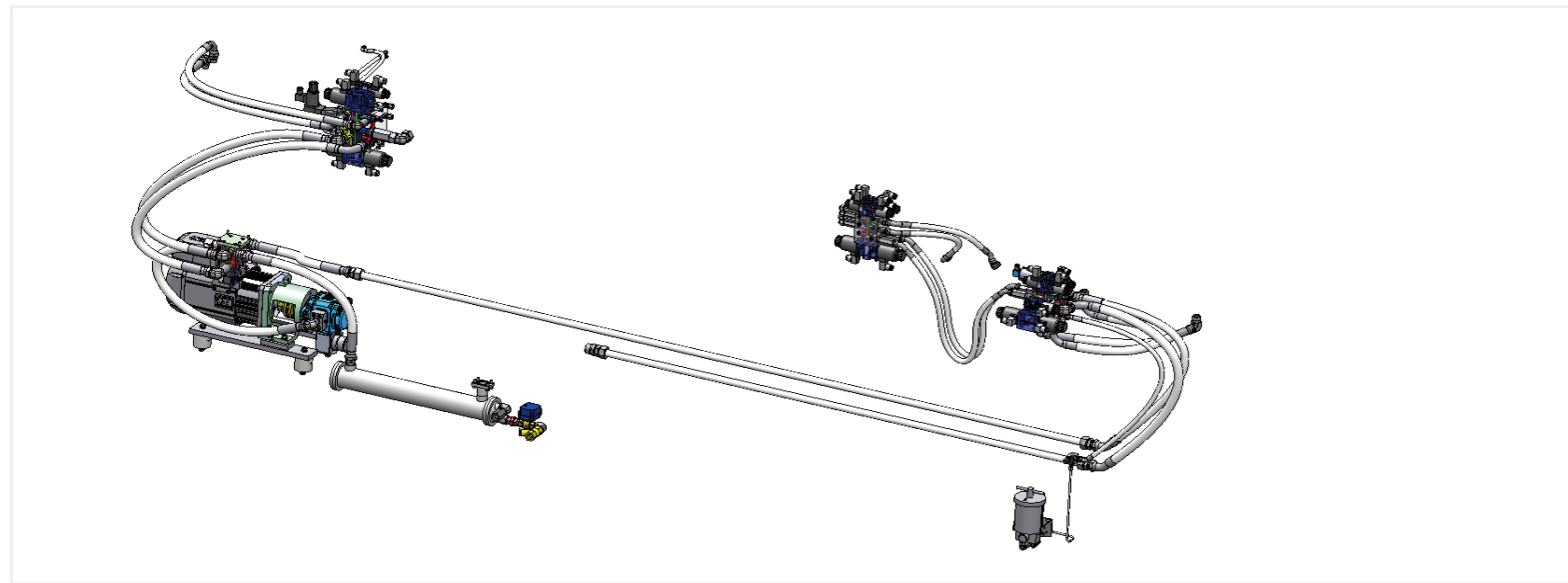
- ▶ Equipped with integrated oil box, it requires no additional lubrication (self-lubricating for up to 5 years\*).  
\* The data is sourced from the supplier, with estimated service life of 3 to 5 years depending on different working conditions.
- ▶ Oil-free self-lubricating linear guides improve machine cleanliness and ease of maintenance.



## Green plasticizing function

Green plasticizing function, as a standard feature for TP5 series, will intelligently select screw speed based on plasticizing and cooling time to reduce plasticizing energy consumption.

# Hydraulic System



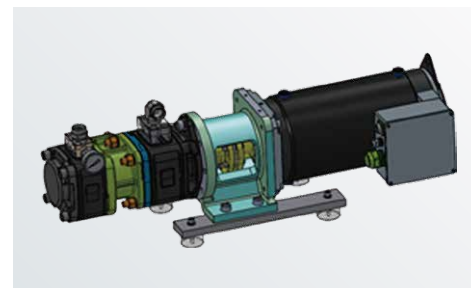
## HYDRAULIC SYSTEM

### New energy-efficient hydraulic system

Energy-efficient hydraulic oil and fluid simulation technology are used to optimize the hydraulic system's circuits and pipelines. This results in improved energy efficiency, faster response time, and higher control precision.

### YIZUMI new-generation servo technology

New-generation servo power system with high-speed, low-noise operation and strong overload capacity. Integrated air duct technology for small and medium tonnage machines while liquid cooling technology for large tonnage machines.

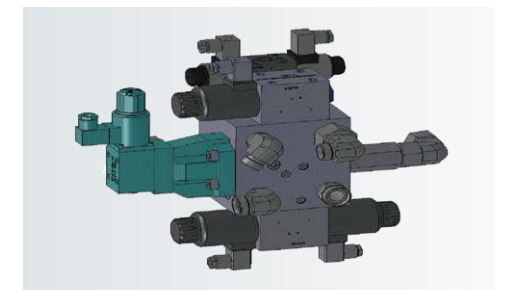


### Powerful, fast response, faster dry cycle time

With enhanced power design, injection, plasticizing, and mold opening and closing are faster, leading to higher efficiency. TP5 series features a completely upgraded design, with significantly reduced dry cycle time by 8% to 25% for greater efficiency.

### Digital proportional back-pressure control

Digital proportional back-pressure control is a standard feature with more accurate control.



### Closed-loop oil temperature control

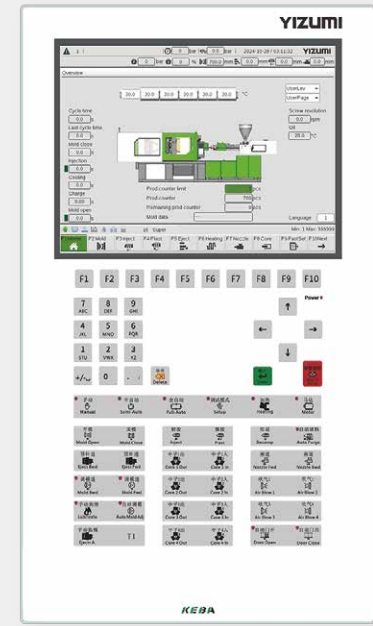
Independent closed-loop oil temperature control function offers improved system stability.

### Low pressure loss injection technology

The optimized hydraulic system effectively reduces injection pressure loss, resulting in better effective injection pressure and improved product molding process.

\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Electrical Control System



## Standard feature of KEBA controller for all models

It reflects YIZUMI's unique design philosophy and ergonomic button layout, providing infinite possibilities for digital and intelligent advancements.

- Standard feature of KEBA's new control system:
  - 12" TFT true color LCD display for 90T-1000T models
  - 15" TFT true color LCD display for 1200T-2800T models
- Storage for 700 sets of mold parameters, standard feature of MES interface.
- Supports common communication interfaces: RS-485, USB, CANOPEN, EtherCAT, OPC UA (optional) and Euromap77 (optional).
- Multi-curve display function, allowing for the direct display of curves for actions such as mold opening and closing, plasticizing, temperature, and injection monitoring.

## Intelligent clamping force management

- ▶ TP5 series is equipped with **intelligent clamping force management system**, YIZUMI's advanced intelligent R&D innovation.
- ▶ **Intelligent clamping force management system** proactively identifies and sets optimal clamping force, monitors and intelligently optimizes clamping force parameters, enabling users to efficiently and conveniently operate the injection molding machine while improving the stability of product quality.
- ▶ Standard functions of intelligent clamping force management system:
  - ① Clamping force monitoring
  - ② Intelligent clamping force sustaining
  - ③ Pre-releasing of clamping force

### ① Clamping force monitoring (standard feature)

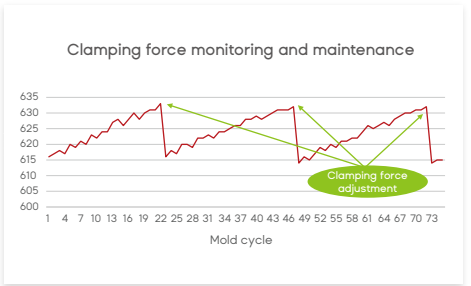
The system automatically monitors the clamping force for each mold clamping. When the clamping force exceeds the setting deviation limits, automatic alarm is triggered, effectively preventing defective products due to abnormal clamping force.

### ② Intelligent clamping force sustaining (standard feature)

If clamping force exceeds setting deviation, the system will smartly adjust the mold thickness during the next mold opening to ensure the clamping force returns to the set range.

### ③ Pre-releasing of clamping force (standard feature)

Once injection being finished, the full loaded clamping force could be released in order to prevent increased mold opening force or mold opening difficulties. This helps to shorten production cycle, lower energy consumption during mold opening, and reduce wear on the mold and machine, ultimately extending their service life.

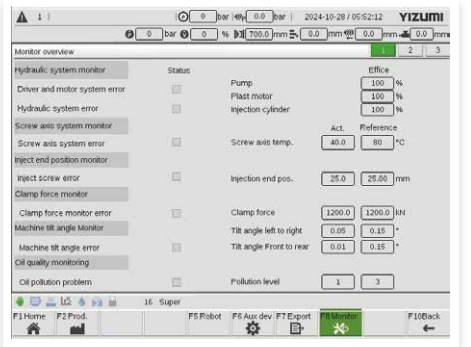


\*The curve illustrates the "Intelligent Clamping Force Sustaining" feature, showcasing its automatic adjustments in response to the gradual rise in clamping force due to mold expansion from temperature increases during continuous production.

## Preventive monitoring and maintenance system for key components

TP5 series is equipped with preventive monitoring and maintenance function for key components, which provides timely reminders for machine maintenance and predicts potential abnormalities, thus extending the machine's service life.

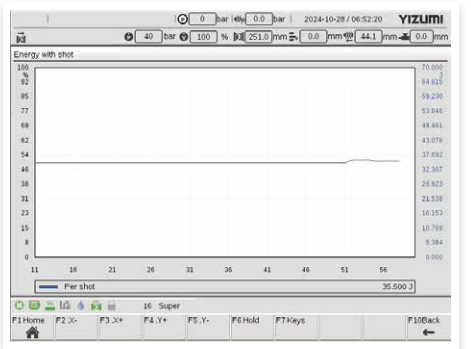
It offers intelligent real-time monitoring and detection for key components and indicators such as injection end position, clamping force, and the hydraulic system. With advanced algorithms, it identifies and alerts for potential risks, while also providing troubleshooting guidance.



## Intelligent energy management system

TP5 series is equipped with intelligent energy management system, enabling energy consumption data to be digitized and visualized.

- 24-hour energy consumption and production statistics
- Energy consumption data of the mold is visually represented in real-time curves, serving as a reference for energy-saving and parameter optimization.
- Users can input the electricity unit price for online measurement and display of energy cost for each product.
- It shows real-time energy consumption changes, allowing a clear understanding of the relationship between each motion and energy use, which facilitates the optimization of process parameters.



\* The data above were acquired by testing in YIZUMI, only for your reference. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Specifications of T90-320P5

| Description                   | UNIT  | T90P5/295      |       |       | T120P5/420     |       |       | T160P5/604    |       |       | T200P5/1000   |       |       | T260P5/1340    |       |       | T290P5/1340    |       |       | T320P5/1800    |        |        |
|-------------------------------|-------|----------------|-------|-------|----------------|-------|-------|---------------|-------|-------|---------------|-------|-------|----------------|-------|-------|----------------|-------|-------|----------------|--------|--------|
| Injection model               |       | IU295          |       |       | IU420          |       |       | IU604         |       |       | IU1000        |       |       | IU1340         |       |       | IU1340         |       |       | IU1800         |        |        |
| International specifications  |       | 295/900        |       |       | 421/1200       |       |       | 604/1600      |       |       | 1000/2000     |       |       | 1340/2600      |       |       | 1340/2900      |       |       | 1810/3200      |        |        |
| Injection Unit                |       |                |       |       |                |       |       |               |       |       |               |       |       |                |       |       |                |       |       |                |        |        |
| Theoretical shot volume       | cm³   | 116.6          | 158.7 | 207.3 | 163.6          | 246.9 | 307.6 | 297.7         | 370.9 | 452.3 | 479.5         | 584.6 | 749.2 | 584.6          | 749.2 | 962.4 | 584.6          | 749.2 | 962.4 | 834.1          | 978.9  | 1135.3 |
| Shot weight (PS)              | g     | 107.3          | 146.0 | 190.8 | 150.5          | 227.1 | 283.0 | 273.9         | 341.3 | 416.1 | 441.2         | 537.9 | 689.3 | 537.9          | 689.3 | 885.4 | 537.9          | 689.3 | 885.4 | 767.3          | 900.6  | 1044.4 |
| Screw diameter                | mm    | 30             | 35    | 40    | 35             | 43    | 48    | 43            | 48    | 53    | 48            | 53    | 60    | 53             | 60    | 68    | 53             | 60    | 68    | 60             | 65     | 70     |
| Injection pressure            | MPa   | 252.8          | 185.7 | 142.2 | 257.1          | 170.4 | 136.7 | 203.0         | 162.9 | 133.6 | 210.8         | 172.9 | 134.9 | 217.1          | 169.4 | 131.9 | 217.1          | 169.4 | 131.9 | 217.0          | 184.9  | 159.5  |
| Injection rate                | g/s   | 69.6           | 94.8  | 123.8 | 87.7           | 132.4 | 165.0 | 142.1         | 177.1 | 216.0 | 177.1         | 216.0 | 276.8 | 227.5          | 291.6 | 374.5 | 227.5          | 291.6 | 374.5 | 284.6          | 334.0  | 387.3  |
| Screw L:D ratio               | L/D   | 24:1           | 20:1  | 20:1  | 24:1           | 20:1  | 20:1  | 22.3:1        | 20:1  | 20:1  | 22:1          | 20:1  | 20:1  | 22.6:1         | 20: 1 | 20: 1 | 22.6:1         | 20: 1 | 20: 1 | 22.6:1         | 20.9:1 | 19.4:1 |
| Plasticizing rate (GPPS)      | g/s   | 10.6           | 15.2  | 20.4  | 16.8           | 25.2  | 30.8  | 27.3          | 33.8  | 41.1  | 24.2          | 31.5  | 42.6  | 33.1           | 52.5  | 62.1  | 33.1           | 52.5  | 62.1  | 43.5           | 55.2   | 67.2   |
| Max. injection speed          | mm/s  | 107.1          |       |       | 99.1           |       |       | 106.4         |       |       | 106.4         |       |       | 112.1          |       |       | 112.1          |       |       | 109.4          |        |        |
| Screw stroke                  | mm    | 165            |       |       | 170            |       |       | 205           |       |       | 265           |       |       | 265            |       |       | 265            |       |       | 295            |        |        |
| Screw speed                   | r/min | 0-206          |       |       | 0-218          |       |       | 0-265         |       |       | 0-205         |       |       | 0-226          |       |       | 0-226          |       |       | 0-230          |        |        |
| Clamping Unit                 |       |                |       |       |                |       |       |               |       |       |               |       |       |                |       |       |                |       |       |                |        |        |
| Clamping force                | KN    | 900            |       |       | 1200           |       |       | 1600          |       |       | 2000          |       |       | 2600           |       |       | 2900           |       |       | 3200           |        |        |
| Opening stroke                | mm    | 330            |       |       | 360            |       |       | 420           |       |       | 460           |       |       | 530            |       |       | 590            |       |       | 640            |        |        |
| Space between tie bars (W×H)  | mm×mm | 360×360        |       |       | 410×410        |       |       | 470×470       |       |       | 510×510       |       |       | 570×570        |       |       | 630×630        |       |       | 680×680        |        |        |
| Max. daylight                 | mm    | 710            |       |       | 810            |       |       | 940           |       |       | 980           |       |       | 1100           |       |       | 1220           |       |       | 1320           |        |        |
| Mold thickness (min.-max.)    | mm    | 130-380        |       |       | 145-450        |       |       | 160-520       |       |       | 180-520       |       |       | 205-570        |       |       | 220-630        |       |       | 220-680        |        |        |
| Ejector stroke                | mm    | 100            |       |       | 120            |       |       | 140           |       |       | 150           |       |       | 160            |       |       | 170            |       |       | 170            |        |        |
| Ejector number                | -     | 5              |       |       | 5              |       |       | 5             |       |       | 5             |       |       | 13             |       |       | 13             |       |       | 13             |        |        |
| Ejector force                 | kN    | 28             |       |       | 42             |       |       | 42            |       |       | 49            |       |       | 77             |       |       | 77             |       |       | 77             |        |        |
| Power Unit                    |       |                |       |       |                |       |       |               |       |       |               |       |       |                |       |       |                |       |       |                |        |        |
| Max. system pressure          | MPa   | 17.5           |       |       | 17.5           |       |       | 17.5          |       |       | 17.5          |       |       | 17.5           |       |       | 17.5           |       |       | 17.5           |        |        |
| Max. pump motor power         | kW    | 17.8           |       |       | 21.4           |       |       | 25.2          |       |       | 28.7          |       |       | 35.2           |       |       | 35.2           |       |       | 47.5           |        |        |
| Heating power                 | kW    | 6.9/7.8        |       |       | 9/10.1         |       |       | 10.9/12.1     |       |       | 13.06/15.36   |       |       | 16.6/19.1      |       |       | 13.06/15.36    |       |       | 23.1           |        |        |
| Number of temp. control zones | PCS   | 5              |       |       | 5              |       |       | 5             |       |       | 6             |       |       | 6              |       |       | 6              |       |       | 6              |        |        |
| General                       |       |                |       |       |                |       |       |               |       |       |               |       |       |                |       |       |                |       |       |                |        |        |
| Dry cycle time                | s     | 1.6            |       |       | 1.9            |       |       | 2.2           |       |       | 2.4           |       |       | 2.8            |       |       | 2.8            |       |       | 2.8            |        |        |
| Oil tank capacity             | L     | 120            |       |       | 146            |       |       | 193           |       |       | 248           |       |       | 332            |       |       | 332            |       |       | 408            |        |        |
| Machine dimensions (L×W×H)    | m×m×m | 4.33×1.15×1.91 |       |       | 4.46×1.21×1.97 |       |       | 4.85×1.3×2.11 |       |       | 5.38×1.37×2.2 |       |       | 6.12×1.54×2.39 |       |       | 6.28×1.62×2.43 |       |       | 6.74×1.64×2.44 |        |        |
| Machine weight                | kg    | 3000           |       |       | 3400           |       |       | 4400          |       |       | 5300          |       |       | 7200           |       |       | 8400           |       |       | 9400           |        |        |

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

# Specifications of T350-1000P5

| Description                   | UNIT  | T350P5/1800   |        |        |        | T400P5/2260    |        |        |        | T480P5/3200    |        |        |        | T560P5/4200       |        |        |        | T650P5/4500       |        |        |        | T800P5/6780     |        |        |        | T1000P5/9015    |  |       |  |
|-------------------------------|-------|---------------|--------|--------|--------|----------------|--------|--------|--------|----------------|--------|--------|--------|-------------------|--------|--------|--------|-------------------|--------|--------|--------|-----------------|--------|--------|--------|-----------------|--|-------|--|
| Injection model               |       | IU1800        |        |        |        | IU2260         |        |        |        | IU3200         |        |        |        | IU4200            |        |        |        | IU4500            |        |        |        | IU6780          |        |        |        | IU9015          |  |       |  |
| International specifications  |       | 1810/3500     |        |        |        | 2268/4000      |        |        |        | 3216/4800      |        |        |        | 4209/5600         |        |        |        | 4460/6500         |        |        |        | 6792/8000       |        |        |        | 9022/10000      |  |       |  |
| Injection Unit                |       |               |        |        |        |                |        |        |        |                |        |        |        |                   |        |        |        |                   |        |        |        |                 |        |        |        |                 |  |       |  |
| Theoretical shot volume       | cm³   | 834.1         | 978.9  | 1135.3 | 1095.0 | 1270.0         | 1658.7 | 1423.9 | 1859.8 | 2459.5         | 2211.6 | 2438.3 | 2924.9 | 3455.7            | 2211.6 | 2438.3 | 2924.9 | 3455.7            | 3190.8 | 3769.8 | 4397.1 | 5072.6          | 4319.6 | 5038.3 | 5812.4 | 6749.3          |  |       |  |
| Shot weight (PS)              | g     | 767.3         | 900.6  | 1044.4 | 1007.4 | 1168.4         | 1526.0 | 1310.0 | 1711.0 | 2262.8         | 2034.7 | 2243.2 | 2690.9 | 3179.2            | 2034.7 | 2243.2 | 2690.9 | 3179.2            | 2935.5 | 3468.2 | 4045.3 | 4666.8          | 3974.0 | 4635.3 | 5347.4 | 6209.4          |  |       |  |
| Screw diameter                | mm    | 60            | 65     | 70     | 65     | 70             | 80     | 70     | 80     | 92             | 80     | 84     | 92     | 100               | 80     | 84     | 92     | 100               | 92     | 100    | 108    | 116             | 100    | 108    | 116    | 125             |  |       |  |
| Injection pressure            | MPa   | 217.0         | 184.9  | 159.5  | 207.1  | 178.6          | 136.7  | 225.9  | 172.9  | 130.8          | 190.3  | 172.6  | 143.9  | 121.8             | 201.7  | 182.9  | 152.5  | 129.1             | 212.9  | 180.2  | 154.5  | 133.9           | 208.9  | 179.1  | 155.2  | 133.7           |  |       |  |
| Injection rate                | g/s   | 284.6         | 334.0  | 387.3  | 298.3  | 345.9          | 451.8  | 341.7  | 446.2  | 590.2          | 470.3  | 518.5  | 622.0  | 734.8             | 443.9  | 489.4  | 587.1  | 693.6             | 580.4  | 685.7  | 799.8  | 922.7           | 665.5  | 776.2  | 895.4  | 1039.8          |  |       |  |
| Screw L:D ratio               | L/D   | 22.6:1        | 20.9:1 | 19.4:1 | 21.5:1 | 20:1           | 20:1   | 22.8:1 | 20:1   | 20:1           | 23.2:1 | 22:1   | 21.7:1 | 20:1              | 23.2:1 | 22:1   | 21.7:1 | 20:1              | 21.7:1 | 22:1   | 21.5:1 | 20:1            | 21.7:1 | 22:1   | 21.5:1 | 20:1            |  |       |  |
| Plasticizing rate (GPPS)      | g/s   | 43.5          | 55.2   | 67.2   | 48.2   | 59.8           | 84.1   | 55.2   | 73.8   | 82.9           | 66.2   | 72.5   | 82.5   | 86                | 66.2   | 72.5   | 91.5   | 88.2              | 90.2   | 105.3  | 124.3  | 143.2           | 90.2   | 106.7  | 132.2  | 143.5           |  |       |  |
| Max. injection speed          | mm/s  | 109.4         |        |        |        | 97.7           |        |        |        | 96.5           |        |        |        | 101.7             |        |        |        | 96.0              |        |        |        | 94.9            |        |        |        | 92.1            |  |       |  |
| Screw stroke                  | mm    | 295           |        |        |        | 330            |        |        |        | 370            |        |        |        | 440               |        |        |        | 440               |        |        |        | 480             |        |        |        | 550             |  |       |  |
| Screw speed                   | r/min | 0-195         |        |        |        | 0-176          |        |        |        | 0-154          |        |        |        | 0-144             |        | 0-128  |        | 0-147             |        | 0-128  |        | 0-143           |        | 0-120  |        | 0-118           |  | 0-106 |  |
| Clamping Unit                 |       |               |        |        |        |                |        |        |        |                |        |        |        |                   |        |        |        |                   |        |        |        |                 |        |        |        |                 |  |       |  |
| Clamping force                | KN    | 3500          |        |        |        | 4000           |        |        |        | 4800           |        |        |        | 5600              |        |        |        | 6500              |        |        |        | 8000            |        |        |        | 10000           |  |       |  |
| Opening stroke                | mm    | 660           |        |        |        | 700            |        |        |        | 780            |        |        |        | 850               |        |        |        | 900               |        |        |        | 1040            |        |        |        | 1220            |  |       |  |
| Space between tie bars (WxH)  | mm×mm | 710×710       |        |        |        | 730×730        |        |        |        | 830×810        |        |        |        | 850×810           |        |        |        | 930×930           |        |        |        | 1000×1000       |        |        |        | 1160×1160       |  |       |  |
| Max. daylight                 | mm    | 1370          |        |        |        | 1430           |        |        |        | 1590           |        |        |        | 1700              |        |        |        | 1800              |        |        |        | 2040            |        |        |        | 2380            |  |       |  |
| Mold thickness (min.-max.)    | mm    | 250-710       |        |        |        | 240-730        |        |        |        | 260-810        |        |        |        | 330-850           |        |        |        | 350-900           |        |        |        | 400-1000        |        |        |        | 450-1160        |  |       |  |
| Ejector stroke                | mm    | 210           |        |        |        | 210            |        |        |        | 220            |        |        |        | 220               |        |        |        | 280               |        |        |        | 280             |        |        |        | 320             |  |       |  |
| Ejector number                | -     | 13            |        |        |        | 13             |        |        |        | 17             |        |        |        | 17                |        |        |        | 21                |        |        |        | 21              |        |        |        | 21              |  |       |  |
| Ejector force                 | kN    | 110           |        |        |        | 110            |        |        |        | 110            |        |        |        | 166               |        |        |        | 182               |        |        |        | 182             |        |        |        | 274             |  |       |  |
| Power Unit                    |       |               |        |        |        |                |        |        |        |                |        |        |        |                   |        |        |        |                   |        |        |        |                 |        |        |        |                 |  |       |  |
| Max. system pressure          | MPa   | 17.5          |        |        |        | 17.5           |        |        |        | 17.5           |        |        |        | 17.5              |        |        |        | 17.5              |        |        |        | 17.5            |        |        |        | 17.5            |  |       |  |
| Max. pump motor power         | kW    | 47.5          |        |        |        | 47.5           |        |        |        | 58.6           |        |        |        | 66                |        |        |        | 66                |        |        |        | 76.4            |        |        |        | 88.4            |  |       |  |
| Heating power                 | kW    | 22.9          |        |        |        | 26.95/27.44    |        |        |        | 31.6/39.22     |        |        |        | 33.97/33.97/40.97 |        |        |        | 35.17/35.17/40.97 |        |        |        | 47.32/54        |        |        |        | 58.87/66.57     |  |       |  |
| Number of temp. control zones | PCS   | 6             |        |        |        | 6              |        |        |        | 7              |        |        |        | 7                 |        |        |        | 7                 |        |        |        | 7               |        |        |        | 8               |  |       |  |
| General                       |       |               |        |        |        |                |        |        |        |                |        |        |        |                   |        |        |        |                   |        |        |        |                 |        |        |        |                 |  |       |  |
| Dry cycle time                | s     | 3.2           |        |        |        | 3.2            |        |        |        | 3.5            |        |        |        | 3.6               |        |        |        | 5                 |        |        |        | 5.4             |        |        |        | 6.2             |  |       |  |
| Oil tank capacity             | L     | 408           |        |        |        | 408            |        |        |        | 515            |        |        |        | 596               |        |        |        | 596               |        |        |        | 823             |        |        |        | 926             |  |       |  |
| Machine dimensions (L×W×H)    | m×m×m | 7.07×1.9×2.37 |        |        |        | 7.46×1.94×2.37 |        |        |        | 8.23×2.06×2.43 |        |        |        | 8.44×2.11×2.39    |        |        |        | 9.04×2.29×2.52    |        |        |        | 10.25×2.43×2.67 |        |        |        | 11.35×2.64×2.86 |  |       |  |
| Machine weight                | kg    | 12300         |        |        |        | 13300          |        |        |        | 16800          |        |        |        | 18000             |        |        |        | 22700             |        |        |        | 32800           |        |        |        | 41900           |  |       |  |

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke

2. Shot weight = theoretical shot volume × 0.92 (GPPS)

3. Due to improvement, specifications may be changed without prior notice.

4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

# Specifications of T1200-2800P5

| Description                   | UNIT  | T1200P5/9015    |        |        |        | T1300P5/10500   |        |        |        | T1400P5/10500 |        |        |        | T1600P5/14500   |        |         |         | T1850P5/14500  |        |         |         | T2400P5/21215   |         |         |         | T2800P5/29880   |         |         |  |
|-------------------------------|-------|-----------------|--------|--------|--------|-----------------|--------|--------|--------|---------------|--------|--------|--------|-----------------|--------|---------|---------|----------------|--------|---------|---------|-----------------|---------|---------|---------|-----------------|---------|---------|--|
| Injection model               |       | IU9015          |        |        |        | IU10470         |        |        |        | IU10470       |        |        |        | IU14470         |        |         |         | IU14470        |        |         |         | IU21215         |         |         |         | IU29880         |         |         |  |
| International specifications  |       | 9022/12000      |        |        |        | 10471/13000     |        |        |        | 10471/14000   |        |        |        | 14473/16000     |        |         |         | 14473/18500    |        |         |         | 21215/24000     |         |         |         | 29880/28000     |         |         |  |
| Injection Unit                |       |                 |        |        |        |                 |        |        |        |               |        |        |        |                 |        |         |         |                |        |         |         |                 |         |         |         |                 |         |         |  |
| Theoretical shot volume       | cm³   | 4319.6          | 5038.3 | 5812.4 | 6749.3 | 5221.7          | 6023.9 | 6994.9 | 8158.9 | 5221.7        | 6023.9 | 6994.9 | 8158.9 | 7976.7          | 9304.0 | 10733.4 | 12265.0 | 7976.7         | 9304.0 | 10733.4 | 12265.0 | 12384.7         | 14151.9 | 16036.8 | 19085.2 | 17925.7         | 20313.3 | 24174.5 |  |
| Shot weight (PS)              | g     | 3974.0          | 4635.3 | 5347.4 | 6209.4 | 4804.0          | 5542.0 | 6435.4 | 7506.2 | 4804.0        | 5542.0 | 6435.4 | 7506.2 | 7338.6          | 8559.7 | 9874.8  | 11283.8 | 7338.6         | 8559.7 | 9874.8  | 11283.8 | 11394.0         | 13019.7 | 14753.9 | 17558.3 | 16491.7         | 18688.3 | 22240.6 |  |
| Screw diameter                | mm    | 100             | 108    | 116    | 125    | 108             | 116    | 125    | 135    | 108           | 116    | 125    | 135    | 125             | 135    | 145     | 155     | 125            | 135    | 145     | 155     | 145             | 155     | 165     | 180     | 155             | 165     | 180     |  |
| Injection pressure            | MPa   | 208.9           | 179.1  | 155.2  | 133.7  | 200.5           | 173.8  | 149.7  | 128.3  | 200.5         | 173.8  | 149.7  | 128.3  | 181.4           | 155.6  | 134.8   | 118.0   | 181.4          | 155.6  | 134.8   | 118.0   | 171.3           | 149.9   | 132.3   | 111.2   | 166.7           | 147.1   | 123.6   |  |
| Injection rate                | g/s   | 690.8           | 805.7  | 929.5  | 1079.3 | 818             | 943    | 1095   | 1277   | 818           | 943    | 1095   | 1277   | 1018            | 1188   | 1370    | 1566    | 1018           | 1188   | 1370    | 1566    | 1316            | 1504    | 1704    | 2028    | 1803            | 2044    | 2432    |  |
| Screw L:D ratio               | L/D   | 21.7:1          | 22:1   | 21.5:1 | 20:1   | 23.6:1          | 22:1   | 21.6:1 | 20:1   | 23.6:1        | 22:1   | 21.6:1 | 20:1   | 23.6:1          | 22:1   | 21.4:1  | 20:1    | 23.6:1         | 22:1   | 21.4:1  | 20:1    | 23.5:1          | 22:1    | 20.6:1  | 22:1    | 23.4:1          | 22:1    | 20:1    |  |
| Plasticizing rate (GPPS)      | g/s   | 90.2            | 106.7  | 132.2  | 143.5  | 100             | 110    | 120    | 128    | 100           | 110    | 120    | 128    | 114             | 128    | 138     | 141     | 114            | 128    | 138     | 141     | /               | /       | /       | /       | /               | /       | /       |  |
| Max. injection speed          | mm/s  | 95.6            |        |        |        | 97              |        |        |        | 97            |        |        |        | 90.2            |        |         |         | 90.2           |        |         |         | 87              |         |         |         | 104             |         |         |  |
| Screw stroke                  | mm    | 550             |        |        |        | 570             |        |        |        | 570           |        |        |        | 650             |        |         |         | 650            |        |         |         | 750             |         |         |         | 950             |         |         |  |
| Screw speed                   | r/min | 0-126           |        |        | 0-113  | 0-120           |        |        | 0-113  | 0-120         |        |        | 0-113  | 0-114           |        |         | 0-103   | 0-114          |        |         | 0-103   | 0-100           |         |         | 0-116   |                 |         |         |  |
| Clamping Unit                 |       |                 |        |        |        |                 |        |        |        |               |        |        |        |                 |        |         |         |                |        |         |         |                 |         |         |         |                 |         |         |  |
| Clamping force                | KN    | 12000           |        |        |        | 13000           |        |        |        | 14000         |        |        |        | 16000           |        |         |         | 18500          |        |         |         | 24000           |         |         |         | 28000           |         |         |  |
| Opening stroke                | mm    | 1310            |        |        |        | 1400            |        |        |        | 1500          |        |        |        | 1600            |        |         |         | 1650           |        |         |         | 1750            |         |         |         | 1950            |         |         |  |
| Space between tie bars (W×H)  | mm×mm | 1250×1250       |        |        |        | 1350×1280       |        |        |        | 1450×1350     |        |        |        | 1550×1430       |        |         |         | 1650×1500      |        |         |         | 1850×1650       |         |         |         | 1950×1800       |         |         |  |
| Max. daylight                 | mm    | 2560            |        |        |        | 2700            |        |        |        | 2900          |        |        |        | 3150            |        |         |         | 3250           |        |         |         | 3570            |         |         |         | 3830            |         |         |  |
| Mold thickness (min.-max.)    | mm    | 500-1250        |        |        |        | 600-1300        |        |        |        | 600-1400      |        |        |        | 650-1550        |        |         |         | 750-1600       |        |         |         | 850-1820        |         |         |         | 900-1880        |         |         |  |
| Ejector stroke                | mm    | 320             |        |        |        | 320             |        |        |        | 380           |        |        |        | 400             |        |         |         | 400            |        |         |         | 430             |         |         |         | 430             |         |         |  |
| Ejector number                | -     | 29              |        |        |        | 29              |        |        |        | 29            |        |        |        | 29              |        |         |         | 33             |        |         |         | 33              |         |         |         | 33              |         |         |  |
| Ejector force                 | kN    | 274             |        |        |        | 274             |        |        |        | 303           |        |        |        | 303             |        |         |         | 430            |        |         |         | 460             |         |         |         | 460             |         |         |  |
| Power Unit                    |       |                 |        |        |        |                 |        |        |        |               |        |        |        |                 |        |         |         |                |        |         |         |                 |         |         |         |                 |         |         |  |
| Max. system pressure          | MPa   | 17.5            |        |        |        | 17.5            |        |        |        | 17.5          |        |        |        | 17.5            |        |         |         | 17.5           |        |         |         | 17.5            |         |         |         | 17.5            |         |         |  |
| Max. pump motor power         | kW    | 98.4            |        |        |        | 108.9           |        |        |        | 108.9         |        |        |        | 138.2           |        |         |         | 138.2          |        |         |         | 70×3            |         |         |         | 70×4            |         |         |  |
| Heating power                 | kW    | 58.87/66.57     |        |        |        | 66.54/70.6      |        |        |        | 66.54/70.6    |        |        |        | 87.9            |        |         |         | 87.9           |        |         |         | 106.6           |         |         |         | 126.1           |         |         |  |
| Number of temp. control zones | PCS   | 8               |        |        |        | 8               |        |        |        | 8             |        |        |        | 8               |        |         |         | 8              |        |         |         | 10              |         |         |         | 10              |         |         |  |
| General                       |       |                 |        |        |        |                 |        |        |        |               |        |        |        |                 |        |         |         |                |        |         |         |                 |         |         |         |                 |         |         |  |
| Dry cycle time                | s     | 7.7             |        |        |        | 9.0             |        |        |        | 9.0           |        |        |        | 11.1            |        |         |         | 12.0           |        |         |         | 16.5            |         |         |         | 17.0            |         |         |  |
| Oil tank capacity             | L     | 968             |        |        |        | 1103            |        |        |        | 1103          |        |        |        | 1239            |        |         |         | 1239           |        |         |         | 2000            |         |         |         | 2300            |         |         |  |
| Machine dimensions (L×W×H)    | m×m×m | 11.86×2.87×2.99 |        |        |        | 12.63×2.98×2.99 |        |        |        | 13×3.12×3.08  |        |        |        | 14.19×3.39×3.17 |        |         |         | 14.42×3.5×3.27 |        |         |         | 16.38×3.93×3.76 |         |         |         | 17.84×4.12×4.00 |         |         |  |
| Machine weight                | kg    | 55800           |        |        |        | 63400           |        |        |        | 70000         |        |        |        | 85500           |        |         |         | 97300          |        |         |         | 145000          |         |         |         | 190000          |         |         |  |

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke

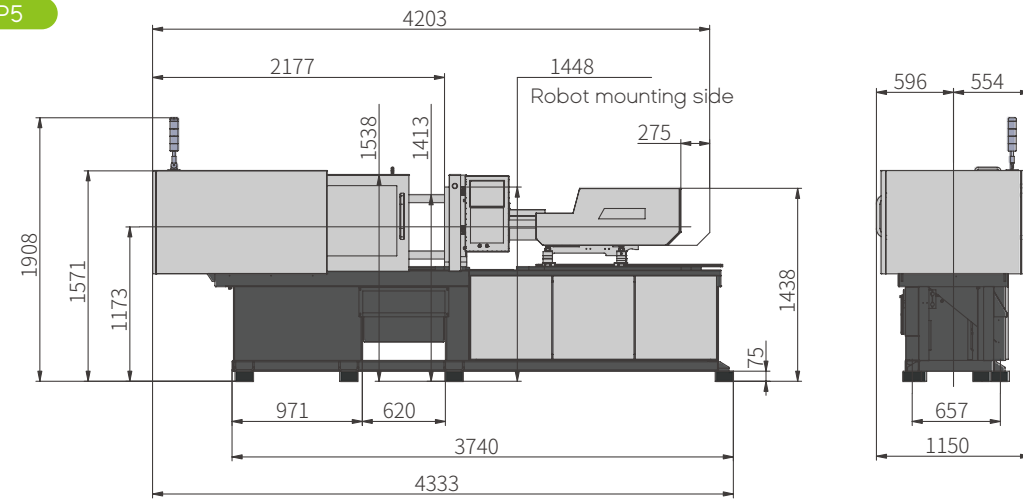
2. Shot weight = theoretical shot volume × 0.92 (GPPS)

3. Due to improvement, specifications may be changed without prior notice.

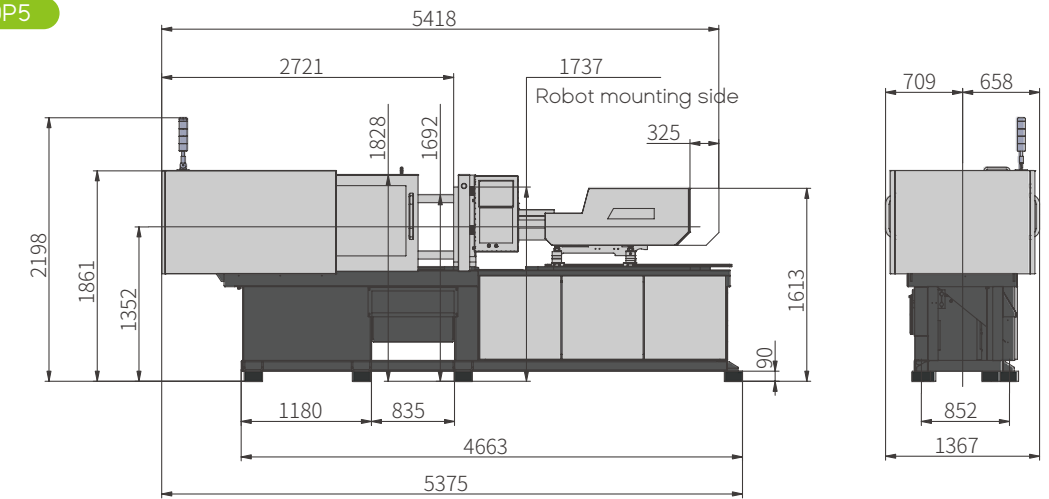
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

# Machine Dimensions

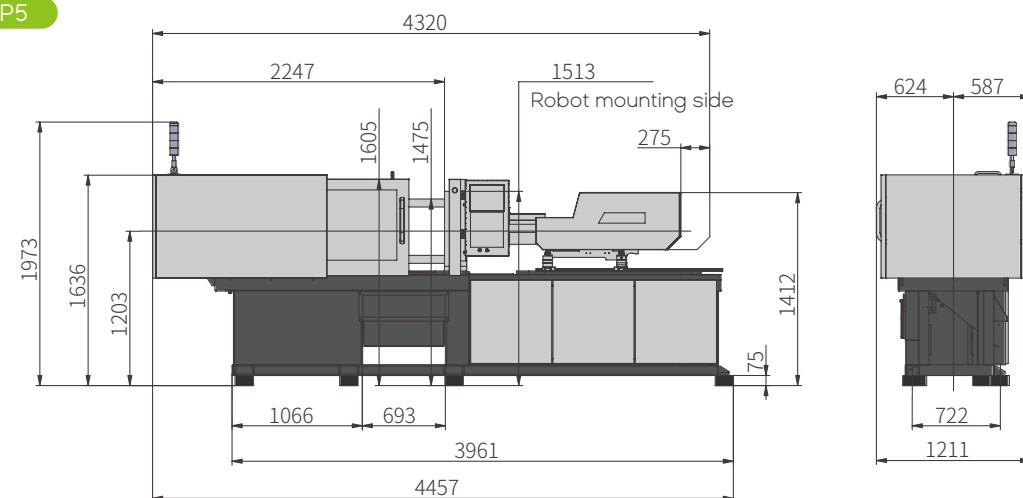
T90P5



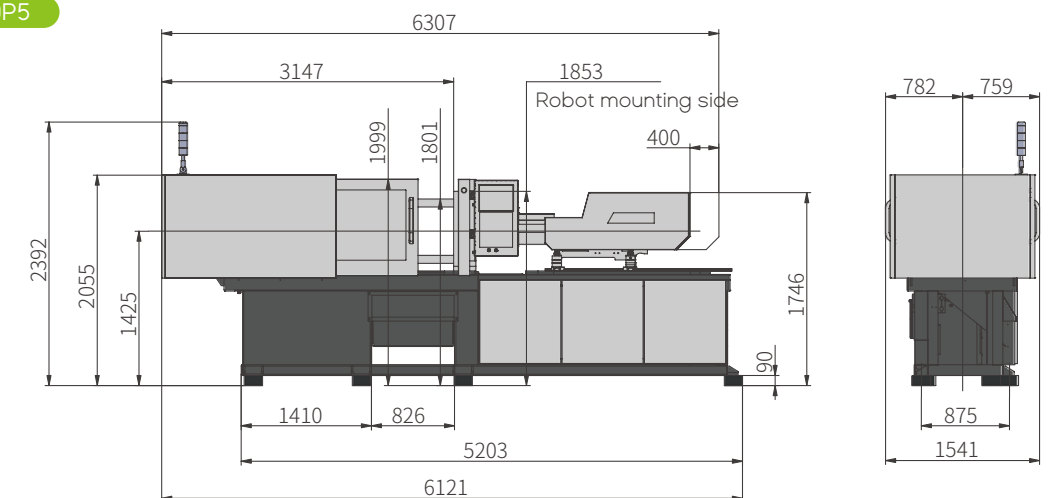
T200P5



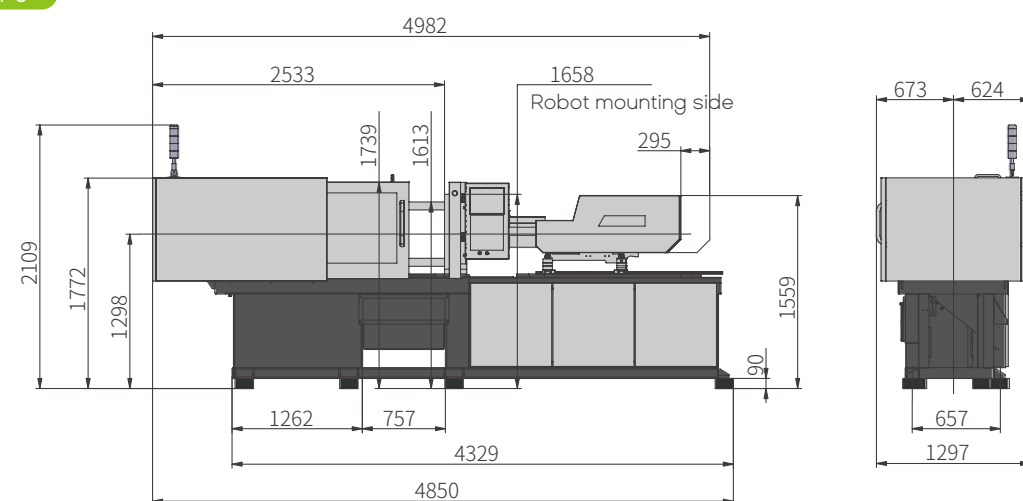
T120P5



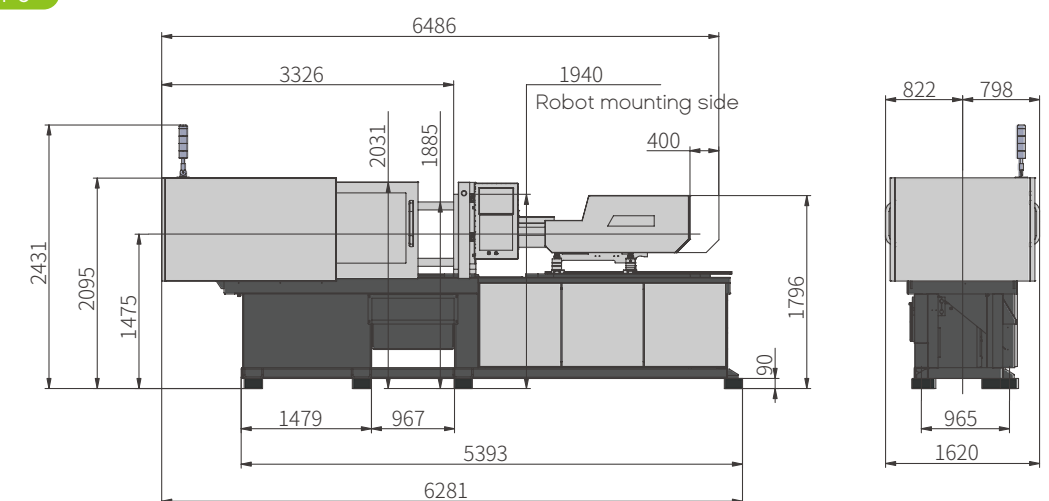
T260P5



T160P5



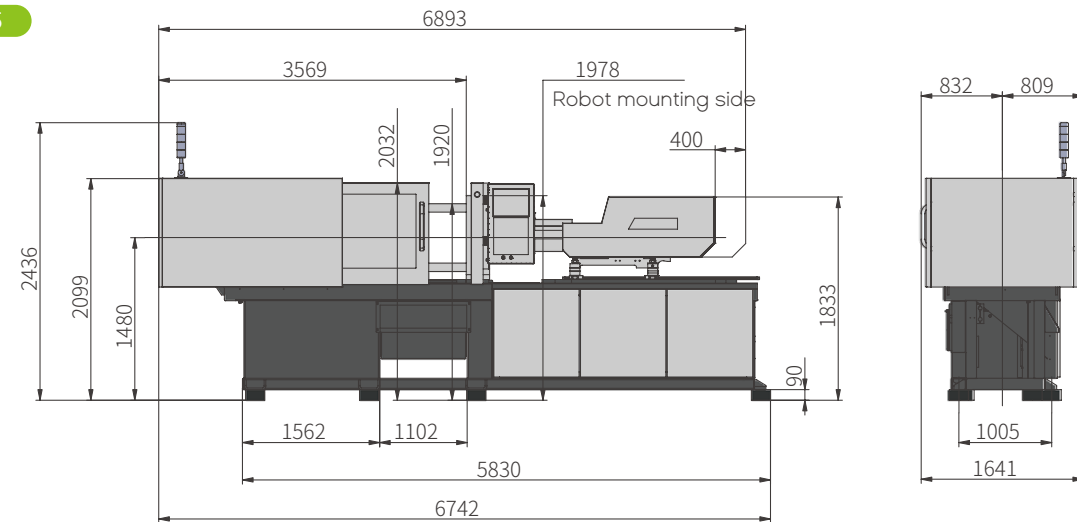
T290P5



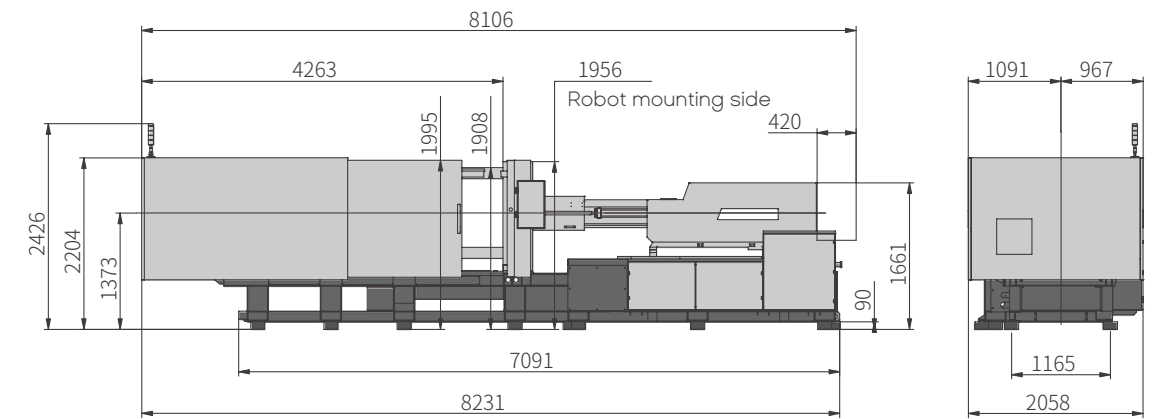
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Machine Dimensions

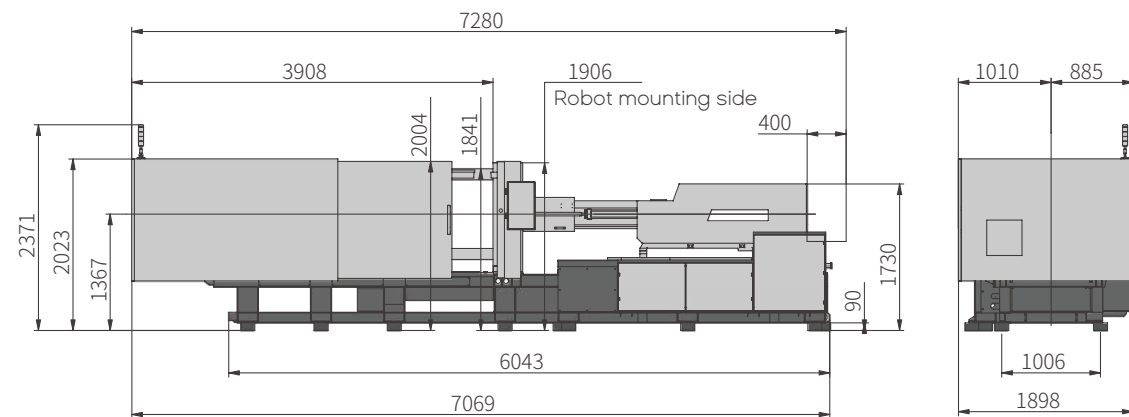
T320P5



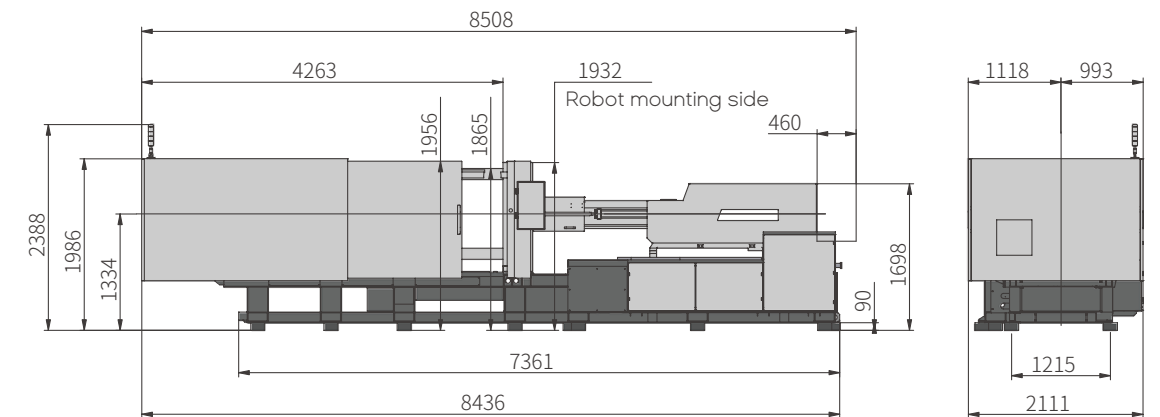
T480P5



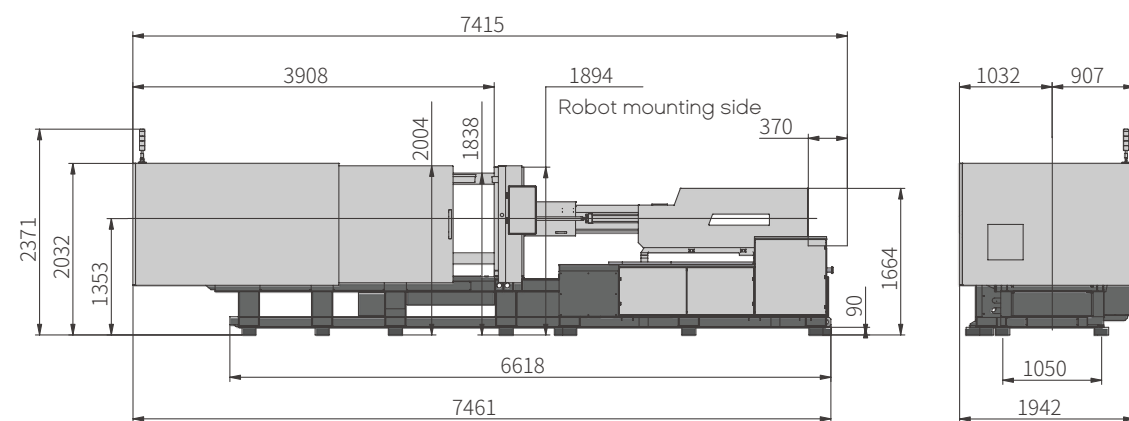
T350P5



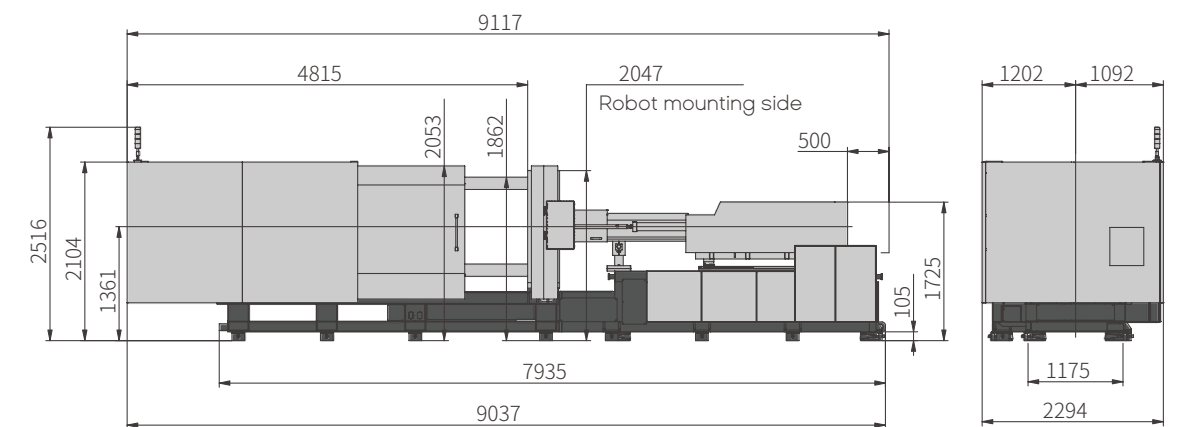
T560P5



T400P5



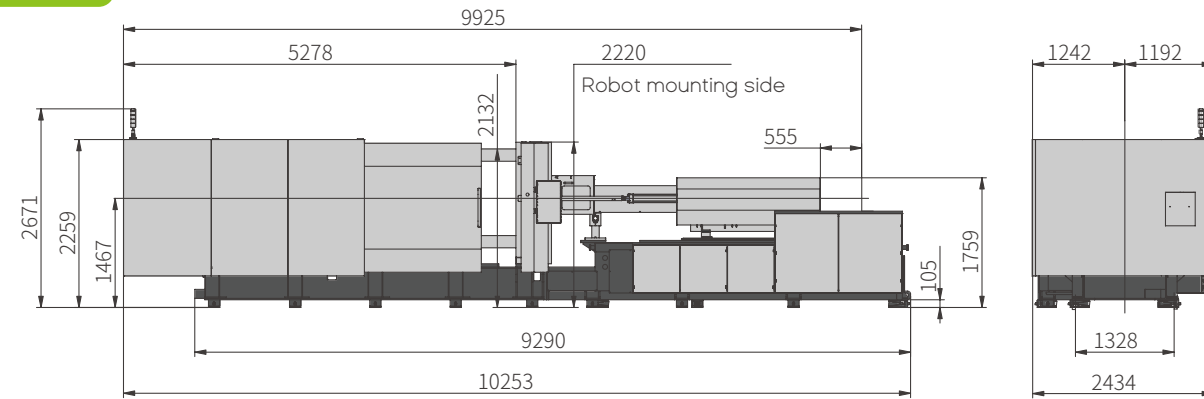
T650P5



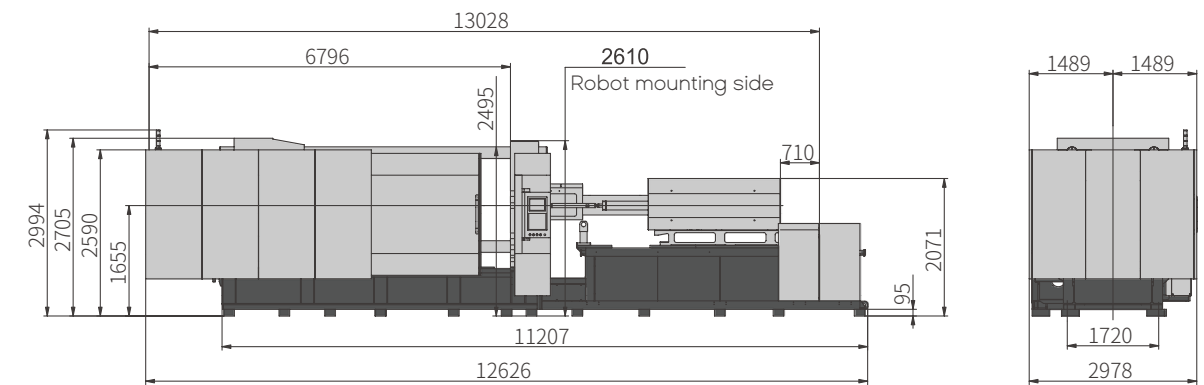
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Machine Dimensions

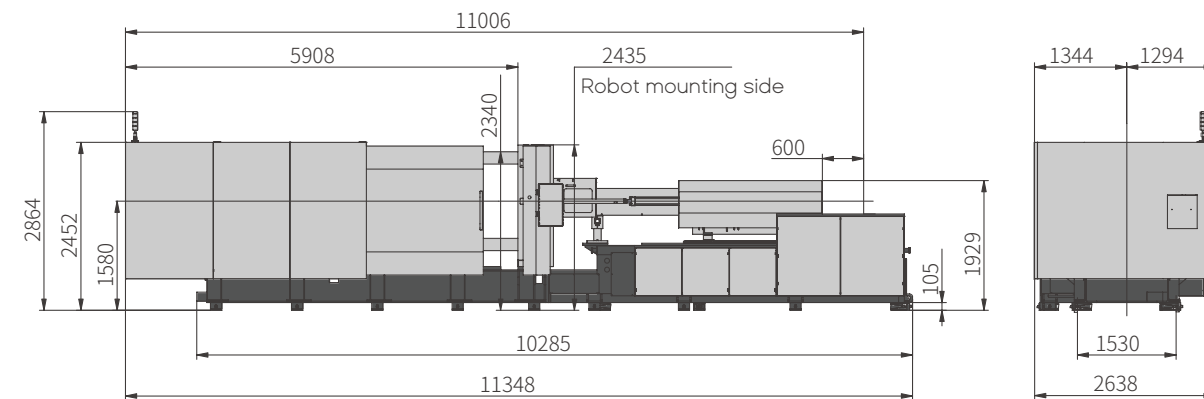
T800P5



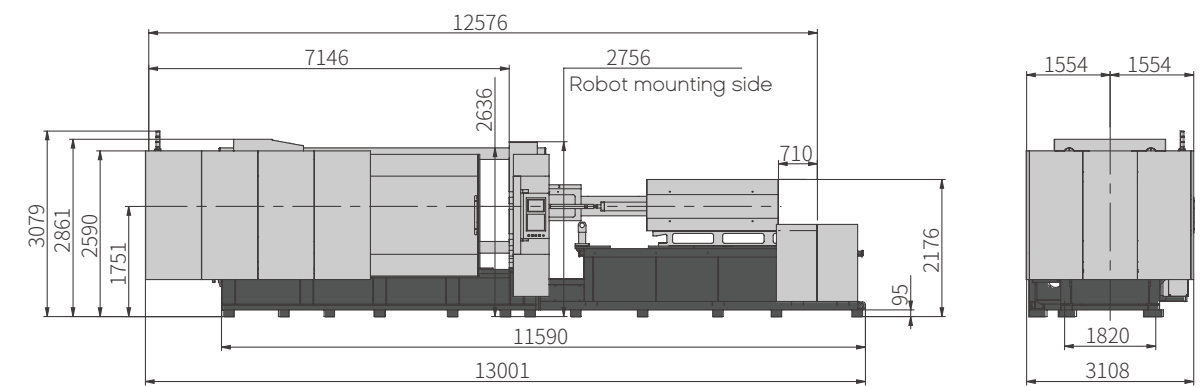
T1300P5



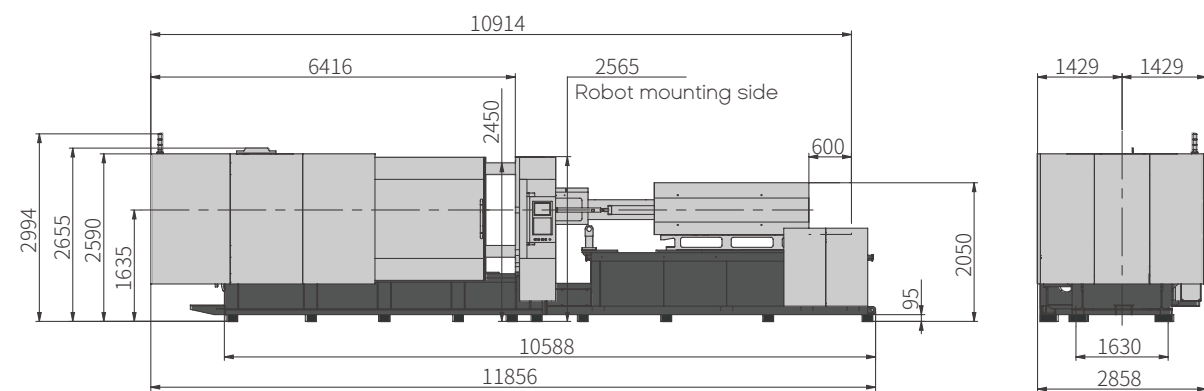
T1000P5



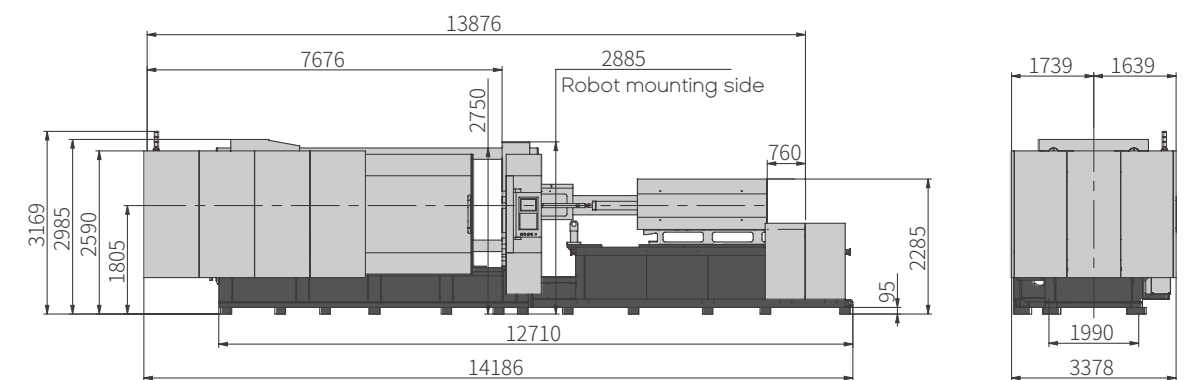
T1400P5



T1200P5



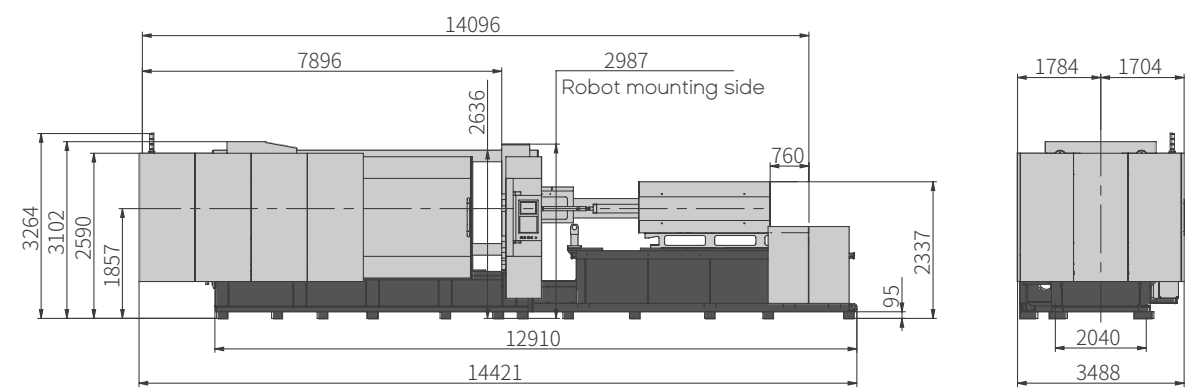
T1600P5



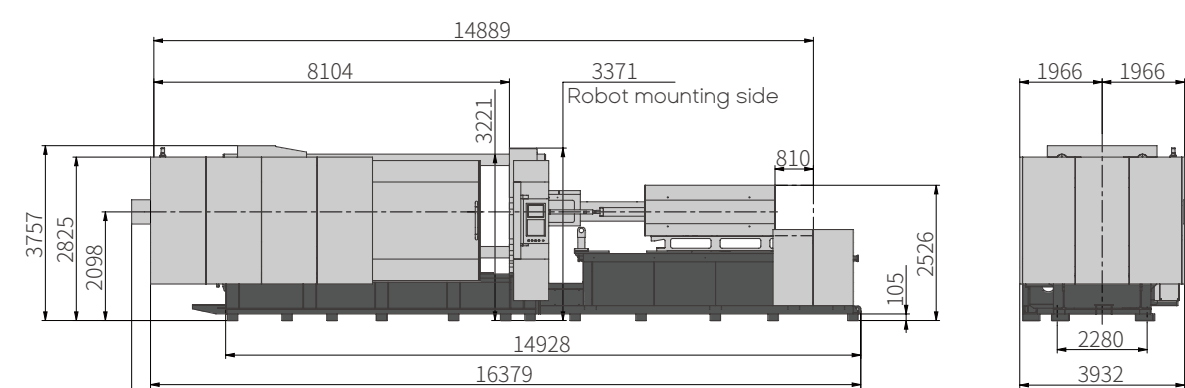
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Machine Dimensions

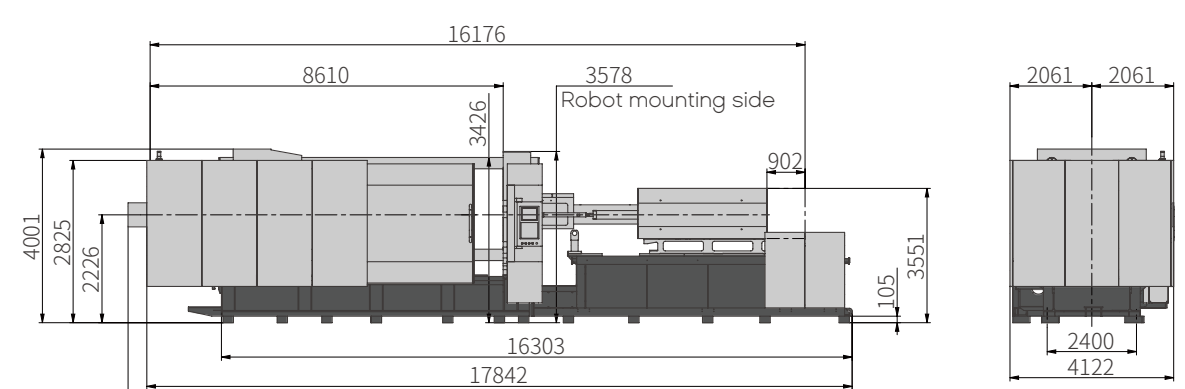
T1850P5



T2400P5

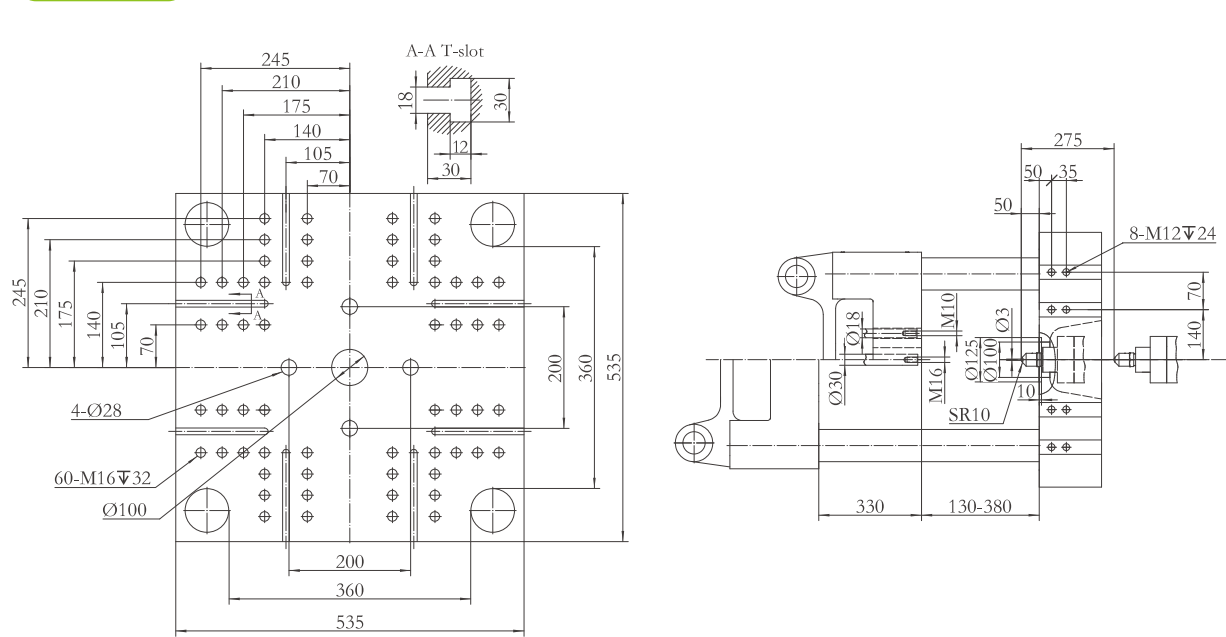


T2800P5

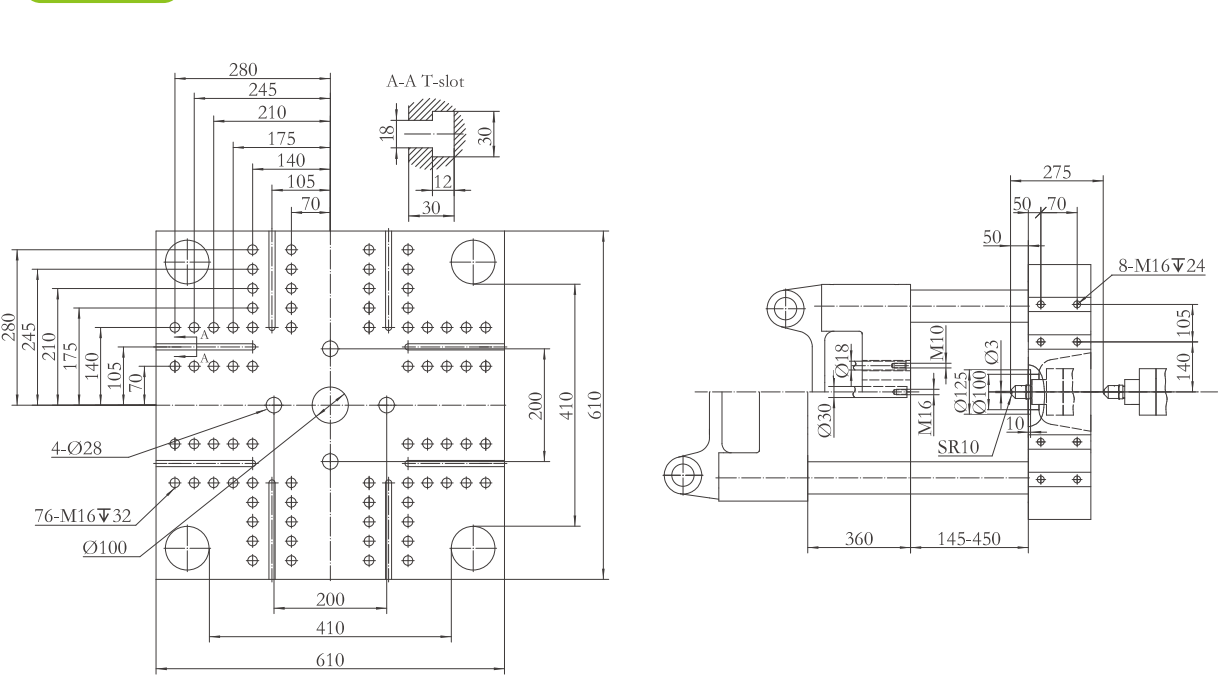


# Platen Dimensions

T90P5



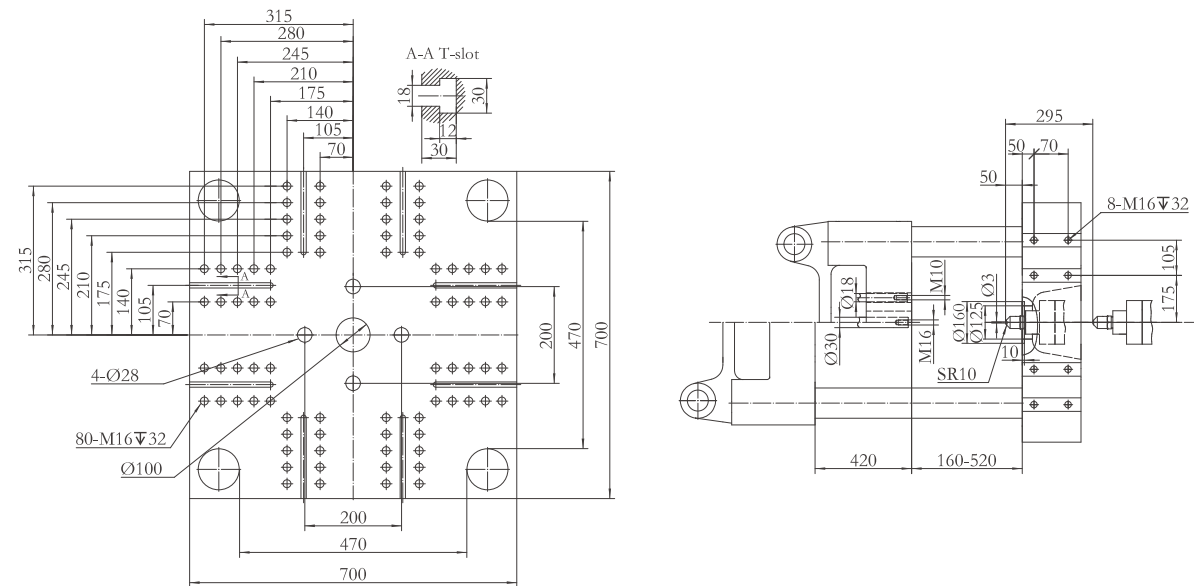
T120P5



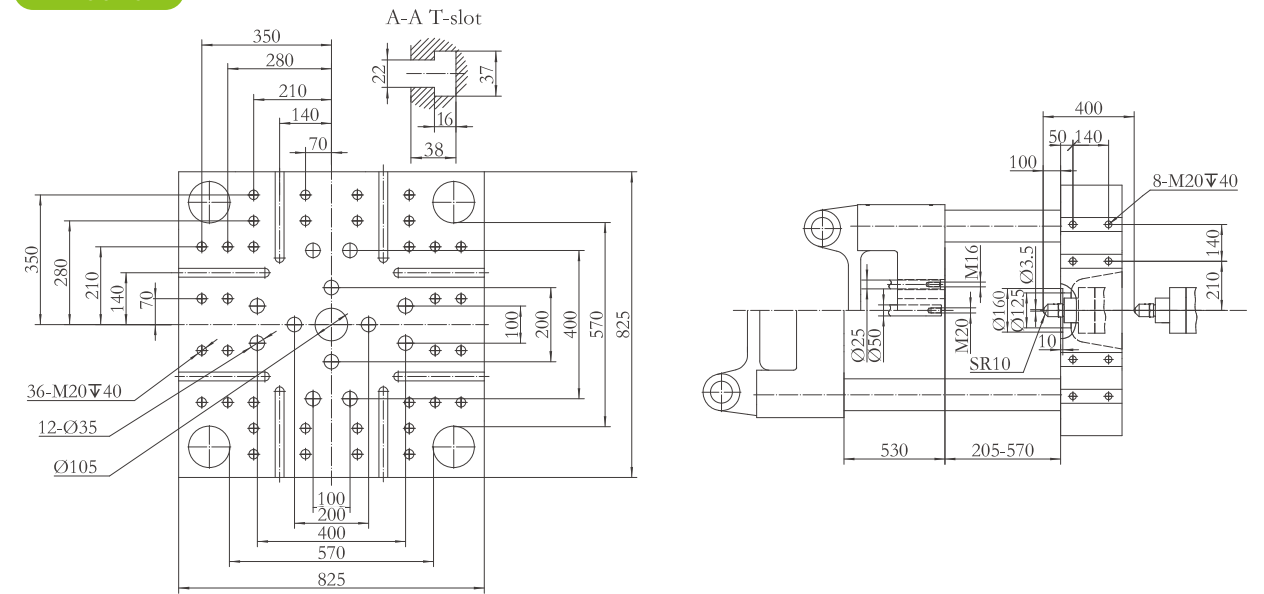
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Platen Dimensions

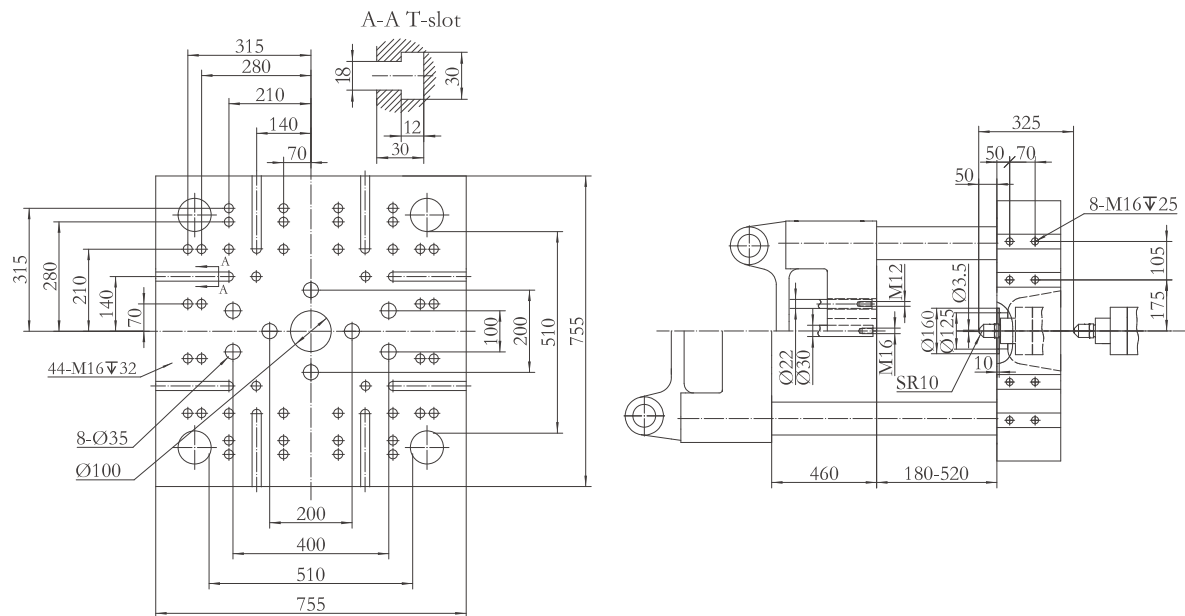
T160P5



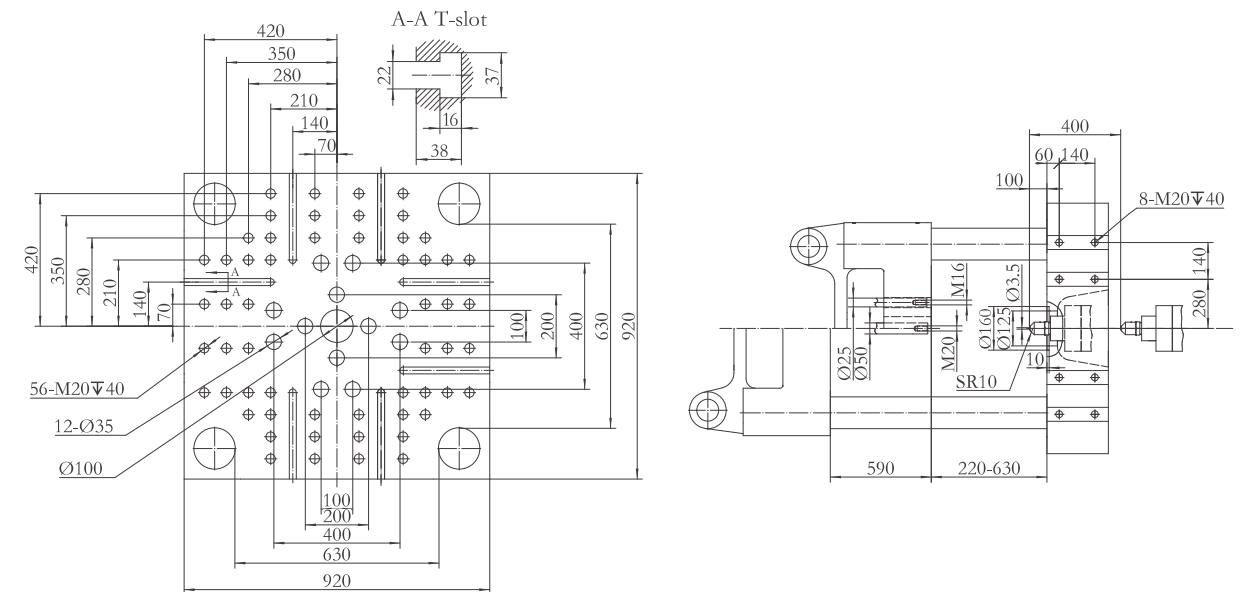
T260P5



T200P5



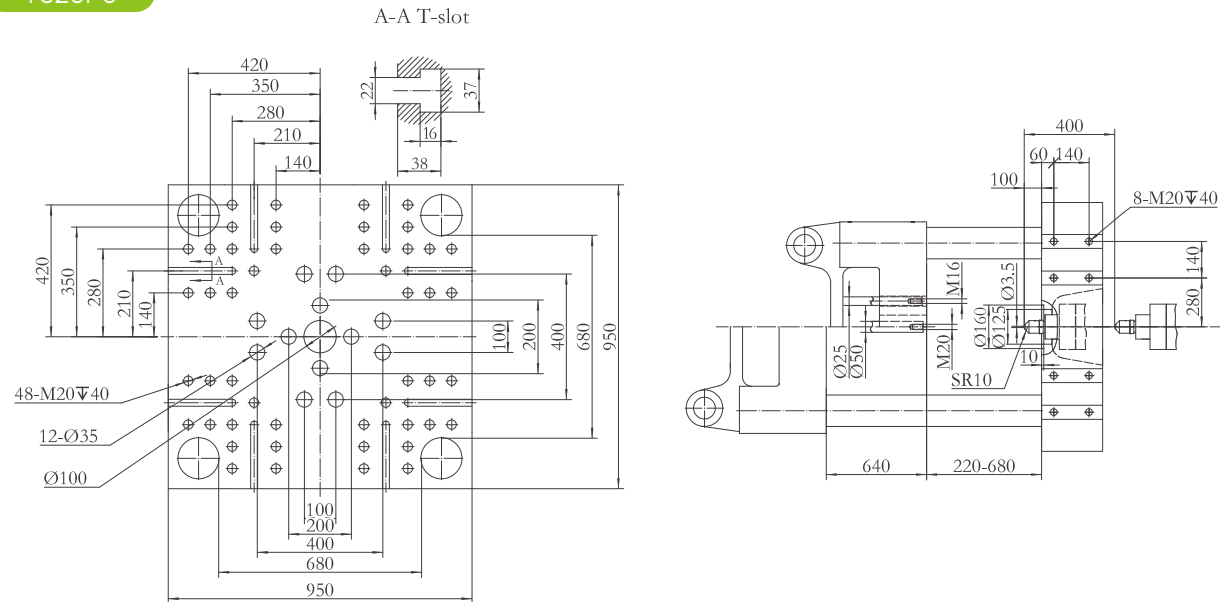
T290P5



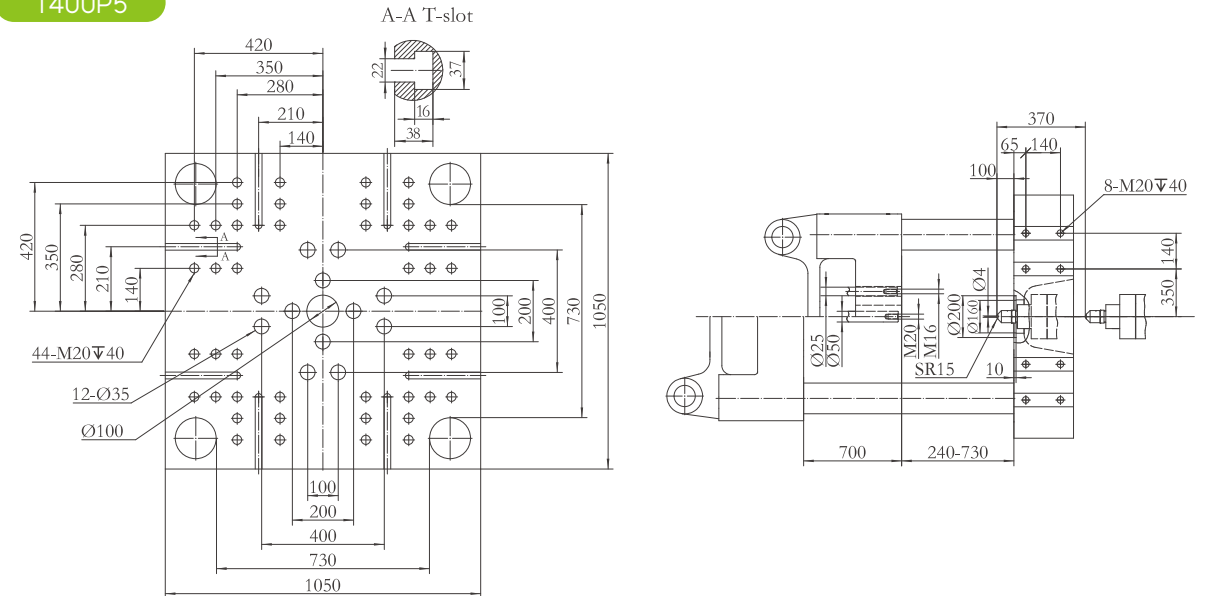
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Platen Dimensions

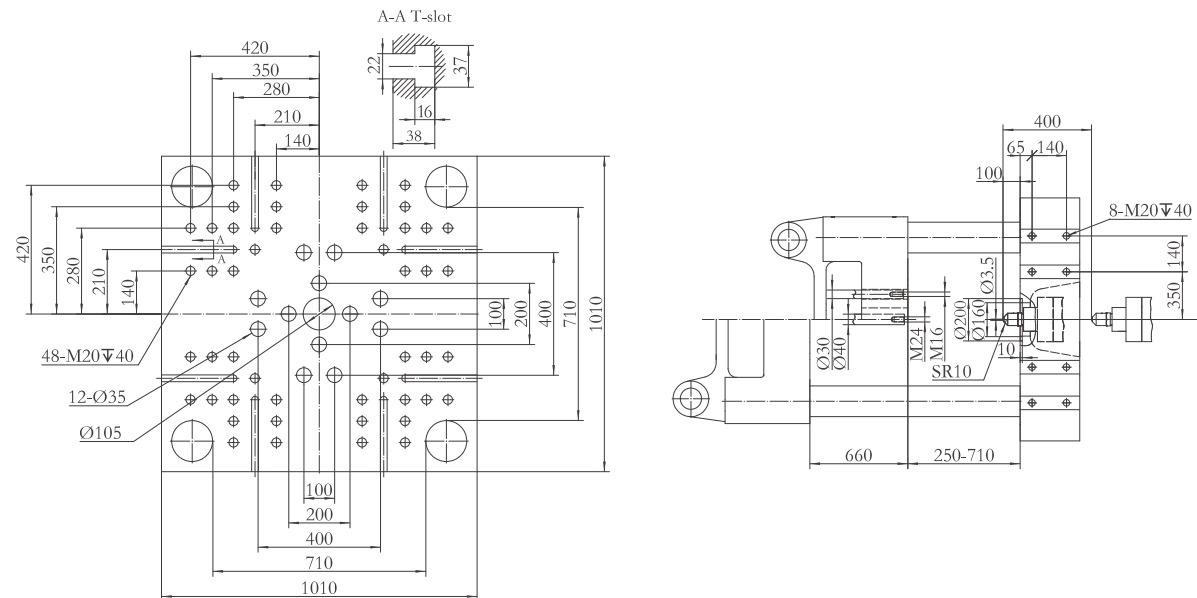
T320P5



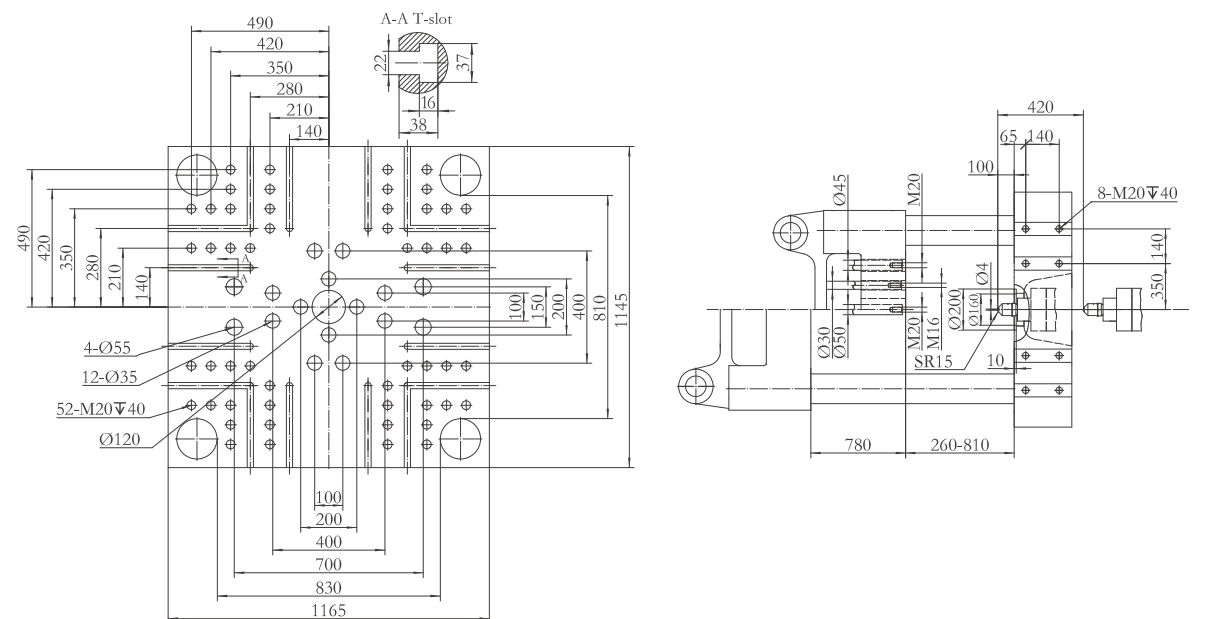
T400P5



T350P5

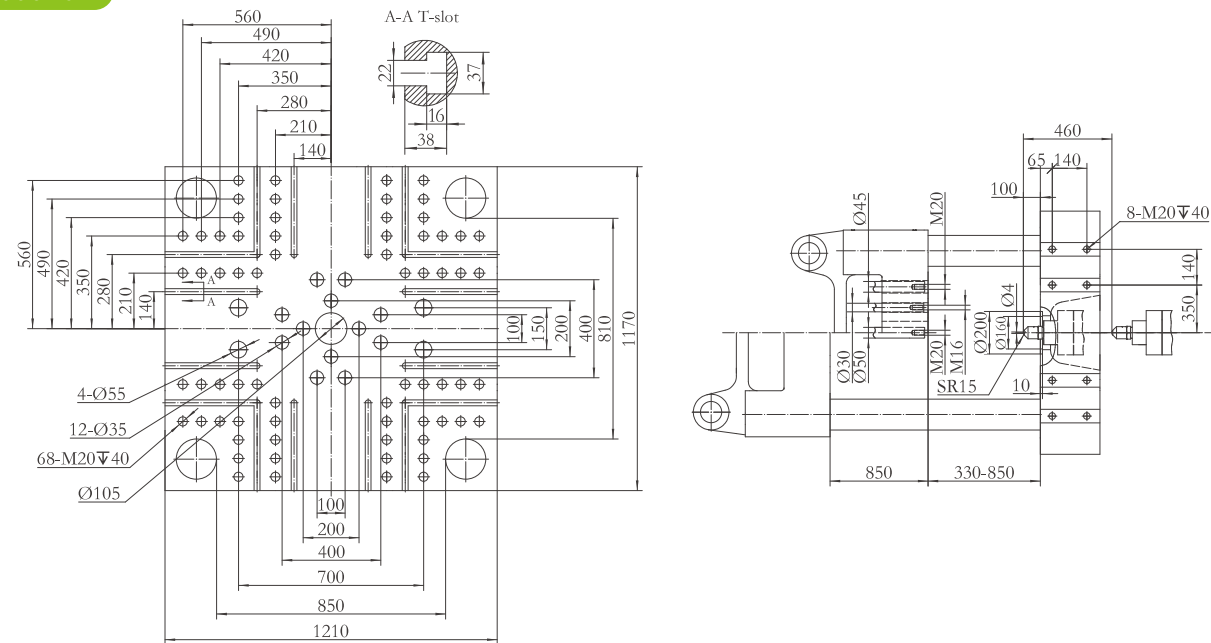
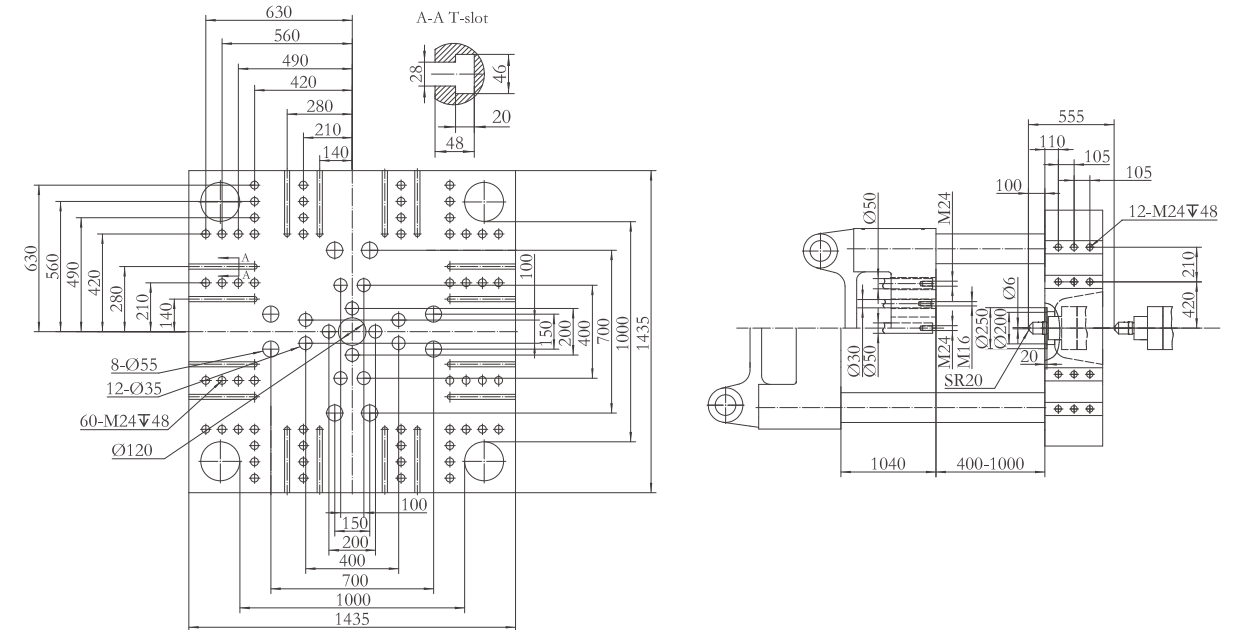
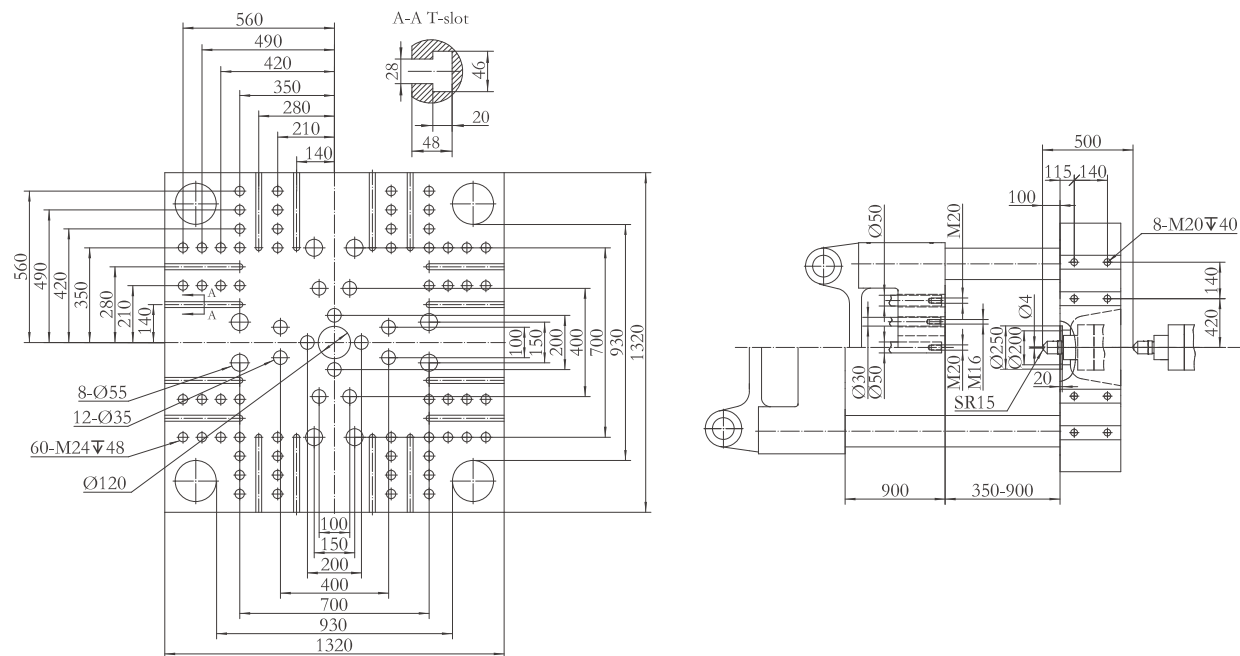
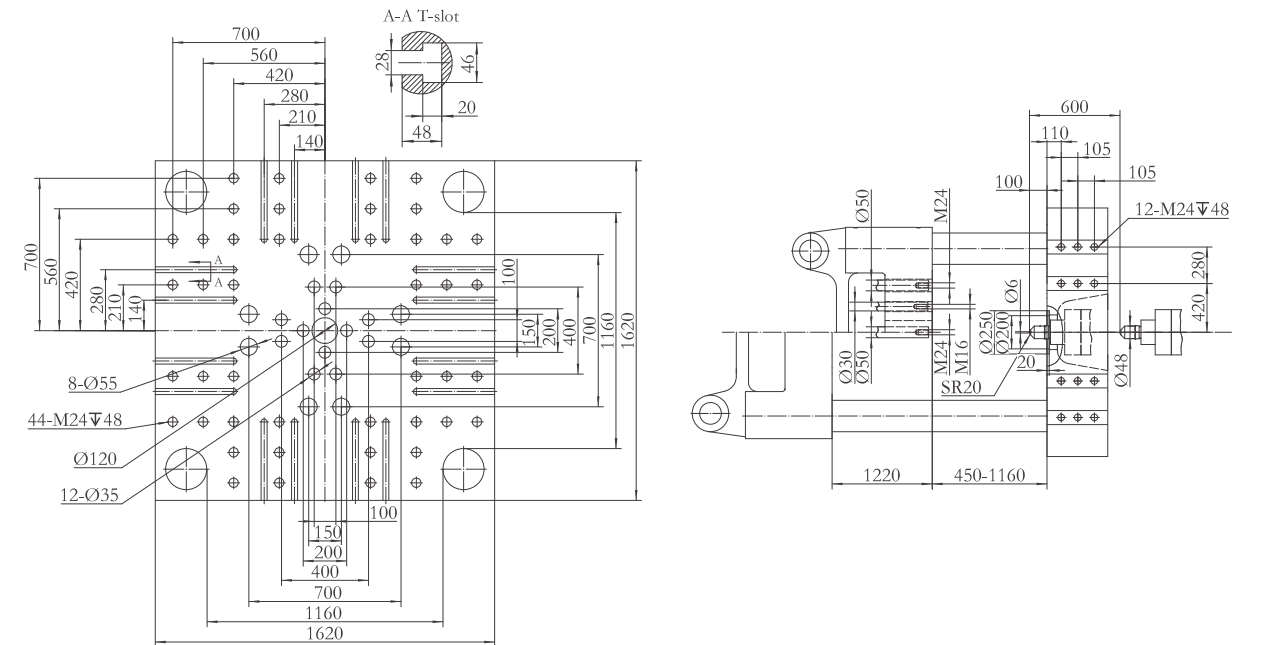


T480P5



\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

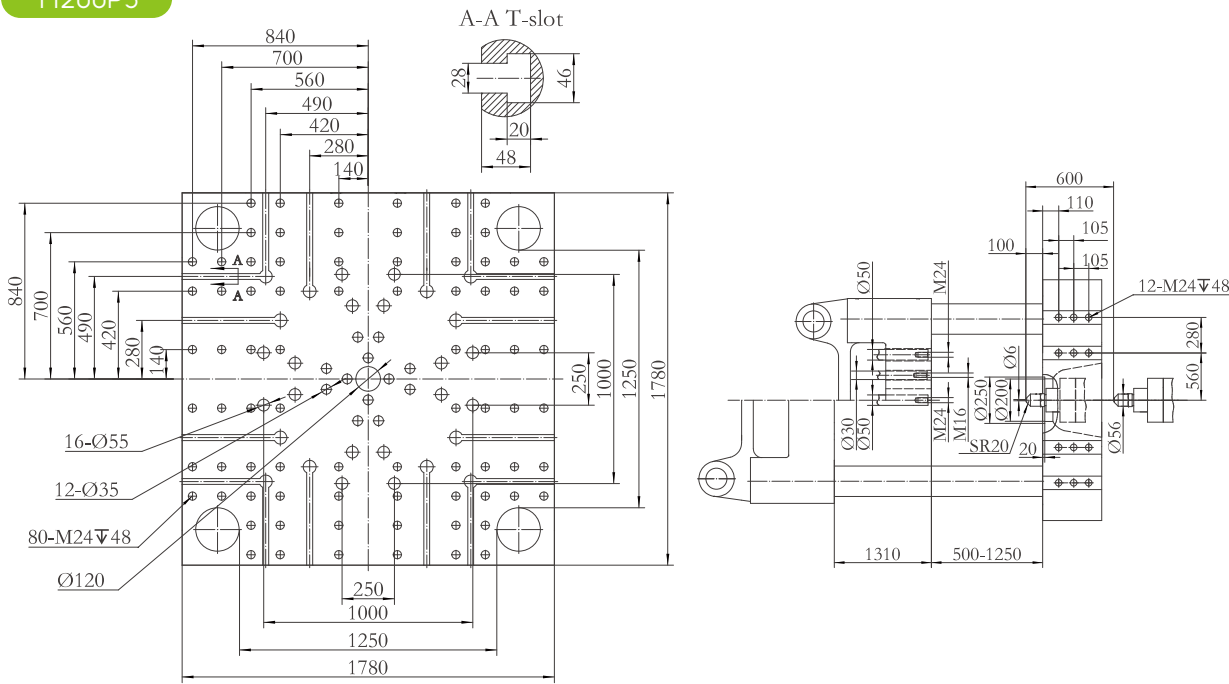
# Platen Dimensions

**T560P5**

**T800P5**

**T650P5**

**T1000P5**


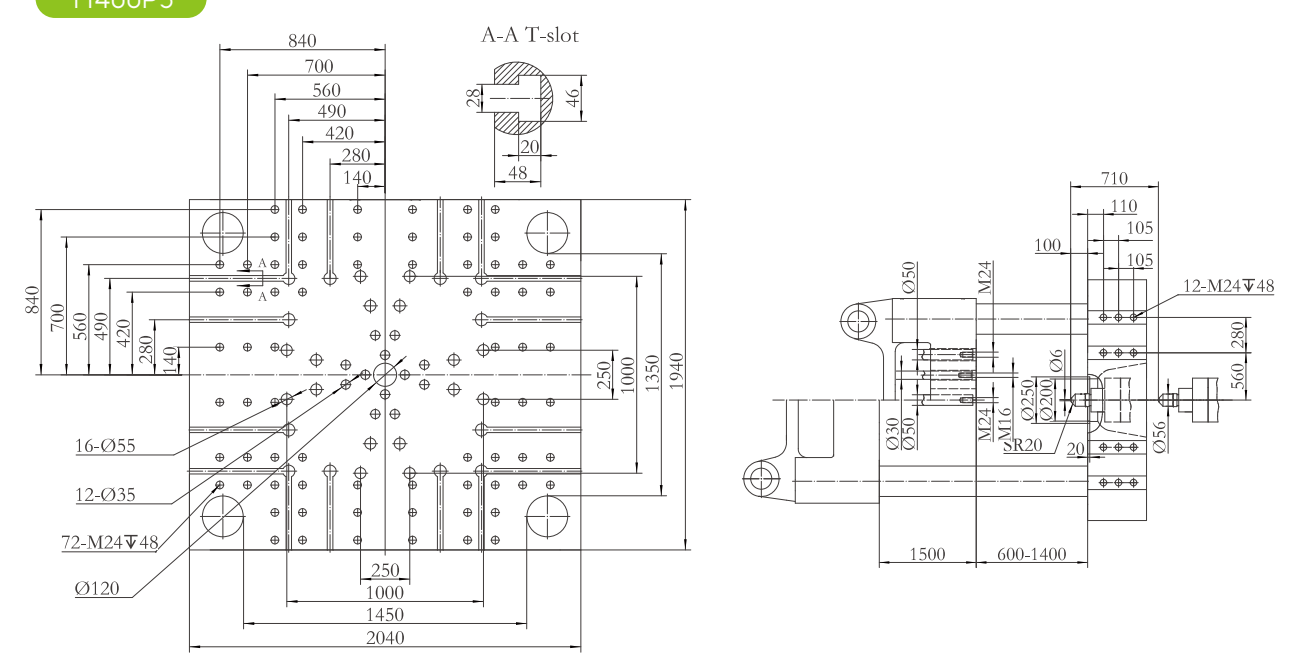
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Platen Dimensions

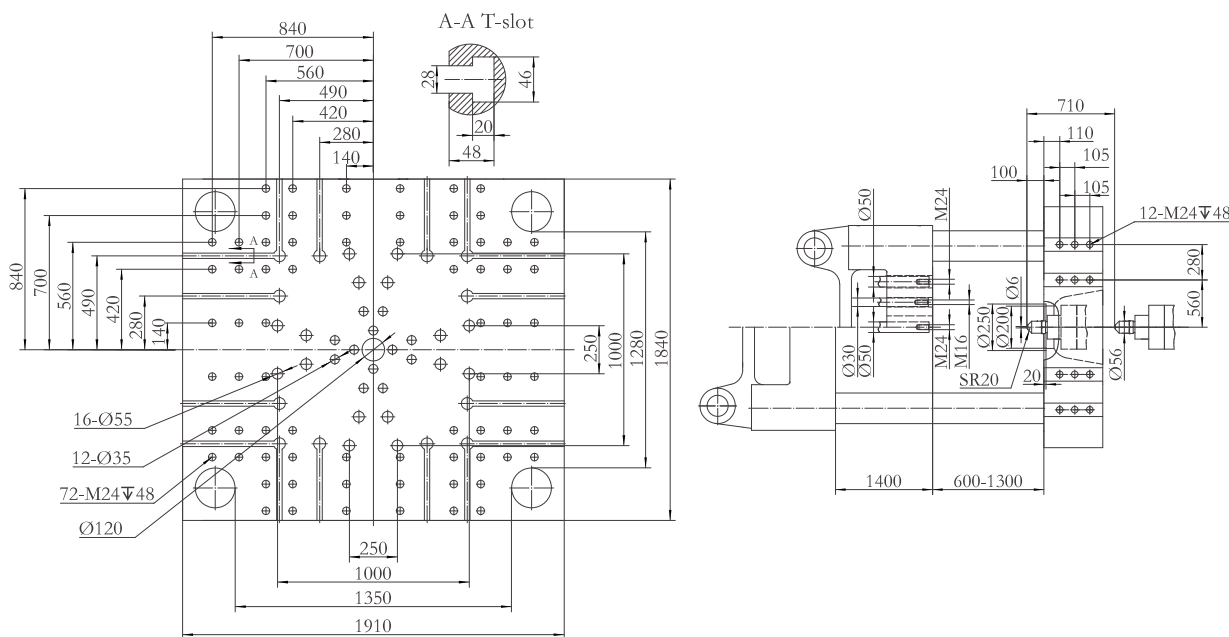
T1200P5



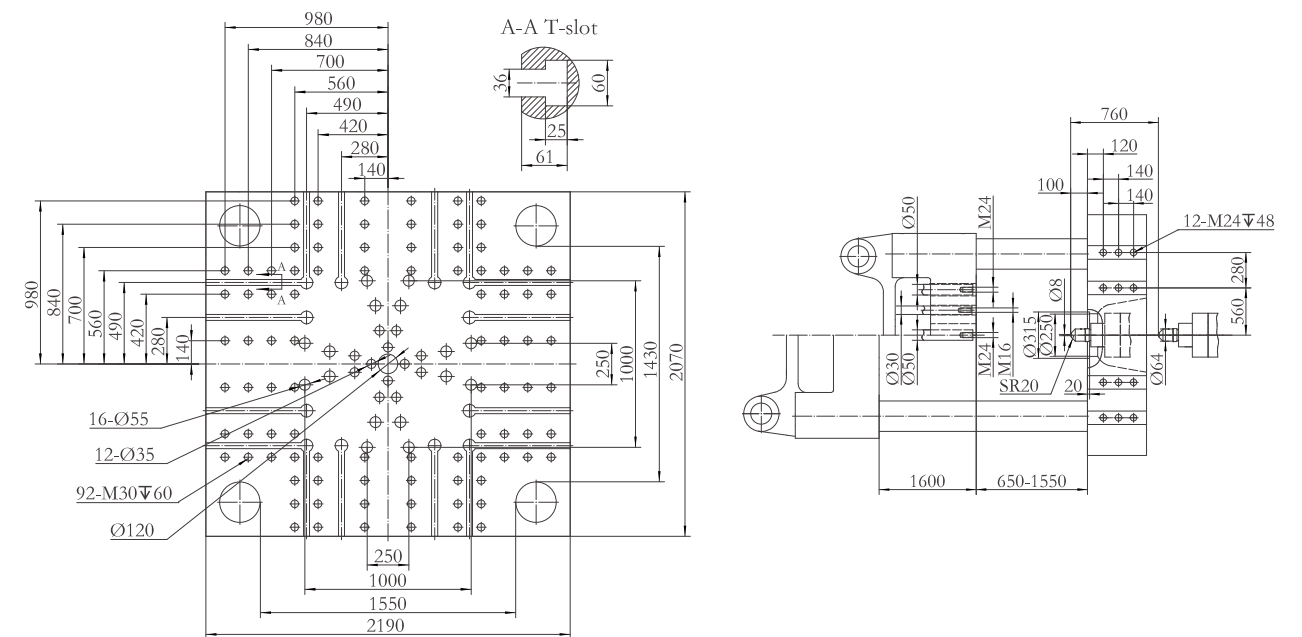
T1400P5



T1300P5



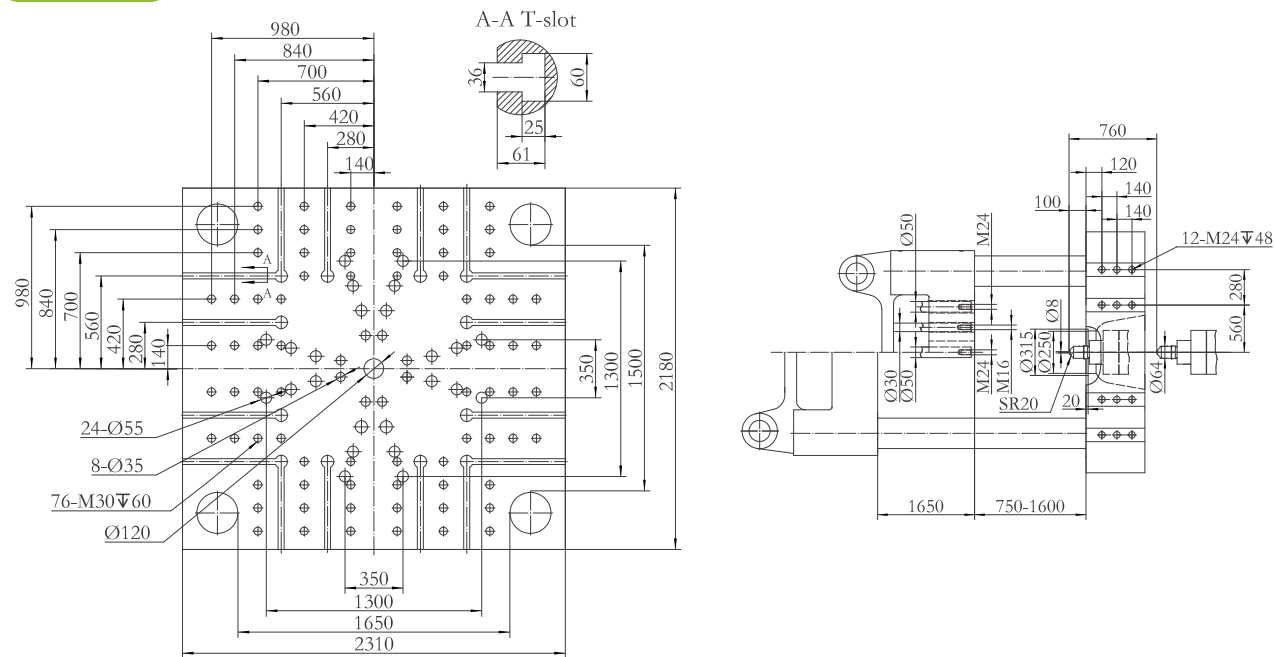
T1600P5



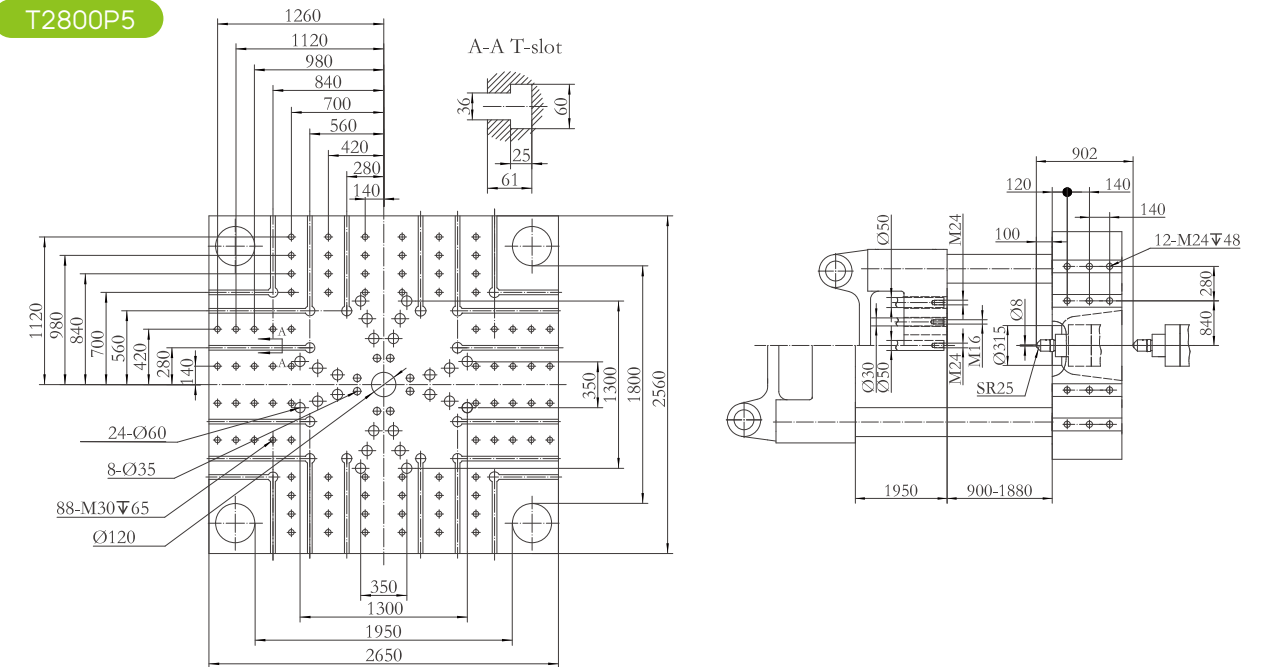
\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

# Platen Dimensions

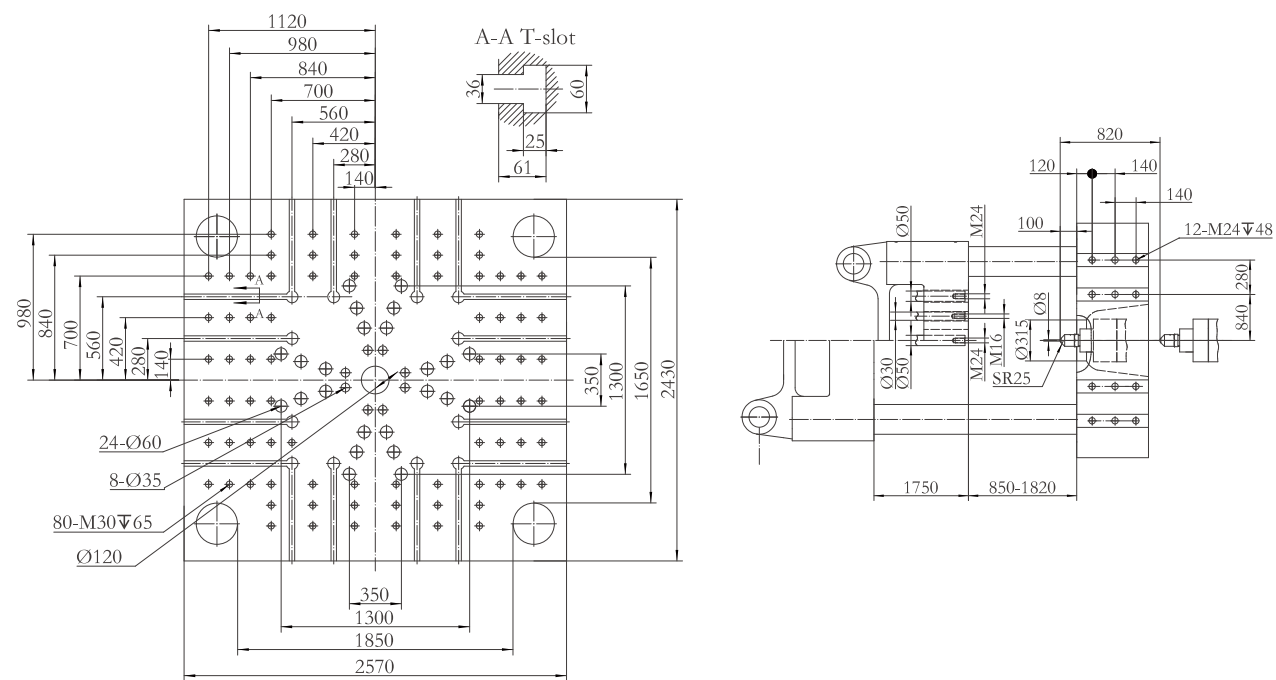
T1850P5



T2800P5

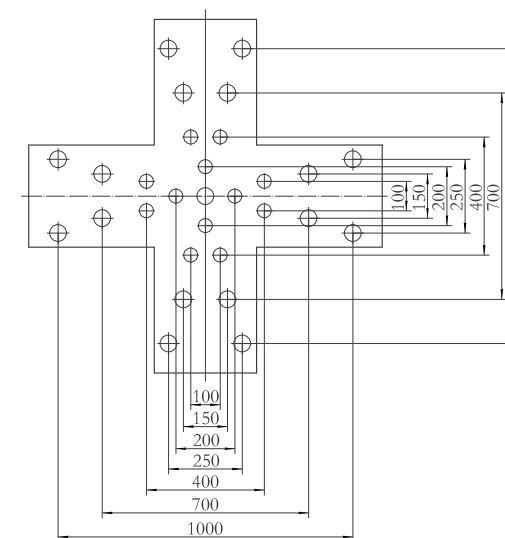


T2400P5

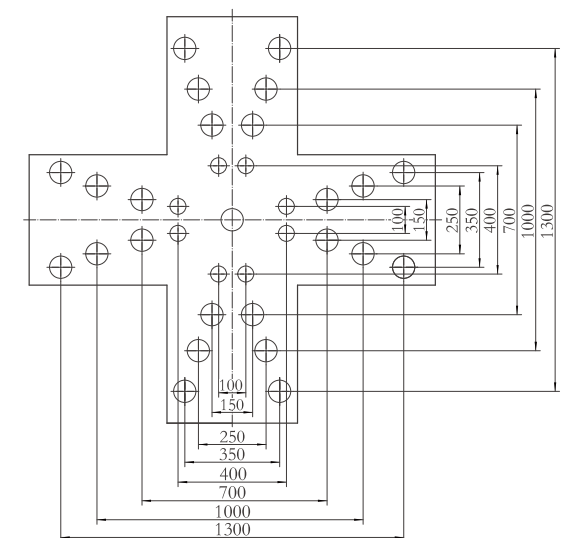


## Ejector Hole Layout Dimensions

T1200-1600P5



T1850-2800P5



\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

|                                                                                 | Standard | Optional |
|---------------------------------------------------------------------------------|----------|----------|
| Injection Unit                                                                  |          |          |
| Integrated injection unit with linear guides                                    | ●        |          |
| Balanced double injection cylinder                                              | ●        |          |
| Low-speed high-torque hydraulic motor                                           | ●        |          |
| Chrome-plated screw, nitrided barrel                                            | ●        |          |
| Energy-saving groove design of barrel (patented design)                         | ●        |          |
| Multi-stage PID barrel temperature control (5-6 stage)                          | ●        |          |
| Double carriage cylinder                                                        | ●        |          |
| Precision transducer for plasticizing / injection stroke control                | ●        |          |
| Detection of injection and plasticizing fault                                   | ●        |          |
| Purge guard (with electrical protection)                                        | ●        |          |
| Screw speed detection                                                           | ●        |          |
| Cold start protection                                                           | ●        |          |
| Automatic purging                                                               | ●        |          |
| Selectable suck-back before or after plasticizing                               | ●        |          |
| 6-stage injection speed / pressure / position control                           | ●        |          |
| 5-stage holding pressure speed / pressure / time control                        | ●        |          |
| 3-stage plasticizing speed / pressure / position control                        | ●        |          |
| Movable hopper (90T-320T)                                                       | ●        |          |
| Extended nozzle                                                                 |          | ○        |
| Dedicated barrel and screw assembly (PC, PMMA, PBT, etc.)                       |          | ○        |
| Barrel air-cooling device                                                       |          | ○        |
| Spring shut-off nozzle/hydraulic nozzle                                         |          | ○        |
| Increased injection stroke or 1 stage larger (smaller) injection unit           |          | ○        |
| Swiveling injection unit                                                        |          | ○        |
| Stainless steel hopper                                                          |          | ○        |
| Heat-retaining and energy-saving barrel (silicone insulation, infrared heating) |          | ○        |
| Ceramic heater band (standard for models above 650T)                            |          | ○        |
| Clamping Unit                                                                   |          |          |
| Precision transducer for clamping / ejector stroke control                      | ●        |          |
| Clamping platens / toggles made of highly-rigid ductile iron QT500-7A           | ●        |          |
| Computer-controlled two-stage ejection forward/backward movement                | ●        |          |
| EUROMAP-based robot mounting holes                                              | ●        |          |
| Hydraulic mold height adjustment device                                         | ●        |          |
| Mechanical / electrical safety devices                                          | ●        |          |
| Wear-resistant manganese steel supporting tracks for movable platen             | ●        |          |
| Automatic centralized lubrication system                                        | ●        |          |
| Multiple ejector function settings                                              | ●        |          |
| Low-pressure mold protection                                                    | ●        |          |
| Platen with T-slots and mounting holes                                          | ●        |          |
| Safety edges for machine gates                                                  | ●        |          |
| Pull-back ejector system                                                        | ●        |          |
| One-button automatic mold height adjustment                                     | ●        |          |
| Special mold mounting hole                                                      |          | ○        |
| Mold thermal insulation plate                                                   |          | ○        |
| Increased ejector force                                                         |          | ○        |
| Increased mold thickness                                                        |          | ○        |
| Magnetic platen                                                                 |          | ○        |
| Mold lifting device                                                             |          | ○        |
| Mechanical safety protection device                                             |          | ○        |
| Hydraulic System                                                                |          |          |
| High-precision servo system                                                     | ●        |          |
| High-precision real time bypass oil filter                                      | ●        |          |
| Low-noise and energy-saving hydraulic circuit                                   | ●        |          |
| High-performance hydraulic valve                                                | ●        |          |

|                                                                                                                        | Standard | Optional |
|------------------------------------------------------------------------------------------------------------------------|----------|----------|
| External cooler                                                                                                        | ●        |          |
| Digital proportional back-pressure control                                                                             | ●        |          |
| Cable hose restraint for exposed HP hydraulic hose                                                                     | ●        |          |
| Multi-channel cooling water devices with fast connectors                                                               | ●        |          |
| Low-friction seal                                                                                                      | ●        |          |
| Automatic oil temperature detection and alarm                                                                          | ●        |          |
| Closed-loop oil temperature cooling control                                                                            | ●        |          |
| Core puller (one set standard for 90-260T, reserved one set for valve plate interface; two sets standard for 290-560T) | ●        |          |
| Enlarged oil pump and motor (1-satge)                                                                                  |          | ○        |
| Proportional valve for mold opening and closing                                                                        |          | ○        |
| Enlarged plasticizing motor (multi-satge)                                                                              |          | ○        |
| Synchronized ejection, core pulling system                                                                             |          | ○        |
| Servo valve for injection                                                                                              |          | ○        |
| Additional sets of core puller                                                                                         |          | ○        |
| Hydraulic unscrewing device                                                                                            |          | ○        |
| Control System                                                                                                         |          |          |
| Barrel heater protection                                                                                               | ●        |          |
| Input/output inspection                                                                                                | ●        |          |
| Automatic heat retaining and automatic heating setting                                                                 | ●        |          |
| Time / position / time + position controlled switchover from injection to holding                                      | ●        |          |
| Separate adjustment of motion slope                                                                                    | ●        |          |
| Process parameter locking                                                                                              | ●        |          |
| 700 sets of process parameters storage memory                                                                          | ●        |          |
| 12" color LCD display                                                                                                  | ●        |          |
| Multiple operating languages                                                                                           | ●        |          |
| Three-color alarm light                                                                                                | ●        |          |
| Three sets of 3-phase power socket (2×32A+16A)                                                                         | ●        |          |
| Reserved interfaces for air blowers, cores, and ejector backward protection                                            | ●        |          |
| Emergency stop buttons for front and rear safety gates                                                                 | ●        |          |
| Synchronous injection valve open signal                                                                                | ●        |          |
| Intelligent clamping force management system - clamping force sustaining                                               | ●        |          |
| Intelligent clamping force management system - pre-releasing of clamping force                                         | ●        |          |
| Preventive monitoring and maintenance system for key components                                                        | ●        |          |
| Intelligent mold opening                                                                                               | ●        |          |
| Multi-curve display                                                                                                    | ●        |          |
| Intelligent energy consumption management system                                                                       | ●        |          |
| Hot runner interface                                                                                                   |          | ○        |
| Pneumatic sequence valve                                                                                               |          | ○        |
| Interface for electric unscrewing                                                                                      |          | ○        |
| Air blowing with valve                                                                                                 |          | ○        |
| Air-assisted injection device                                                                                          |          | ○        |
| Central (networked) monitoring system                                                                                  |          | ○        |
| Protective light grid of safety gates                                                                                  |          | ○        |
| Change of power supply voltage                                                                                         |          | ○        |
| General                                                                                                                |          |          |
| Operation manual                                                                                                       | ●        |          |
| Leveling pad                                                                                                           | ●        |          |
| Mold clamp                                                                                                             | ●        |          |
| A tool kit and a precision filter                                                                                      | ●        |          |
| Auto loader                                                                                                            |          | ○        |
| Glass-tube water flowmeter                                                                                             |          | ○        |
| Dryer                                                                                                                  |          | ○        |
| Dehumidifier                                                                                                           |          | ○        |
| Mold temperature controller                                                                                            |          | ○        |

\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

Standard and Optional Features of T650-1000P5

|                                                                          | Standard | Optional |
|--------------------------------------------------------------------------|----------|----------|
| Injection Unit                                                           |          |          |
| Integrated injection unit with linear guides                             | ●        |          |
| Balanced double injection cylinder                                       | ●        |          |
| Low-speed high-torque hydraulic motor                                    | ●        |          |
| Bi-metallic screw, nitrided barrel                                       | ●        |          |
| Energy-saving groove design of barrel (patented design)                  | ●        |          |
| Multi-stage PID barrel temperature control (5-6 stage)                   | ●        |          |
| Double carriage cylinder                                                 | ●        |          |
| Precision transducer for plasticizing / injection stroke control         | ●        |          |
| Detection of injection and plasticizing fault                            | ●        |          |
| Purge guard (with electrical protection)                                 | ●        |          |
| Screw speed detection                                                    | ●        |          |
| Cold start protection                                                    | ●        |          |
| Automatic purging                                                        | ●        |          |
| Selectable suck-back before or after plasticizing                        | ●        |          |
| 6-stage injection speed / pressure / position control                    | ●        |          |
| 5-stage holding pressure speed / pressure / time control                 | ●        |          |
| 3-stage plasticizing speed / pressure / position control                 | ●        |          |
| Ceramic heater band                                                      | ●        |          |
| Movable hopper                                                           |          | ○        |
| Extended nozzle                                                          |          | ○        |
| Dedicated barrel and screw assembly (chrome-plated, PC, PMMA, PBT, etc.) |          | ○        |
| Barrel air-cooling device                                                |          | ○        |
| Spring shut-off nozzle/hydraulic nozzle                                  |          | ○        |
| Increased injection stroke or 1 stage larger (smaller) injection unit    |          | ○        |
| Swiveling injection unit                                                 |          | ○        |
| Stainless steel hopper                                                   |          | ○        |
| Clamping Unit                                                            |          |          |
| Precision transducer for clamping / ejector stroke control               | ●        |          |
| Clamping platens / toggles made of highly-rigid ductile iron QT500-7A    | ●        |          |
| Computer-controlled two-stage ejection forward/backward movement         | ●        |          |
| EUROMAP-based robot mounting holes                                       | ●        |          |
| Hydraulic mold height adjustment device                                  | ●        |          |
| Mechanical / electrical safety devices                                   | ●        |          |
| Wear-resistant manganese steel supporting tracks for movable platen      | ●        |          |
| Automatic centralized lubrication system                                 | ●        |          |
| Multiple ejector function settings                                       | ●        |          |
| Low-pressure mold protection                                             | ●        |          |
| Platen with T-slots and mounting holes                                   | ●        |          |
| Safety edges for machine gates                                           | ●        |          |
| Pull-back ejector system                                                 | ●        |          |
| Synchronized electric safety front door (1000T)                          | ●        |          |
| One-button automatic mold height adjustment                              | ●        |          |
| Special mold mounting hole                                               |          | ○        |
| Mold thermal insulation platse                                           |          | ○        |
| Increased ejector force                                                  |          | ○        |
| Increased mold thickness                                                 |          | ○        |
| Magnetic platen                                                          |          | ○        |
| Mold lifting device                                                      |          | ○        |
| Mechanical safety protection device                                      |          | ○        |
| Hydraulic System                                                         |          |          |
| High-precision servo system                                              | ●        |          |
| High-precision real time bypass oil filter                               | ●        |          |
| Low-noise and energy-saving hydraulic circuit                            | ●        |          |
| Proportional valve for mold opening and closing (800-1000T)              | ●        |          |

|                                                                                            | Standard | Optional |
|--------------------------------------------------------------------------------------------|----------|----------|
| High-performance hydraulic valve                                                           | ●        |          |
| External cooler                                                                            | ●        |          |
| Digital proportional back-pressure control                                                 | ●        |          |
| Cable hose restraint for exposed HP hydraulic hose                                         | ●        |          |
| Multi-channel cooling water devices with fast connectors                                   | ●        |          |
| Low-friction seal                                                                          | ●        |          |
| Automatic oil temperature detection and alarm                                              | ●        |          |
| Closed-loop oil temperature cooling control                                                | ●        |          |
| Core puller (two sets standard for 650-1000T, reserved two sets for valve plate interface) | ●        |          |
| Enlarged oil pump and motor (1-satge)                                                      |          | ○        |
| Enlarged plasticizing motor (multi-satge)                                                  |          | ○        |
| Synchronized ejection, core pulling system                                                 |          | ○        |
| Servo valve for injection                                                                  |          | ○        |
| Additional sets of core puller                                                             |          | ○        |
| Hydraulic unscrewing device                                                                |          | ○        |
| Control System                                                                             |          |          |
| Barrel heater protection                                                                   | ●        |          |
| Input/output inspection                                                                    | ●        |          |
| Automatic heat retaining and automatic heating setting                                     | ●        |          |
| Time / position / time + position controlled switchover from injection to holding          | ●        |          |
| Separate adjustment of motion slope                                                        | ●        |          |
| Process parameter locking                                                                  | ●        |          |
| 700 sets of process parameters storage memory                                              | ●        |          |
| 12" color LCD display                                                                      | ●        |          |
| Multiple operating languages                                                               | ●        |          |
| Three-color alarm light                                                                    | ●        |          |
| Three sets of 3-phase power socket (2×32A+16A)                                             | ●        |          |
| Reserved interfaces for air blowers, cores, and ejector backward protection                | ●        |          |
| Emergency stop buttons for front and rear safety gates                                     | ●        |          |
| Synchronous injection valve open signal                                                    | ●        |          |
| Intelligent clamping force management system - clamping force sustaining                   | ●        |          |
| Intelligent clamping force management system - pre-releasing of clamping force             | ●        |          |
| Preventive monitoring and maintenance system for key components                            | ●        |          |
| Intelligent mold opening                                                                   | ●        |          |
| Multi-curve display                                                                        | ●        |          |
| Intelligent energy consumption management system                                           | ●        |          |
| Hot runner interface                                                                       |          | ○        |
| Pneumatic sequence valve                                                                   |          | ○        |
| Interface for electric unscrewing                                                          |          | ○        |
| Air blowing with valve                                                                     |          | ○        |
| Air-assisted injection device                                                              |          | ○        |
| Central (networked) monitoring system                                                      |          | ○        |
| Protective light grid of safety gates                                                      |          | ○        |
| Change of power supply voltage                                                             |          | ○        |
| General                                                                                    |          |          |
| Operation manual                                                                           | ●        |          |
| Leveling pad                                                                               | ●        |          |
| Mold clamp                                                                                 | ●        |          |
| A tool kit and a precision filter                                                          | ●        |          |
| Auto loader                                                                                |          | ○        |
| Glass-tube water flowmeter                                                                 |          | ○        |
| Dryer                                                                                      |          | ○        |
| Dehumidifier                                                                               |          | ○        |
| Mold temperature controller                                                                |          | ○        |

\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

Standard and Optional Features of T1200-1850P5

|                                                                          | Standard | Optional |
|--------------------------------------------------------------------------|----------|----------|
| Injection Unit                                                           |          |          |
| Integrated injection unit with linear guides                             | ●        |          |
| Balanced double injection cylinder                                       | ●        |          |
| Low-speed high-torque reinforced hydraulic motor                         | ●        |          |
| Bi-metallic screw, nitrided barrel                                       | ●        |          |
| Energy-saving groove design of barrel (patented design)                  | ●        |          |
| Multi-stage PID barrel temperature control (5-6 stage)                   | ●        |          |
| Double carriage cylinder                                                 | ●        |          |
| Precision transducer for plasticizing / injection stroke control         | ●        |          |
| Detection of injection and plasticizing fault                            | ●        |          |
| Purge guard (with electrical protection)                                 | ●        |          |
| Screw speed detection                                                    | ●        |          |
| Cold start protection                                                    | ●        |          |
| Automatic purging                                                        | ●        |          |
| Selectable suck-back before or after plasticizing                        | ●        |          |
| 6-stage injection speed / pressure / position control                    | ●        |          |
| 5-stage holding pressure speed / pressure / time control                 | ●        |          |
| 3-stage plasticizing speed / pressure / position control                 | ●        |          |
| Ceramic heater band                                                      | ●        |          |
| Movable hopper                                                           |          | ○        |
| Extended nozzle                                                          |          | ○        |
| Dedicated barrel and screw assembly (chrome-plated, PC, PMMA, PBT, etc.) |          | ○        |
| Barrel air-cooling device                                                |          | ○        |
| Spring shut-off nozzle/hydraulic nozzle                                  |          | ○        |
| Increased injection stroke or 1 stage larger (smaller) injection unit    |          | ○        |
| Swiveling injection unit                                                 |          | ○        |
| Stainless steel hopper                                                   |          | ○        |
| Clamping Unit                                                            |          |          |
| Precision transducer for clamping / ejector stroke control               | ●        |          |
| Clamping platens / toggles made of highly-rigid ductile iron QT500-7A    | ●        |          |
| Computer-controlled two-stage ejection forward/backward movement         | ●        |          |
| EUROMAP-based robot mounting holes                                       | ●        |          |
| Hydraulic mold height adjustment device                                  | ●        |          |
| Mechanical/ electrical/ hydraulic safety devices                         | ●        |          |
| Wear-resistant manganese steel supporting tracks for movable platen      | ●        |          |
| Automatic centralized lubrication system                                 | ●        |          |
| Multiple ejector function settings                                       | ●        |          |
| Low-pressure mold protection                                             | ●        |          |
| Platen with T-slots and mounting holes                                   | ●        |          |
| Safety edges for machine gates                                           | ●        |          |
| Pull-back ejector system                                                 | ●        |          |
| Synchronized electric safety front door                                  | ●        |          |
| One-button automatic mold height adjustment                              | ●        |          |
| Special mold mounting hole                                               |          | ○        |
| Mold thermal insulation plate                                            |          | ○        |
| Increased ejector force                                                  |          | ○        |
| Increased mold thickness                                                 |          | ○        |
| Magnetic platen                                                          |          | ○        |
| Mold lifting device                                                      |          | ○        |
| Mechanical safety protection device                                      |          | ○        |
| Hydraulic System                                                         |          |          |
| High-precision servo system                                              | ●        |          |
| High-precision real time bypass oil filter                               | ●        |          |
| Low-noise and energy-saving hydraulic circuit                            | ●        |          |
| Proportional valve for mold opening and closing                          | ●        |          |

|                                                                                                 | Standard | Optional |
|-------------------------------------------------------------------------------------------------|----------|----------|
| High-performance hydraulic valve                                                                | ●        |          |
| External cooler                                                                                 | ●        |          |
| Digital proportional back-pressure control                                                      | ●        |          |
| Cable hose restraint for exposed HP hydraulic hose                                              | ●        |          |
| Multi-channel cooling water devices with fast connectors                                        | ●        |          |
| Low-friction seal                                                                               | ●        |          |
| Automatic oil temperature detection and alarm                                                   | ●        |          |
| Closed-loop oil temperature cooling control                                                     | ●        |          |
| Core puller (three sets standard for 1200-1850T, reserved three sets for valve plate interface) | ●        |          |
| Enlarged oil pump and motor (1-satge)                                                           |          | ○        |
| Enlarged plasticizing motor (multi-satge)                                                       |          | ○        |
| Synchronized ejection, core pulling system                                                      |          | ○        |
| Servo valve for injection                                                                       |          | ○        |
| Additional sets of core puller                                                                  |          | ○        |
| Hydraulic unscrewing device                                                                     |          | ○        |
| Control System                                                                                  |          |          |
| Barrel heater protection                                                                        | ●        |          |
| Input/output inspection                                                                         | ●        |          |
| Automatic heat retaining and automatic heating setting                                          | ●        |          |
| Time / position / time + position controlled switchover from injection to holding               | ●        |          |
| Separate adjustment of motion slope                                                             | ●        |          |
| Process parameter locking                                                                       | ●        |          |
| Storage space for 700 sets of process parameters, USB port for expandable storage               | ●        |          |
| 15" TFT true color display                                                                      | ●        |          |
| Multiple operating languages                                                                    | ●        |          |
| Three-color alarm light                                                                         | ●        |          |
| Three sets of 3-phase power socket (2×32A+16A) (for 1200T)                                      | ●        |          |
| Four sets of 3-phase power socket (3×32A+16A) (for 1400-1850T)                                  | ●        |          |
| Reserved interfaces for air blowers, cores, and ejector backward protection                     | ●        |          |
| Emergency stop buttons for front and rear safety gates                                          | ●        |          |
| Synchronous injection valve open signal                                                         | ●        |          |
| Intelligent clamping force management system - clamping force sustaining                        | ●        |          |
| Intelligent clamping force management system - pre-releasing of clamping force                  | ●        |          |
| Preventive monitoring and maintenance system for key components                                 | ●        |          |
| Intelligent mold opening                                                                        | ●        |          |
| Multi-curve display                                                                             | ●        |          |
| Intelligent energy consumption management system                                                | ●        |          |
| Hot runner interface                                                                            |          | ○        |
| Pneumatic sequence valve                                                                        |          | ○        |
| Interface for electric unscrewing interface                                                     |          | ○        |
| Air blowing with valve                                                                          |          | ○        |
| Air-assisted injection device                                                                   |          | ○        |
| Central (networked) monitoring system                                                           |          | ○        |
| Protective light grid of safety gates                                                           |          | ○        |
| Change of power supply voltage                                                                  |          | ○        |
| General                                                                                         |          |          |
| Operation manual                                                                                | ●        |          |
| Leveling pad                                                                                    | ●        |          |
| Mold clamp                                                                                      | ●        |          |
| A tool kit and a precision filter                                                               | ●        |          |
| Auto loader                                                                                     |          | ○        |
| Glass-tube water flowmeter                                                                      |          | ○        |
| Dryer                                                                                           |          | ○        |
| Dehumidifier                                                                                    |          | ○        |
| Mold temperature controller                                                                     |          | ○        |

\* The data above were acquired by testing in YIZUMI, only for your reference. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

Standard and Optional Features of T2400-2800P5

|                                                                                          | Standard | Optional |
|------------------------------------------------------------------------------------------|----------|----------|
| Injection Unit                                                                           |          |          |
| Integrated injection unit with linear guides                                             | ●        |          |
| Nitrided screw and barrel                                                                | ●        |          |
| Balanced double injection cylinder                                                       | ●        |          |
| Low-speed high-torque reinforced hydraulic motor                                         | ●        |          |
| Double carriage cylinder                                                                 | ●        |          |
| Energy-saving groove design of barrel (patented design)                                  | ●        |          |
| Multi-stage PID barrel temperature control                                               | ●        |          |
| Enclosed barrel heat-retaining guard/ Nozzle purge guard (without electrical protection) | ●        |          |
| Cold start protection for screw                                                          | ●        |          |
| Automatic purging                                                                        | ●        |          |
| Selectable suck-back before or after plasticizing                                        | ●        |          |
| Detection of injection and plasticizing fault                                            | ●        |          |
| Screw speed detection                                                                    | ●        |          |
| 6-stage injection speed / pressure / position control                                    | ●        |          |
| 5-stage holding pressure speed / pressure / time control                                 | ●        |          |
| 4-stage plasticizing speed / pressure / position control                                 | ●        |          |
| Digital proportional back-pressure control                                               | ●        |          |
| Ceramic heater band                                                                      | ●        |          |
| Bi-metallic screw component                                                              |          | ○        |
| Dedicated barrel and screw assembly                                                      |          | ○        |
| Purge guard (with electrical protection)                                                 |          | ○        |
| Spring shut-off nozzle                                                                   |          | ○        |
| Heat-retaining and energy-saving barrel (silicone insulation, infrared heating)          |          | ○        |
| Extended nozzle                                                                          |          | ○        |
| Hopper dryer                                                                             |          | ○        |
| Clamping Unit                                                                            |          |          |
| Precision transducer for clamping / ejector/ injection stroke control                    | ●        |          |
| Clamping platens / toggles made of highly-rigid ductile iron QT500-7A                    | ●        |          |
| EUROMAP-based robot mounting holes                                                       | ●        |          |
| Computer-controlled two-stage ejection forward/backward movement                         | ●        |          |
| Hydraulic mold height adjustment device                                                  | ●        |          |
| Mechanical/ electrical/ hydraulic safety devices                                         | ●        |          |
| Adjustment-free mechanical safety lock                                                   | ●        |          |
| Wear-resistant manganese steel supporting tracks for movable platen                      | ●        |          |
| Automatic centralized lubrication system                                                 | ●        |          |
| Multiple ejector function settings                                                       | ●        |          |
| Low-pressure mold protection                                                             | ●        |          |
| Platen with T-slots and mounting holes                                                   | ●        |          |
| One-button automatic mold height adjustment                                              | ●        |          |
| Pull-back ejector system                                                                 | ●        |          |
| Safety edges for machine gates                                                           | ●        |          |
| Special mold mounting hole                                                               |          | ○        |
| Mold thermal insulation plate                                                            |          | ○        |
| Increased mold thickness                                                                 |          | ○        |
| Magnetic platen                                                                          |          | ○        |
| Hydraulic System                                                                         |          |          |
| High-precision servo system                                                              | ●        |          |
| High-precision real time bypass oil filter                                               | ●        |          |
| Automatic calibration of system pressure and flow                                        | ●        |          |
| Brand-name hydraulic valve                                                               | ●        |          |
| Brand-name hydraulic sealing components                                                  | ●        |          |
| Low-noise and energy-saving hydraulic circuit                                            | ●        |          |
| Hydraulic oil cooler                                                                     | ●        |          |

|                                                                                                                                  | Standard | Optional |
|----------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| Core puller (one for fixed platen, two for movable platen, total three for standard; reserved one set for valve plate interface) | ●        |          |
| Automatic oil temperature detection and alarm                                                                                    | ●        |          |
| Cable hose restraint for exposed HP hydraulic hose                                                                               | ●        |          |
| Multi-channel cooling water devices with fast connectors                                                                         | ●        |          |
| Enlarged oil pump and motor (1-satge)                                                                                            |          | ○        |
| Enlarged plasticizing motor (multi-satge)                                                                                        |          | ○        |
| Synchronized ejection, core pulling, plasticizing system                                                                         |          | ○        |
| High-response servo injection system with accumulator                                                                            |          | ○        |
| Multiple sets of core puller                                                                                                     |          | ○        |
| Hydraulic unscrewing device                                                                                                      |          | ○        |
| Control System                                                                                                                   |          |          |
| Barrel heater protection                                                                                                         | ●        |          |
| Input/output inspection                                                                                                          | ●        |          |
| Automatic heat retaining and automatic heating setting                                                                           | ●        |          |
| Time / position / time + position controlled switchover from injection to holding                                                | ●        |          |
| 15" TFT true color display                                                                                                       | ●        |          |
| Storage space for 700 sets of process parameters, USB port for expandable storage                                                | ●        |          |
| Multiple operating languages                                                                                                     | ●        |          |
| Two-color alarm light                                                                                                            | ●        |          |
| Separate adjustment of motion slope                                                                                              | ●        |          |
| Process parameter locking                                                                                                        | ●        |          |
| All transducers, weak-current switches and reversing solenoid valves wrapped up by water-proof and rat-proof corrugated pipes    | ●        |          |
| Emergency stop buttons for front and rear safety gates                                                                           | ●        |          |
| PDP control interface                                                                                                            | ●        |          |
| Statistical process control (SPC) interface                                                                                      | ●        |          |
| Reserved interfaces for air blowers, cores, and ejector backward protection                                                      | ●        |          |
| Three sets of 3-phase power socket (2×32A+16A)                                                                                   | ●        |          |
| Synchronous injection valve open signal                                                                                          | ●        |          |
| Hot runner interface                                                                                                             |          | ○        |
| Pneumatic sequence valve                                                                                                         |          | ○        |
| Interface for electric unscrewing                                                                                                |          | ○        |
| Air blowing with valve                                                                                                           |          | ○        |
| Air-assisted injection device                                                                                                    |          | ○        |
| Central (networked) monitoring system                                                                                            |          | ○        |
| Protective light grid of safety gates                                                                                            |          | ○        |
| Change of power supply voltage                                                                                                   |          | ○        |
| Mold controlled by needle valve                                                                                                  |          | ○        |
| General                                                                                                                          |          |          |
| Operation manual                                                                                                                 | ●        |          |
| Adjustable leveling pad                                                                                                          | ●        |          |
| A tool kit                                                                                                                       | ●        |          |
| Filter                                                                                                                           | ●        |          |
| Mold clamp                                                                                                                       | ●        |          |
| Stainless steel hopper                                                                                                           |          | ○        |
| Movable hopper                                                                                                                   |          | ○        |
| Mold temperature controller                                                                                                      |          | ○        |
| Auto loader                                                                                                                      |          | ○        |
| Glass-tube water flowmeter                                                                                                       |          | ○        |
| Dryer                                                                                                                            |          | ○        |
| Dehumidifier                                                                                                                     |          | ○        |

\* The data above were acquired by testing in YIZUMI, only for your reference.  
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.