THINK TECH FORWARD

Designed by YIZUMI, March 2025

YIZUMI

TP5

90T-2800T

T SERIES PRECISION ENERGY-SAVING
INJECTION MOLDING MACHINE

A5 to TP5: Excellence Forward

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THINK TECH FORWARD

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T 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, T-P5 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, T-P5 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 T-P5 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 T-P5 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.

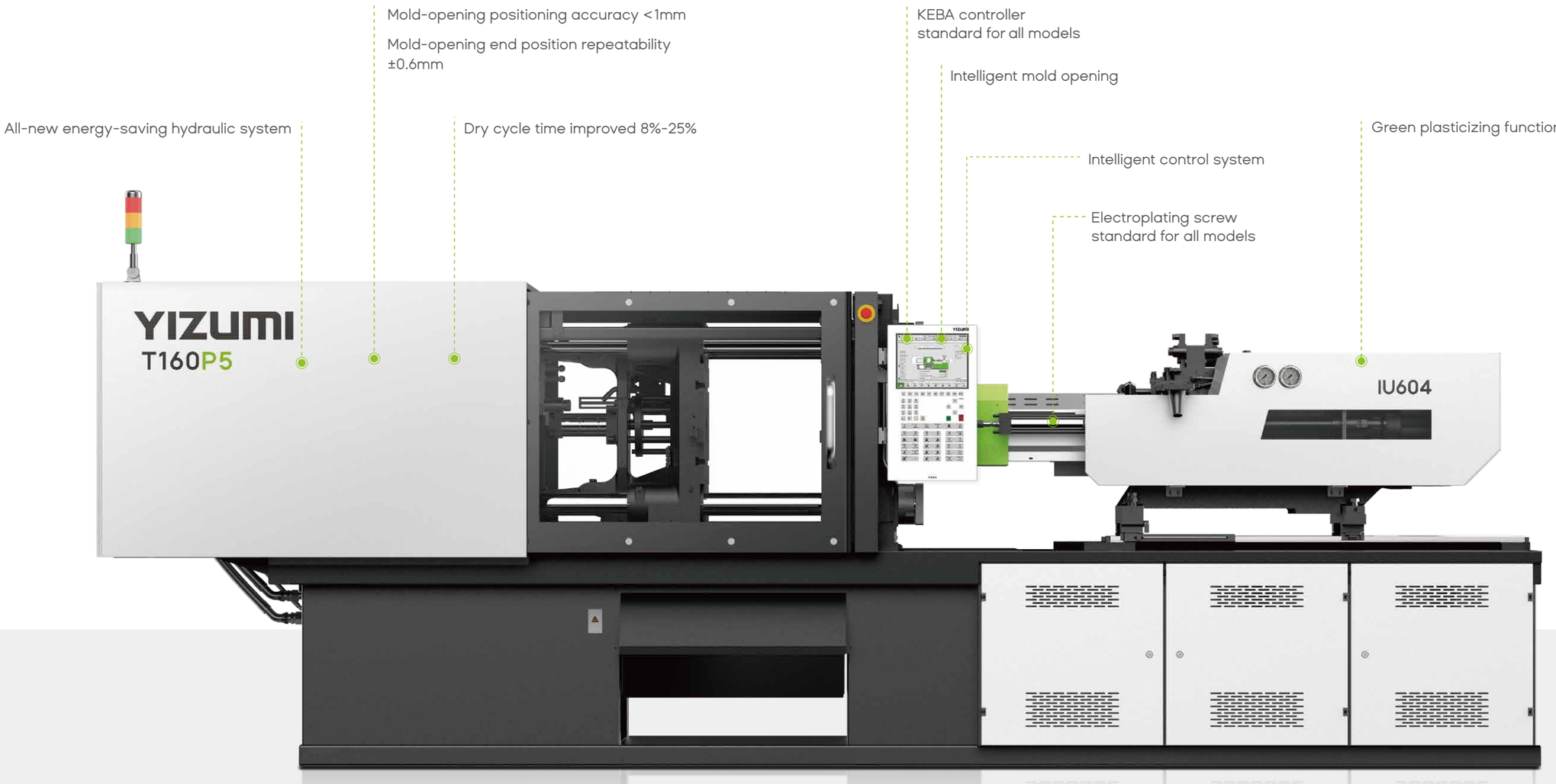
TP5 Series

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.
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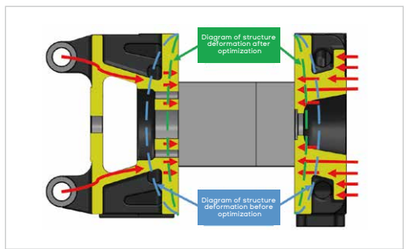
Clamping Unit



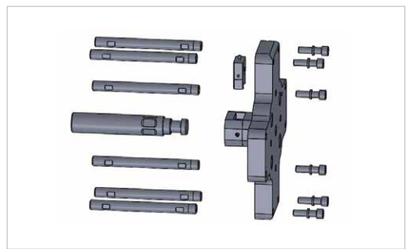
是否有更好翻译？如有请提出

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.

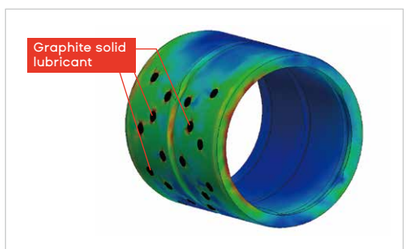
Compulsory ejector-back function

Equipped with compulsory ejector-back function as a standard feature, meeting the requirements for special molds that require compulsory ejector-back, 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.



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.

Intelligent mold opening

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

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.

中文的零失误，直译Zero-failure，感觉比较绝对化，所以这里英文先含糊处理，如有其他建议可提出

Low pressure mold protection

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

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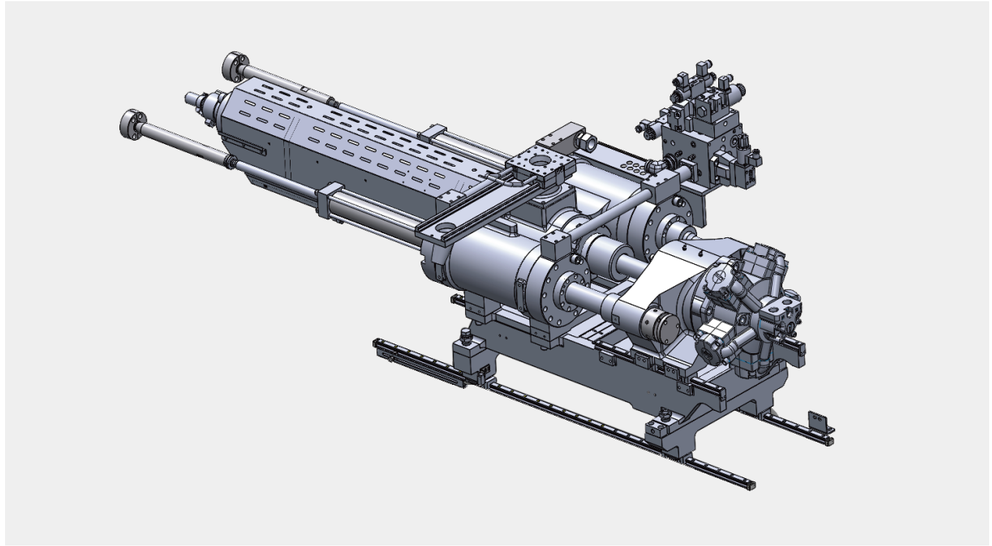
Injection Unit



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.

Standard feature of electroplating screw

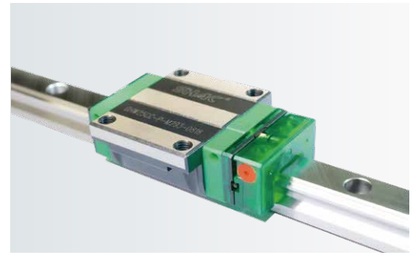
- The entire series comes standard with electroplating screw, enhancing wear resistance and improving plasticizing quality.
- Optimized screw head, check ring, and screw washer design further enhances injection weight repeatability.
- Increased screw rotation speed boosts plasticizing capacity by 5-10%.

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.

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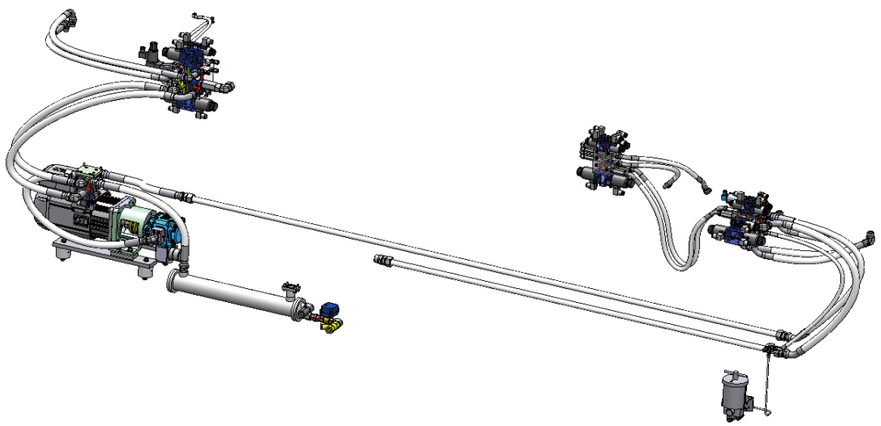
Hydraulic System



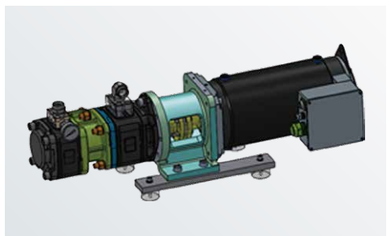
HYDRAULIC SYSTEM

New energy-efficient hydraulic system back pressure

The energy-efficient hydraulic oil is used, and fluid simulation technology is applied 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.

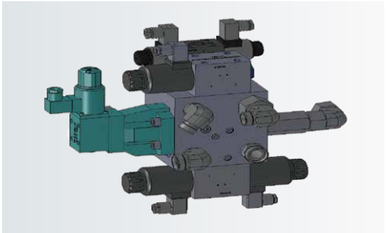


Powerful, fast response, faster dry cycle time

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.

Numerical control proportional back pressure

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



Closed-loop oil temperature control

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

是否有更好翻译，有请提出

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.

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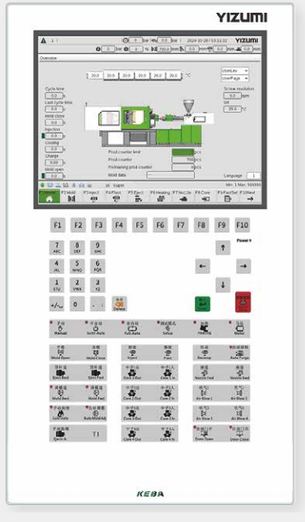
Electrical Control System



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.

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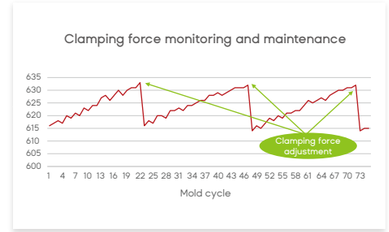
Intelligent clamping force management

- 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



*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.

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 is finished, the full clamping force is pre-released to prevent an increase in mold opening pressure or 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.

Preventive monitoring and maintenance system for key components

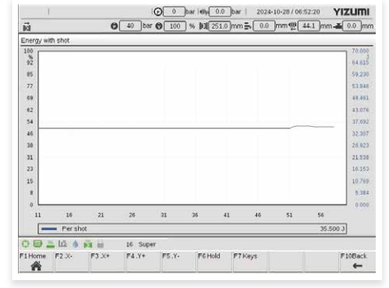
TP5 series is equipped with preventive monitoring and maintenance function for key components, which provides timely reminders for machine maintenance and predicts potential issues, thus extending the machine's service life.

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.



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	cm^3	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	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 (WxH)	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.

按照海外的机器重量显示规则，机重取整到百位

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	cm^3	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	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

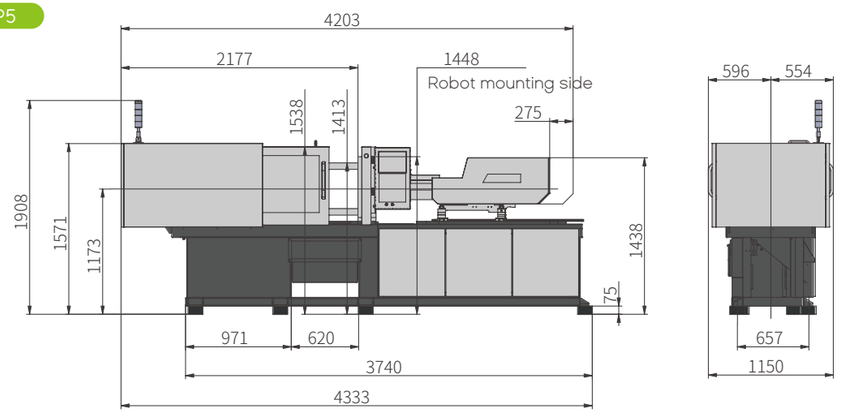
Description	UNIT	T1200P5/9015				T1300P5/10500				T1400P5/10500				T1600P5/14500				T1850P5/14500				T2400P5/21215				T2800P5/29880		
Injection model		IU9015				IU10470				IU10470				IU14470				IU14470				IU21215				IU29880		
International specifications		9022/12000				10471/13000				10471/14000				14473/16000				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	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 (WxH)	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:

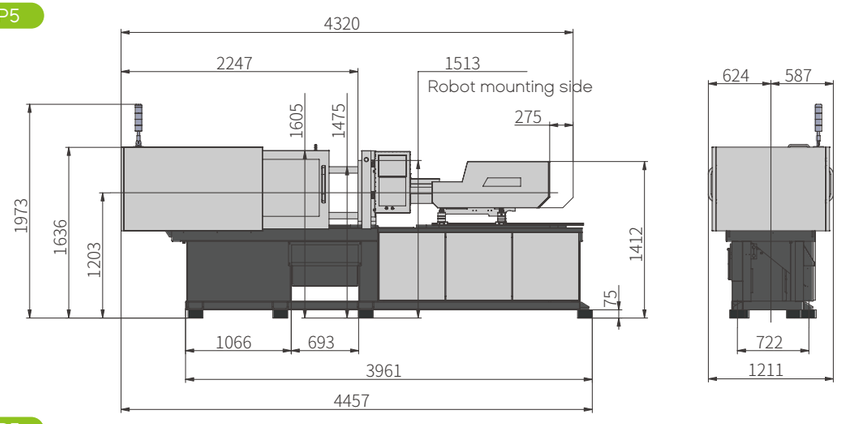
1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA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

Machine Dimensions

T90P5



T120P5



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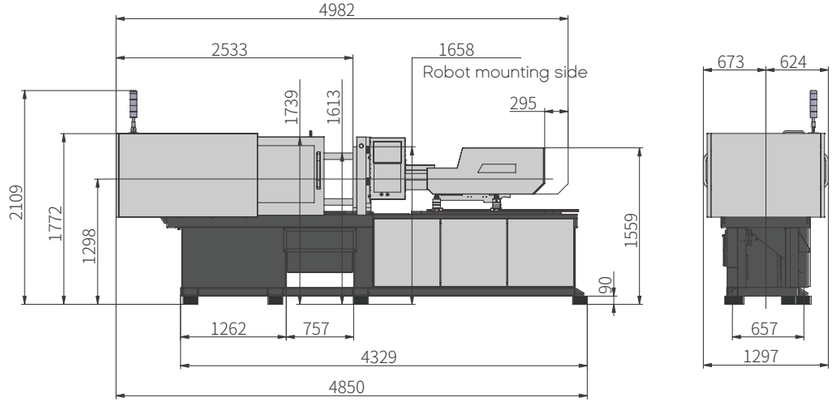

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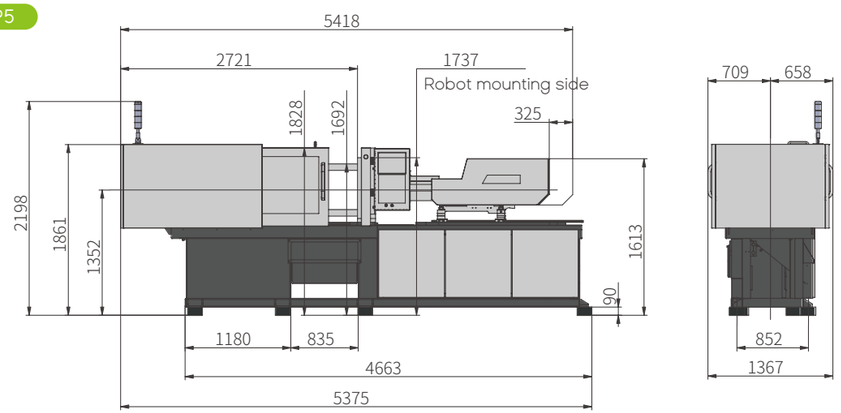

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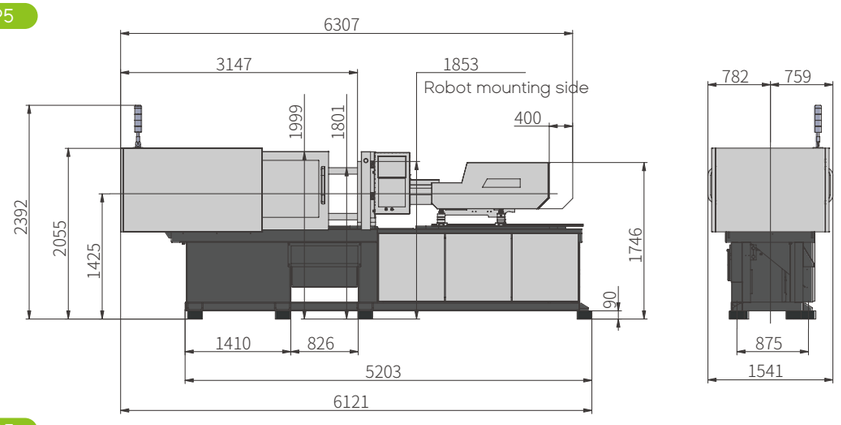

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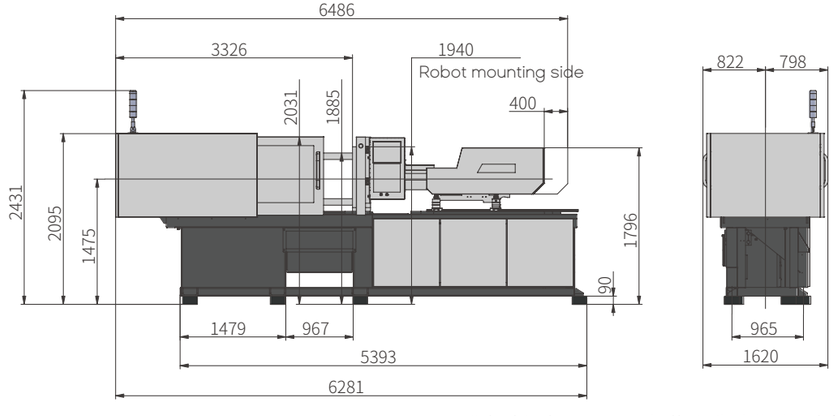

* The data above were acquired by testing in YIZUMI, only for your reference.
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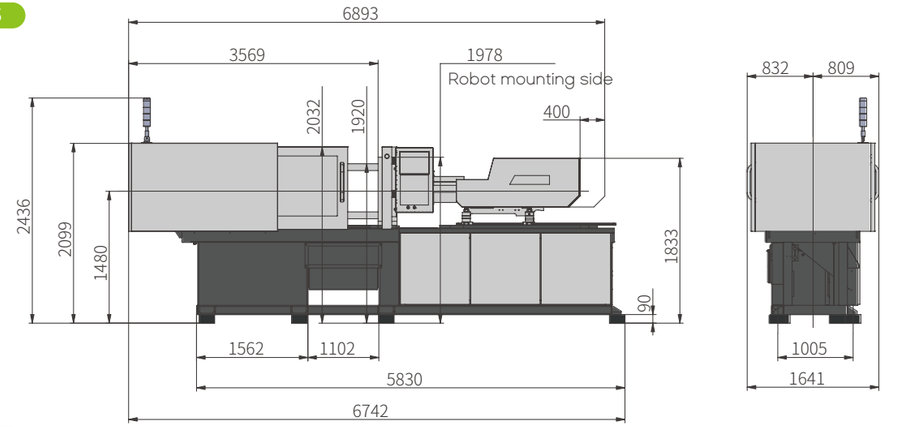
Machine Dimensions

T320P5



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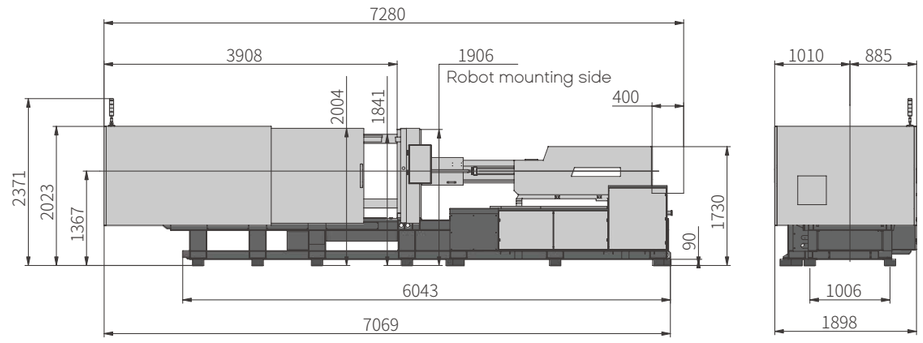

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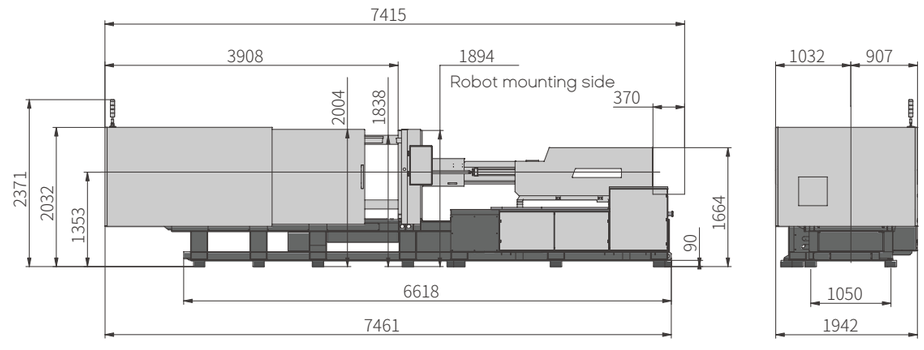

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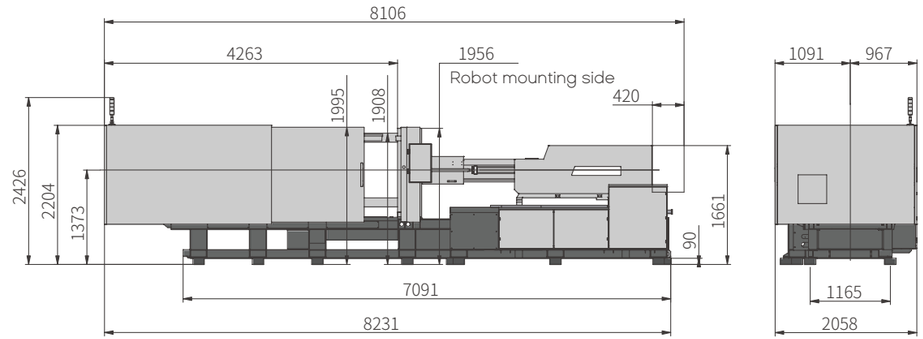

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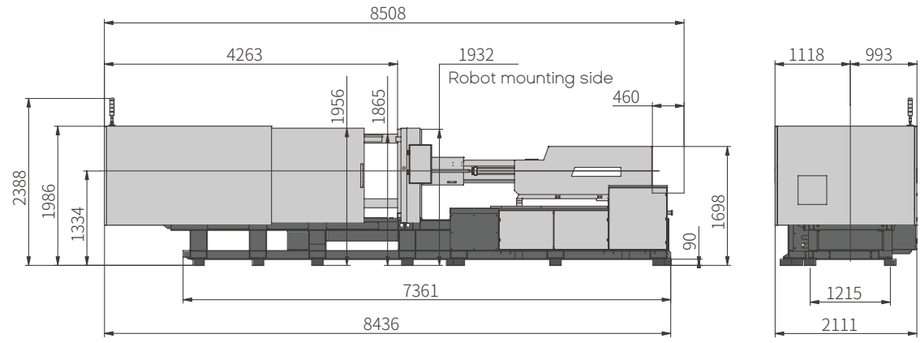

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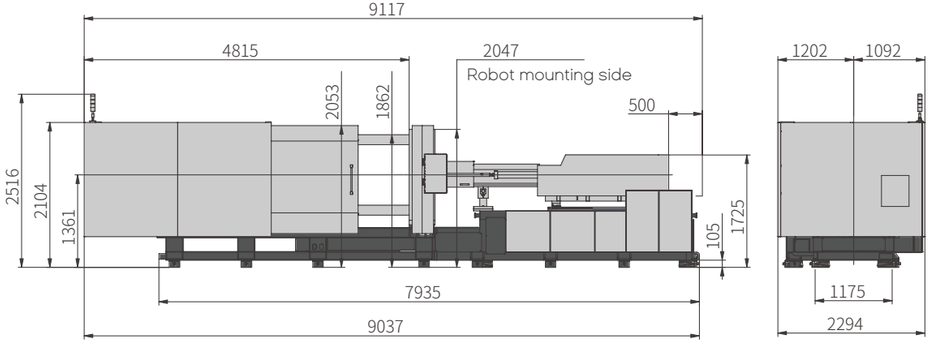

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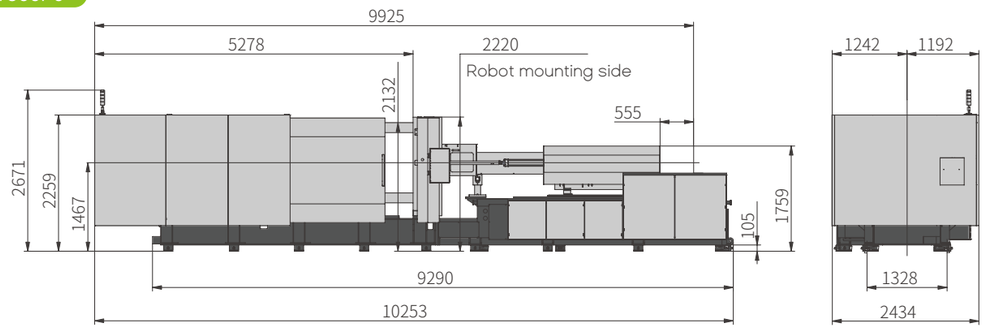
Machine Dimensions

T800P5



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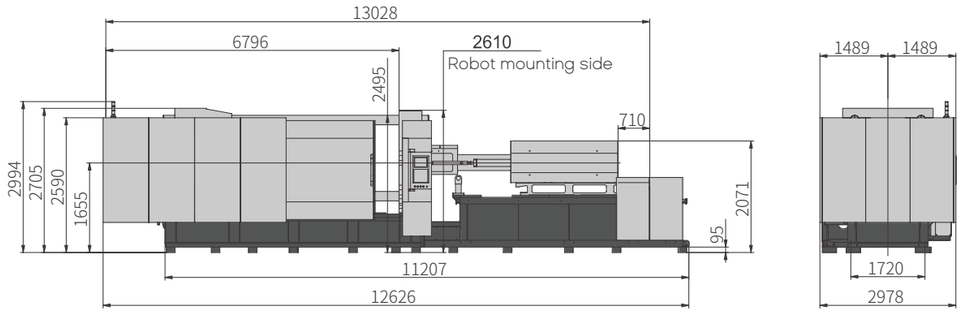

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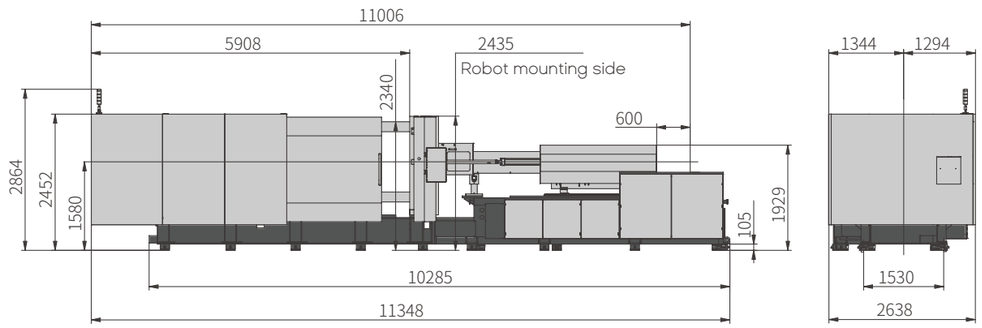

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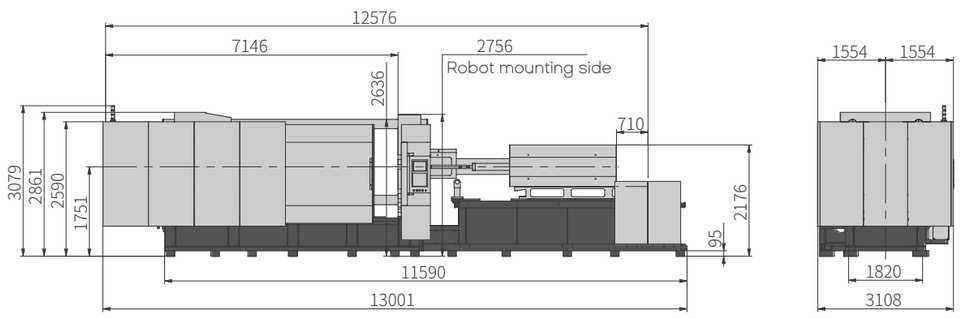

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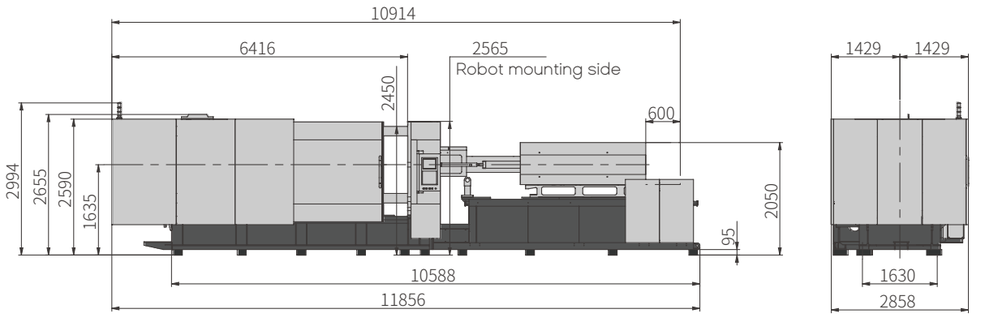

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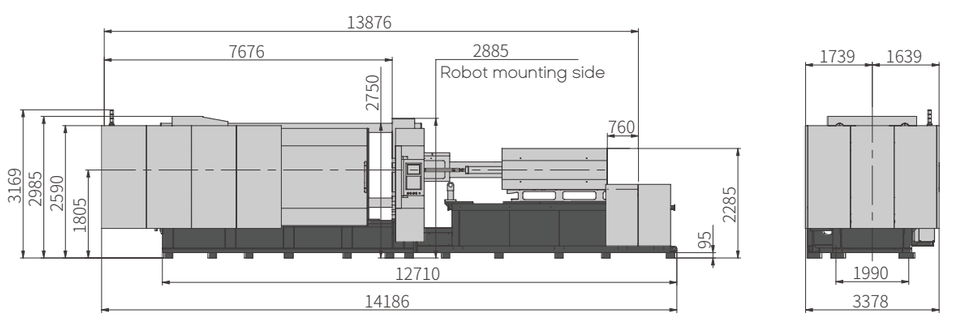

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Machine Dimensions

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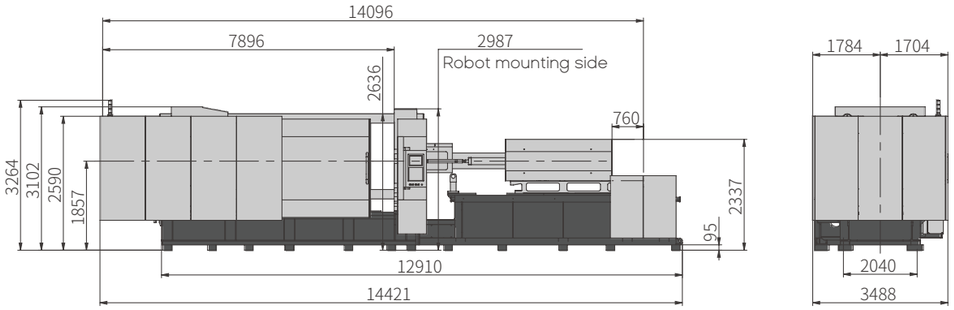

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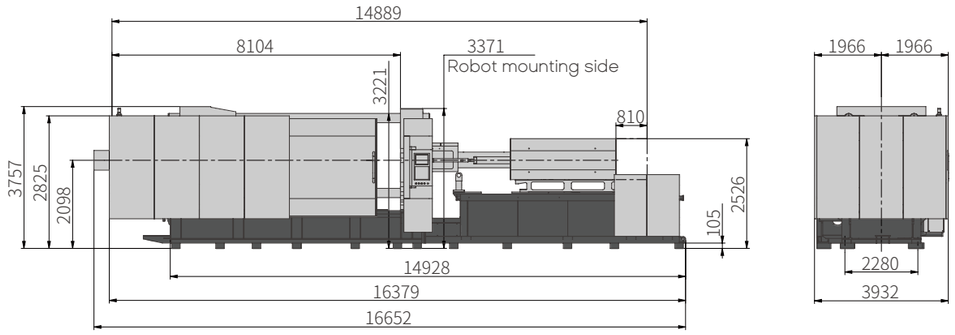

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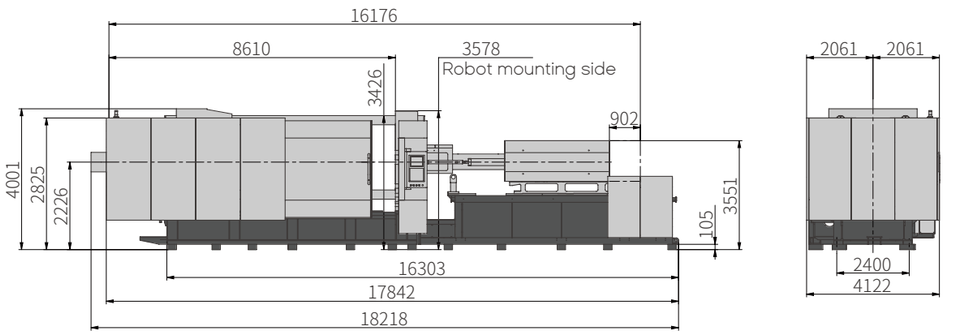

Platen Dimensions

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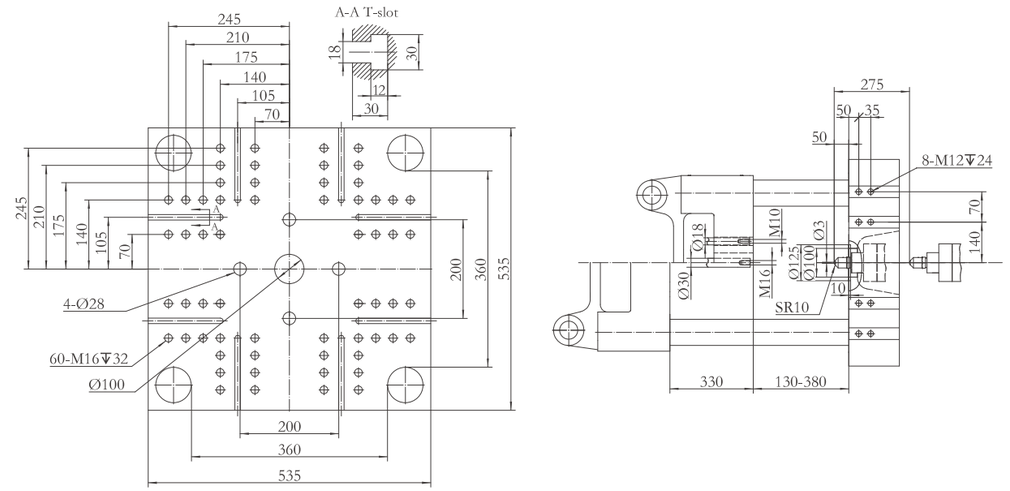

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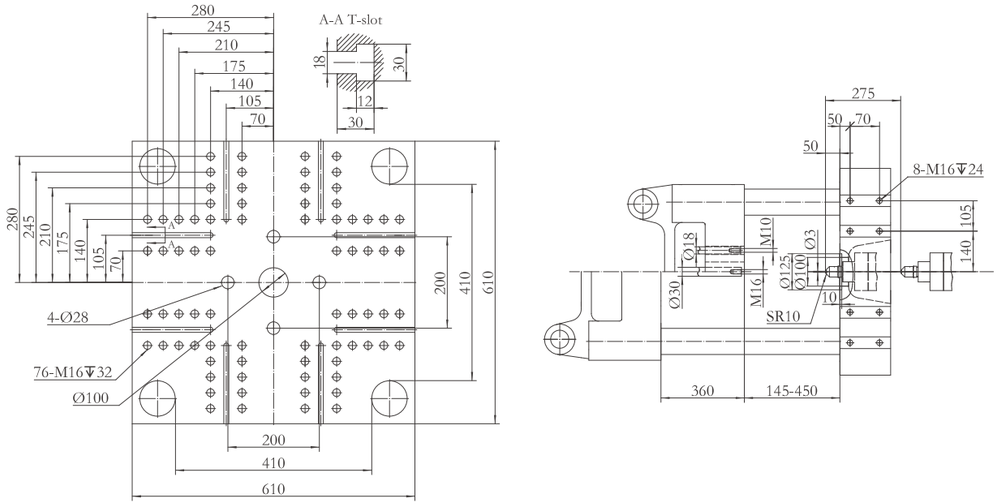

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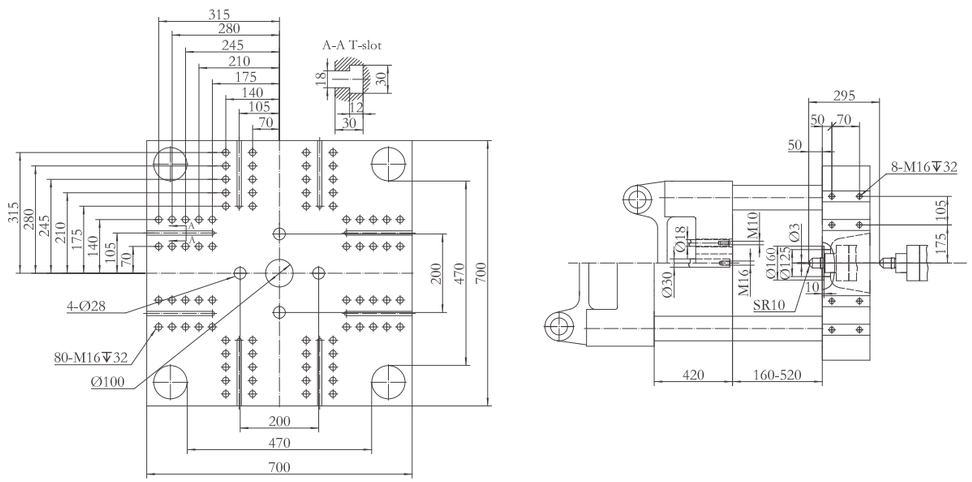
Platen Dimensions

T160P5



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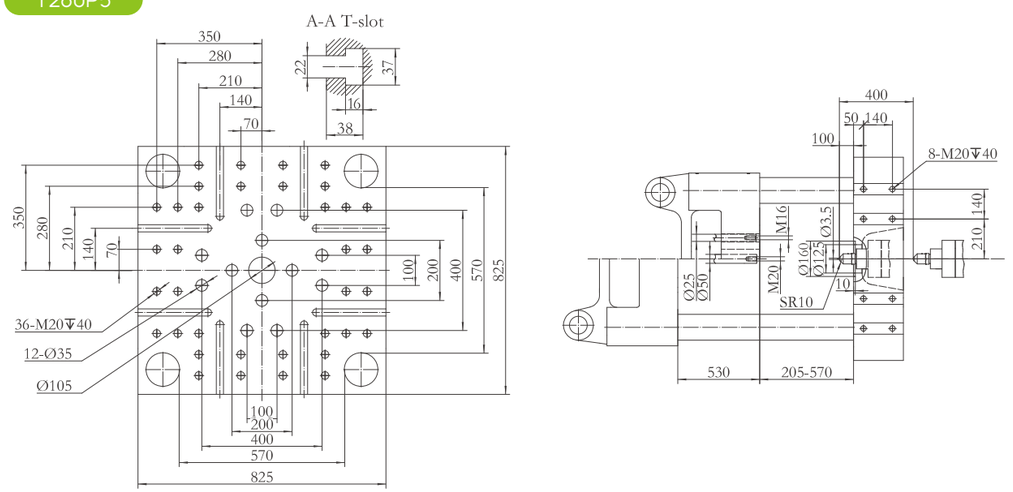

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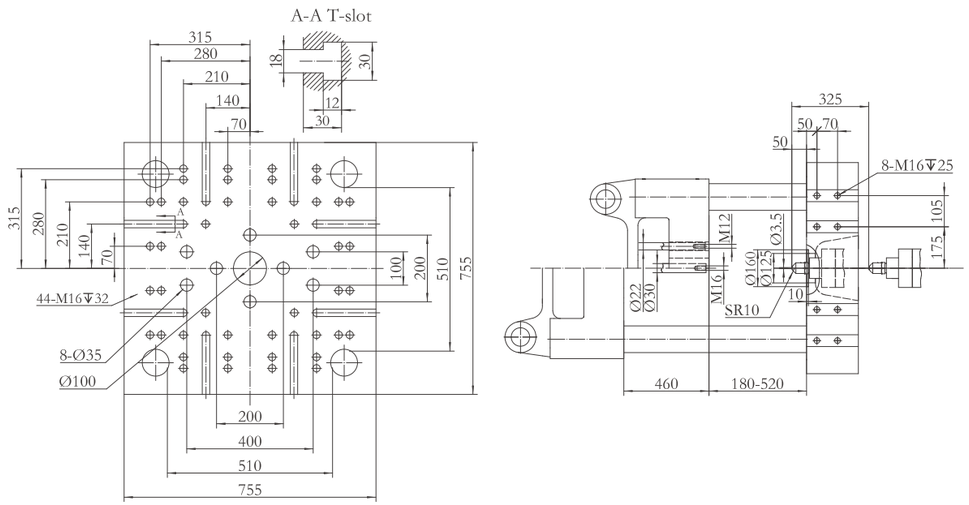

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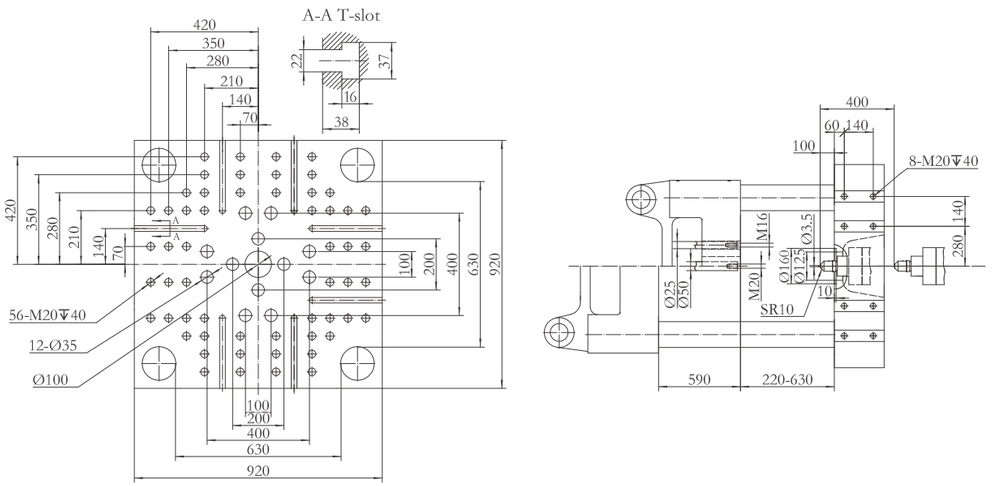

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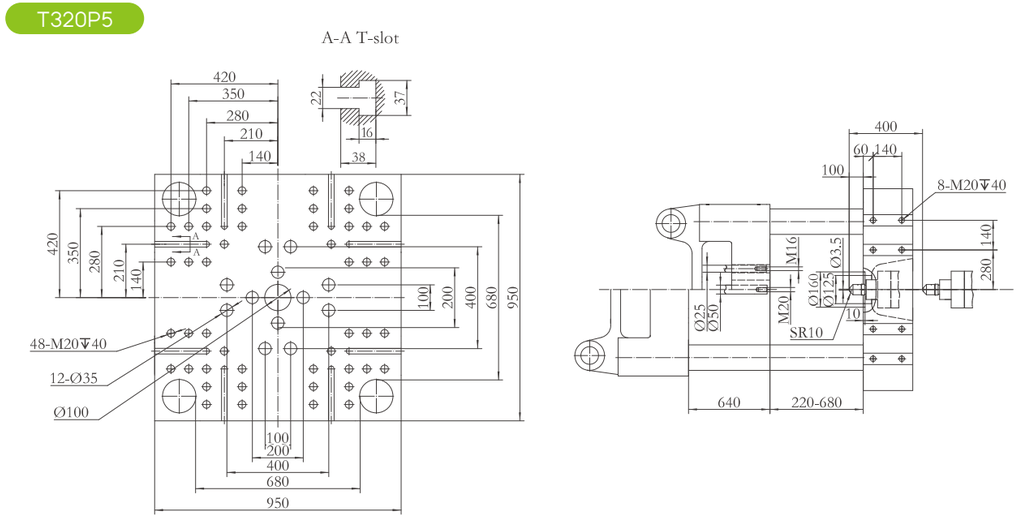
Platen Dimensions

T320P5



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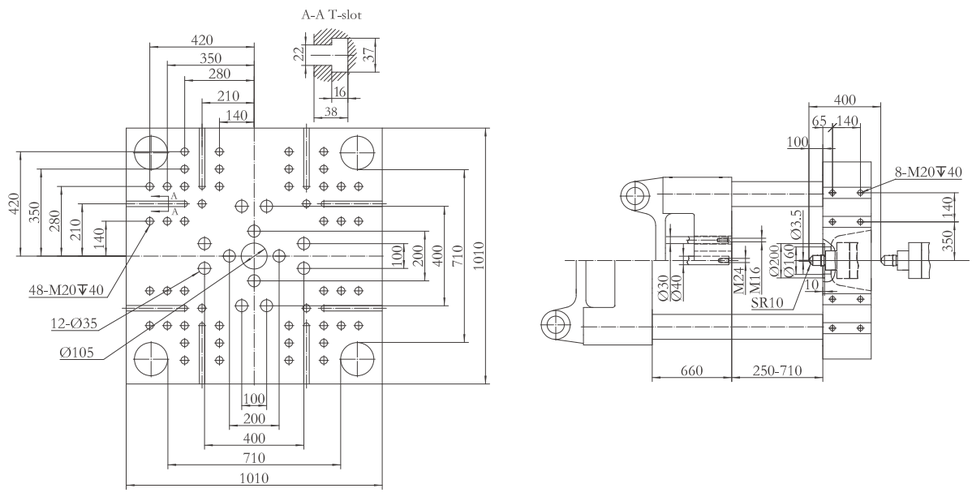
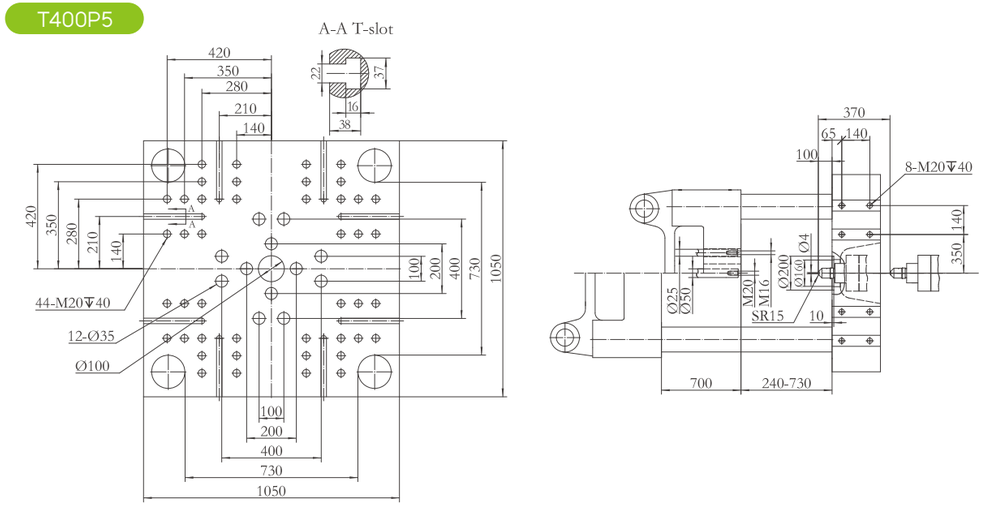


T400P5



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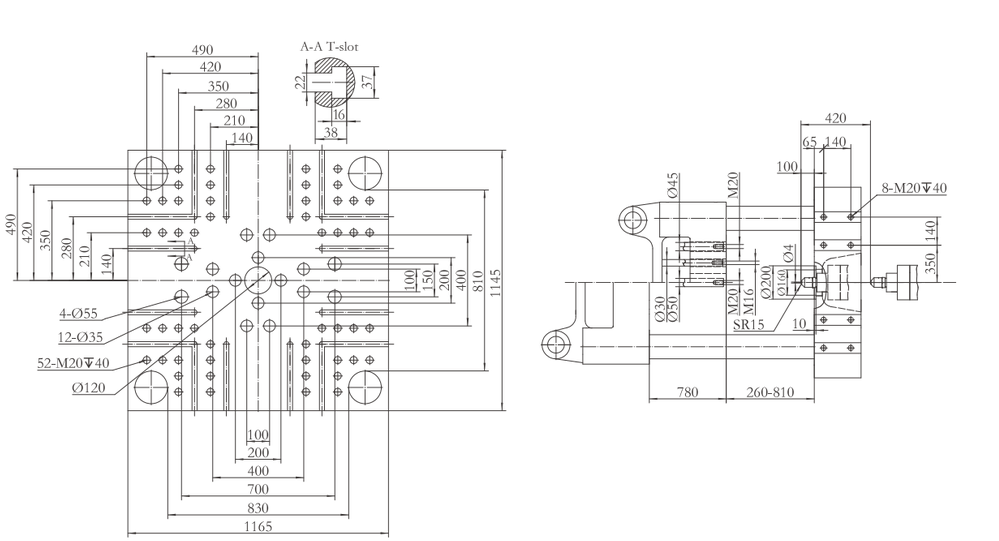

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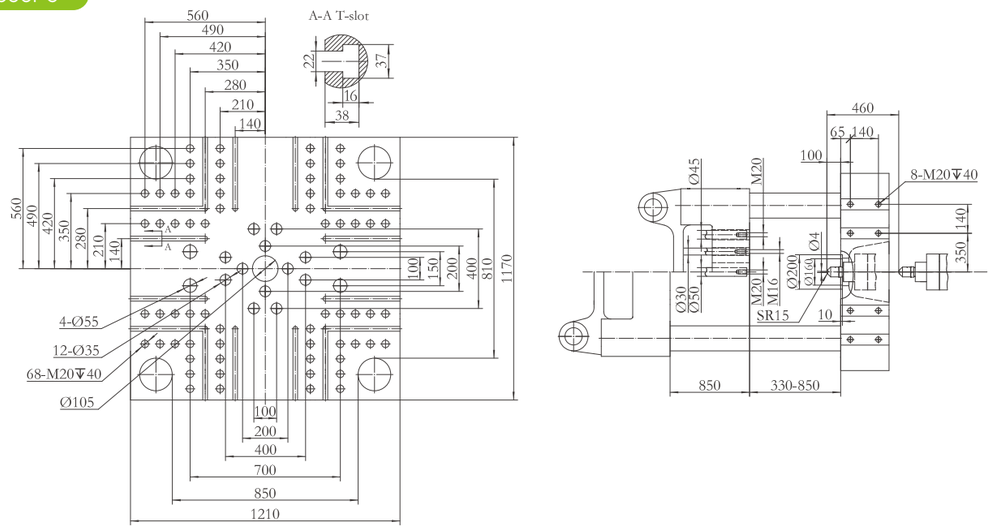
Platen Dimensions

T560P5



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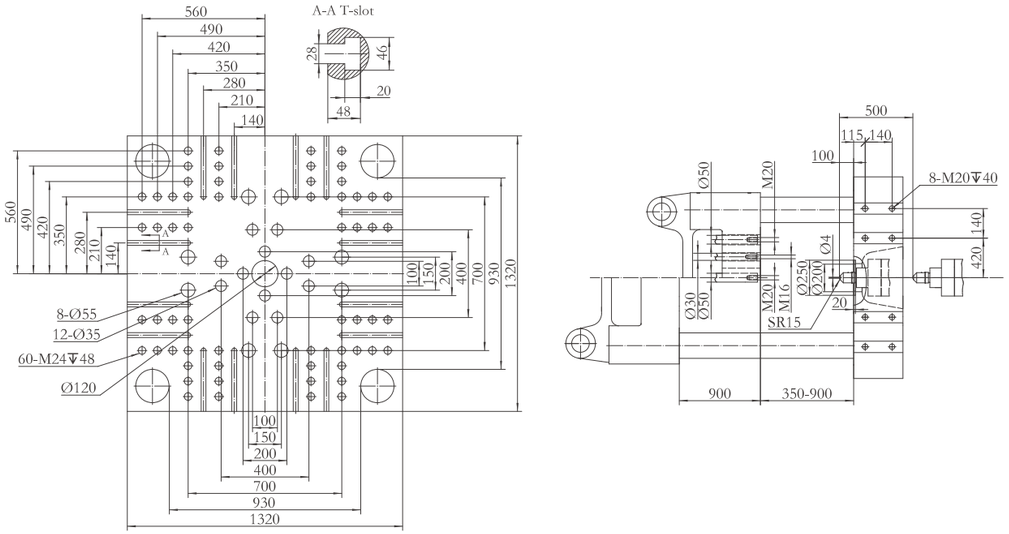

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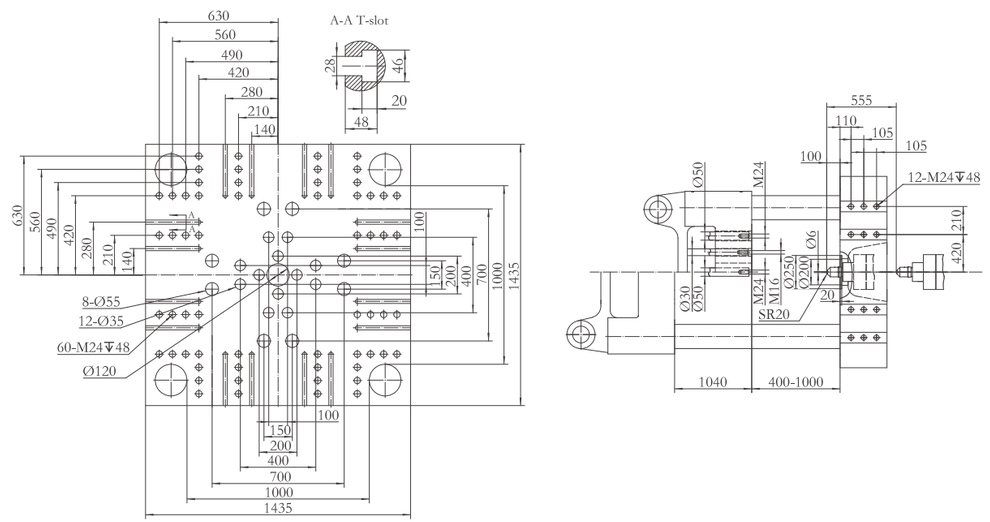

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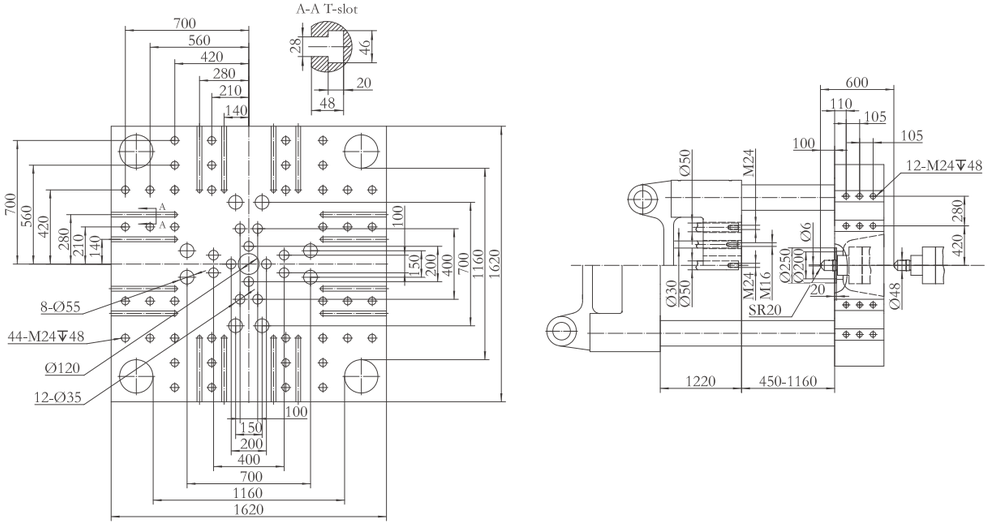

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Platen Dimensions

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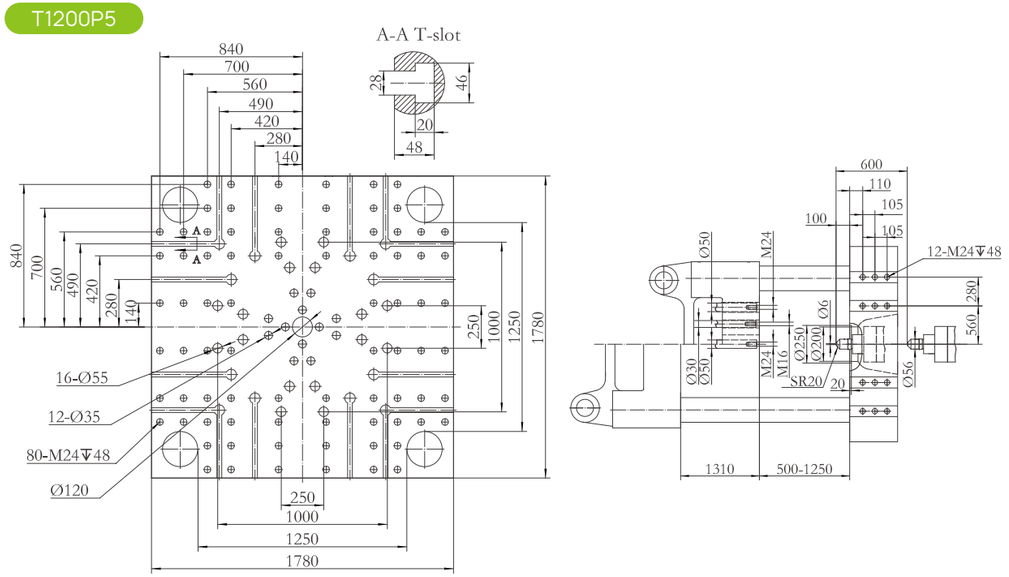

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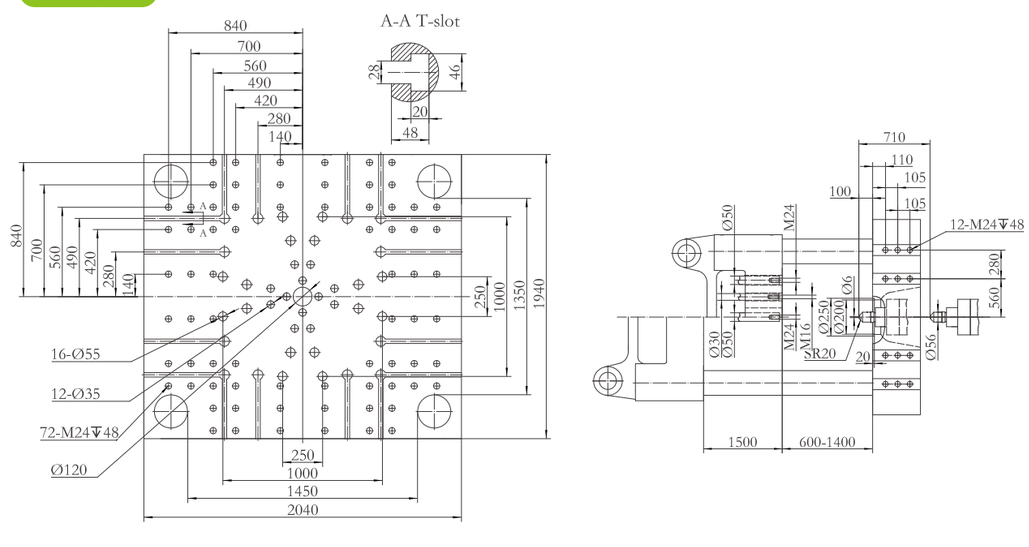

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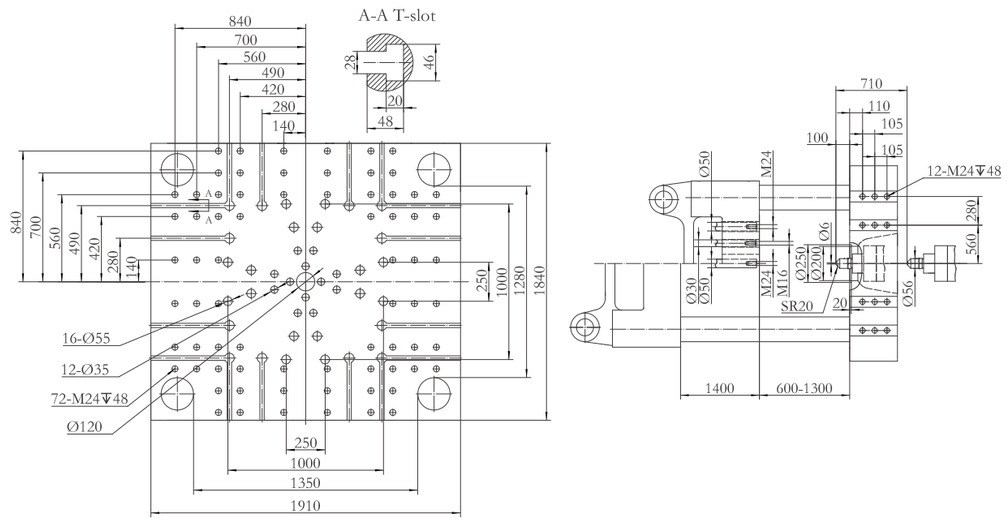

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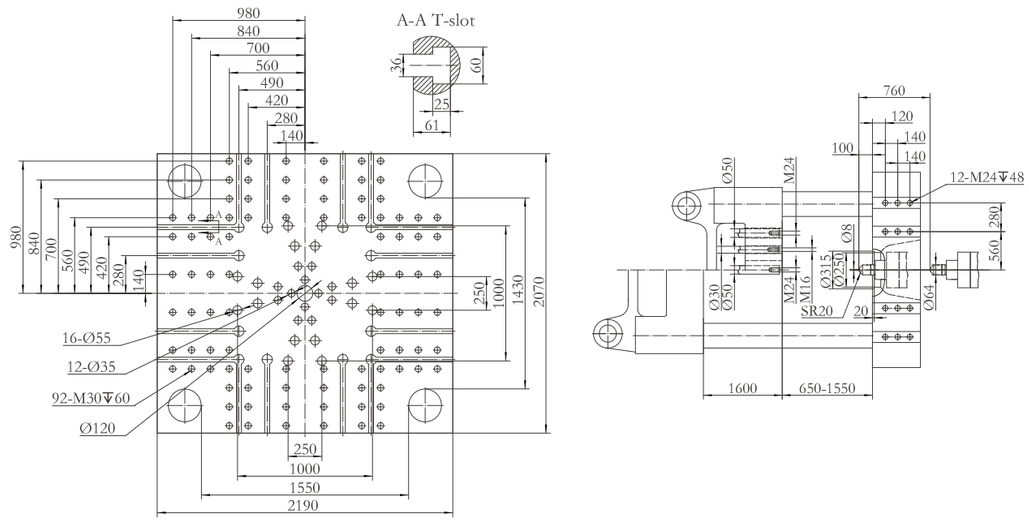

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Platen Dimensions

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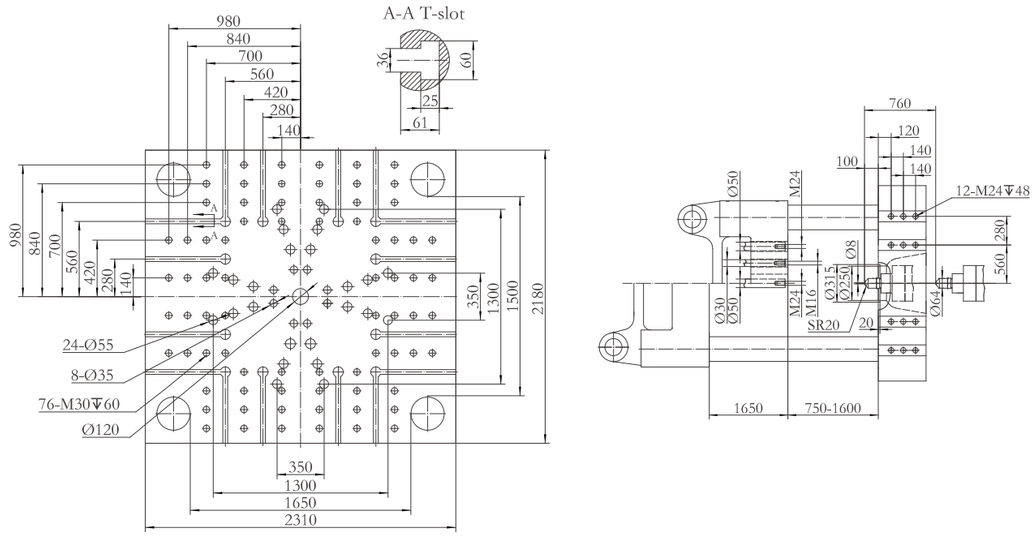

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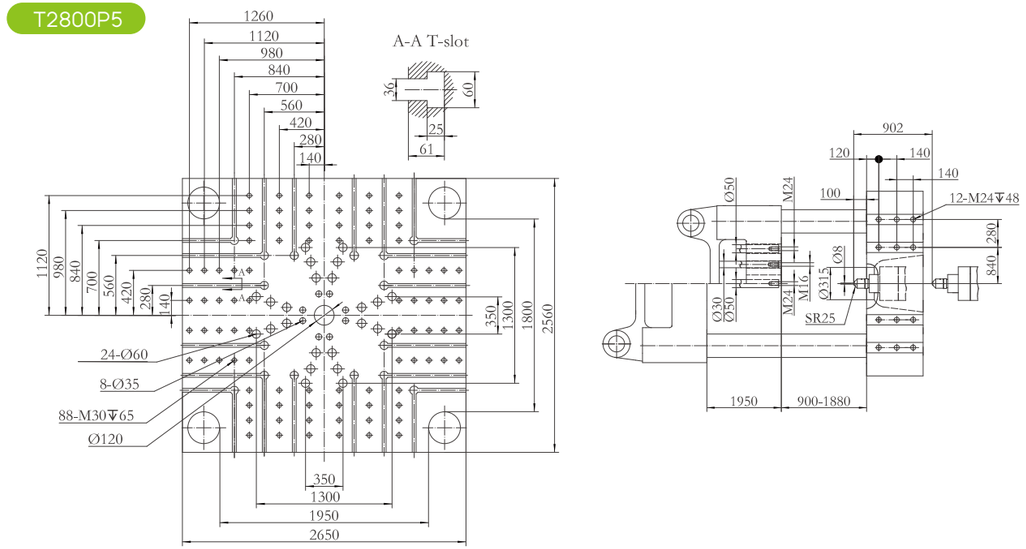

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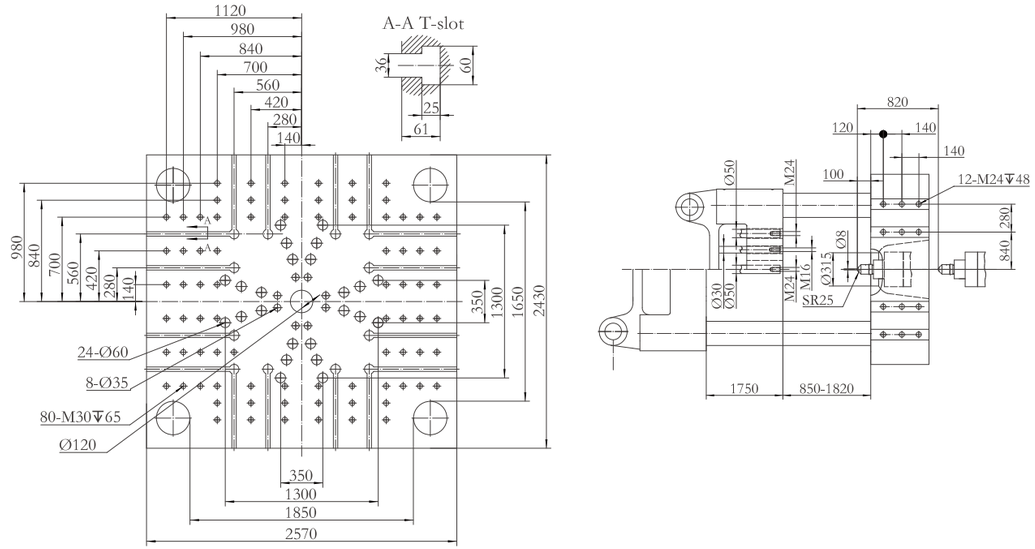
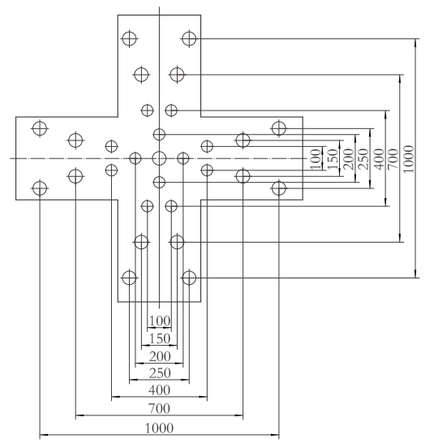
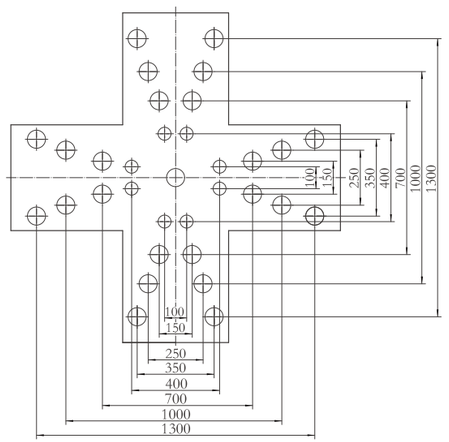


Ejector Hole Layout Dimensions

T1200-1600P5



T1850-2800P5



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Standard and Optional Features of T90-560P5

	Standard	Optional
Injection Unit		
Integrated injection unit with linear guides	●	
Balanced double injection cylinder	●	
Low-speed high-torque hydraulic motor	●	
Electroplating 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	●	
Compulsory ejector-back function	●	
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	●	
Numerical control proportional back pressure	●	
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		○

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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	●	
Electroplating 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 (electroplating, 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	●	
Compulsory ejector-back function	●	
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	●	
Numerical control proportional back pressure	●	
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		○

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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	●	
Electroplating 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 (electroplating, 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	●	
Compulsory ejector-back function	●	
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	●	
Numerical control proportional back pressure	●	
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		○

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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	●	
Numerical control proportional back pressure	●	
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	●	
Compulsory ejector-back function	●	
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		○

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