

THINK TECH FORWARD

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YIZUMI

TS3-U

90T-450T

BAKELITE SPECIAL
INJECTION MOLDING MACHINE

Free from Oil MTC



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[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

Core Value Propositions

To create a cleaner production environment, YIZUMI has released an integrated feeding system of bakelite and a turnkey solution including raw materials, molds, equipment and processes.

More effective

Improved injection speed

With a newly upgraded power system, the injection speed is increased by 15%-25%.

Shorter cycle time

The cycle time of the machine is improved by more than 5%.

More stable

Enhanced new clamping technology

Enhance the rigidity of clamping unit to evenly apply clamping force. Strengthen the center force to improve reliability and durability.

Optimized injection unit and plasticizing components

Less friction and faster response speed.

Upgraded electrical system

Upgraded to the new KEBA controller with the display upgraded to 12 inches, featuring 15-stage linear adjustment, positioning control for each action, and high control accuracy.

More energy-saving

Built-in two-stage high-precision barrel temperature control system, saving energy and space

Optimized adaptability design of control lines and oil valves to minimize pressure loss.

Upgraded servo for greater energy saving

Adopt a new generation servo system with gear pump for higher rotation speed and lower energy consumption.

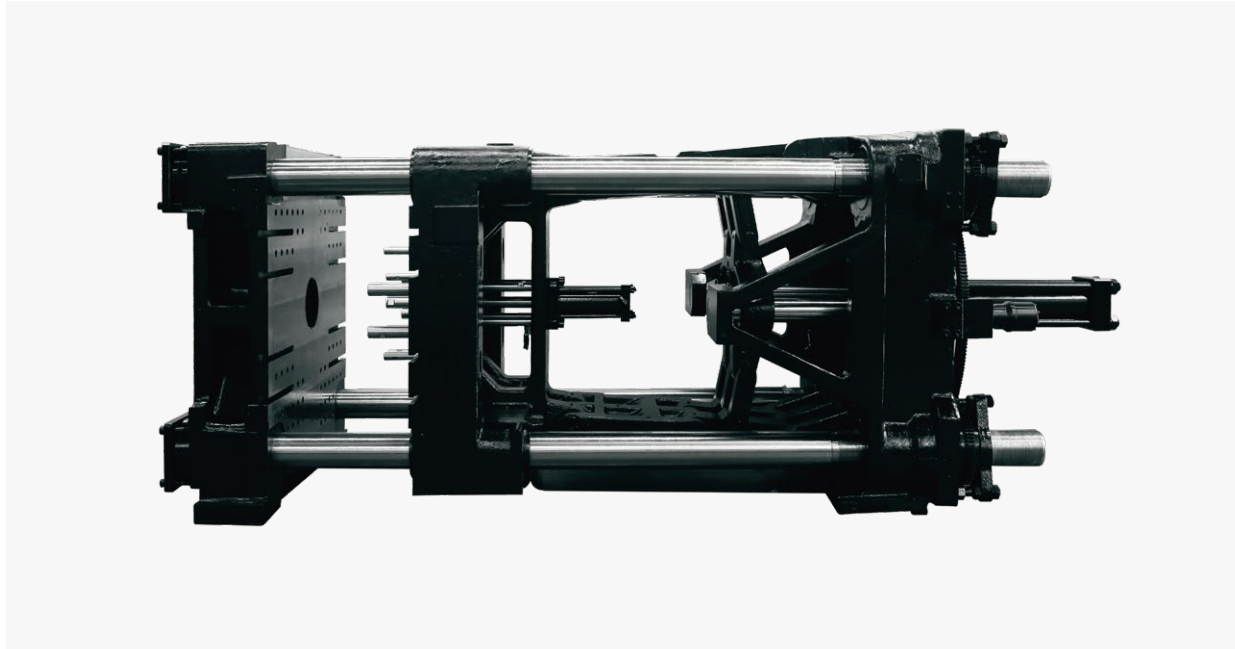
Optimized structure of the injection unit for lower resistance and higher energy efficiency

The unit integrates high-precision linear guides for both carriage and injection, coupled with low-friction oil seals, reducing frictional resistance throughout operation.



* The data above were acquired by testing in the factory, only for your reference. The specific data please accord to the actual equipment.

Clamping Unit

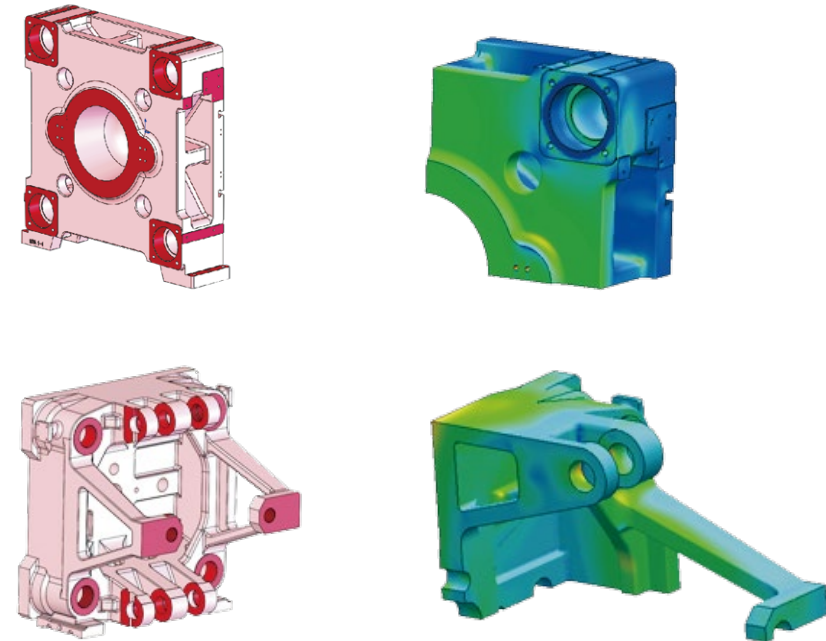
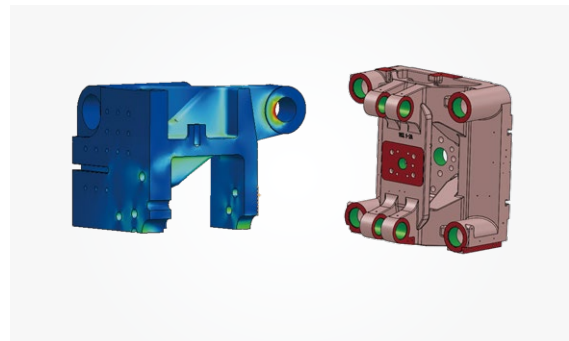


Comprehensive optimization of the clamping unit that enhances overall rigidity of the clamping unit by adopting movable platen with strong central support, high-rigidity fixed platen and movable platen.

The TS3-U series is equipped with modular platen design (T-slot + mounting holes) to facilitate the mold loading/unloading while enhancing the overall rigidity of the platen.

Strong central support to the movable platen structure

- Movable platen with strong central support minimizes platen deformation while achieving even distribution of clamping force.
- Use lower clamping force to reduce deformation of mold cavity, improve product molding accuracy, and save energy.

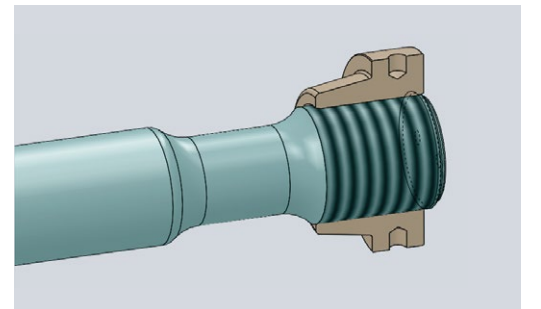


Highly rigid fixed platen and tail platen structure

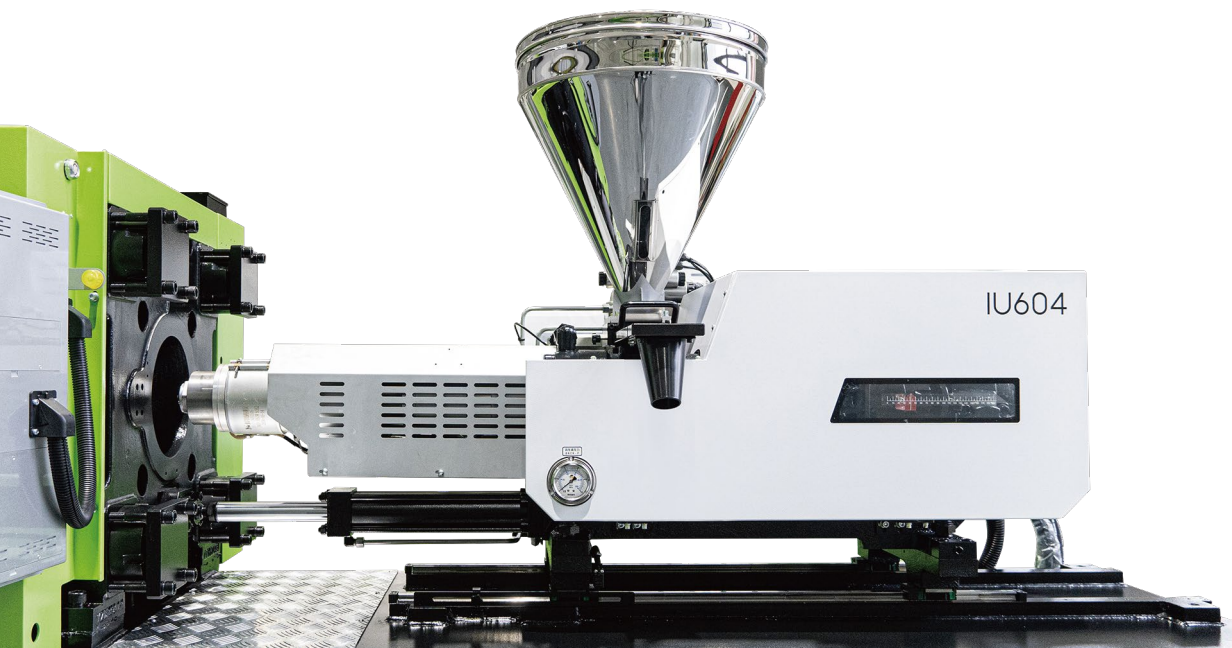
Optimization of fixed platen and tail platen structure to enhance rigidity and reduce mold deformation.

Tie bar and tie bar nut structure

The unique tie bar unloading groove design and the pitch diameter design for tie bar and tie bar nut threads greatly reduce stress concentration, cause no damage to tie bar and tie bar nut, and improve the reliability.



Injection Unit



Upgraded injection unit

- Injection linear guide structure: Reduce motion friction, increase injection accuracy, and enhance plasticizing efficiency.
- Specifically designed for thermosetting machines, the single injection carriage cylinder with linear guides facilitates the disassembly of the nozzle.



Optimized injection unit

Integrated carriage support: Adopt integrated carriage support to move forward the support points. Fixed injection plate to improve the stability of injection.



Fully-hardened screw

Industry-leading screw and barrel component: double-alloy barrel with fully-hardened screw, demonstrating excellent performance in processing highly abrasive and highly corrosive resins, and offering a longer service life.



Temperature control advantages of screw and barrel component

- Patented design of removable oil sleeve for lower costs and more precise temperature control.
- Thermocouple measures temperature directly at the barrel, providing higher accuracy.
- Built-in barrel temperature control system for energy efficiency and space saving.

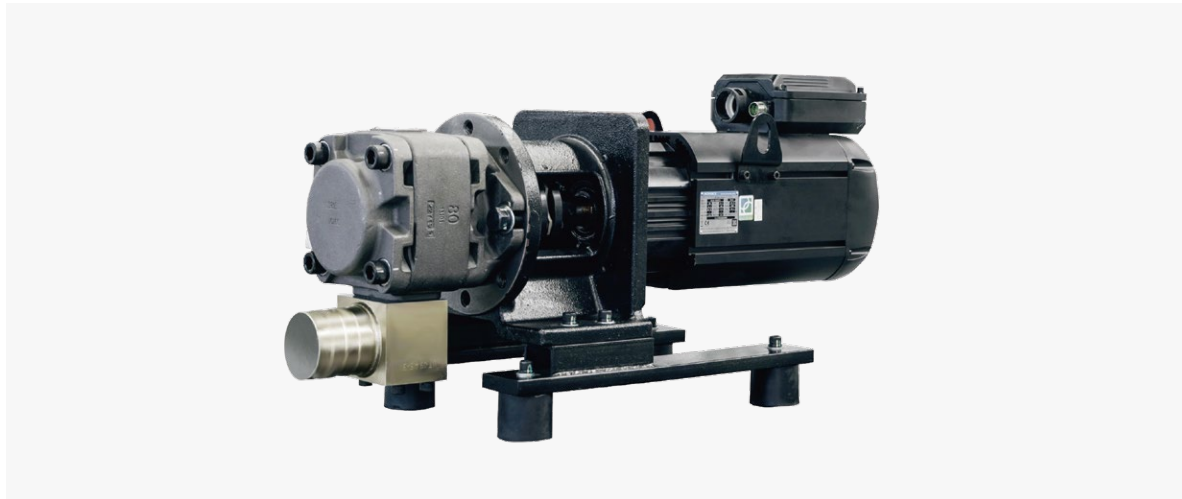


Nozzle

The nozzle features a patented design of built-in tungsten alloy that prevents alloy cracking caused by collision with mold, ensuring longer service life.

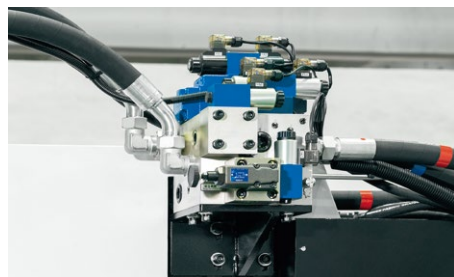


Hydraulic System



YIZUMI's fourth-generation servo technology

The all-new servo drive system adopts one-piece air duct technology, offering high speed and low noise.



All-new hydraulic circuit design

Optimized oil circuit design for lower pressure loss and more energy-saving:
Use optimized hydraulic principle and valve plate pipeline design to reduce oil pressure loss and improve energy-saving.

Low-friction oil seal

Reduce frictional heat and energy loss.



Standard feature of proportional control for plasticizing back pressure (for models above 630T)*

Proportional control for plasticizing back pressure for more convenient adjustment of

Faster response

High response speed of injection/plasticizing, for wider range of process applications.

Stronger power

Stronger power and faster injection speed.

Control System



Control system with higher value

- Upgraded KEBA system;
- Expandable with multiple modules including AO, AI, DO, DI, and TM to meet more requirements;
- Real-time monitoring of signals from machine equipped sensors to coordinate corresponding movements for higher operating safety;
- Support common RS232/485 communication interface, CANOPEN, Ethernet port, temperature compensation sensor connector, and USB port;
- 15-stage linear control on speed;
- Offer more precise control. Accurate response to 1% flow. More user-friendly parameter adjustment.

General

- Optional function of switch between thermoplasticizing and thermosetting, high compatibility.

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* 560T and above models should be customized. For more details, please contact us.

TS3-U Series IMM for Bakelite

Specifications

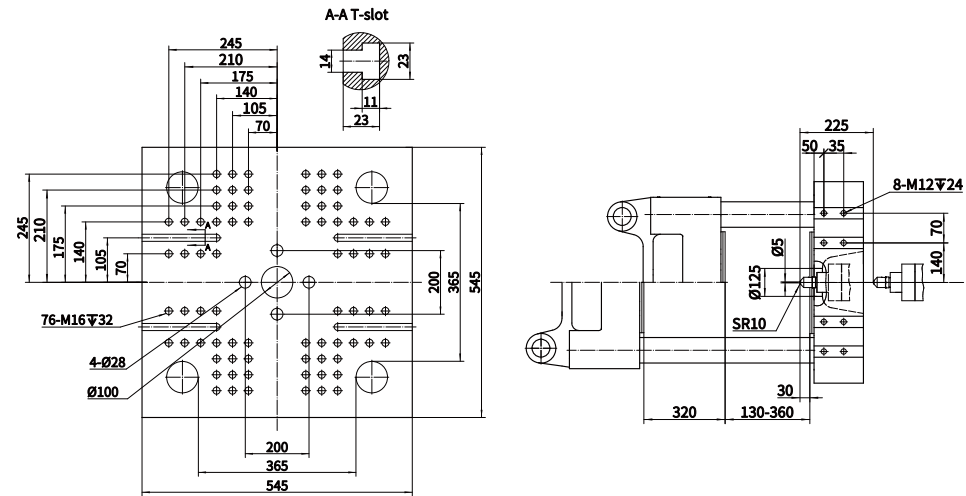
Description	UNIT	T90S3-U		T120S3-U		T120S3-UP		T160S3-U		T200S3-U		T260S3-U		T290S3-U		T320S3-U		T380S3-U		T450S3-U			
International specifications		290/900		420/1200	420/1200	420/1200	420/1200	420/1200	600/1600	600/1600	890/2000		1340/2600		1810/2900		1990/3200		2260/3800		3210/4500		
INJECTION UNIT																							
Theoretical shot volume	cm³	117	159	164		214		247		258	371	558		800		1071		1135		1458		1860	
Shot weight	g	128	175	180		235		272		283	408	614		880		1178		1249		1604		2046	
	oz	4.5	6.2	6.3		8.3		9.6		10.0	14.4	21.7		31.0		41.6		44.1		56.6		72.2	
Screw diameter	mm	30	35	35		40		43		40	48	55		62		68		70		75		80	
Injection pressure	MPa	267	196	272		208		180		248	172	170		168		179		176		164		183	
Injection rate	g/s	81	111	100		130		151		137	197	252		255		304		309		412		464	
Screw L:D ratio		16:1		16:1		16:1		16:1		16:1		16:1		16:1		16:1		16:1		16:1		16:1	
Max. injection speed	mm/s	104		94		94		99		96		96		77		76		73		85		84	
Screw stroke	mm	165		170		170		205		235		265		295		295		295		330		370	
Stroke-bore ratio		5.5	4.7	4.9		4.3		4.0		5.1	4.3	4.3		4.3		4.3		4.2		4.4		4.6	
Screw speed	r/min	0-180		0-180		0-180		0-160		0-150		0-120		0-90		0-120		0-100		0-100		0-100	
CLAMPING UNIT																							
Clamping force	kN	900		1200		1200		1600		2000		2600		2900		3200		3800		4500			
Opening stroke	mm	320		360		360		410		460		530		590		580		660		740			
Space between tie bars (WxH)	mmxmm	365*365		415*375		410*410		460*440		510*510		570*570		630*630		670*670		710*710		780*780			
Max. daylight	mm	680		760		770		880		990		1100		1180		1200		1350		1530			
Max. daylight (standard machine)	mm	670		810		870		980		1100		1220		1240		1370		1520					
Mold thickness (min. - max.) (from the inner side of the insulation board or steel plate)	mm	130-360		145-410		160-470		180-530		205-530		210-590		220-620		250-670		310-740					
Mold thickness (min. - max.) (standard machine)	mm	130-350		145-400		145-450		160-460		180-520		205-570		230-630		220-660		250-710		310-780			
Ejector stroke	mm	100		120		140		150		160		170		170		210		220					
Ejector number		5		5		5		5		13		13		13		13		13		13			
Ejector force	kN	28		42		42		49		77		77		77		110		110					
POWER																							
Max. system pressure	MPa	18.5		18.5		18.5		18.5		18.5		18.5		18.5		18.5		18.5		18.5			
Pump motor power	kW	13.2		21.4		25.2		29.3		29.3		35.2		35.2		55.5		66					
Heating power of barrel	kW	3.2	3.5	2.77	3.2	4.5	4.88	6.45	8	10	12	15	18										
Number of temp control zones (barrel + mold)		2+2		2+2		2+2		2+2		2+2		2+2		2+2		2+2		2+2		2+2			
Mold heating power (double sides)		4+4		4+4		5+5		6+6		8+8		8+8		10+10		12+12		12+12					
GENERAL																							
Dry cycle time	s	1.9		1.9		2.1		2.7		2.8		2.8		3.4		3.6		3.9					
Oil tank capacity	L	120		146		167		230		230		315		326		410		510					
Machine dimensions (L×W×H)	mxmxm	4.7×1.15×1.56		4.69×1.19×1.97		4.56×1.21×1.97		5.41×1.25×1.89		5.83×1.31×1.98		6.24×1.59×2.29		6.5×1.59×2.30		6.84×1.73×2.37		7.78×2.12×2.03		8.55×2.20×2.40			
Machine weight	kg	2800		3200		4100		5000		6700		8500		8800		12100		15000					

Note: 1. Theoretical injection volume=sectional area of barrel X injection stroke; 2. Actual injection volume=theoretical injection volume×1.1(calculated with bakelite);
3. Due to improvement, specifications may be changed without prior notice.

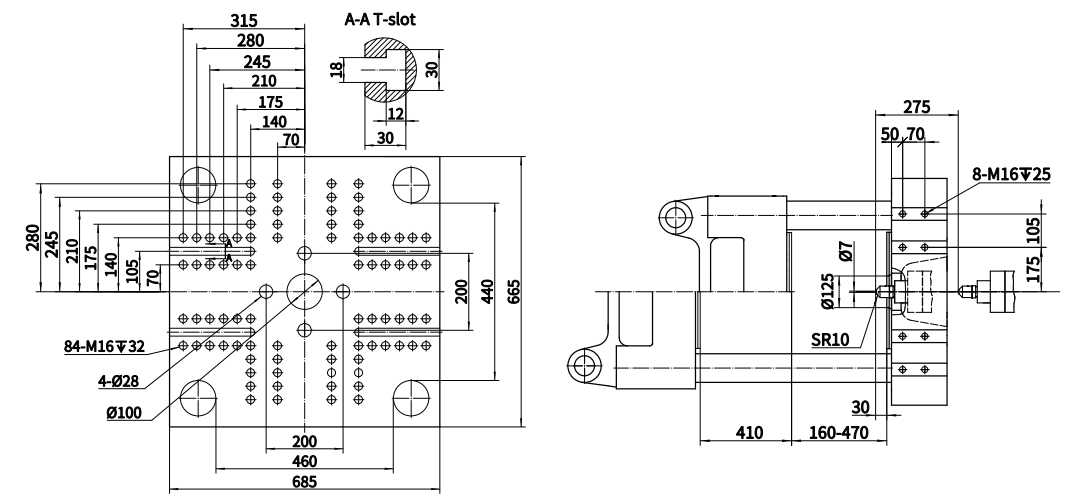
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Platen Dimensions

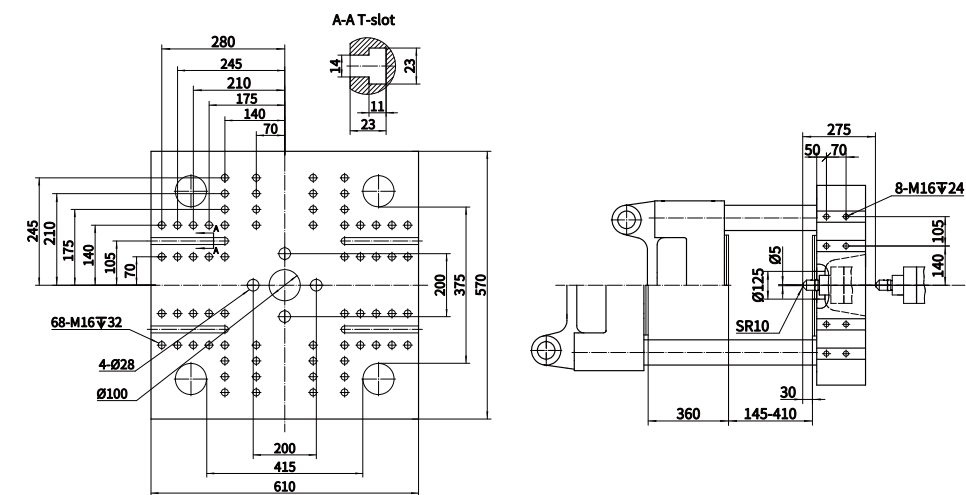
T90S3-U



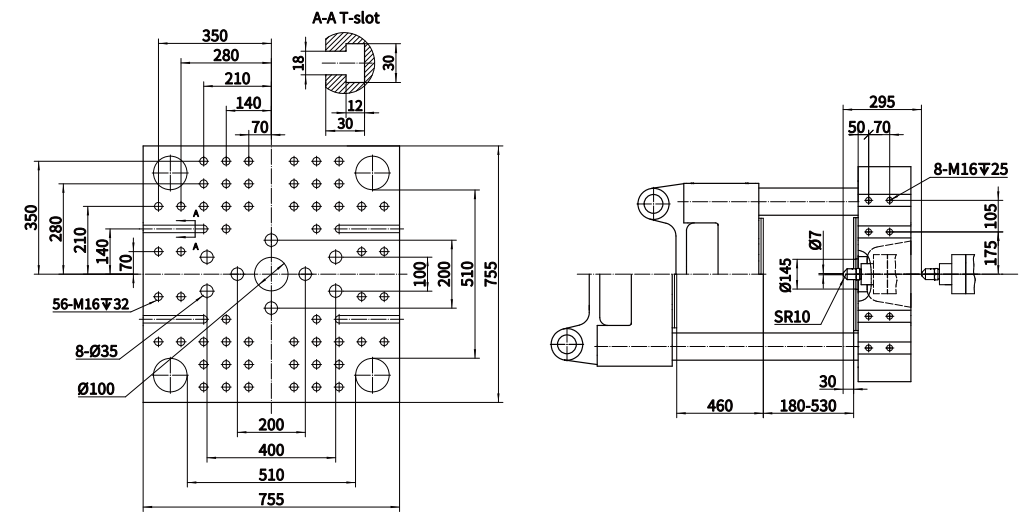
T160S3-U



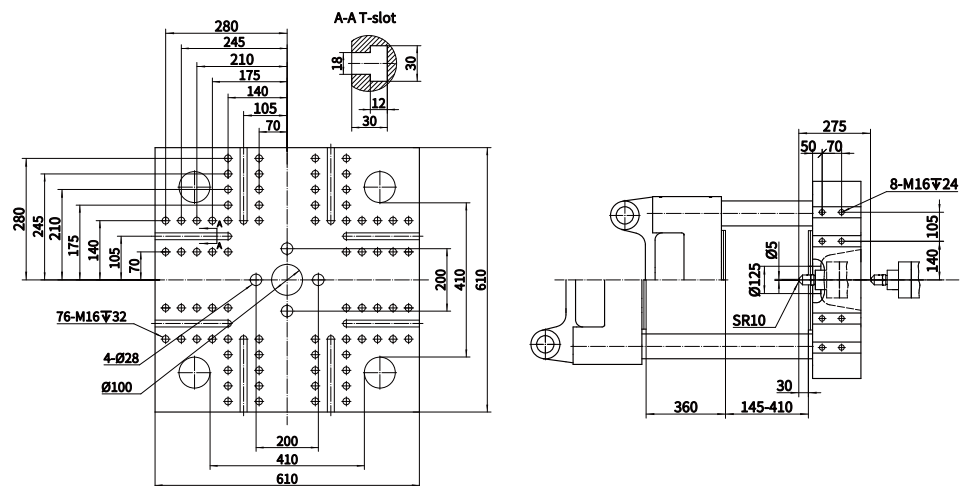
T120S3-U



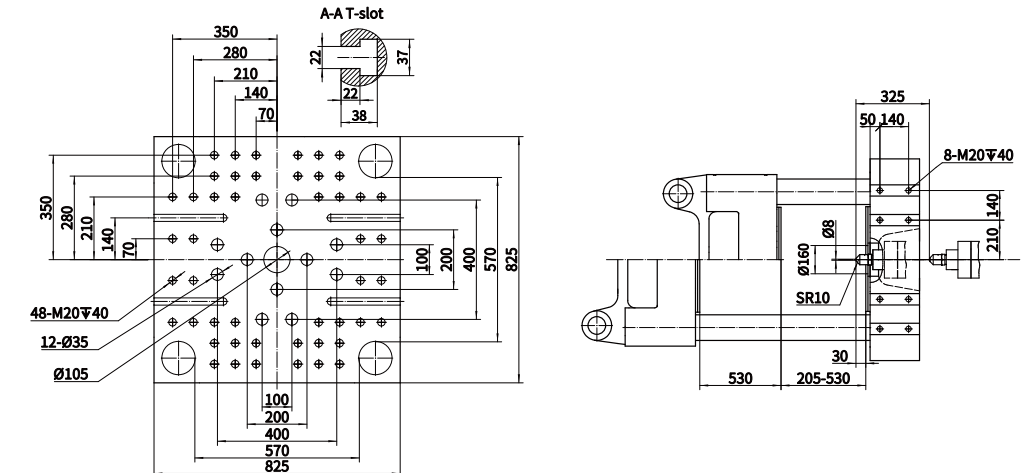
T200S3-U



T120S3-UP



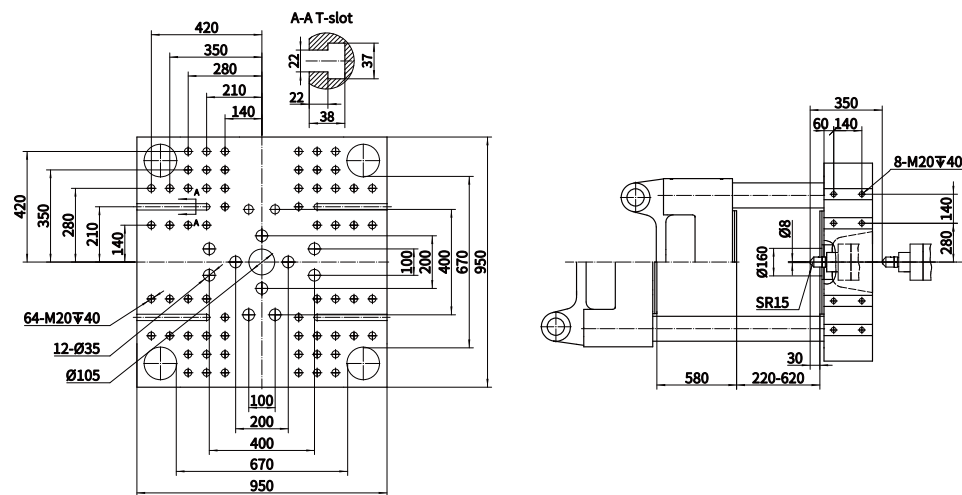
T260S3-U



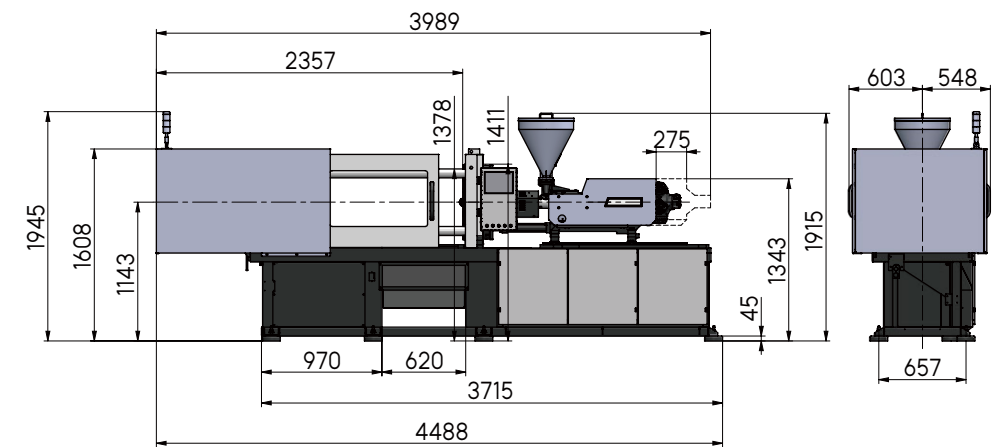
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Machine Dimensions

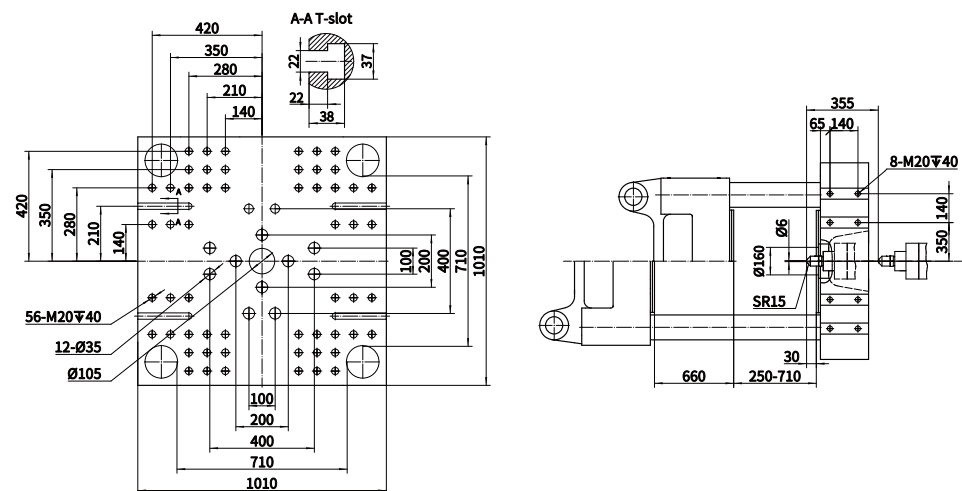
T320S3-U



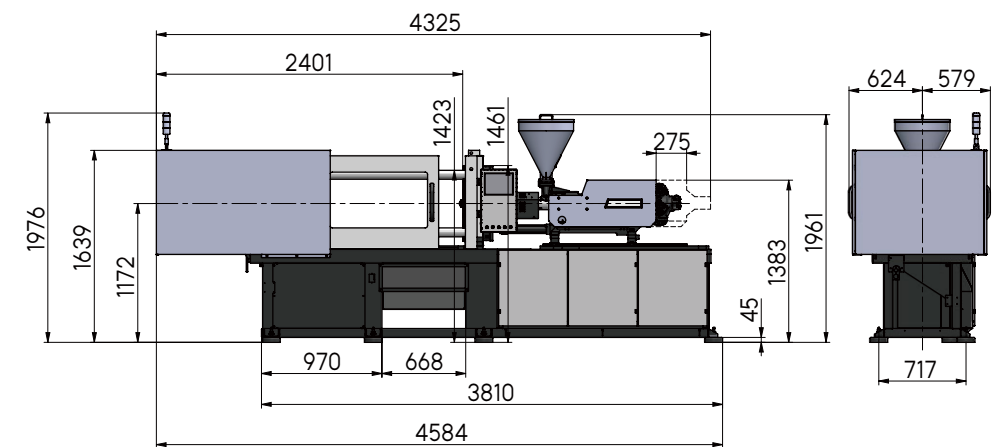
T90S3-U



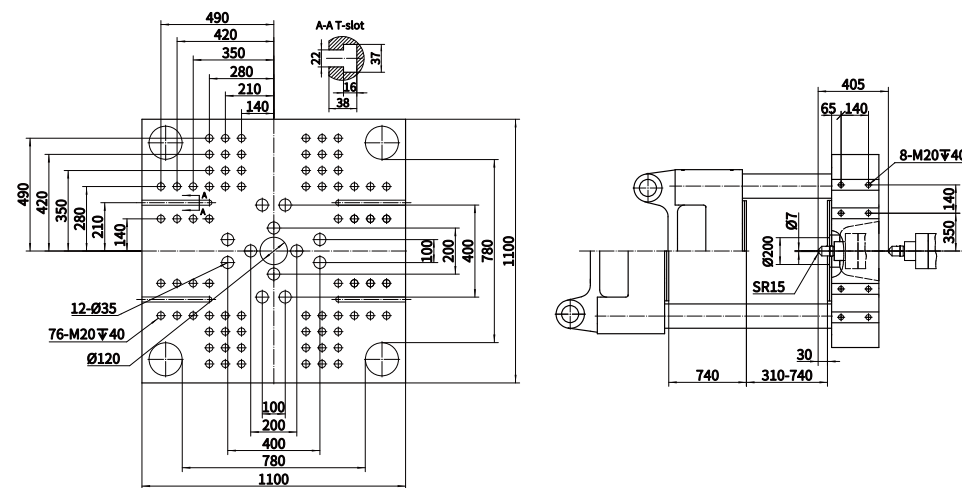
T380S3-U



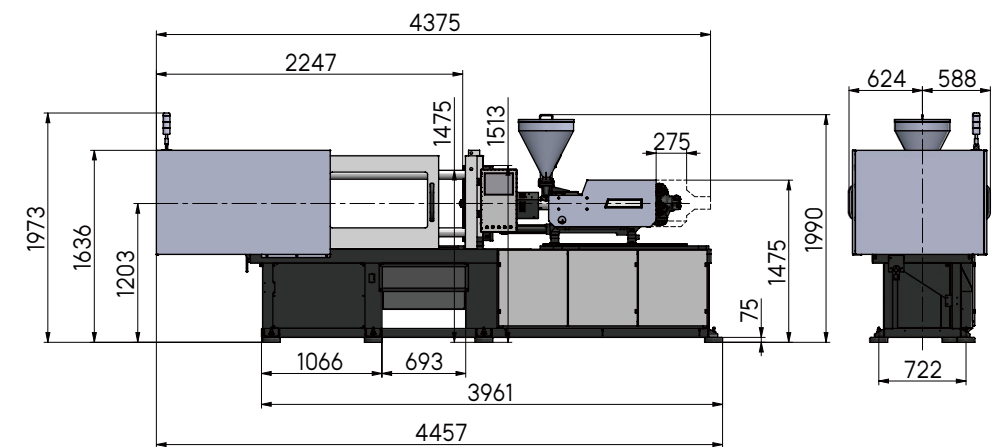
T120S3-U



T450S3-U



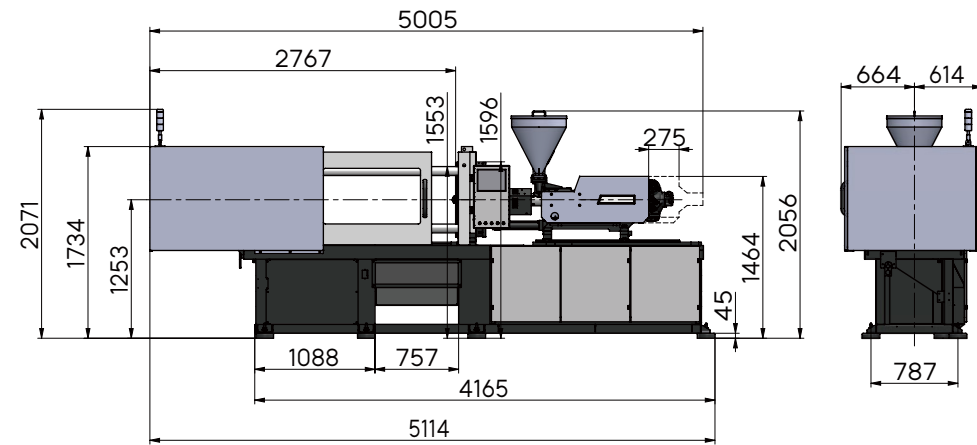
T120S3-UP



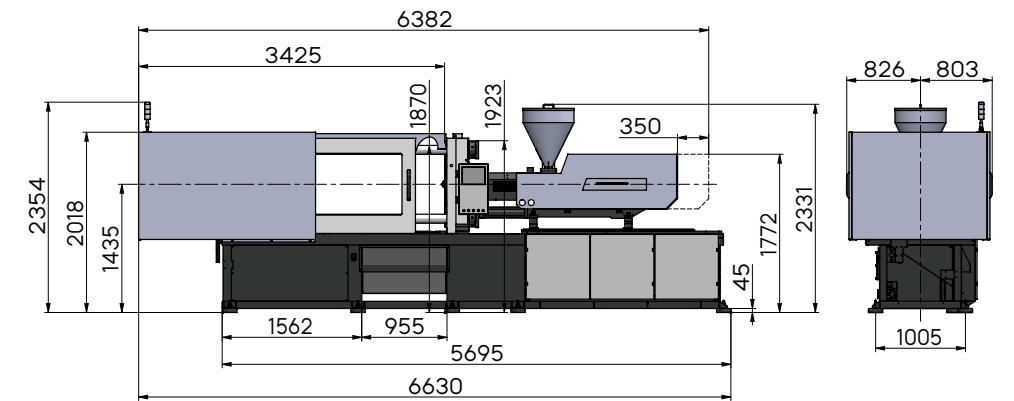
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Machine Dimensions

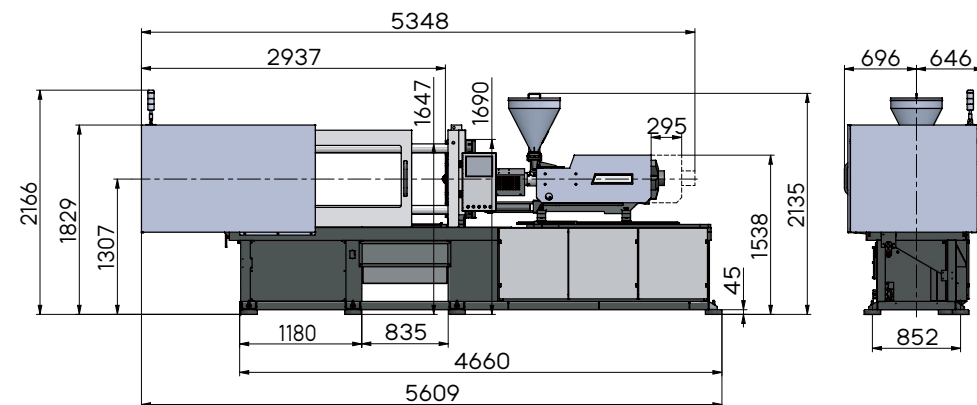
T160S3-U



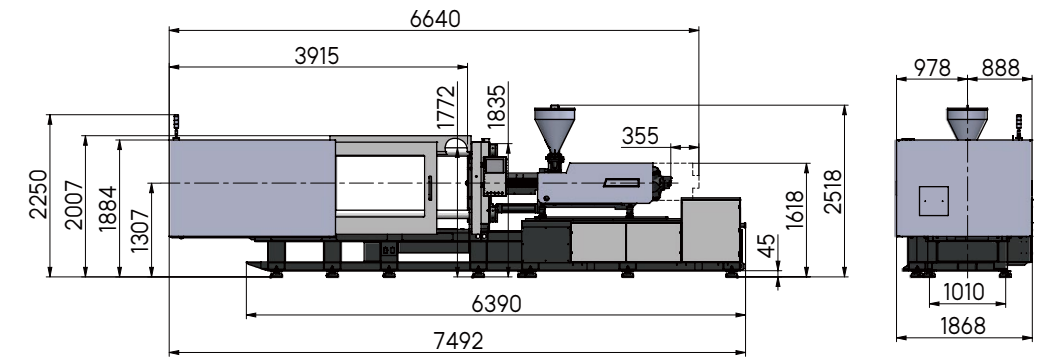
T320S3-U



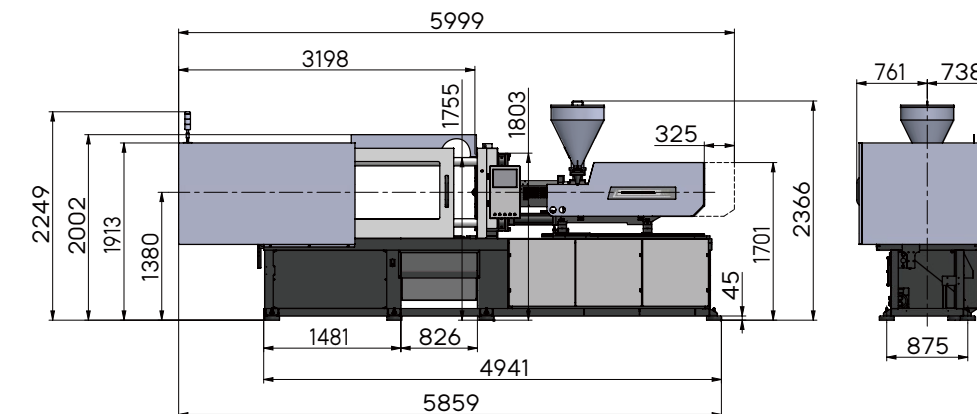
T200S3-U



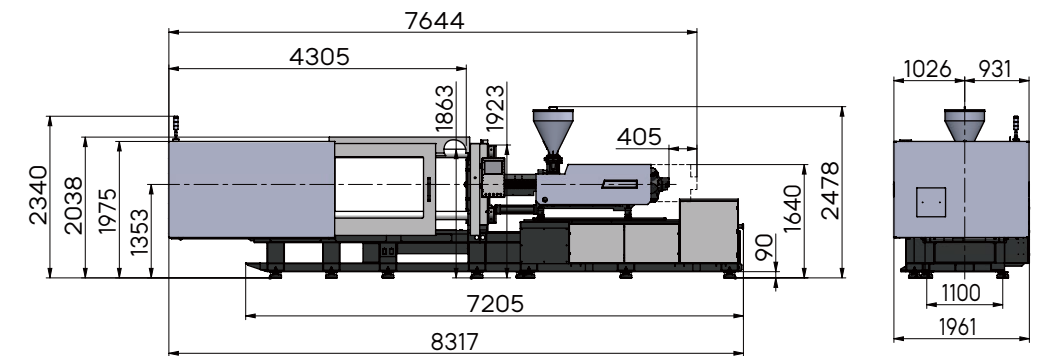
T380S3-U



T260S3-U



T450S3-U



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TS3-U Series Standard and Optional Features

	Standard	Optional
Injection/Plasticizing Unit		
Integrated two-stage temperature control system	●	
Single-cylinder carriage structure	●	
Dual-alloy barrel+removable oil sleeve	●	
Parallel double-cylinder injection device	●	
Movable hopper device (90T-320T)	●	
Cold start protection	●	
Automatic purging	●	
Selectable suck-back before or after plasticizing	●	
Automatic fault detection during injection/ plasticizing	●	
Precision transducer for injection stroke/ plasticizing stroke	●	
6-stage injection speed / pressure /position control	●	
5-stage holding pressure speed / pressure / time control	●	
3-stage plasticizing speed / pressure / position control	●	
One-piece injection unit supported with linear guide rail	●	
3-bearing drive for plasticizing (for 260T or above models)	●	
Proportional control for plasticizing back pressure		○
Purge guard (with electrical protection)		○
Upgraded injection unit		○
Clamping Unit		
Precision transducer for clamping / ejector stroke control	●	
Clamping platens / toggles made of highly-rigid ductile iron QT500-7A	●	
2-stage ejector forward/backward control	●	
Low-pressure mold protection	●	
Multiple ejector function settings	●	
Hydraulic mold height adjustment device	●	
Hydraulic / electrical safety devices	●	
Wear-resistant manganese steel supporting tracks for movable platen	●	
Highly rigid platen with T-slots and screw holes	●	
Automatic centralized lubrication system	●	
EUROMAP-based robot mounting holes	●	
Mold heating power supply and temperature thermocouple	●	
Mold thermal insulation plate and anti-collision steel plate	●	
Mold venting	●	
Ejector forced reset	●	
Anti-pinch and anti-bump strips on the edge of safety doors	●	
Increased mold thickness		○
Increased ejector stroke		○
Mold lifting device		○
Special mold mounting hole		○
Automatic safety door		○
Multi-mold temperature controller		○
Aviation plug for mold heating		○
Breathing mold function		○

	Standard	Optional
Hydraulic System		
Fourth-generation servo system	●	
Precision real-time by-pass oil filter	●	
Low-noise energy-efficient hydraulic circuit	●	
High-performance hydraulic valve	●	
External cooler	●	
Automatic calibration of pressure and flow	●	
Plasticizing back pressure adjustment device	●	
Cable hose restraint for exposed HP hydraulic hose	●	
Low-friction seal	●	
Synchronized ejection, core pulling and plasticizing system		○
Proportional valve for mold opening and closing		○
Multiple sets of core puller		○
Additional hydraulic unscrewing device		○
Automatic oil temperature detection and alarm		○
Control System		
Barrel heating protection	●	
Input/output inspection	●	
Automatic heat retaining and automatic heating setting	●	
Time / position / time + position controlled switchover from injection to holding pressure	●	
Separate adjustment of motion slope	●	
Automatic clamping force adjustment	●	
Process parameter locking	●	
Storage space for 1000 sets of process parameters	●	
12" TFT true color display	●	
Multiple operating languages	●	
Three sets of 3-phase power socket (2×32A+16A)	●	
Preserved interfaces for air blowing, core pulling, ejector back protection devices, etc.	●	
Emergency stop buttons for front and rear safety gates	●	
Two-color alarm light	●	
Air blowing with valve		○
Central (networked) monitoring system		○
Protective light grid of safety gates		○
Display of overall energy consumption		○
Change of power supply voltage		○
General		
Operation manual	●	
Leveling pad	●	
A tool kit	●	
Filter element	●	
Mold retaining plate	●	
Nozzle wrench	●	
Automatic vacuum feeding system		○
Dual-purpose unit for thermoplasticizing and thermosetting		○
Deburring machine		○
Pinning machine		○

● Standard ○ Optional

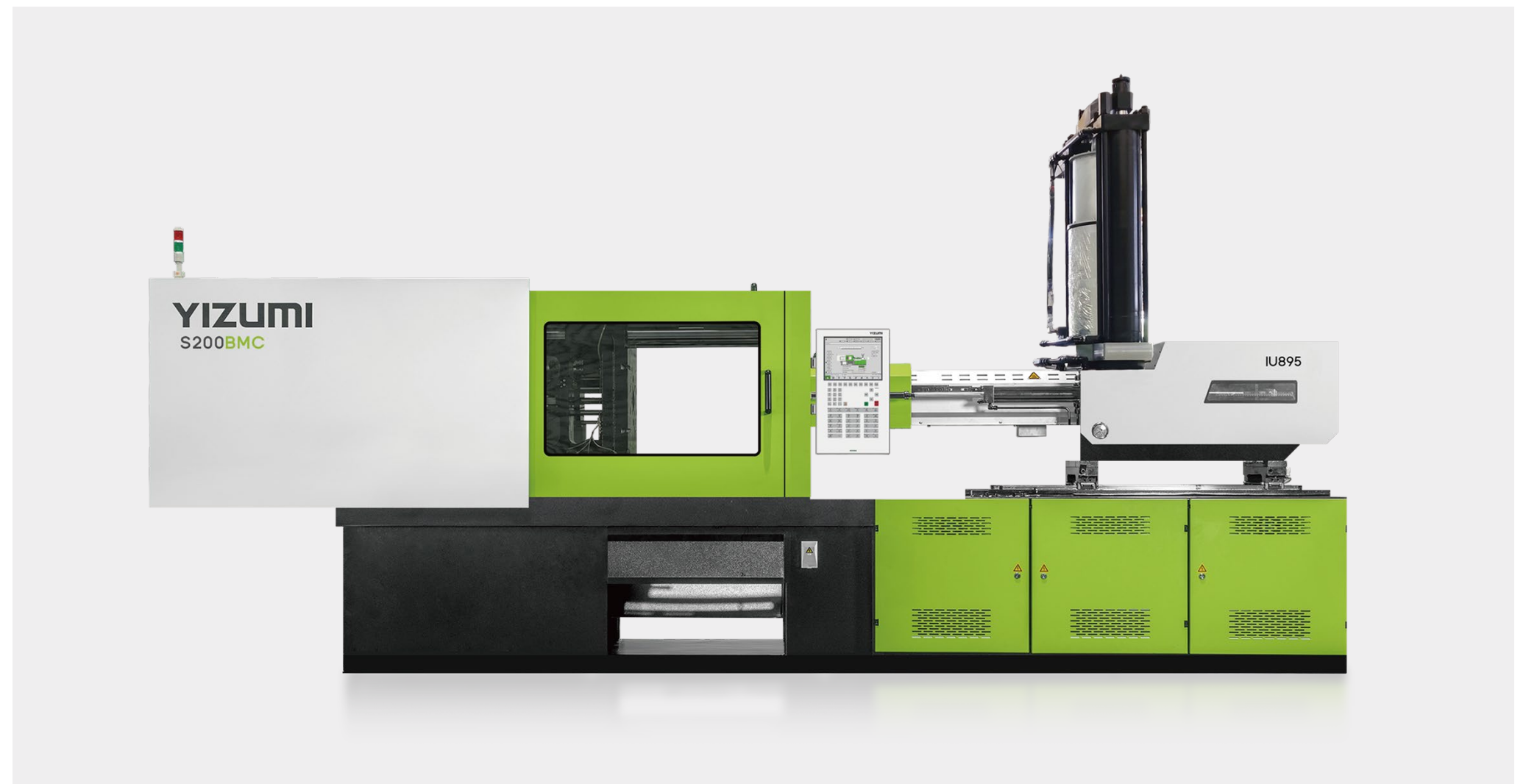
	Standard	Optional
Special Features		
Mold thermal insulation plate (China-made)	●	
Thermal insulation plate with steel plate protection	●	
Screw and barrel component for bakelite	●	
Screw and barrel component with split-type aluminum oil sleeve	●	
Enhanced plasticizing motor	●	
Single-cylinder carriage structure	●	
Removal of nozzle purge guard	●	
Standard material hopper	●	
Two sets of 380V mold heating connectors		○
Two sets of 220V mold heating connectors	●	
Two-color alarm light	●	
Integrated barrel temperature control system (temperature controller and oil temperature control solutions)	●	
Mold heating with current meter	●	
Special function: mold venting	●	
Special function: compression molding	●	
Mold manifold removal	●	
One wrench for large nozzle removal (included)	●	
One set of large and small nozzles (included)	●	
Automatic feeding system		○

● Standard ○ Optional

SBMC Series Injection Molding Machine

- | Screw and barrel unit special for BMC, good wear resistance and corrosion resistance; Professional plasticizing unit design, convenient for feeding and cleaning, high measurement accuracy, and less damage to glass fiber;
- | Large-tonnage machine is equipped with feeding platform stairs, convenient for feeding;
- | The compression cylinder features a dual-cylinder design with low center of gravity and stable pressure, making it suitable for low-ceiling workshops;
- | Automatic feeder, fast and accurate.

SBMC



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SBMC Series Injection Molding Machine

Specifications

Description	UNIT	S200BMC			S260BMC			S320BMC			S380BMC			S450BMC			S530BMC		
Injection model		IU895			IU1000			IU1800			IU2260			IU3200			IU4200		
International specifications		896/2000			1010/2600			1810/3200			2268/3800			3216/4500			4209/5300		
INJECTION UNIT																			
Theoretical shot volume	cm³	425.2	518.4	664.4	479.5	584.6	749.2	834.1	978.9	1135.3	1095.0	1270.0	1658.7	1423.9	1859.8	2459.5	2211.6	2438.3	2924.9
Shot weight	g	765.4	933.1	1195.9	863.1	1052.3	1348.6	1501.3	1762.0	2043.5	1971.0	2285.9	2985.7	2563.0	3347.6	4427.2	3980.9	4388.9	5264.8
	oz	27.0	33.0	42.3	30.5	37.2	47.7	53.1	62.3	72.2	69.6	80.8	105.5	90.6	118.3	156.4	140.7	155.1	186.0
Screw diameter	mm	48	53	60	48	53	60	60	65	70	65	70	80	70	80	92	80	84	92
Injection pressure	MPa	210.8	172.9	134.9	210.8	172.9	134.9	217.0	184.9	159.5	207.1	178.6	136.7	225.9	172.9	130.8	190.3	172.6	143.9
Injection rate	g/s	329.6	401.8	515.0	329.6	401.9	515.0	464.6	545.3	632.4	603.3	699.6	913.8	697.5	911.1	1204.9	920.1	1014.4	1216.9
Screw L:D rate		13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1	13:1
Plasticizing rate	g/s	28.2	36.8	49.8	24.2	31.5	42.6	43.5	55.2	67.2	48.2	59.8	84.1	55.2	73.8	82.9	66.2	72.5	82.5
Max. injection speed	mm/s	101.2			101.2			91.3			101			100.7			101.7		
Screw stroke	mm	235			265			295			330			370			440		
Screw speed	r/min	0-222			0-190			0-195			0-176			0-163			0-147		
Volume of compression cylinder	L	20			30			30			40			40			40		
CLAMPING UNIT																			
Clamping force	kN	2000			2600			3200			3800			4500			5300		
Opening stroke	mm	460			530			580			660			740			825		
Space between tie bars (W×H)	mm×mm	510×510			570×570			670×670			710×710			780×780			830×800		
Max. daylight	mm	1080			1200			1340			1470			1620			1775		
Mold thickness (min.-max.)	mm	180-620			205-670			220-760			250-810			310-880			350-950		
Ejector stroke	mm	150			160			170			210			220			220		
Ejector number		5			13			13			13			13			17		
Ejector force	kN	49			77			77			110			110			166		
POWER UNIT																			
Max. system pressure	MPa	17.5			117.5			17.5			17.5			17.5			17.5		
Max. pump motor power	kW	29.3			29.3			35.2			55.5			66			66		
Heating power	kW	13.06/15.36			13.06/15.36			22.9			25.1/27.44			31.33/39.22			33.69/35.14		
Number of temp. control zones		5			5			5			5			6			6		
GENERAL																			
Dry cycle time	s	2.4			2.8			3.4			3.6			3.9			5.2		
Oil tank capacity	L	220			230			326			410			510			570		
Machine dimensions (L×W×H)	m×m×m	5.35x1.37x2.02			5.96x1.50x2.81			6.73x1.63x2.89			7.60x1.9×2.95			8.33x1.99×2.99			8.87×2.06×3.17		
Machine weight	kg	5000			7700			9900			13700			16700			19700		

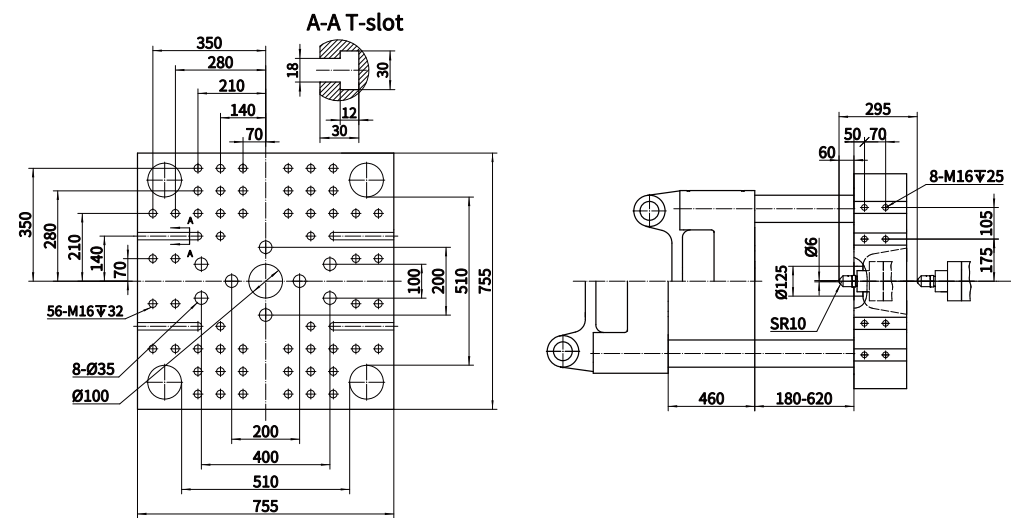
Note: 1. Theoretical injection volume=sectional area of barrel × injection stroke.
2. Actual injection volume=theoretical injection volume×1.8(calculated with bakelite)
3.Due to improvement, specifications may be changed without prior notice.

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;
5. The specification of machine size is based on mid-size barrel. If you need large-size barrel or a special machine model, please refer to YIZUMI actual size.

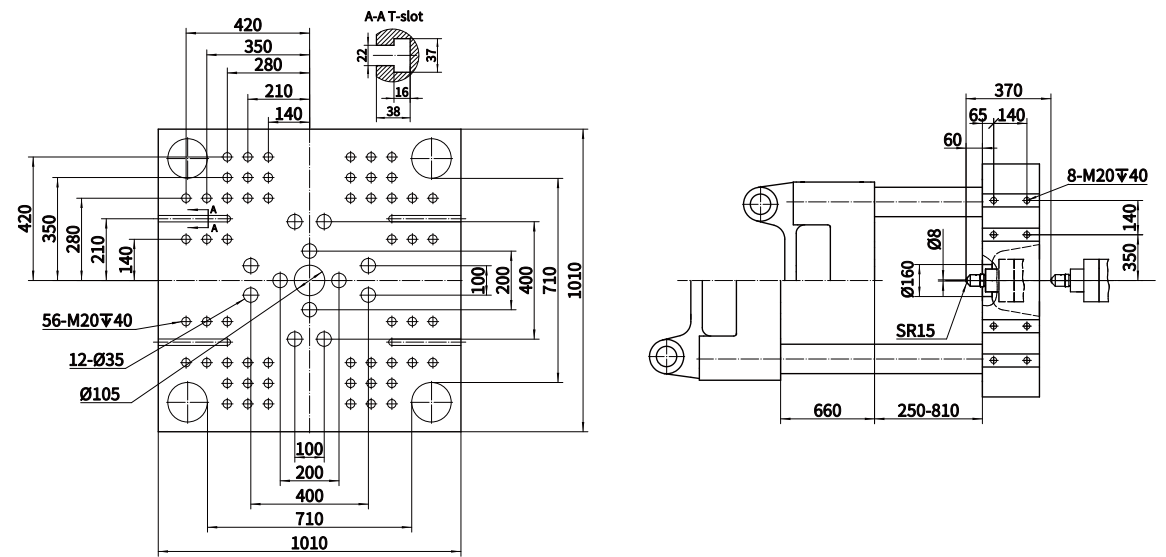
* The data above were acquired by testing in the factory, only for your reference. The specific data please accord to the actual equipment.

Platen Dimensions

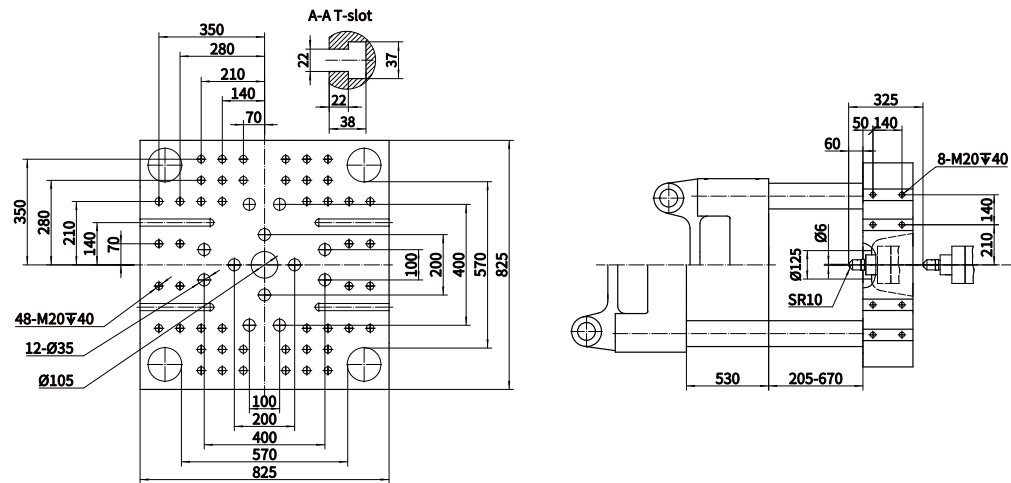
S200BMC



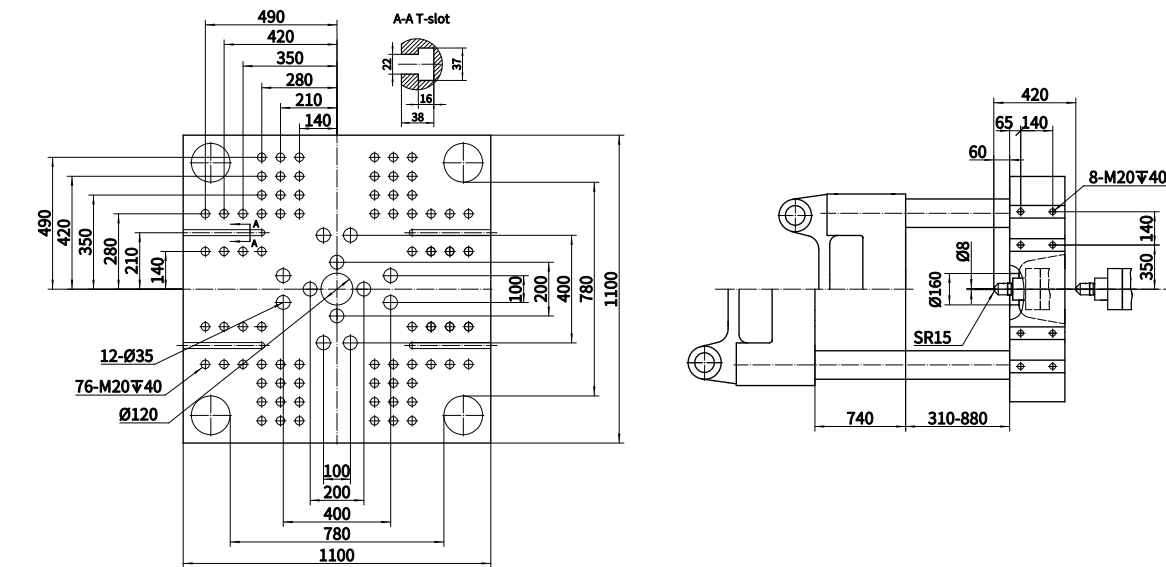
S380BMC



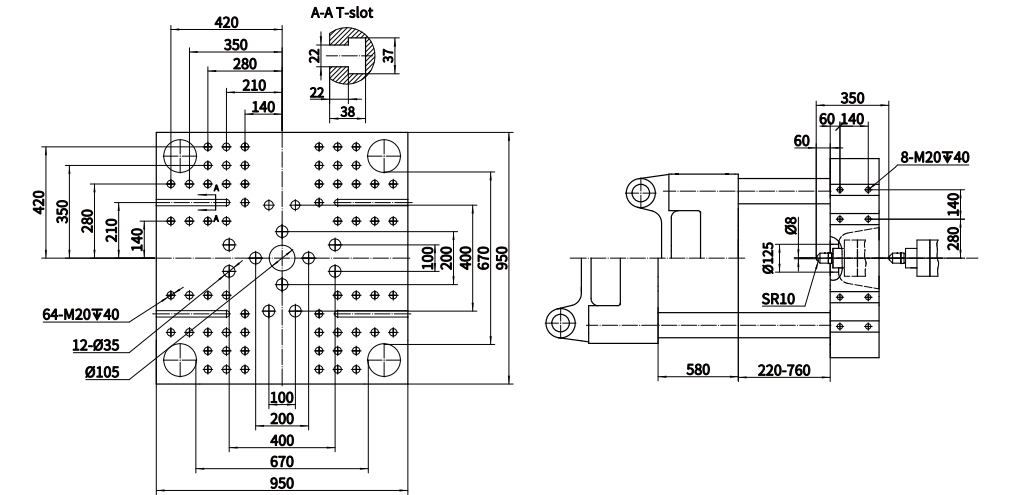
S260BMC



S450BMC



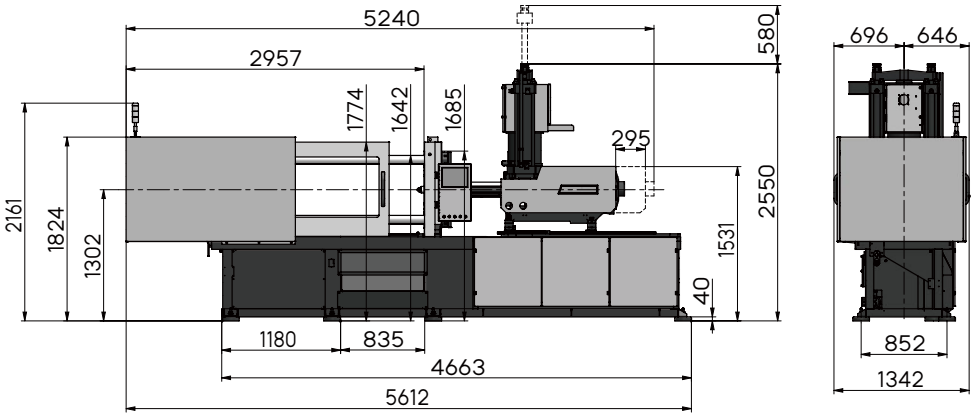
S320BMC



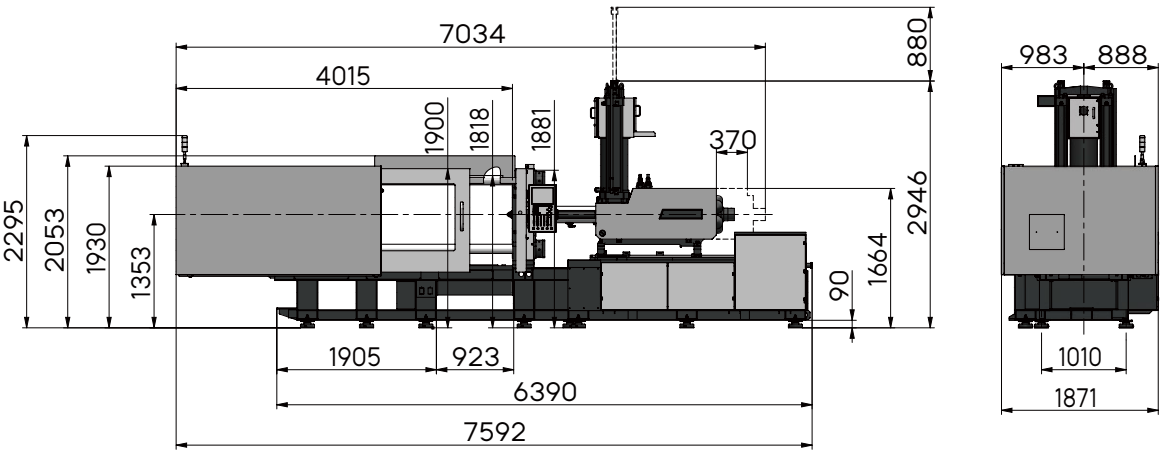
* The data above were acquired by testing in the factory, only for your reference.
The specific data please accord to the actual equipment.

Machine Dimensions

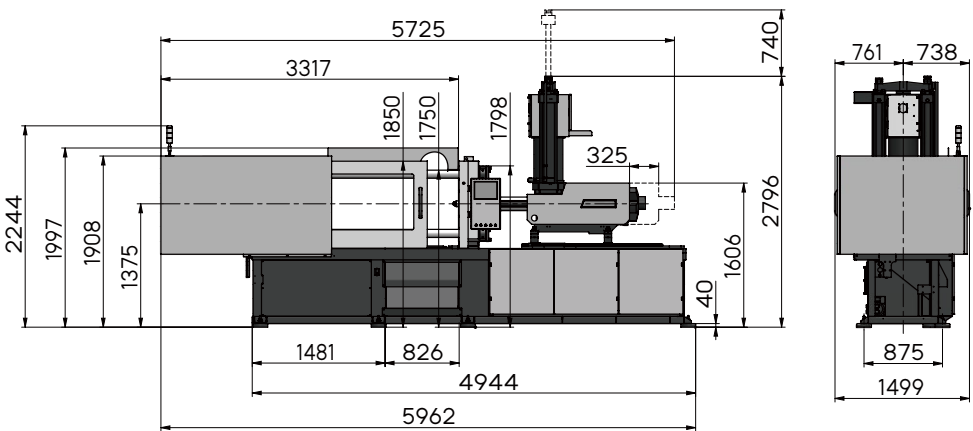
S200BMC



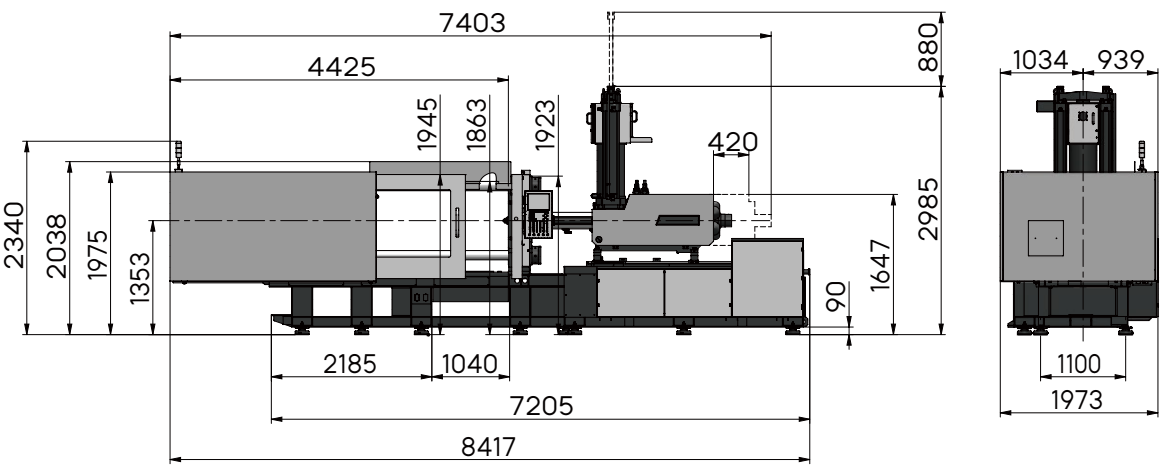
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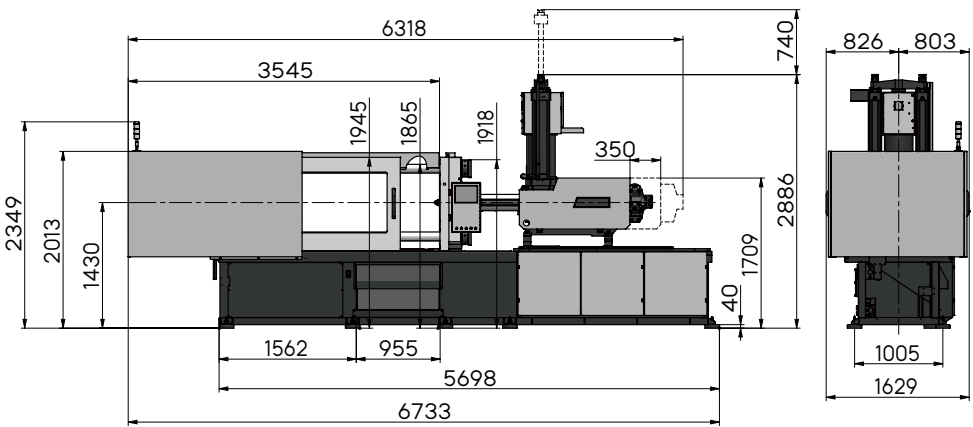
S260BMC



S450BMC



S320BMC



* The data above were acquired by testing in the factory, only for your reference.
The specific data please accord to the actual equipment.

SBMC Series Standard and Optional Features

	Standard	Optional
Injection/Plasticizing Unit		
BMC forced feeding device with dual hydraulic cylinders	●	
Balanced double injection cylinder	●	
Low-speed high-torque enhanced hydraulic motor	●	
Screw and barrel component for BMC	●	
Dual linear guides injection unit	●	
Double carriage cylinder	●	
Feeding device cylinder with standard feature of proximity switch detection	●	
Y-type filter installed at the main water inlet of the feed hopper and storage cylinder	●	
Energy-saving groove design of barrel (patented design)	●	
Cold start protection	●	
Automatic purging	●	
Optional suck-back before or after plasticizing	●	
Screw RPM detection	●	
6-stage injection speed / pressure / position control	●	
5-stage holding pressure speed / pressure / time control	●	
4-stage plasticizing speed / pressure / time control	●	
C-grade bi-metallic screw & barrel component for BMC		○
External thermal insulation for feeding storage cylinder		○
Multilevel enhanced plasticizing motor		○
Basic hopper loading ladder		○
Hopper loading platform		○
Transducer for feeding cylinder position measurement		○
Screw and barrel component with chiller		○
Clamping Unit		
Precise transducer control of clamping / ejector stroke stroke	●	
QT500-7A high-rigidity platens/toggle	●	
EUROMAP-based robot mounting holes	●	
Hydraulic mold height adjustment device	●	
Multiple ejector function settings	●	
Hydraulic / electrical safety devices	●	
Increased ejector force (200-530T)	●	
Automatic centralized lubrication system	●	
2-stage ejector forward/backward control	●	
Low pressure mold protection	●	
Platen with T slots and mounting holes	●	
Mold temperature control interface for fixed and movable platens: 1+1 set for 200-320T, 2+2 sets for 380-530T	●	
Mechanical safety device		○
Additional mold thermal insulation plate		○
Increased mold thickness		○
Mold temperature control interface with quick-connect plugs/sockets		○

	Standard	Optional
Hydraulic System		
Fourth-generation servo system	●	
Precision real-time by-pass oil filter	●	
Low-noise hydraulic system	●	
High-performance hydraulic valve	●	
External cooler	●	
Automatic calibration of system pressure and flow	●	
Plasticizing back pressure adjustment device	●	
Safety chain for exposed HP hydraulic hose	●	
Multi-channel cooling water devices with fast connectors	●	
Low-friction seal	●	
Specially designed servo-driven (constant-pressure pump) hydraulic circuit with main and auxiliary pumps	●	
Hydraulic oil temperature monitoring with high- and low-temperature alarms		○
Hydraulic core pulling / unscrewing device		○
Enhanced 1-stage power		○
Independent oil temperature control		○
Automatic oil temperature detection and alarm		○
Mold opening and closing proportional valve		○
Additional 1 set of servo power unit for independent control on in-mold cutting (ejection) and feeding cylinder		○
Additional 1 set of independent servo power unit for secondary mold clamping		○
Control System		
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	●	
Automatic clamping force adjustment	●	
Process parameter locking	●	
Storage space for 1000 sets of process parameters	●	
12" TFT true color display	●	
Multiple operating languages	●	
Two-color alarm light	●	
Two sets of 3-phase power socket (16A+32A)	●	
220V power socket (1 set)	●	
Reserved interfaces for air blowers, cores, and ejector backward protection	●	
Reserved injection signal	●	
Emergency stop switch protection for front /rear machine doors and feeding storage cylinder.	●	
Hot runner interface	●	

● Standard ○ Optional

	Standard	Optional
Control System		
Air-assisted injection device		○
Central (networked) monitoring system		○
Protective light grid of safety gates		○
Display of overall energy consumption		○
Three-color alarm light		○
Air blow device		○
Interface for electric unscrewing interface		○
Power voltage change		○
Mold needle valve control		○
Special Features		
Operation manual	●	
Leveling pad	●	
A tool kit and a precision filter	●	
Mold retaining plate	●	
Mold temperature controller		○
Glass tube flowmeter		○
Dryer		○
Dehumidifier		○

● Standard ○ Optional