

THINK TECH FORWARD

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YIZUMI

SUPVC

200T-1000T

SPECIAL INJECTION MOLDING MACHINE
FOR PIPE FITTING



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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.

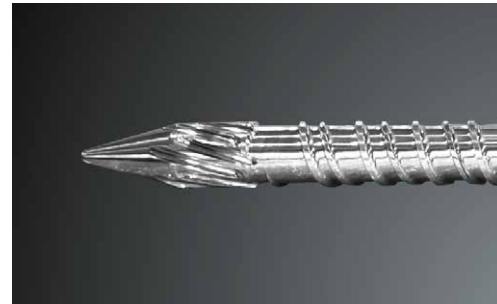


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Technical Features

UPVC special plasticizing screw and barrel

UPVC special screw and barrel consists of dual-alloy hard chrome plated screw and dual-alloy hard chrome plated nozzle flange, with better wear resistance and corrosion resistance. It can better achieve high-quality plasticizing effect and mixing effect, to produce products with smooth surface.



Enlarged plasticizing motor

Plasticizing motor with upgraded configuration and increased torque can adapt to UPVC material, which is of high viscosity and poor liquidity, ensuring stable plasticizing.



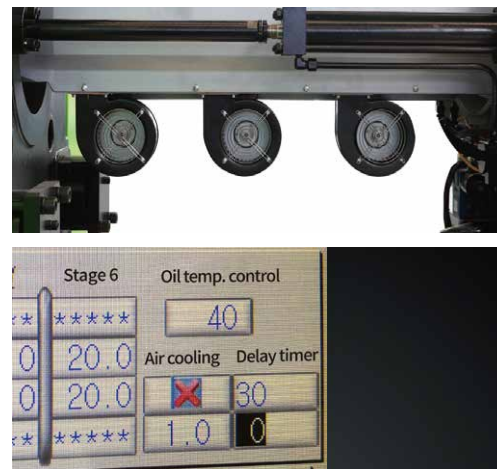
Integrated injection carriage support + horizontal double-carriage design

- ▶ Injection linear guide structure: Reduce motion friction, increase injection accuracy, and enhance plasticizing efficiency.
- ▶ Linear carriage guide with dual-cylinder: Reduced motion friction resistance for easy operation and maintenance.
- ▶ Clean self-lubricating injection and carriage units: The self-lubricating system offers an estimated service life of 2 to 3 years under varying operating conditions, minimizing oil contamination in the workshop and surrounding environment.



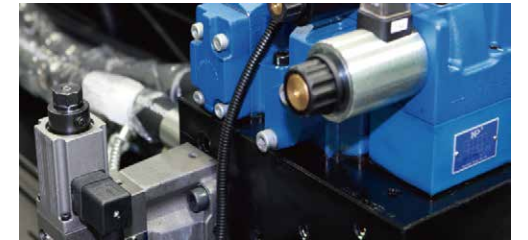
Forced cooling fan

- ① Employ a circular air flow design and segmented control to achieve closed-loop temperature control. Also short-circuit prevention design is also added to achieve dynamic temperature control within a deviation range of $\pm 1^{\circ}\text{C}$.
- ② Separate control of fan power supply driven by dedicated program (The fan stops the program with a 30 minutes time delay after turning off the heater or pressing the emergency stop button) to ensure that the melt will not be decomposed or carbonized due to barrel overheating caused by machine pause or shutdown and result in problems such as black spots in products or tough carbon deposit on screw surface.
- ③ Special process: The blower starts to work after the machine stops operating for 10 minutes to ensure the melt will not be decomposed or carbonized due to overheating in the barrel for a long cycle time, and to avoid black spots on the products and tough-to-clean carbon deposition on the screw.



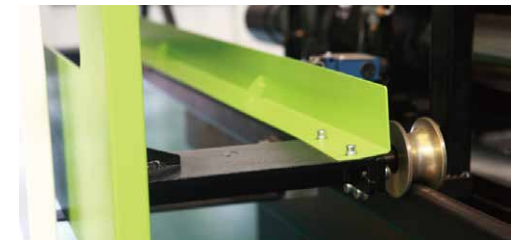
Proportional back pressure control

Use independent proportional back pressure control approach to facilitate precise control by controller and adapt to the thermal sensitivity of UPVC material to shearing heat.



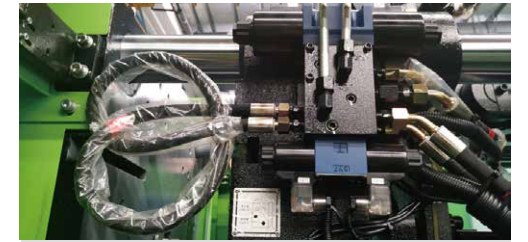
Extended safety doors

Front and rear safety doors are extended to allow the size of customer's mold side core-pull cylinder for their pipe fitting molds.



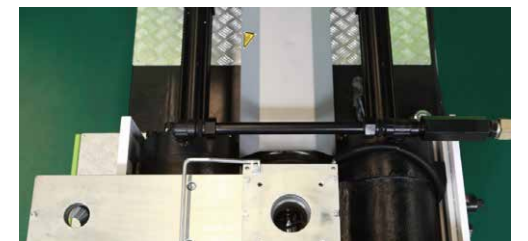
Two sets of core pulling devices as standard

Two sets of core pulling devices as standard to meet the multi-core-pulling requirements of pipe fitting molds.



Hopper

Equipped with movable hopper slider for switching of raw materials.



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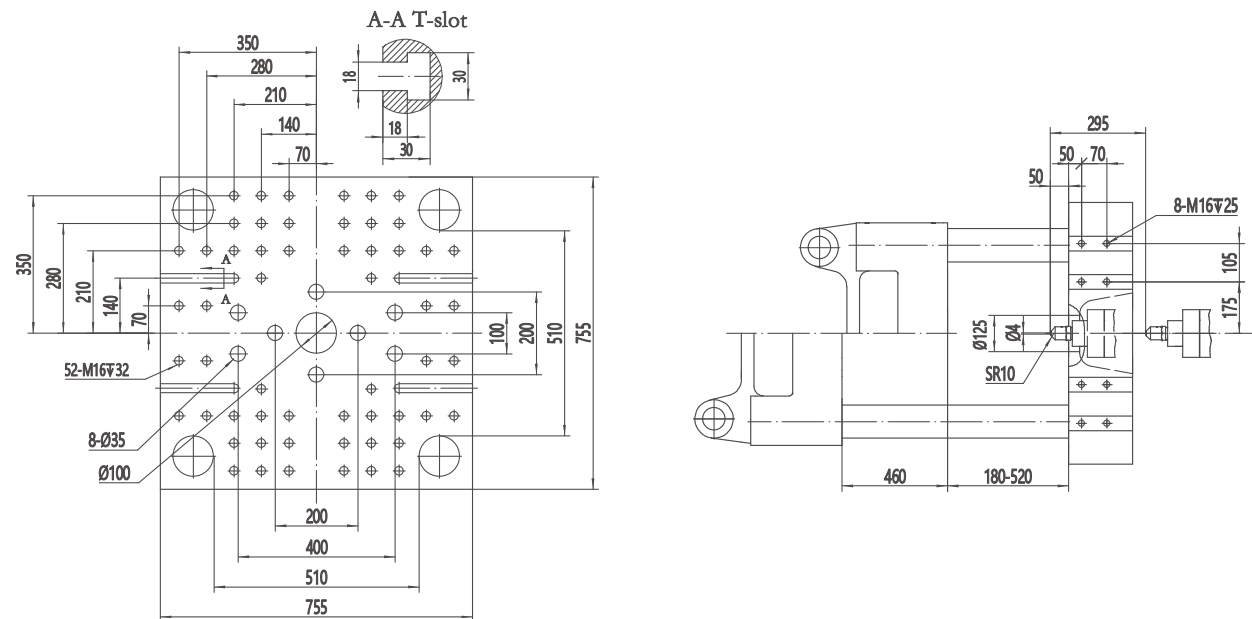
Specifications

Description	UNIT	S200UPVC	S260UPVC	S320UPVC		S350UPVC		S450UPVC		S530UPVC		S650UPVC		S800UPVC		S1000UPVC	
Injection model		IU895	IU1265	IU1885		IU2525		IU3200		IU4200		IU4500		IU6780		IU9015	
International size		896/2000	1266/2600	1885/3200		2526/3500		3216/4500		4209/5300		4460/6300		6792/7500		9022/10000	
Injection Unit																	
Theoretical shot volume	cm³	518	749	1071	1338	1435	1792	1860	2460	2438	2925	2438	2925	3770	4397	5038	5812
Shot weight (UPVC)	g	617	892	1275	1593	1707	2132	2213	2927	2902	3481	2902	3481	4486	5233	5996	6917
	oz	21.8	31.5	45	56	60	75	78	103	103	123	103	123	159	185	212	244
Screw diameter	mm	53	60	68	76	68	76	80	92	84	92	84	92	100	108	108	116
Injection pressure	MPa	173	169	176	141	176	141	173	131	173	144	183	152	180	154	179	155
Injection rate	g/s	206	271	378	473	378	473	482	637	603	724	569	683	850	991	855	986
Screw L:D ratio	-	21:1	21:1	21:1		21:1		21:1		21:1		21:1		21:1		21:1	
Max. injection speed	mm/s	78.4	80.6	87.5	87.5	87.5	87.5	80.5	80.5	91.5	91.5	86.3	86.3	90.9	90.9	78.4	78.4
Screw stroke	mm	235	265	295	295	395	395	370	370	440	440	440	440	480	480	550	550
Screw speed	r/min	0-127	0-136	0-149	0-94	0-149	0-94	0-87	0-66	0-101	0-82	0-101	0-82	0-111	0-83	0-83	0-72
Clamping Unit																	
Clamping force	kN	2000	2600	3200		3500		4500		5300		6500		8000		10000	
Opening stroke	mm	460	530	580		640		740		825		900		980		1120	
Space between tie bars (W×H)	mm×mm	510×510	570×570	670×670		710×670		780×780		830×800		900×900		980×960		1090×1090	
Max. daylight	mm	980	1100	1240		1400		1520		1675		1800		1960		2220	
Mold thickness (min.-max.)	mm	180-520	205-570	220-660		220-760		310-780		350-850		400-900		400-980		500-1100	
Ejector stroke	mm	150	160	170		170		220		220		280		280		320	
Ejector number	-	5	13	13		13		13		17		21		21		21	
Ejector force	kN	49	77	77		77		110		166		182		182		215	
Power Unit																	
Max. system pressure	MPa	17.5	17.5	17.5		17.5		17.5		17.5		17.5		17.5		17.5	
Max. motor power	kW	25.2	28.7	35.2		35.2		47.5		58.6		58.6		76.4		76.4	
Heating power	kW	13.06	16.43	25.11	28.18	25.11	28.18	31.33	39.22	34.89	40.69	35.17	40.97	47.32	53.99	58.87	63.6
Number of temperature control zones	-	6	6	6		6		7		7		7		7		8	
General																	
Dry cycle time	s	2.7	2.8	3.4		3.4		3.9		5.2		5		5.4		6.2	
Oil tank capacity	L	230	230	326		326		510		570		570		720		860	
Distance from the inside of safety door	mm	1550	1820	1950		1990		2500		2575		2700		2745		3270	
Machine dimensions	m×m×m	5.61×1.74×2.16	6.22×2.02×2.25	6.74×2.15×2.35		7.17×2.19×2.35		8.32×2.71×2.34		8.87×2.78×2.30		9.1×2.94×2.45		10.15×3.08×2.62		11.33×3.51×2.61	
Machine weight	kg	5300	7400	9200		10000		16000		19000		28000		35000		40000	

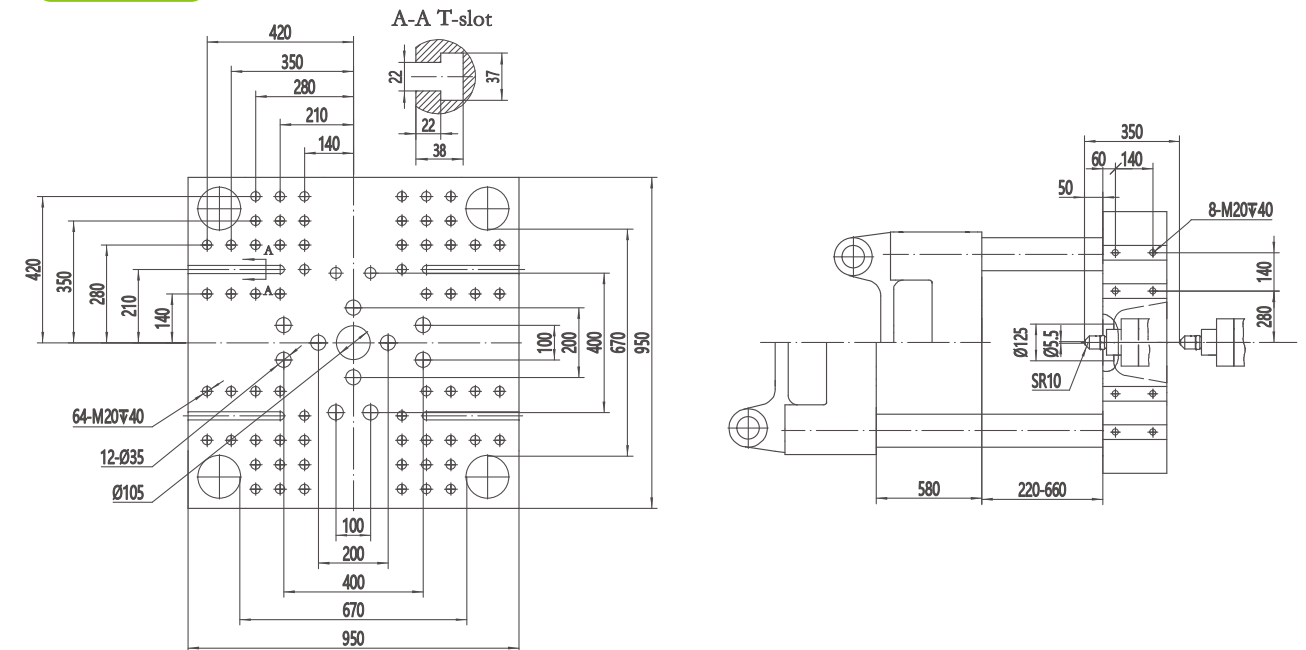
1. Theoretical shot volume = barrel sectional area × injection stroke;
2. Shot weight = theoretical shot volume × 1.19 (UPVC);
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA 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.

Platen Dimensions

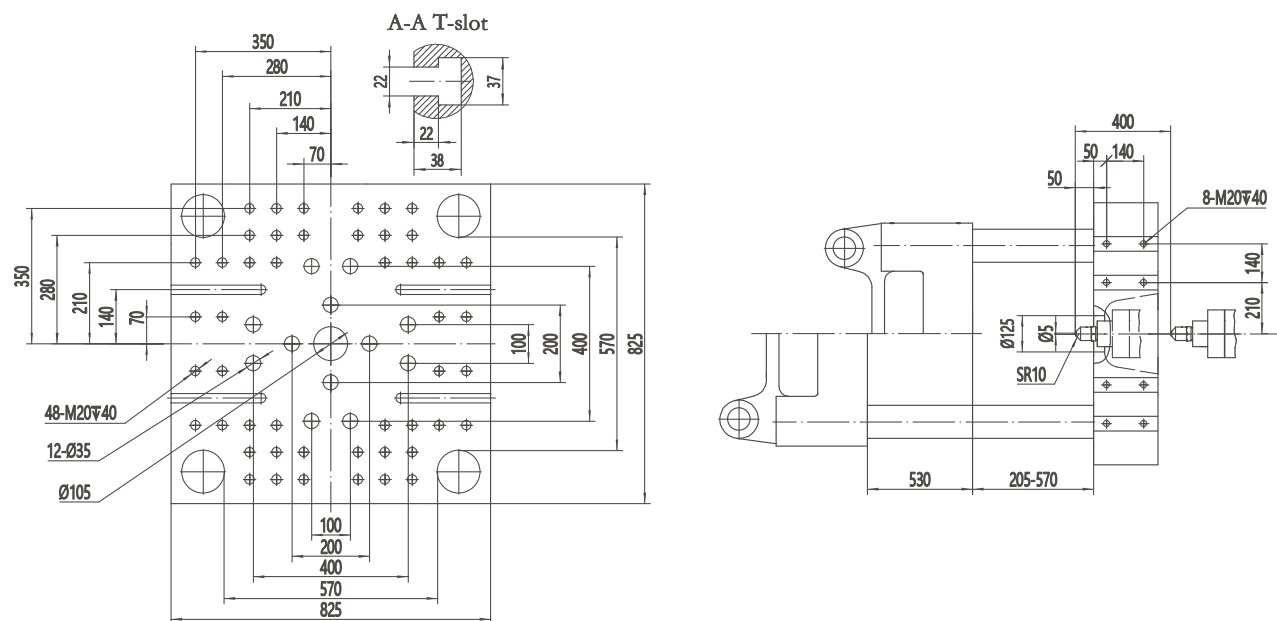
S200UPVC



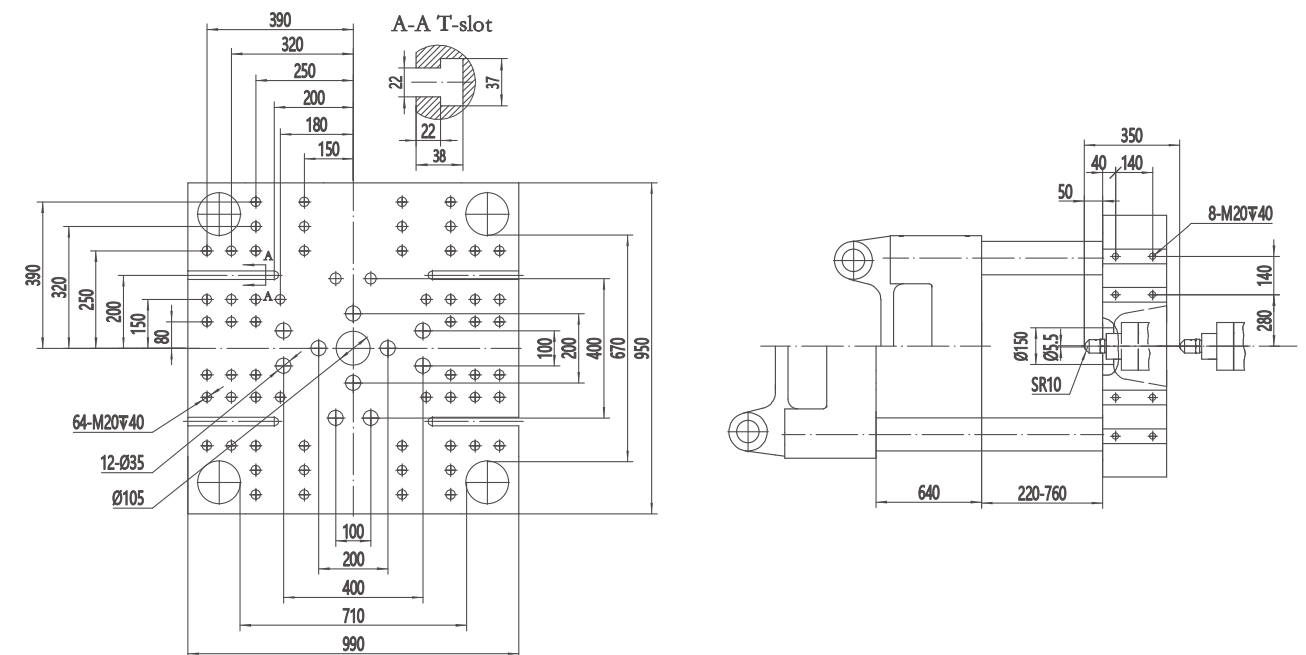
S320UPVC



S260UPVC



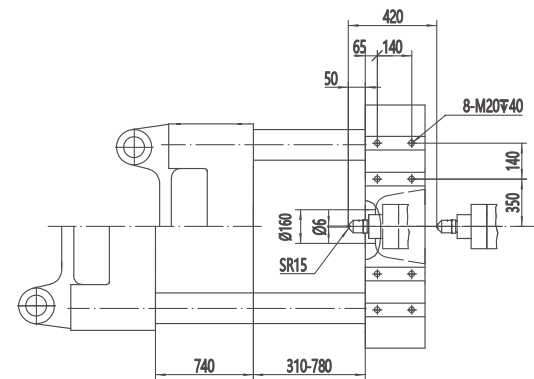
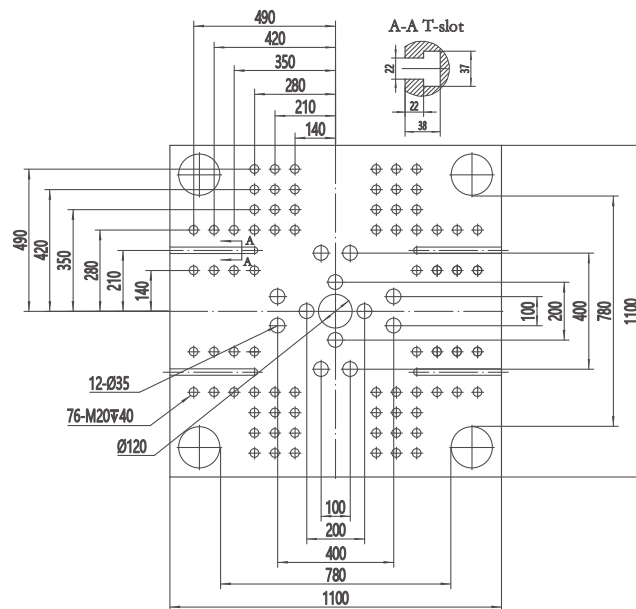
S350UPVC



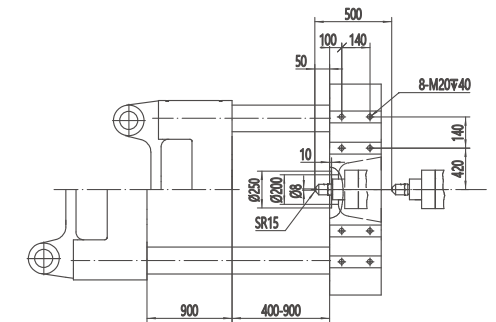
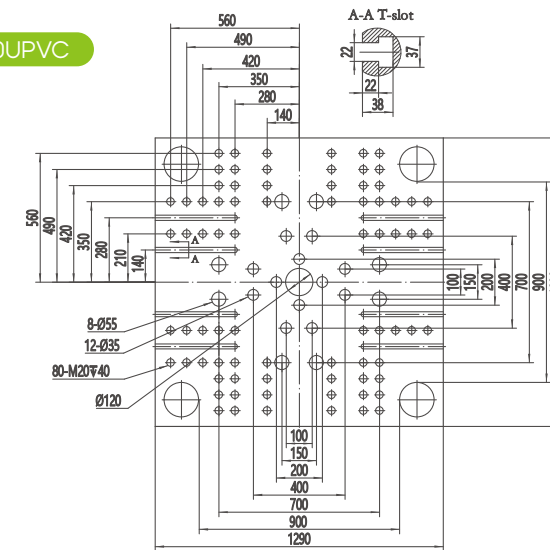
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Platen Dimensions

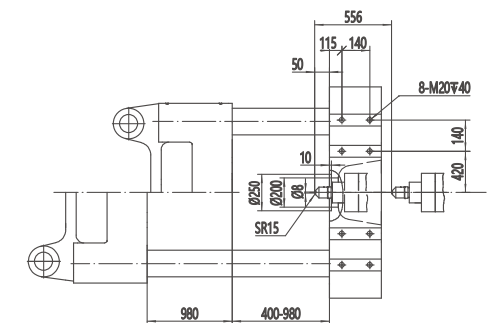
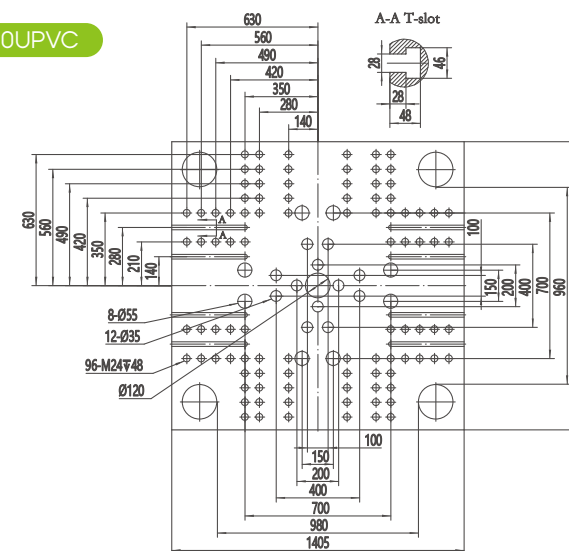
S450UPVC



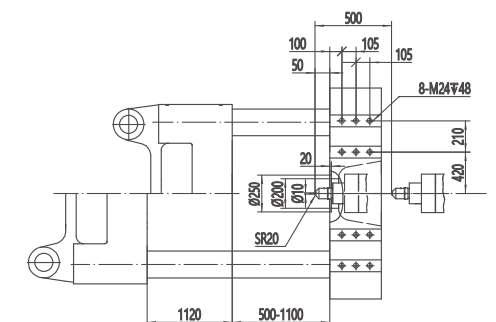
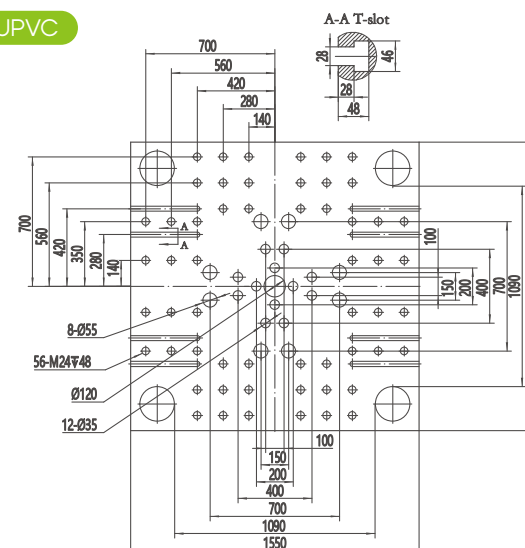
S650UPVC



S800UPVC



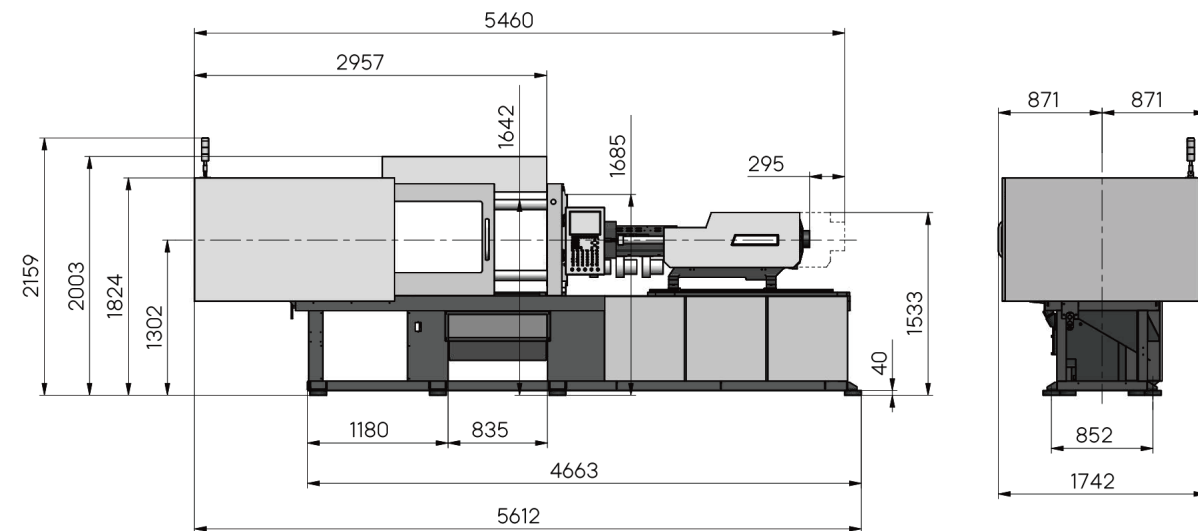
S1000UPVC



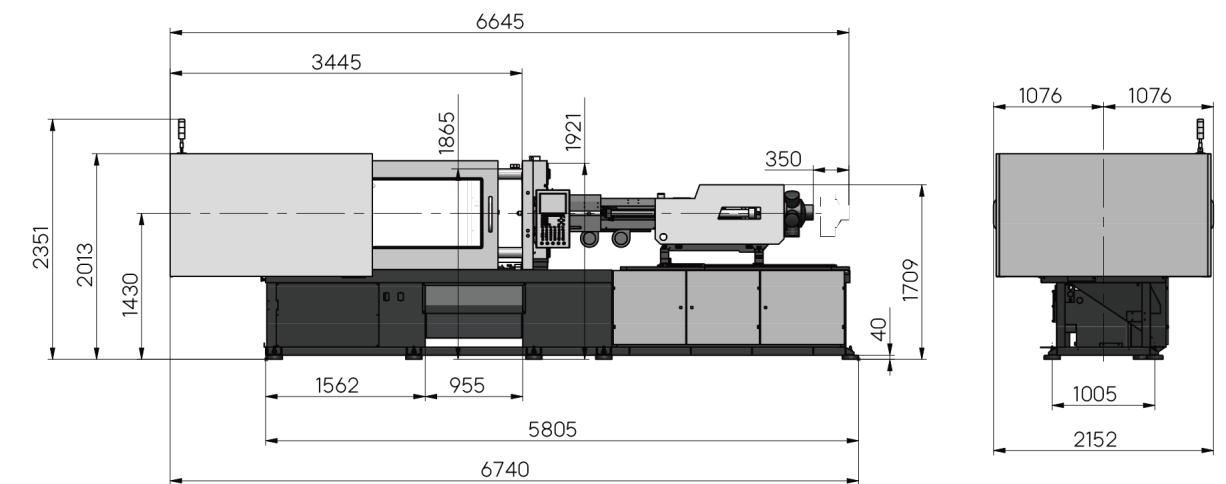
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Machine Dimensions

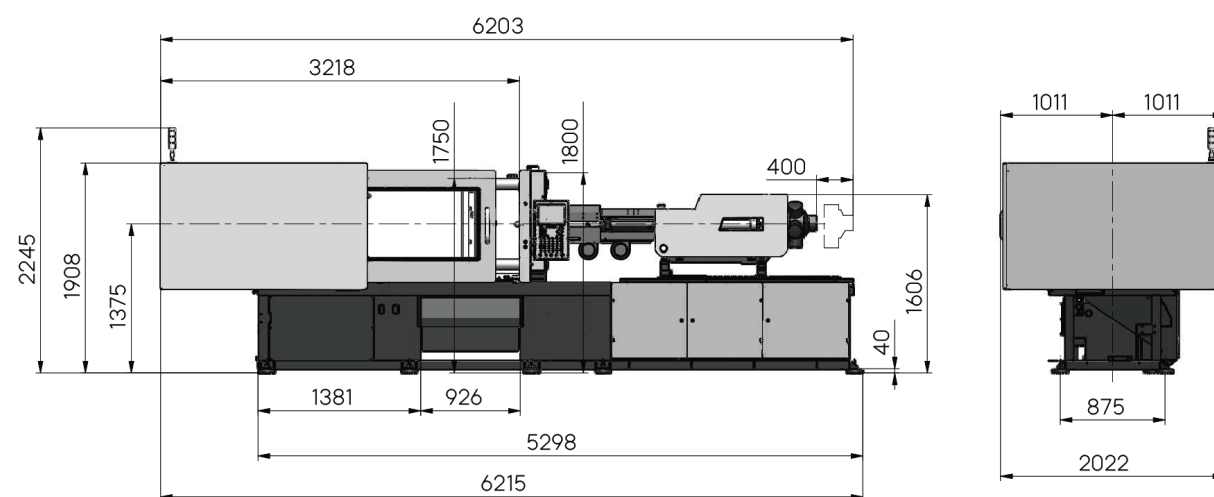
S200UPVC



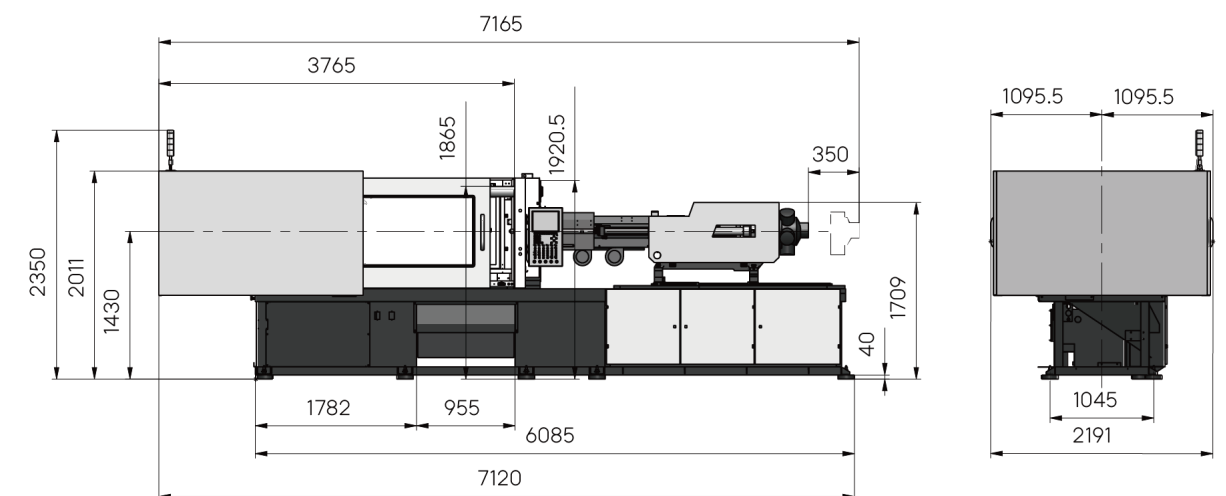
S320UPVC



S260UPVC



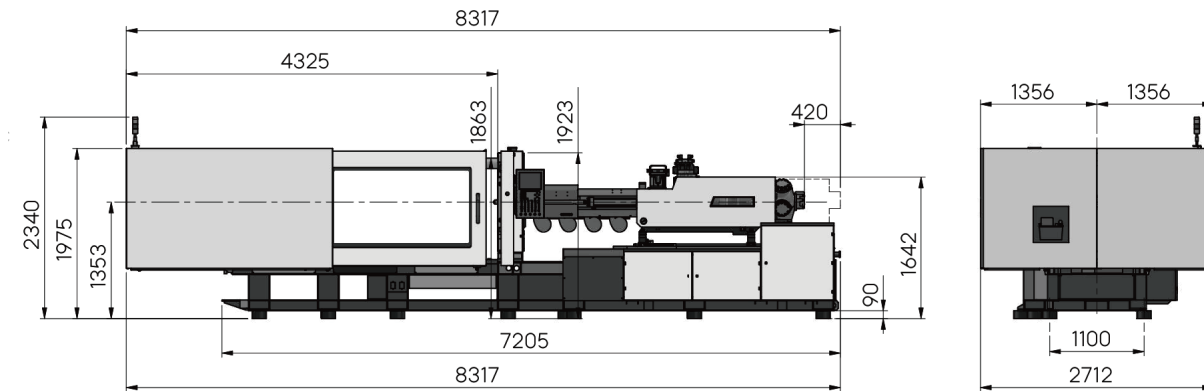
S350UPVC



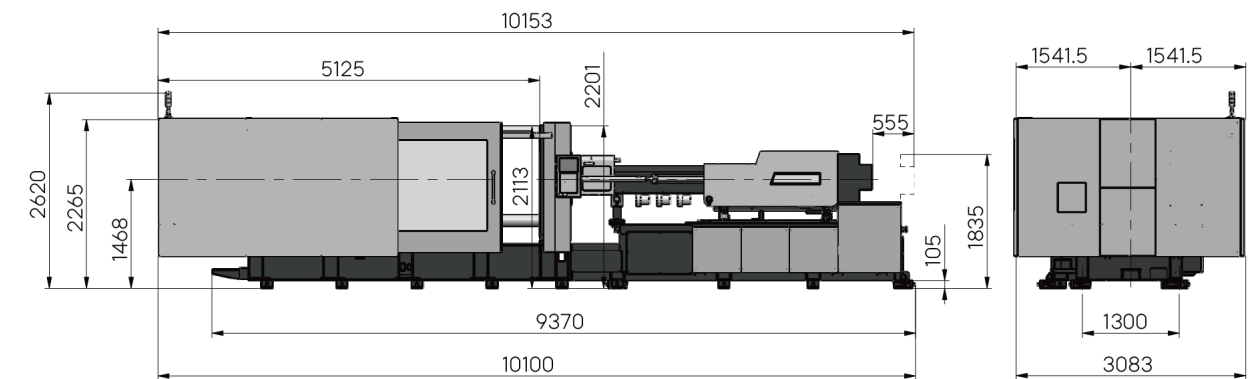
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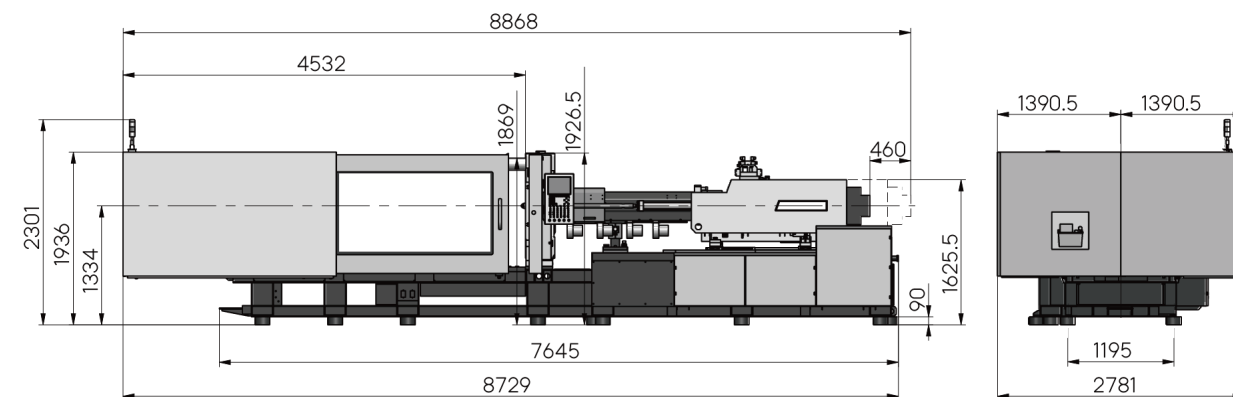
S450UPVC



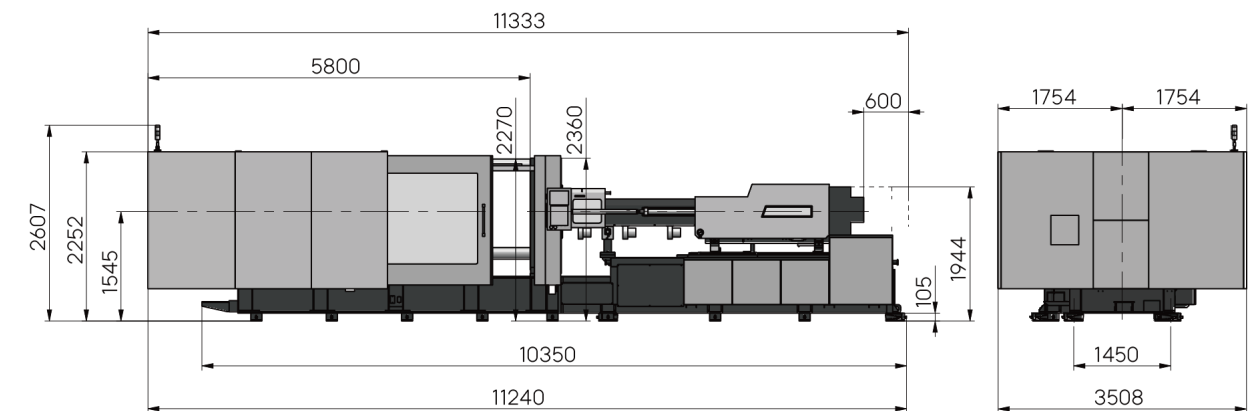
S800UPVC



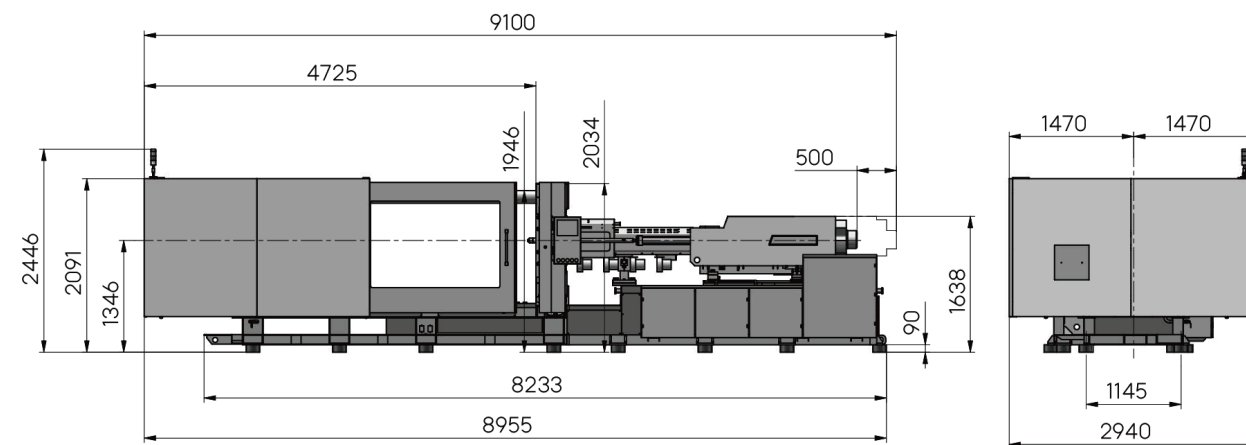
S530UPVC



S1000UPVC



S650UPVC



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Standard & Optional Features

Features	Standard	Optional
UPVC special screw and barrel (equipped with chrome plated, single-threaded and low shearing one-piece screw)	●	
Enlarged plasticizing motor	●	
Movable hopper slider	●	
Two sets of core pulling devices	●	
Proportional back pressure control	●	
Servo pump system (domestic brand)	●	
Low-speed flow linear optimization	●	
Independent PID control for the nozzle (protrudes 50 mm from platen surface)	●	
Nozzle guard with electrical interlock	●	
Forced cooling fan controlled through separate power supply and program	●	
Cooling fan with delayed shutoff feature	●	
Pre-injection function	●	
USB port on control panel	●	
Extended safety doors (Total increase width - 200T: 400mm; 260T-350T: 500mm; 450T-800T: 750mm; 1000T: 1000mm)	●	
Additional safety latch (suitcase latch) under rear safety door	●	
Compulsory ejector-back function	●	
Other standard features are consistent with SKIII series standard machine	●	

Features	Standard	Optional
Core pulling with quick couplings		○
Core in/out signal confirmation		○
Controller network communication via OPC protocol		○
Plasticizing back pressure display with enhanced quality monitoring data function		○
High-speed clamping		○
Closed-loop temperature detection of feeding port		○
Three-color indicator light		○

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