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Stock Code: 300415

Designed by Yizumi, March 2021

YIZUMI 伊之密

A5-EU

A5-EU Series High-end Servo Injection Molding Machine

广东伊之密精密注压科技有限公司
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Disclaimer:
1.We reserve the right to change specifications without prior notice.
2.The pictures are only for reference, please refer to the real object.
3.Data above come from Yizumi lab, available for reference.

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70+

With more than 40 overseas agents, business is extended to over 70 countries and regions

600000 m²

Global production bases cover an area of 600,000 sqm

≫

3000+

5 divisions, with over 3,000 employees

5

Yizumi branches have been set up in Germany, United State, India, Vietnam and Brazil.

YIZUMI is committed to be a technologically leading supplier of the best cost-effective solution.

Founded in Guangdong, China in 2002, Guangdong Yizumi Precision Machinery Co., Ltd. is a ChiNext-listed company focusing on the fields of polymer molding and metal forming. The company involves in design, R&D, manufacture, sale and service of injection molding machines, die casting machines, rubber injection machines, high-speed packaging systems and automated robotic systems.

Yizumi mainly produces injection molding machine, die casting machine, high speed packaging machine, mold and robot. Also, Yizumi owns many technical services centres and over 40 global distributors, business covers over 70 countries and regions. It has established production bases at home and abroad covering an area of nearly 400,000 square metres, and has over 2,700 employees globally.

In China, Yizumi successively set up three major manufacturing bases in Gaoli, Wusha and Suzhou to comprehensively upgrade its productive capacity. In 2017, Yizumi built manufacturing bases in India and the United States. In addition, Yizumi has established technology service centers, R&D centers and a sales network, implementing the globalized operations strategy.

A5-EU Series High-end Servo Injection Molding Machine

Clamping force: 300-7000 kN

After successfully bringing servo machines to the market for years, mastering advanced European and American technology from HPM Company and completely understanding customer needs through over-two-year market research, Yizumi develops a brand-new high-end servo injection molding machine, A5-EU series, based on IPD mode. A5-EU series creates five core values for customers including:

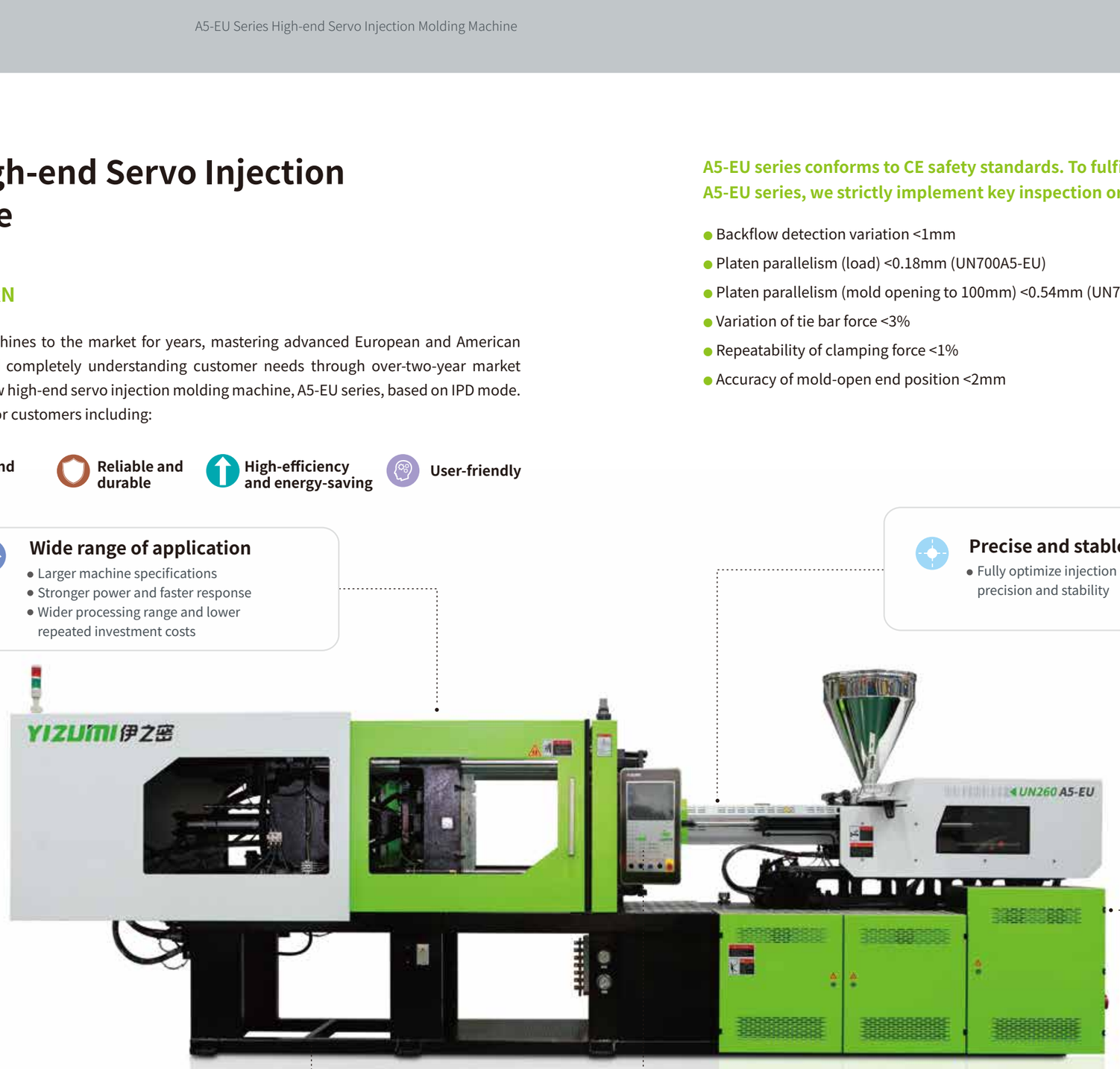
Wide range of application **Precise and stable** **Reliable and durable** **High-efficiency and energy-saving** **User-friendly**

Wide range of application

- Larger machine specifications
- Stronger power and faster response
- Wider processing range and lower repeated investment costs

Reliable and durable

- Higher overall rigidity of machine
- Uniform-stress molding technology
- More stable and reliable operation of machine



Precise and stable

- Fully optimize injection unit to ensure precision and stability

High-efficiency and energy-saving

- The third-generation servo system
- Low noise, strong power and quick response in operation

User-friendly

- User-friendly HMI
- Integrate a great deal of common functional software
- Carry out feasible and maintenance-friendly solutions to give customers more flexibility and ease during use.

A5-EU series conforms to CE safety standards. To fulfill the core value of “reliability & stability” in A5-EU series, we strictly implement key inspection or performance criteria below:

- Backflow detection variation <1mm
- Platen parallelism (load) <0.18mm (UN700A5-EU)
- Platen parallelism (mold opening to 100mm) <0.54mm (UN700A5-EU)
- Variation of tie bar force <3%
- Repeatability of clamping force <1%
- Accuracy of mold-open end position <2mm

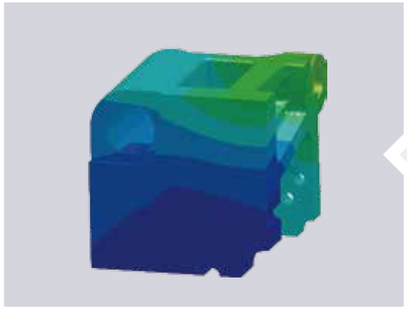
Clamping unit

Stable and high-rigidity mechanical structure

The T-slot platens are designed with a European style structure and completely optimized with higher durability, less deformation and better parallelism, so that the repeatability of clamping force is higher. Rigid materials and sophisticated processes are applied to the manufacturing of machine frame to ensure the machine is robust, stable and reliable.

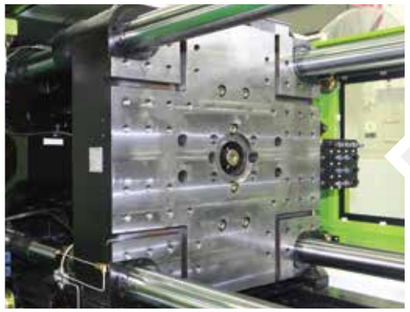
Highly rigid clamping unit

The platens have little deformation and better parallelism. There is less stress variation on tie bars and the repeatability of clamping force is higher. The machine is geared to high-speed and high-pressure special injection molding processes, effectively improving the precision of molded parts.



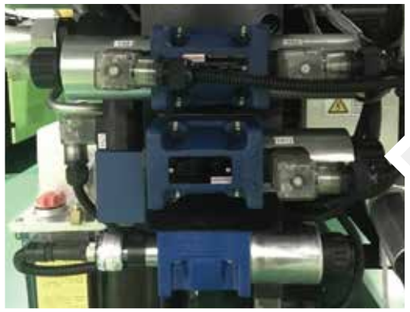
Uniform-stress clamping technology

Benefits include evenly distributed clamping force, little platen deformation, no injection molding defects even with the use of lower clamping force and protection of platens and molds.



EUROMAP 2-based ejector hole pattern and mold location hole

Layout of the ejector holes in the movable platen is adjusted according to EUROMAP 2. Mold location holes in the movable platen and fixed platen are designed according to EUROMAP 2.



Stable mold-open position repeatability

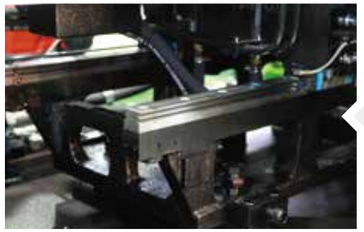
Optimized hydraulic circuit design improves the mold-open position repeatability. For 30-280T machines, the mold open/close repeatability is within 1mm; for 350-700T machines, the mold open/close repeatability is within 2mm.

Injection Unit

Mechanical structure with high stability and less friction

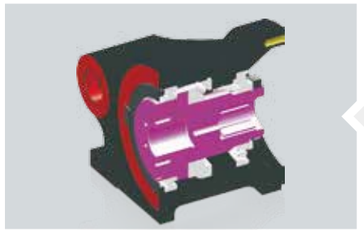
Optimized injection structure design improves rigidity of injection unit.

Reduce all frictional resistance during injection molding process enhance the stability & precision of injection.



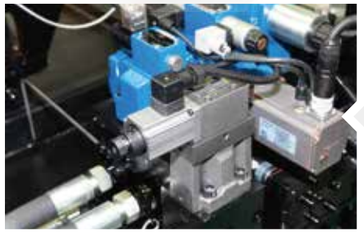
Integrated linear guide rail support

The machine adopts integrated linear guide rail, horizontal double carriage design and double-cylinder injection to ensure injection is reliable and stable. Integrated linear guide rail support reduces the friction between injection unit and linear guide rail or tie bar and enhances production repeatability.



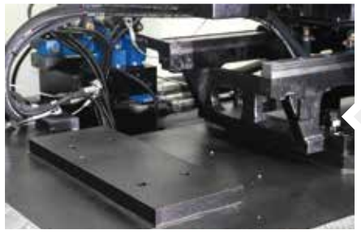
Three bearings

A deep-groove ball bearing is added to the front of transmission shaft, close to the screw, to improve the support of transmission shaft, reduce vibration when it rotates and prolong the service life of thrust bearing.



Proportional back pressure for plasticizing

Proportional back pressure facilitates accurate control by industrial computer and enhances the stability of injection.

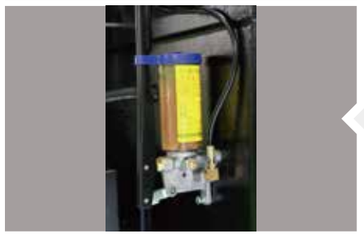


Injection frame compatible with three types of injection unit

Pre-drilled mounting holes in the machine frame are fit for one size larger or smaller injection unit.

Injection transducer as a standard feature

The transducer can realize accurate control of the position of injection unit base and enhance the injection stability.



Manual lubrication pump

The newly added manual lubrication pump is maintenance-friendly and provides reliable and convenient lubrication for the injection unit.

Hydraulic System

Yizumi third generation of energy saving servo technology——
durable, highly efficient, energy-saving & low noise

Yizumi’ s third-generation energy-saving servo technology

So far, Yizumi has comprehensively grasped the application technology of energy-saving servo system since it was further studied in 2005. The third-generation servo system has been improved and optimized in the internal structure of motor, the standard of magnetic steel, the selection of oil pump and the development of drive software to achieve superior performance in stability, reliability, durability, energy conservation, efficiency and low noise; the servo system uses 30%-80% less energy than conventional hydraulic machines.

The third-generation servo system

Professional brand-name motor

Imported high-pressure gear pump

INOVANCE servo drive

Proven by years of practical application and higher configured, the third-generation servo system is stable, reliable and durable and characterized by high efficiency, energy saving, low noise, strong power and fast response.

Low noise

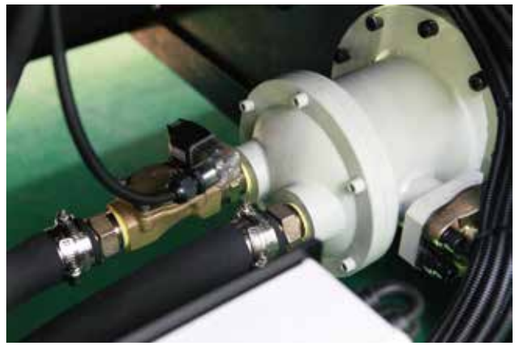
Under the same working conditions, the third-generation servo system emits 20% lower noise than the previous generation when producing the same product.

Fast response

High efficiency gear pump realizes fast response injection molding which can be used in high-precision molding.

High performance

Special high-torque servo motor and high pressure gear pump greatly improve the low speed molding and continuous pressure-holding performance with excellent repeatability.



Independent oil temperature control

Independent oil temperature monitoring is available with the function of high oil temperature alarm. The oil cooler is equipped with cooling water valve to prevent overheated oil.

Automatic oil level alarm

Automatic low oil level alarm prevents gas from being sucked in due to low oil level, avoiding consequent instability of the hydraulic circuit.

All directional valves are Rexroth branded

More reliability, higher accuracy and superior performance are offered to hydraulic control.

Machines are equipped with glass tube flowmeters

UN220A5-EU to UN480A5-EU are equipped with a set of 8-circuit flowmeter, while UN-580A5-EU to UN700A5-EU have two sets of 6-circuit flowmeter.

Control System

- A5-EU series is equipped with Austria' s KEBA control system with user-friendly interface and higher processing speed. It is also powerful and capable of providing multiple control software solutions for special processes.
- 10' ' TFT true color display with touch screen, film-covered buttons and five open round interfaces
- Multiple sets of mold data storage with USB ports that facilitate easy and simple operation
- Program storage with independent CF card which is maintenance-friendly
- Extensible I/O modules can integrate with more functions, including temperature control and sequence valve as needed.
- Communication ports for printer, auxiliary equipment and automation

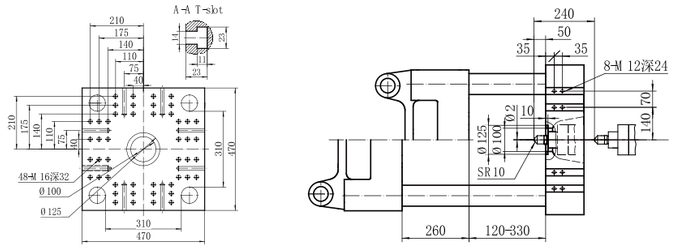
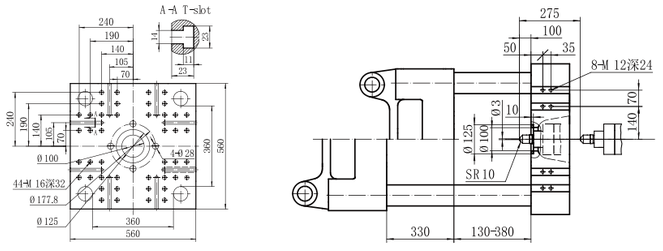
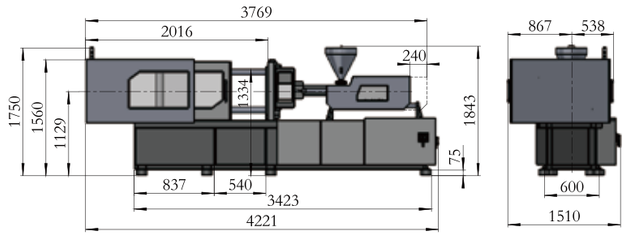
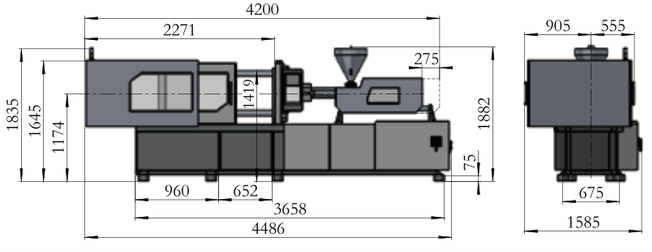
Intuitive controller operation interface

► EUROMAP 67 based program and plug for robot

► Coloring mixing signal with EUROMAP-based plug

► Powered protection system

Specifications

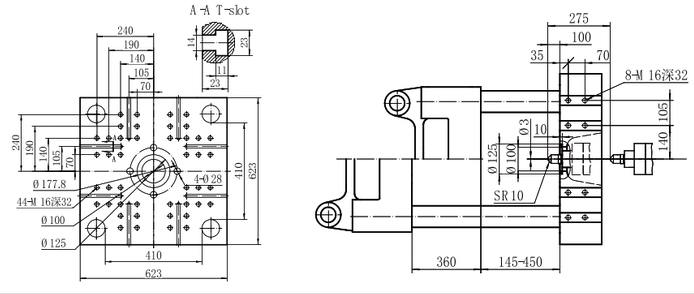
DESCRIPTION	UNIT	UN30A5-EU					UN60A5-EU				
International specification		190/300		295/300			190/600		295/600		
INJECTION UNIT											
		A	B	A	B	C	A	B	A	B	C
Shot volume	cm^3	51	72	117	159	207	51	72	117	159	207
Shot weight (PS)	g	47	66	107	146	191	47	66	107	146	191
	oz	1.7	2.3	3.8	5.1	6.7	1.7	2.3	3.8	5.1	6.7
Screw diameter	mm	22	26	30	35	40	22	26	30	35	40
Injection pressure	MPa	374	268	253	186	142	374	268	253	186	142
Injection rate	g/s	43.6	60.9	64.5	87.8	114.7	47.0	65.7	69.6	94.7	123.7
Screw L:D ratio		20:1	20:1	24:1	20:1	20:1	20:1	20:1	24:1	20:1	20:1
Max. injection speed	mm/s	125		99			134		107		
Screw stroke	mm	135		165			135		165		
Screw speed (stepless)	r/min	0-217		0-185			0-230		0-198		
CLAMPING UNIT							**CLAMPING UNIT**				
Clamping force	kN	300					600				
Space between tie bars	mmxmm	310x310					360x360				
Mold thickness(Min.Max.)	mm	120-330					130-380				
Opening stroke	mm	260					330				
Max. Daylight	mm	590					710				
Ejector force	kN	22					28				
Ejector storke	mm	60					100				
Ejector number		1					5				
POWER UNIT							**POWER UNIT**				
Hydraulic system pressure	MPa	17.5					17.5				
Pump motor power	kW	15					15				
Heater power	kW	4.8/5.5		6.9/6.9/7.8			4.8/5.5		6.9/6.9/7.8		
Number of temp control zones		4		4			4		4		
GENERAL							**GENERAL**				
Dry cycle time	s	1.6		1.6			1.8		1.8		
Oil tank capacity	L	130		130			150		150		
Machine dimensions (LxWxH)	mxmxm	4.24x1.51x1.90		4.34x1.51x1.98			4.49x1.59x1.90		4.49x1.59x1.98		
Design weight	kg	2900		2960			3340		3400		
Platen dimensions											
Machine dimensions											

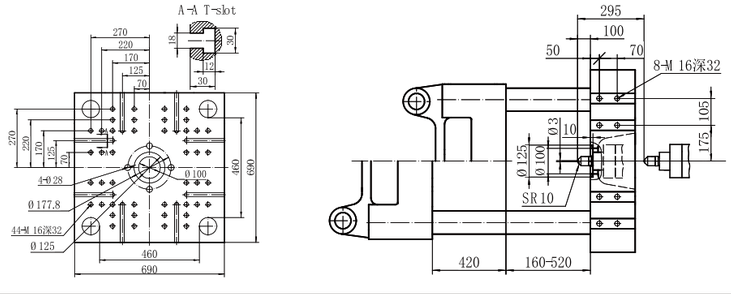
Note:
1. Shot volume = barrel sectional area × injection stroke; Shot weight = shot volume× 0.92 (GPPS)
2. Different injection units are available for selection. The price of machine may vary due to different configurations.
3. Due to improvement, specifications may change without prior notice.
4. Please 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

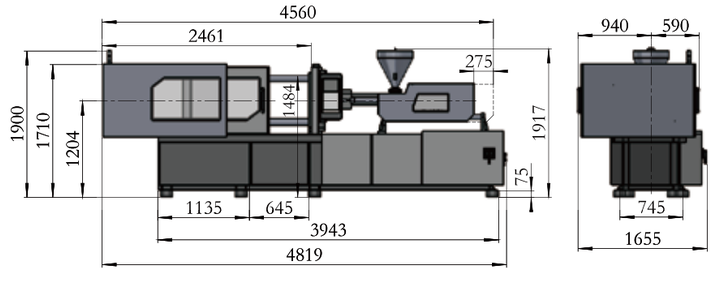
DESCRIPTION	UNIT	UN90A5-EU								UN120A5-EU								
International specification		190/900		295/900			420/900			295/1200			420/1200			604/1200		
INJECTION UNIT										**INJECTION UNIT**								
		A	B	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Shot volume	cm^3	51	72	117	159	207	163	247	307	117	159	207	163	247	307	298	371	452
Shot weight (PS)	g	47	66	107	146	191	150	227	283	107	146	191	150	227	283	274	341	416
	oz	1.7	2.3	3.8	5.1	6.7	5.3	8.0	10.0	3.8	5.1	6.7	5.3	8.0	10.0	9.7	12	14.7
Screw diameter	mm	22	26	30	35	40	35	43	48	30	35	40	35	43	48	43	48	53
Injection pressure	MPa	374	268	253	186	142	257	170	137	253	186	142	257	170	137	203	163	134
Injection rate	g/s	57.3	80.1	84.9	115.5	150.9	83.4	125.9	156.9	106.1	144.4	188.6	104.3	157.4	196.2	132.1	164.6	200.7
Screw L:D ratio		20:1	20:1	24:1	20:1	20:1	24:1	20:1	20:1	24:1	20:1	20:1	24:1	20:1	20:1	22.3:1	20:1	20:1
Max. injection speed	mm/s	164		131			94			163			118			99		
Screw stroke	mm	135		165			170			165			170			205		
Screw speed (stepless)	r/min	0-230		0-230			0-208			0-235			0-235			0-235		
CLAMPING UNIT										**CLAMPING UNIT**								
Clamping force	kN	900								1200								
Space between tie bars	mmxmm	410x410								460x460								
Mold thickness(Min.Max.)	mm	145-450								160-520								
Opening stroke	mm	360								420								
Max. Daylight	mm	810								940								
Ejector force	kN	42								42								
Ejector storke	mm	120								140								
Ejector number		5								5								
POWER UNIT										**POWER UNIT**								
Hydraulic system pressure	MPa	17.5								17.5								
Pump motor power	kW	20								25								
Heater power	kW	4.8/5.5		6.9/6.9/7.8			9/9/10.1			6.9/6.9//7.8			9/9//10.1			10.9/10.9/12.1		
Number of temp control zones		4		4			4			4			4			4		
GENERAL										**GENERAL**								
Dry cycle time	s	2.0								2.4								
Oil tank capacity	L	155								220								
Machine dimensions (LxWxH)	mxmxm	4.82x1.66x2.05								5.35x1.74x2.13								
Design weight	kg	3900		3940			4000			4840			4900			5000		

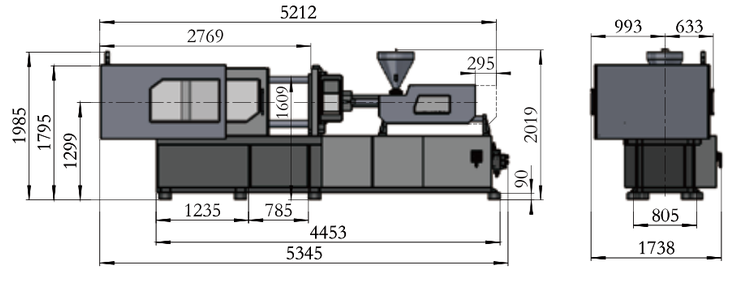
Platen dimensions





Machine dimensions

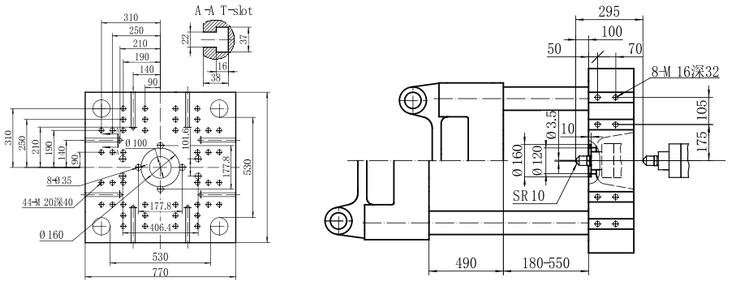


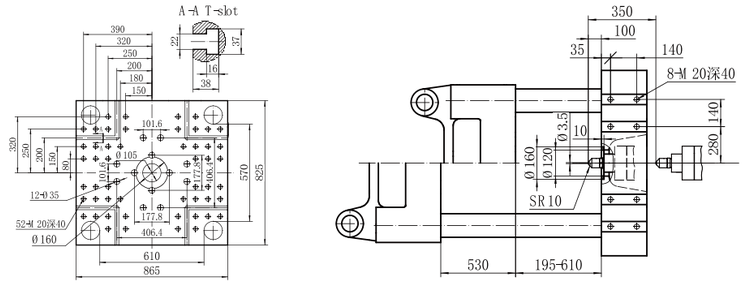


Specifications

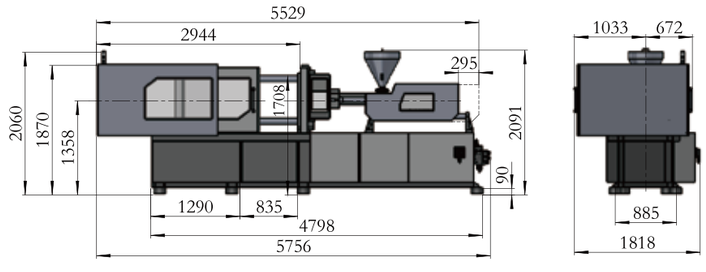
DESCRIPTION	UNIT	UN160A5-EU									UN220A5-EU								
International specification		420/1600			604/1600			895/1600			604/2200			895/2200			1269/2200		
INJECTION UNIT											**INJECTION UNIT**								
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Shot volume	cm^3	163	247	307	298	371	452	425	518	664	298	371	452	425	518	664	584	749	962
Shot weight (PS)	g	150	227	283	274	341	416	391	477	611	274	341	416	391	477	611	538	689	885
	oz	5.3	8.0	10.0	9.7	12.0	14.7	13.8	16.8	21.6	9.7	12.0	14.7	13.8	16.8	21.6	19	24.3	31.2
Screw diameter	mm	35	43	48	43	48	53	48	53	60	43	48	53	48	53	60	53	60	68
Injection pressure	MPa	257	170	137	203	163	134	211	173	135	203	163	134	211	173	135	217	169	132
Injection rate	g/s	121.6	183.5	228.6	154.0	191.9	233.9	148.3	180.8	231.7	170.6	212.6	259.2	164.3	200.3	256.8	159.5	204.5	262.6
Screw L:D ratio		24:1	20:1	20:1	22.3:1	20:1	20:1	22:1	20:1	20:1	22.3:1	20:1	20:1	22:1	20:1	20:1	22.6:1	20:1	20:1
Max. injection speed	mm/s	137			115			89			128			99			79		
Screw stroke	mm	170			205			235			205			235			265		
Screw speed (stepless)	r/min	0-230			0-230			0-194			0-230			0-200			0-161		
CLAMPING UNIT											**CLAMPING UNIT**								
Clamping force	kN	1600									2200								
Space between tie bars	mmxmm	530x530									610X570								
Mold thickness(Min.Max.)	mm	180-550									195-610								
Opening stroke	mm	490									530								
Max. Daylight	mm	1040									1140								
Ejector force	kN	49									77								
Ejector storke	mm	150									160								
Ejector number		5									13								
POWER UNIT											**POWER UNIT**								
Hydraulic system pressure	MPa	17.5									17.5								
Pump motor power	kW	25									30								
Heater power	kW	9/9/10.1			10.9/10.9/12.1			14.4/14.4/16.8			10.9/10.9/12.1			14.4/14.4/16.8			16.6/16.6/19		
Number of temp control zones		4			4			5			4			5			5		
GENERAL											**GENERAL**								
Dry cycle time	s	2.7									2.8								
Oil tank capacity	L	255									335								
Machine dimensions (LxWxH)	mxmxm	5.76x1.82x2.21									6.42x2.01x2.39								
Design weight	kg	6300			6400			6500			8250			8350			8500		

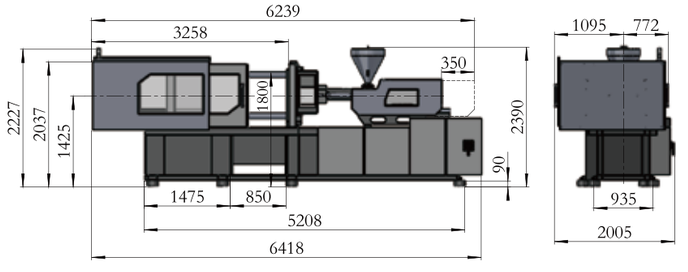
Platen dimensions





Machine dimensions

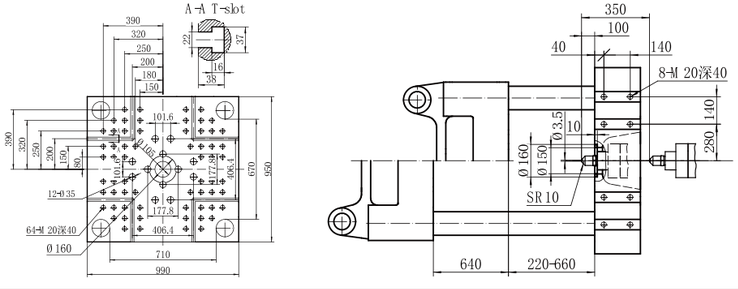


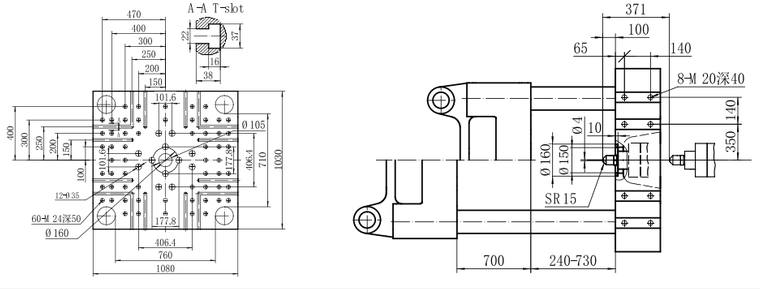


Specifications

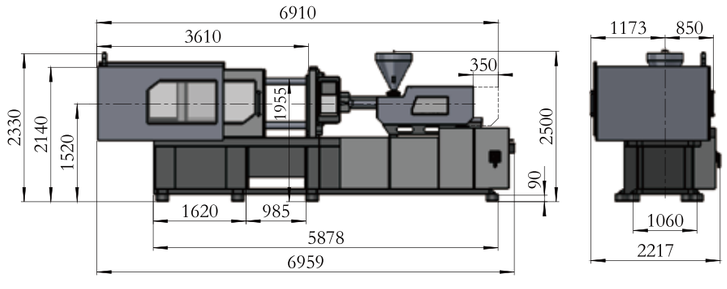
DESCRIPTION	UNIT	UN280A5-EU									UN350A5-EU								
International specification		895/2800			1269/2800			1885/2800			1269/3500			1885/3500			2693/3500		
INJECTION UNIT											**INJECTION UNIT**								
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Shot volume	cm^3	425	518	664	584	749	962	834	1071	1338	584	749	962	834	1071	1338	1198	1496	1828
Shot weight (PS)	g	391	477	611	538	689	885	767	985	1231	538	689	885	767	985	1231	1102	1377	1682
	oz	13.8	16.8	21.6	19.0	24.3	31.2	27.1	34.7	43.4	19.0	24.3	31.2	27.1	34.7	43.4	38.9	48.6	59.3
Screw diameter	mm	48	53	60	53	60	68	60	68	76	53	60	68	60	68	76	68	76	84
Injection pressure	MPa	211	173	135	217	169	132	226	176	141	217	169	132	226	176	141	225	180	147
Injection rate	g/s	254.5	310.3	397.6	247.0	316.6	406.7	237.0	304.5	380.3	308.8	395.8	508.3	296.3	380.6	475.4	298.2	372.5	455.1
Screw L:D ratio		22:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.3:1	20:1	20:1
Max. injection speed	mm/s	153			122			91			152			114			89		
Screw stroke	mm	235			265			295			265			295			330		
Screw speed (stepless)	r/min	0-230			0-230			0-200			0-230			0-230			0-156		
CLAMPING UNIT											**CLAMPING UNIT**								
Clamping force	kN	2800									3500								
Space between tie bars	mmxmm	710X670									760x710								
Mold thickness(Min.Max.)	mm	220-660									240-730								
Opening stroke	mm	640									700								
Max. Daylight	mm	1300									1430								
Ejector force	kN	77									110								
Ejector storke	mm	170									210								
Ejector number		13									13								
POWER UNIT											**POWER UNIT**								
Hydraulic system pressure	MPa	17.5									17.5								
Pump motor power	kW	51									60								
Heater power	kW	14.4/14.4/16.8			16.6/16.6/19			22.2/22.2/24.6			16.6/16.6/19			22.2/22.2/24.6			26.4/26.4/30.9		
Number of temp control zones		5			5			5			5			5			6		
GENERAL											**GENERAL**								
Dry cycle time	s	3.2									4								
Oil tank capacity	L	445									570								
Machine dimensions (LxWxH)	mxmxm	6.96x2.22x2.50									7.77x2.3x2.45								
Design weight	kg	13000			13200			13500			15400			15700			16000		

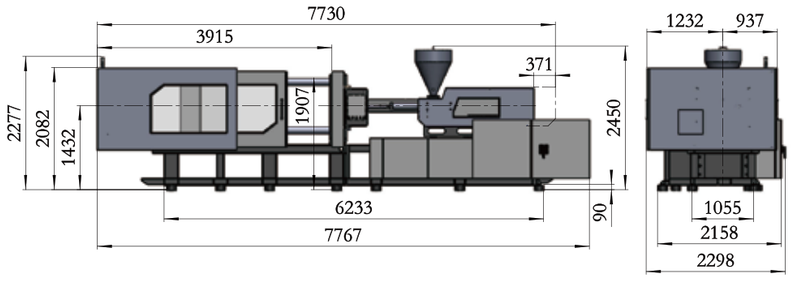
Platen dimensions





Machine dimensions

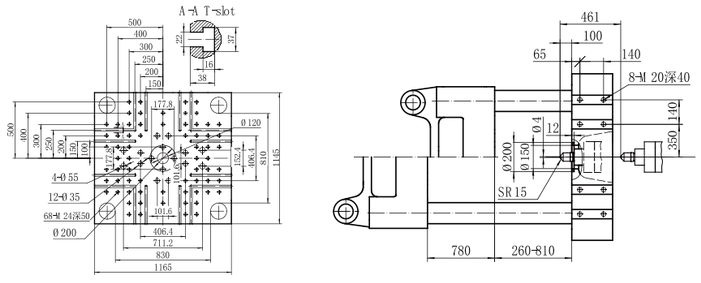


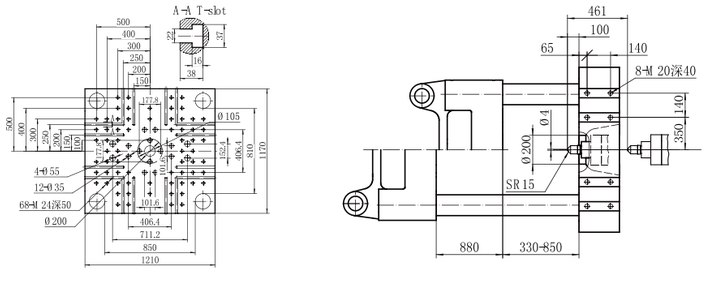


Specifications

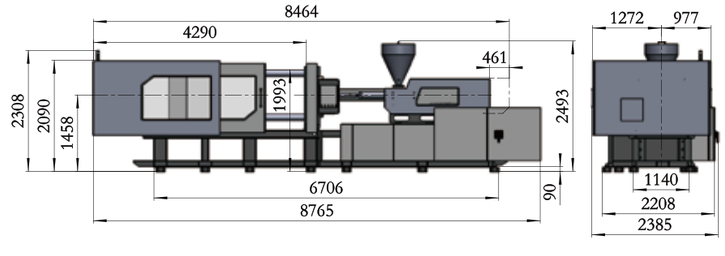
DESCRIPTION	UNIT	UN420A5-EU									UN480A5-EU										
International specification		1885/4200			2693/4200			3330/4200			2693/4800			3330/4800				4820/4800			
INJECTION UNIT											**INJECTION UNIT**										
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D
Shot volume	cm^3	834	1071	1338	1198	1496	1828	1678	2049	2458	1198	1496	1828	1678	2049	2458	2905	2216	2658	3140	3662
Shot weight (PS)	g	767	985	1231	1102	1377	1682	1543	1885	2262	1102	1377	1682	1543	1885	2262	2672	2038	2445	2889	3369
	oz	27.1	34.7	43.4	38.9	48.6	59.3	54.4	66.5	79.8	38.9	48.6	59.3	54.4	66.5	79.8	94.3	71.9	86.2	101.9	118.9
Screw diameter	mm	60	68	76	68	76	84	76	84	92	68	76	84	76	84	92	100	84	92	100	108
Injection pressure	MPa	226	176	141	225	180	147	199	163	136	225	180	147	199	163	136	115	218	181	154	132
Injection rate	g/s	331.9	426.2	532.4	334.0	417.3	509.7	378.1	461.9	554.1	334.0	417.3	509.7	378.1	461.9	554.1	654.6	443.6	532.1	628.7	733.3
Screw L:D ratio		22.6:1	20:1	20:1	22.3:1	20:1	20:1	22.1:1	20:1	20:1	22.3:1	20:1	20:1	22.1:1	20:1	22:1	20:1	21.9:1	22:1	21.6:1	20:1
Max. injection speed	mm/s	128			100			91			100			91				87			
Screw stroke	mm	295			330			370			330			370				400			
Screw speed (stepless)	r/min	0-230			0-160			0-140			0-160			0-140				0-143			
CLAMPING UNIT											**CLAMPING UNIT**										
Clamping force	kN	4200									4800										
Space between tie bars	mmxmm	830x810									850x810										
Mold thickness(Min.Max.)	mm	260-810									330-850										
Opening stroke	mm	780									850										
Max. Daylight	mm	1590									1700										
Ejector force	kN	110									166										
Ejector storke	mm	220									220										
Ejector number		17									17										
POWER UNIT											**POWER UNIT**										
Hydraulic system pressure	MPa	17.5									17.5										
Pump motor power	kW	70									70							51+34			
Heater power	kW	22.2/22.2/24.6			26.4/26.4/30.9			33.1/33.1/36.2			26.4/26.4/30.9			33.1/33.1/43/43				38/38/47/47			
Number of temp control zones		5			6			6			6			6				6			
GENERAL											**GENERAL**										
Dry cycle time	s	4.5									5.5										
Oil tank capacity	L	760									760										
Machine dimensions (LxWxH)	mxmxm	8.77x2.39x2.49									9.07x2.4x2.49							9.37x2.4x2.49			
Design weight	kg	19900			20200			20500			21200			21500				23000			

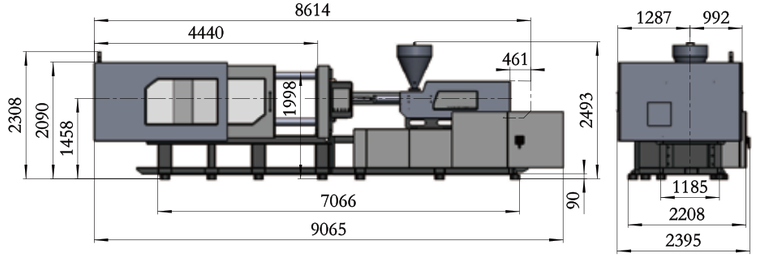
Platen dimensions



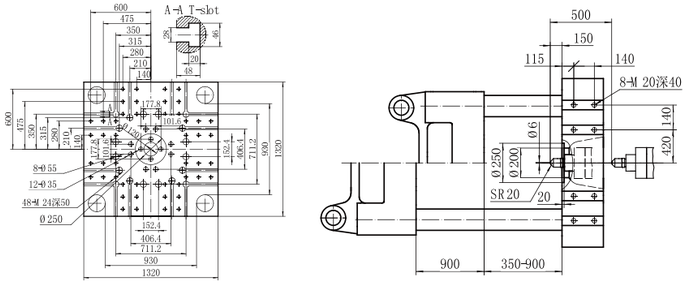
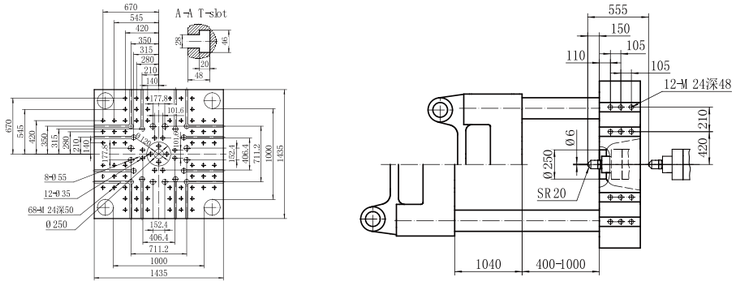
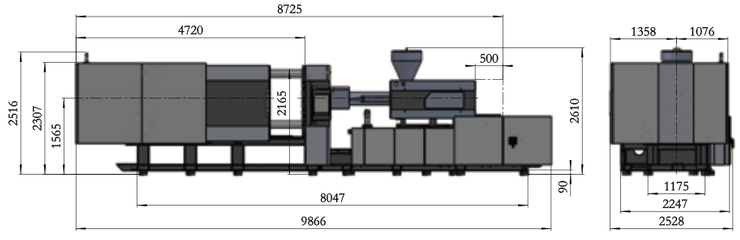
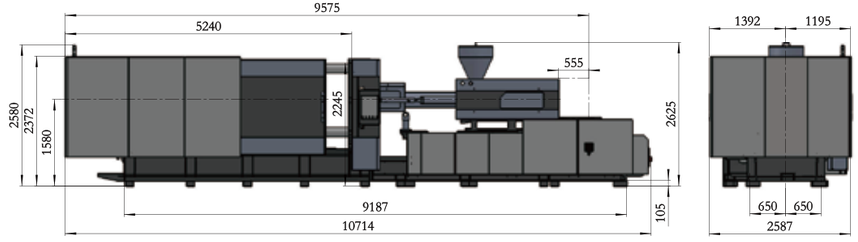


Machine dimensions





Specifications

DESCRIPTION	UNIT	UN580A5-EU												UN700A5-EU											
International specification		3330/5800				4820/5800				6780/5800				4820/7000				6780/7000				9015/7000			
INJECTION UNIT														**INJECTION UNIT**											
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Shot volume	cm^3	1678	2049	2458	2905	2216	2658	3140	3662	3189	3768	4395	5070	2216	2658	3140	3662	3189	3768	4395	5070	4318	5036	5810	6746
Shot weight (PS)	g	1543	1885	2262	2672	2038	2445	2889	3369	2934	3467	4043	4665	2038	2445	2889	3369	2934	3467	4043	4665	3972	4633	5345	6206
	oz	54.4	66.5	79.8	94.3	71.9	86.2	101.9	118.9	103.5	122.3	142.6	164.5	71.9	86.2	101.9	118.9	103.5	122.3	142.6	164.5	140.1	163.4	188.5	218.9
Screw diameter	mm	76	84	92	100	84	92	100	108	92	100	108	116	84	92	100	108	92	100	108	116	100	108	116	125
Injection pressure	MPa	199	163	136	115	218	181	154	132	213	180	154	134	218	181	154	132	213	180	154	134	209	179	155	134
Injection rate	g/s	486.1	593.9	712.4	841.7	443.6	532.1	628.7	733.3	567.0	669.9	781.3	901.4	554.5	665.2	785.9	916.7	567.0	669.9	781.3	901.4	642.0	748.9	863.9	1003.2
Screw L:D ratio		22.1:1	20:1	22:1	20:1	21.9:1	22:1	21.6:1	20:1	21.7:1	22:1	21.5:1	20:1	21.9:1	22:1	21.6:1	20:1	21.7:1	22:1	21.5:1	20:1	21.6:1	22:1	21.6:1	20:1
Max. injection speed	mm/s	117				87				93				109				93				89			
Screw stroke	mm	370				400				480				400				480				550			
Screw speed (stepless)	r/min	0-170				0-143				0-143				0-170				0-143				0-116			
CLAMPING UNIT														**CLAMPING UNIT**											
Clamping force	kN	5800												7000											
Space between tie bars	mm	930x930												1000x1000											
Mold thickness(Min.Max.)	mmxmm	350-900												400-1000											
Opening stroke	mm	900												1040											
Max. Daylight	mm	1800												2040											
Ejector force	mm	182												182											
Ejector storke		280												280											
Ejector number	kN	21												21											
POWER UNIT														**POWER UNIT**											
Hydraulic system pressure	MPa	17.5												17.5											
Pump motor power	kW	51+34								60+51				60+51								60+60			
Heater power	kW	33.1/33.1/43/43				38/38/47/47				42/42/51/51				38/38/47/47				42/42/51/51				46.5/46.5/63.6/63.5			
Number of temp control zones		6				6				6				6				6				7			
GENERAL														**GENERAL**											
Dry cycle time	s	6.5												7											
Oil tank capacity	L	1000												1150											
Machine dimensions (LxWxH)	mxmxm	9.87x2.53x2.66												10.72x2.59x2.73								11.22x2.59x2.73			
Design weight	kg	29000				29500				31500				38500				40000				42000			
Platen dimensions																									
Machine dimensions																									

Features of A5-EU Series

	Standard	Optional
Clamping Unit		
Precision transducer for clamping / ejector/ injection/ carriage stroke control	●	
Clamping platens and toggles made from highly-rigid ductile iron	●	
2-stage ejector forward / backward controlled by industrial computer	●	
Compulsory ejector return function	●	
Various ejection function settings	●	
Hydrulic gear-type mold height adjustment device	●	
Mechanical / electrical / hydraulic safety devices	●	
Wear-resistant manganese steel supporting tracks for movable platen	●	
Automatic centralized lubrication system	●	
Platen with T-slots and screw holes	●	
EUROMAP 18 robot mounting hole	●	
One-button automatic mold height adjustment	●	
Automatic clamping force adjustment as needed (KEBA controller)	●	
Safety edges for machine gates	●	
EUROMAP-based ejector pin hole pattern	●	
Increased mold thickness (100/200mm)		○
Mold thermal insulation plate		○
Special mold locating hole		○
Automatic tie bar retraction device (220T-700T)		○
Self-lubricated bushes in tie bars		○
Magnetic platen		○
Injection Unit		
Nitrided alloy-steel screw & barrel	●	
Nozzle PID temperature control	●	
Double-carriage injection cylinder	●	
Screw cold start protection	●	
Automatic purging	●	
Selectable suck-back before or after plasticizing	●	
Multi-stage barrel PID temperature control	●	
Automatic injection and plasticizing failure alarm	●	
Precision transducer for injection / plasticizing stroke control	●	

	Standard	Optional
6-stage injection speed / pressure / position control	●	
5-stage holding speed / pressure / time control	●	
4-stage plasticizing speed / pressure / time control	●	
Screw speed detection	●	
Proportional back pressure control	●	
Linear guide rail	●	
Purge guard (with safety switch)	●	
Energy-saving groove design of barrel (patented design)	●	
Fully-closed heat retaining cover	●	
Movable hopper (30T-280T)	●	
Three-bearing drive shaft (for machines over 220T)	●	
Manual lubrication pump	●	
Ceramic heater band (standard on 580T-700T machines, optional for 30T-480T machines)	●	
Screw components for special applications (PET/ PA/ PC/ PMMA/ TPU/ UPVC)		○
Bi-metallic barrel assembly		○
Barrel blowing device		○
Spring shut-off nozzle		○
Hopper loading platform (420T-700T)		○
Magnetic grate base (with magnetic grates)		○
Electrically-driven plasticizing (220T-700T)		○
Hydraulic shut-off nozzle		○
Pneumatic shut-off nozzle		○
Increased injection stroke or one-size larger (smaller) injection unit		○
Barrel heat-retaining energy-saving device (fibre insulation, infrared heating)		○
Hydraulic System		
Standard servo pump system	●	
Precision by-pass oil filter	●	
System pressure and flow calibration	●	
Brand-name hydraulic control valve	●	
Brand-name seal	●	
Hydraulic oil temperature detection and abnormal temperature alarm	●	
Low-noise energy-saving hydraulic circuit	●	

	Standard	Optional
Hydraulic oil cooling device	●	
High-pressure hose restraint cable	●	
Oil level detection and alarm	●	
30T-480T machines: equipped with a set of core puller interface with valve. 580T-700T machines: the moving platen and fixed platen each has a set of core puller with a spare set of interface	●	
Glass-tube water flowmeter	●	
Oil pre-heating function	●	
Independent oil temperature control system		○
High-response servo injection system		○
High-response servo mold opening and closing system		○
Ejection during mold opening		○
Plasticizing during mold opening		○
Enlarged oil cooler		○
Core pulling during mold opening		○
Enlarged oil pump and motor		○
Extra hydraulic core puller		○
Extra hydraulic unscrewing device		○
Electrical System		
Input / output inspection	●	
Automatic heat preservation and automatic heating setting	●	
Time / position / time + position control of switchover to holding	●	
Independent adjustment of slope	●	
Core-pulling/ unscrewing interface	●	
Molding data locking	●	
10.4″ TFT color LCD	●	
100 sets of molding data storage	●	
Operating languages: Chinese, English and the third language (optional)	●	
30T-480T machines: three sets of 3-phase AC 380V socket and a set of multi-function AC 220V socket. 580T-700T machines: three sets of 3-phase AC 380V socket	●	
Three-color alarm light	●	
EUROMAP 67 based robot interface and plug	●	
Multi-level password security and key-locked operation panel	●	

	Standard	Optional
All transducers, weak-current switches and reversing solenoid valves enclosed by water-proof and rat-proof corrugated pipes	●	
Emergency stop buttons for front and rear safety gates	●	
PDP interface	●	
Statistical process control (SPC) interface	●	
Reserved interfaces for air blowing, core pulling, ejector back protection devices, etc.	●	
Additional automatic safety door (350-700T)		○
Electrical unscrewing device and interface		○
Hot runner interface		○
Program and interface of air-assisted injection		○
Single-phase / three-phase power socket		○
Air blow function		○
Special power supply voltage		○
Controller change		○
Clamping force testing and display		○
Central (networked) monitoring system		○
Interface of sequential injection		○
Protective light grid of safety gates (for 700T machine)		○
Other		
Operation manual	●	
Leveling pad	●	
A tool kit and a precision filter element	●	
General hopper	●	
Spare parts (details as per sales contract)	●	
Mold clamp	●	
Mold temperature controller		○
Auto loader		○
Dehumidifier		○
Chiller		○
Hopper dryer		○
PET preform mold		○
Thin-wall packaging mold		○