plarnovatic

SERIES·S

New High-end Toggle System IMM







- Plasnovatic manufactures high-quality injection molding machinery for customers around the world.
- Plasnovatic is deeply committed to the injection molding industry, backed by professional experience. The Series·S is a collection of innovative patented technologies with flexible and rich functional configurations to provide you with professional customized
- Series·S adhering to the design concept of minimalist elegance, every line, every detail, every piece are born for the optimization of performance.
- With compact, lightweight, and practical features, we offer customized injection molding solutions for engine plastic parts.





SERIES·S

New High-end Toggle System IMM

Clamping force: 100t - 4000t

Stable, Precise, Energy-saving, Flexible Large Parameter & High Adaptability











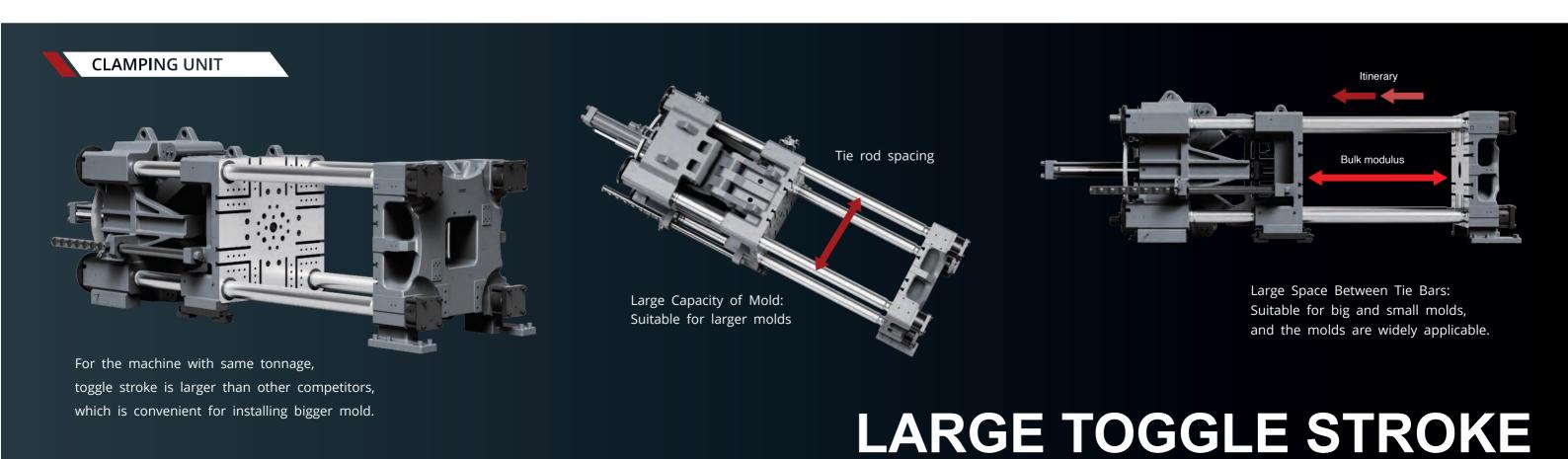


Packaging

Construction

Appliances

s Environmental Protei



HIGH QUALITY

Large parameters for all known injection molding processes, wide application range. According to the Japanese modularization, life management design and meticulous production, high quality, high cost-effective, personalized configuration.

Dual crank arm clamping structure, solid stable, reliable and durable, suitable for 24-hours uninterrupted work.

HIGH EFFICIENT

High efficient servo driver technology ensures high quality and high efficient production even after the cycle time is shortened.

Multiple technologies ensure the independent action of each motion axis, making high efficient and energy-saving production so simple.

High quality components are durable enough and capable of long-term efficient operation without frequent maintenance.

HIGH PRECISION

Repeatability accuracy of mold opening and closing position ±0.5m

Repeatability accuracy of shot weight 0.7% - 0.3%

ENERGY SAVING

High efficient drive technology, modular design of hydraulic valve plates, excellent hydraulic layout, non-overflow and non-fever servo pump control system, high-efficient built-in cooler, DIN standard hydraulic connectors and hoses make energy saving a daily reality.



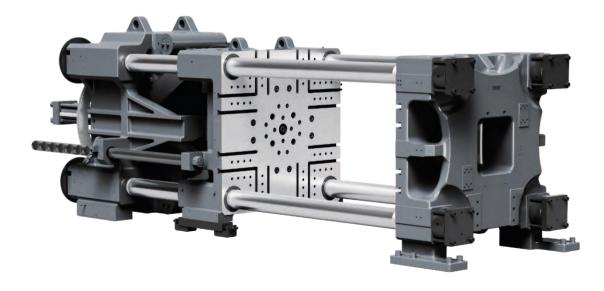
HIGH EFFIECIENCE - ENERGY SAVING





HIGH QUALITY

High Quality, Stable and Reliable Clamping Unit

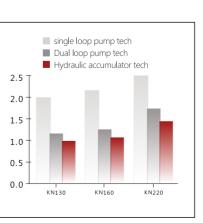


The large drawing lines of the clamping part are marked with the following selling points:

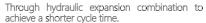
- Dual crank arm clamping structure, it is solid, stable, reliable and durable, suitable for 24-hour uninterrupted work.
- The whole series configure T-slot & threaded hole mold platen as standard, which makes mold replacement faster and more convenient, effectively solving the problem of easy damage to the thread of the threaded hole platen.
- The centrally reinforced moving platen and front platen design, can transmit the force to the mold in a concentrated manner, then the mold is less deformed due to the concentrated force, which can prolong the working life of the mold.
- The clamping unit adopts differential technology to realize fast mold opening and closing to ensure the cycle time of the product.
- European style portable ejector structure design, easy to disassemble and maintain the ejector pin.
- The lengthened and widen sliding foot guide ensures high parallelism of the platen and high repeat positioning accuracy, more stable and faster mold openning and closing, to ensure the whole machine more stable and high efficient.
- The selflubricating steel ring and copper ring reduce lubrication requirements, reduce lubricating oil consumption, reduce wear and prolong the working life of the whole machine.
- Inheriting Japanese modularization, life management design and meticulous production, reliable materials with good mechanical rigidity to ensure the working life of the whole machine.

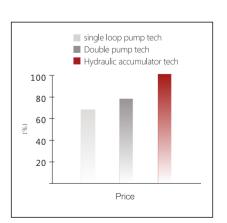
- The whole machine adopts high performance hose and DIN standard hydraulic joint, no welding, no oil leakage, no pollution.
- Multi-pump combination technology, electric servo injection technology and hydraulic accumulator technology realize the independent action of each motion axis, making high efficient production so simple.
- Through the hydraulic expansion combination to achieve a short cycle. Strong selectivity and high cost performance to meet the requirements of different customers.
- High Efficient servo system + internal gear pump, output energy consumption varies with load, closed-loop control of pressure and speed, faster response (30-50ms). The system pressure 17.5Mpa, injection pressure and speed are greatly improved.
- Modular design of hydraulic valve board + excellent hydraulic layout, effectively reduce pressure loss, improve the response speed, and make function upgrade and oil circuit transformation easy.
- Non-overflow and non-fever servo pump control system + high-efficiency built-in cooler, which greatly reduces water consumption and greatly saves energy.





plarnovatic



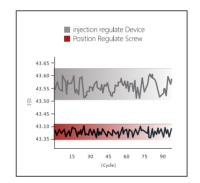


High performance-price ratio satisfy the requirements of different customers.

Repeatability Accuracy of Shot Weight 0.7% - 0.3%

- The Universe series injection unit adopts a double-layer injection structure, and the injection cylinder with double-outstretched rod structure of high-speed machine structure, which greatly improves the injection accuracy and charging stability.
- ♦ The whole series adopt high rigid injection base and high precision linear slide rail, making injection response more rapid, accurate and stable.
- ♦ The movement of injection unit adopts high-rigidity guide column structure + double injection movement structure to avoid material leakage during charging time of high-speed, high-pressure injection and high back pressure.

 PRS position adjustment screw technology to achieve accurate shot weight and ensure the shot weight repeatability accuracy of 0.7%-0.3%.



repetition precision: achieve accurate shot weight through PRS function



SSR barrel temperature control system

Using non-contact control, once the raw material enters the feeding area, it has been incorporated into the temperature closed-loop control unit, which effectively improves the accuracy and efficiency of the injection unit, and avoids the phenomenon of low injection precision caused by raw material caking and unsmooth feeding at the same time. Roller slide structure, convenient for changing plastic materials.



High Adaptability Plasticizing System

- High-performance screws with different screw diameters, wear-resistant grades, geometric shapes and special mixing requirements to meet customer's individual needs.
- The specical plasticizing system can be customized for various complex process requirements and various application requirements.
- Adopt high-torque and high-speed hydraulic plasticizing motor, fast response speed and energy saving.
 Option: Choose electric charging if need better engery-saving effect.
- $igstyle{\diamondsuit}$ The precision of Japan and the rigor of Germany are combined with local manufacturing.
- The standard injection speed meets the requirements of European standard, with fast speed and accurate position.
- The product has less internal stress and stable quality.



- The whole series machines configure large-screen controller as standard, friendly UI interface, and better conveying information.
- Standard SPC quality control and management system to help achieve continuous stability and redicatability of the process, improve production capacity, product quality and reduce costs.
- SVP servo pump, accurately control response speed, convenient system maintenance, energy saving.
- Powerful software control function makes the complicated injection molding process simple and easy to operate.
- The main electrical components are all imported brands such as Schneider, ABB, Fuji, Eaton, etc., which greatly improves the working life and stability.
- The expansion interface of Industry 4.0 of human-computer interaction is available, to open a new era of smart factory. (Remark: U77, OPC, etc., MES requires additional charges).
- The automated, intelligent and modern injection molding machine computer is conducive to central data collection, analysis and backup. At the same time, it can realize data interaction and full-line automation with robot, mold temperature controller, chiller and other auxiliary machines, forming an exclusive customer IoT (Internet of things) management solution of injection molding machine.
- Friendly and simple operating software is convenient for users to master the machine producing status anytime and anywhere, and respond quickly and timely, to ensure high-efficient production process and high-quality output.

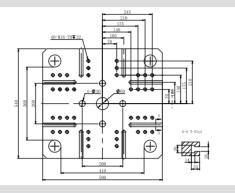


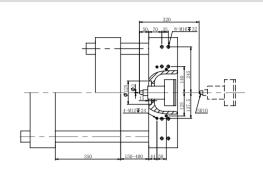


	1000			SPEC	IFICA	TION								
DESCRIPTION	UNIT		S100			S140			S180			S230		
International Size Rating	350				430			600		900				
INJECTION UNIT														
screw specification	mm	32	36	40	36	40	45	40	45	50	45	50	55	
Screw L:D ratio		22.5	20.0	18.0	22.2	20.0	17.8	22.5	20.0	18.0	22.2	20.0	18.2	
Shot volume	cm³	145	183	226	204	251	318	283	358	442	398	491	594	
Shot weight(PS)	g	132	167	206	185	229	289	257	326	402	362	447	541	
	oz	4.6	5.9	7.3	6.5	8.1	10.2	9.1	11.5	14.2	12.8	15.8	19.1	
Injection pressure	Bar	2222	1755	1422	2154	1745	1378	2231	1763	1428	2299	1862	1539	
Injection rate	cm³/s	76	96	118	98	120	152	118	149	184	146	180	218	
Plasticizing capacity	g/s	8.4	13.1	20.7	13.6	21.5	28.3	20.2	26.6	31.9	22.7	27.2	33.2	
Max.screw speed	r/min		252			267			250			213		
CLAMPING UNIT														
Clamping force	KN	1000			1400			1800				2300		
Space between tie bars(H×V)	mm		410X360			460X410			520X470			570X520		
MIN.mold dimension(H×V)	mm		310X310			340X340			380X380			430X430		
Toggle stroke	mm		350			400			460			520		
Min.mold height	mm		150		170			200			220			
Max.mold height	mm		400		480			550			570			
Distance between platens(daylight)	mm		750		880			1010			1090			
Ejector stroke	mm		110		130			130			150			
Ejector force	KN		40		49			49			77			
Number of ejector	Pcs		5		5			5			9			
POWER UNIT														
Systerm pressure	Bar		175			175			175			175		
Pump motor	kW		11			15			18			22		
Heating capacity	kW		6.3		7.5			11.5			14.0			
GENERAL														
Oil tank capacity	L		120		150				200		240			
Machine dimension(L×W×H)	m×m×m	4.	2X1.1X1.8		4.4X1.2X1.9				5.1X1.3X2.0)	5.4X1.4X2.2			
Machine weight	t		3.13		3.7			4.87			6.23			
Hopper capacity	kg		25		25			50			50			

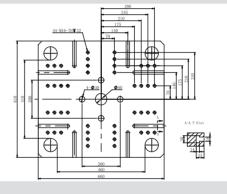
MOLD PLATEN DRAWING

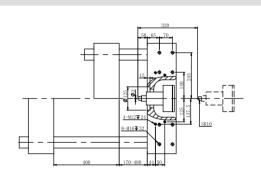
S100



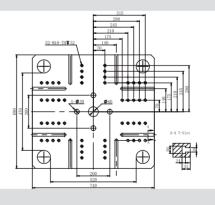


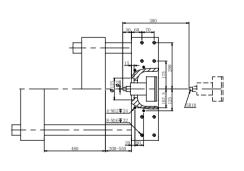
S140



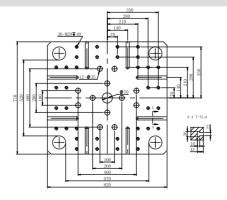


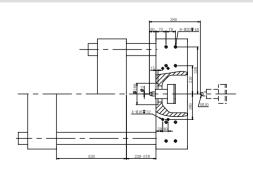
S180





S230



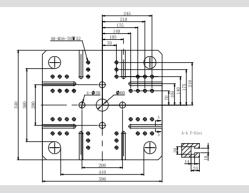


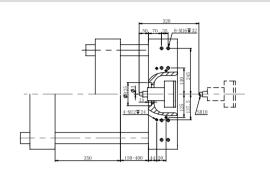


	- See			SPEC	IFICA	TION								
DESCRIPTION	UNIT		S270		S300				S350		S420			
International Size Rating		900			1400			1800			2300			
INJECTION UNIT														
screw specification	mm	55	60	65	60	65	70	65	70	75	70	75	80	
Screw L:D ratio		21.8	20.0	18.5	21.7	20.0	18.6	21.5	20.0	18.7	22.5	21.0	19.7	
Shot volume	cm³	713	848	995	919	1078	1251	1161	1347	1546	1443	1657	1885	
Shot weight(PS) _	9	649	772	906	836	981	1138	1057	1226	1407	1313	1508	1715	
	oz	22.9	27.2	32.0	29.5	34.6	40.1	37.3	43.2	49.6	46.3	53.2	60.5	
Injection pressure	Bar	2036	1711	1458	2013	1715	1479	1988	1714	1493	1857	1618	1422	
Injection rate	cm³/s	206	245	288	287	337	391	290	337	387	353	406	462	
Plasticizing capacity	g/s	31.2	39.7	48.2	43.6	53.0	62.3	44.2	51.9	64.9	44.3	55.3	62.0	
Max.screw speed	r/min		200			220			183			172		
CLAMPING UNIT														
Clamping force	KN	2700			3000			3500			4200			
Space between tie bars(H×V)	mm	620X570			670X620			730X670				770X720		
MIN.mold dimension(H×V)	mm	450X450			500X500				550X550			600X600		
Toggle stroke	mm	560			610			660				740		
Min.mold height	mm		250		250			250			300			
Max.mold height	mm		600		650			700			750			
Distance between platens(daylight)	mm		1160		1260			1360			1490			
Ejector stroke	mm		150		170			170			220			
Ejector force	KN		77		95			95			120			
Number of ejector	Pcs		13		13				13		17			
POWER UNIT														
Systerm pressure	Bar		175		175				175		175			
Pump motor	kW		30		37				37		45			
Heating capacity	kW		16.0		20.0				23.0		28.0			
GENERAL														
Oil tank capacity	L		300			400			400			500		
Machine dimension(L×W×H)	m×m×m	6.0	0X1.5X2.2		6.5X1.6X2.3			7.0X1.7X2.4			7.7X1.85X2.4			
Machine weight	t		7.53		9.5				11.5		16			
Hopper capacity	kg		50		75			75			100			

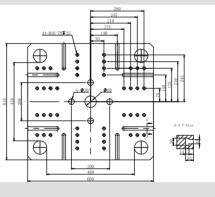
MOLD PLATEN DRAWING

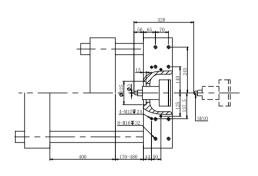
S270



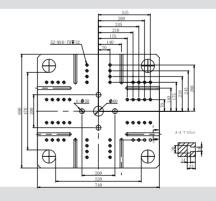


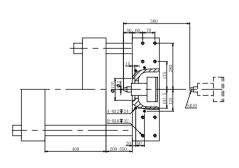
S300



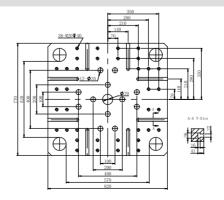


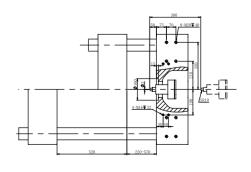
S350





S420



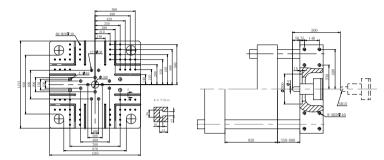




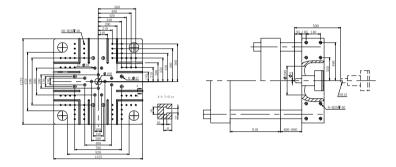
							SP	ECIF	ICAT	ION											
DESCRIPTION	UNIT		S	530			Sé	500			S700			\$850				\$1050			
International Size Rating			3450				4450				5900			7500				9600			
INJECTION UNIT																					
screw specification	mm	75	80	85	90	80	85	90	100	85	90	100	110	90	100	110	120	100	110	120	130
Screw L:D ratio		22.4	21.0	21.2	20.0	22.3	21.0	22.2	20.0	22.2	21.0	22.0	20.0	23.3	21.0	21.8	20.0	23.1	21.0	21.7	20.
Shot volume	cm ³	1878	2136	2412	2704	2262	2554	2863	3534	2837	3181	3927	4752	3372	4163	5037	5994	4555	5512	6560	769
		1709	1944	2195	2460	2058	2324	2605	3216	2582	2895	3574	4324	3068	3788	4583	5455	4145	5016	5969	700
Shot weight(PS)	OZ	60.3	68.6	77.4	86.8	72.6	82.0	91.9	113.4	91.1	102.1	126.1	152.5	108.2	133.6	161.7	192.4	146.2	176.9	210.6	247
Injection pressure	Bar	1848	1624	1439	1283	1969	1744	1556	1260	2078	1854	1502	1241	2224	1802	1489	1251	2128	1759	1478	125
Injection rate	cm³/s	455	517	584	655	427	482	540	667	500	561	692	838	623	 769	931	1108	773	936	1114	130
Plasticizing capacity	g/s	56.7	63.5	74.8	95.2	56.4	66.5	84.6	104.8	 77.1	98.2	121.6	151.9	101.3	125.5	156.8	188.2	111.0	106.6	118.4	163
Max.screw speed	r/min		16	0			14	12			16	5			17	0			17	 '4	
CLAMPING UNIT																					
Clamping force	KN		5300				6000			7000		8500				1	0500				
Space between tie bars(H×V)	mm		870X820				920X870			1000X920		1120X1020				122	0X1120				
MIN.mold dimension(H×V)	mm		650X650			700X700			750X750		900X900			950X950							
Toggle stroke	mm		850				910			980		1100			1250						
Min.mold height	mm			350			400			400		450			500						
Max.mold height	mm	-		800			880			980		1000						1160			
Distance between platens(daylight)	mm			1650)		1790			1960		2100			2410						
Ejector stroke	mm	-		250			250			280			280			320					
Ejector force	KN			166			160				197			197			230				
Number of ejector	Pcs			17				21				21				21				21	
POWER UNIT																					
Systerm pressure	Bar			175			1	75			17	' 5			17	5			17	5	
Pump motor	kW			55				67									_	10			
Heating capacity	kW			33/36				5/42			40/			_	60/				72/		
GENERAL																					
Oil tank capacity	L			650				650				800			110	0			1	200	
Machine dimension(L×W×H)	m×m×m		8	.4X2.1X	2.4		9X2.15X2.7 10X2.25X2.68			8	11X2.7X3.2				11.8X2.8X3.6						
Machine weight				20.3				25.5				31.8		40						50	
Hopper capacity	kg	-		100				100				150			150)		200			

MOLD PLATEN DRAWING

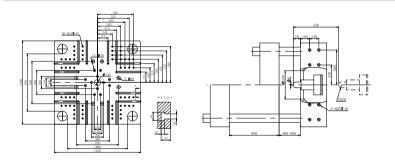
S530



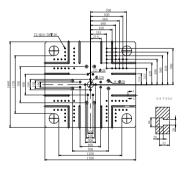
S600



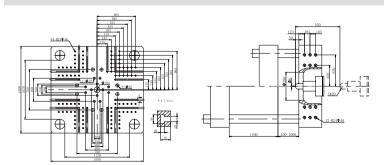
S700

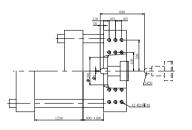


S1050



S850







FEATURE DESCRIPTION	MODELS									
Injection Unit	S100-S350	S420-S530	S600-S700	S850-S1050						
BI-metal Screw: B, C, D screw + nitriding barrel	•	•	•	•						
Chrome plated screw: A screw + nitriding barrel	•	•	•	•						
Bl-metal Screw&barrel	0	0	0	0						
Full hard screw + BI-metal barrel	0	0	0	0						
High wear resistance and corrosion resistant screw, barrel	0	0	О	0						
Needle shur-off nozzle	0	0	0	0						
Hydraulic/air shut-off nozzle	0	0	0	0						
Balanced dual cylinder injection unit	•	•	•	•						
Balanced dual cylinder carriage unit	•	•	•	•						
High rigid double layer injection system	•	•	•	•						
njection unit increase & decrease	0	0	0	0						
Hydraulic motor increase	0	0	0	0						
Electric charging	0	0	0	0						
Ejectric injection	0	0	0	0						
Accumulator injection	0	0	0	0						
njection transducer	•	•	•	•						
Nozzle transducer	0	0	0	0						
Screw speed display	•	•	•	•						
Feeding mould temp. auto controlled	0	0	0	0						
Ceramic heater	•	•	•	•						
nfrared heating	0	0	0	0						
Fan cooler	0	0	0	0						
Auto material cleaning	•	•	•	•						
Cold start protection	•	•	•	•						
Nozzle cover	•	•	•	•						
Centralized Lubrication device in injection unit	Ο	0	0	0						
Proportion back pressure	0	0	0	0						
Servo valve device	Ο	Ο	0	Ο						
Clamping Unit										
T-slot mold plate Magnet mold plate	•	•	•	•						
Mold thickness increase	0	0	0	0						
Mold thickness reduce	0	0	0	0						
Mechanical & electrical safety device	0	0	0	0						
Clamping, eject transducer	•	•	•	•						
	•	•	•	•						
Product slide with photo cell	0	_	_	_						
Mold adjustment limited switch	•	•	•	•						
Auto mold adjustment function	•	•	•	•						
		Remarks:	● Standard ○ (Option — No						

FEATURE DESCRIPTION		MODELS		
Clamping Unit	S100-S350	S420-S530	S600-S700	S850-S1050
Clamping force display	0	0	О	0
Clamping force control close-loop	0	0	0	0
Widen safety door	0	0	0	0
Auto safety door	0	0	0	•
Safety step board in mold zone	0	0	0	0
Safety light curtain in mold zone Separated type	0	0	0	•
machine body	_	_	•	•
Mold lifting hanger	0	_	_	_
Quantitative centralized lubrication device	•	•	•	•
Glass tube cooling Flowmeter	0	0	0	0
Quick plug distributor	•	•	•	•
Hydraulic & electric unscrew eject	0	0	0	0
Air valve (2 unit from UN850)	0	0	0	•
Core pulling (2 unit from UN420) Electric or Hydraulic	•	•	•	•
Unscrew device	0	0	0	0
Unscrewing counter sensor	0	0	0	0
Mold open&closed proportional valve	0	0	0	0
Synchronous action (ejector, core pulling)	0	0	О	•
Valve control in proper order	0	0	0	0
Product QS function device	0	_	_	_
Thermal baffle	0	0	0	0
Hydraulic Unit				
Servo Motor/pump control system	•	•	•	•
Self-sealing magnetic oil sucking filter	•	•	•	•
Pump/motor power increase	0	0	0	0
Cooler increase	0	0	0	0
Oil temperature display	•	•	•	•
Oil temp auto control	0	0	0	0
Oil level alarm	0	0	0	0
Oil temp. pre-heating function	0	0	0	0
Oil tank magnet	•	•	•	•
High pressure on-line filter	0	0	0	0
Low presure return filter	0	0	0	0
Passby oil filter	0	0	0	0
		Remarks:	● Standard ○ (Option — No

FEATURE DESCRIPTION	MODELS							
Injection Unit	S100-S350	S420-S530	S600-S700	S850-S1050				
KEBA controller 12" non touch screen	•	0	0	0				
KEBA controller 12" touch screen	0	•	•	•				
Action monitoring function	•	•	•	•				
Producing monitoring function	•	•	•	•				
Error alarm display	•	•	•	•				
Hardware input output function	•	•	•	•				
Euromap 12 robot interface Euromap	0	0	0	0				
67 robot interface	0	0	0	0				
3 color alarm light	•	•	•	•				
Rear safety door emergency button	•	•	•	•				
SSR for heating	•	•	•	•				
3phase-5line socket (16A)	•	0	0	0				
3phase-5line socket (32A)	0	•	•	•				
Single phase socket (10A)	•	•	•	•				
European 3phase-5line socket (16A)	0	0	0	0				
European 3phase-5line socket (32A)	0	0	0	0				
European single phase socket (10A)	0	0	0	0				
Hot runner control system and interface	0	0	0	0				
Internet manage system	0	0	0	0				
Other								
Nomal hopper	•	•	•	•				
Toolbox/damageable spare parts/operation manual	•	•	•	•				
Level pad	•	•	•	•				
Mold clamping board	•	•	•	•				
Stainless steel hopper	0	0	0	0				
Hopper dryer	0	0	0	0				
Hopper magnet	0	0	0	0				
Special color	0	0	0	0				
Robot	0	0	0	0				
Water chiller	0	0	0	0				
Mold temperature controller	0	0	0	0				
Dehumidifier	0	0	0	0				
Autoloader	0	0	0	0				
Fumigated wooden package	0	0	0	0				
Products taking plate	0	0	0	0				
Feeding plate	O	0	0	0				
		Remarks:	● Standard ○ (Option — No				



