

# A5

## 65T-1125T

A5-N SERIES HIGH-END SERVO  
INJECTION MOLDING MACHINE

New A5, Excellent As Always



**YIZUMI-HPM CORPORATION**

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**[DISCLAIMER]**

[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

## A5-N Series High-end Servo Injection Molding Machine

Clamping force: 65-1125 US Tons

To fulfill the core value of "reliability & stability" in A5-N series medium-large machines, we redefine and strictly implement key inspection and performance criteria below:

- ▶ Backflow detection variation <1mm
- ▶ Plasticizing weight deviation <0.5%
- ▶ Platen parallelism (after load) <0.18mm (UN800A5)
- ▶ Platen parallelism (mold opening to 100mm) <0.54mm (UN800A5)
- ▶ Force deviation of tie bar <±3%
- ▶ Repeatability of clamping force <1%
- ▶ Accuracy of mold-open end position <2mm
- ▶ Static temperature control accuracy <±1°C

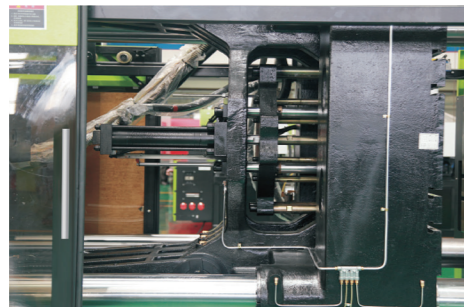
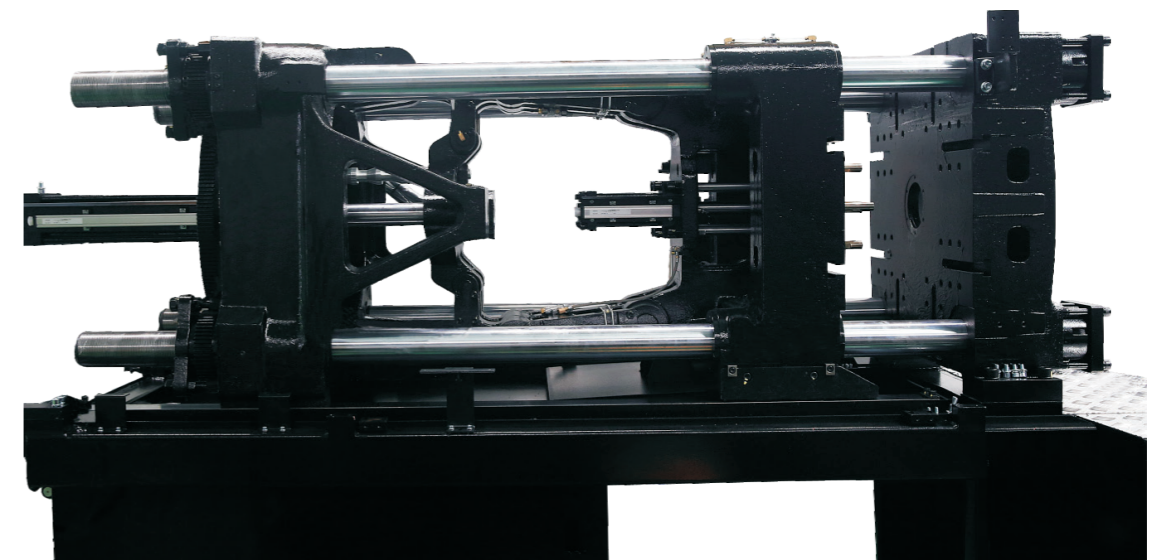


※Data above come from Yizumi lab, available for reference.

## Clamping Unit

### Mechanical structure of clamping unit—stable, high-rigidity

The platen structure is designed with European style and fully optimized parameters and force distribution. High-rigidity materials and manufacturing processes for base frame ensure the machine is strong, stable and reliable.

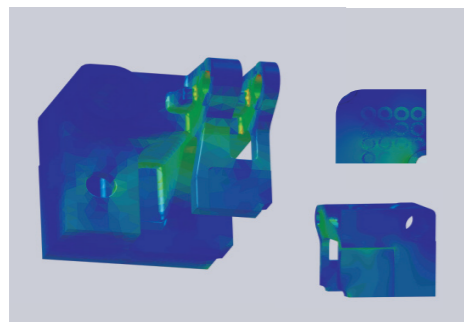
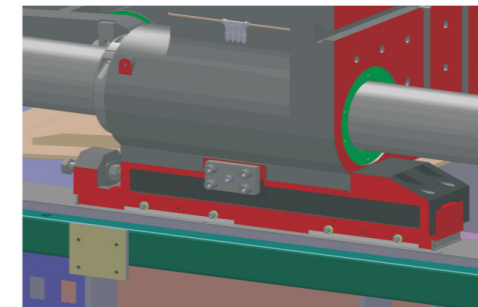


#### Highly rigid clamping unit

- ▶ Less platen deformation, better parallelism, less deviation of stress on tie bars, more precise repeatability of clamping force.
- ▶ Applicable to high-speed & high-pressure injection molding requirement, effectively improving precision of molded parts.

#### Extended moving platen support

The movable platen is equipped with front heavy-load sliding supports. The center of gravity of support moves forwards to the mold mounting surface, preventing the platen from tilting. Machine still operates steadily when it is loaded with heavy molds.

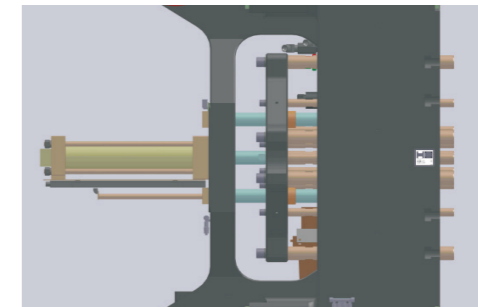


#### Uniform-stress clamping technology

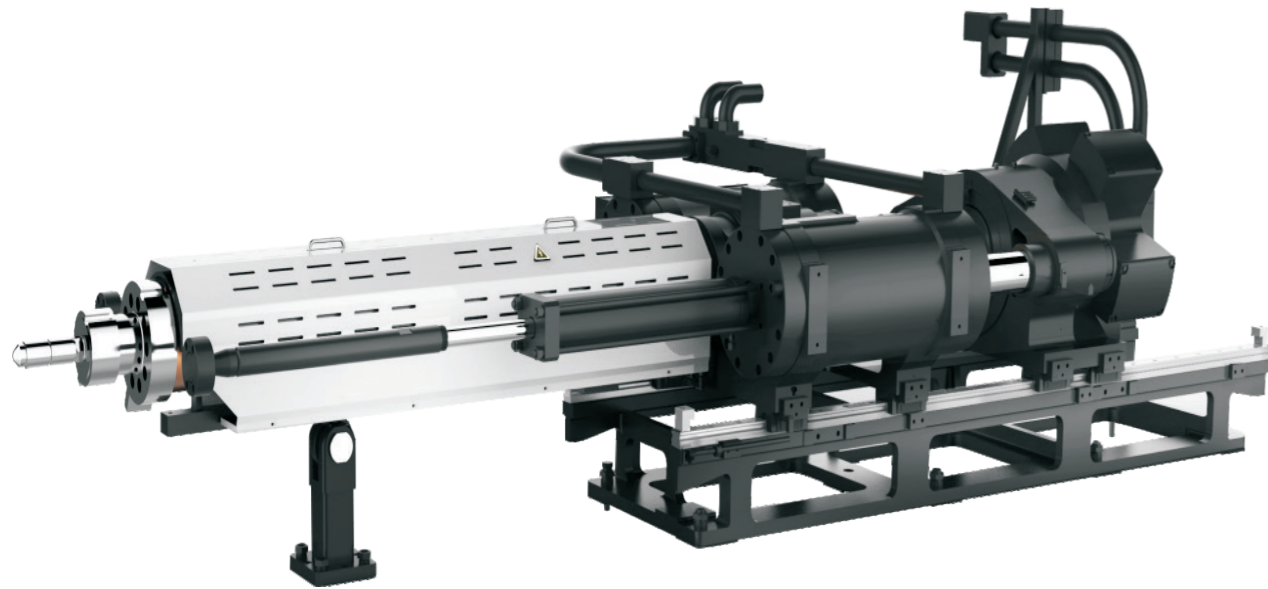
- ▶ Uniform distribution of clamping force, less platen deformation.
- ▶ Lower clamping force is applicable to produce the same part without flash, protecting platen and mould.

#### Extended ejector guiding platen design

- ▶ Ejector guiding extended, effectively avoiding ejector plate tilting and improving stability of ejection.
- ▶ Uniform distribution of ejector force, precise ejection position with better ejection performance.



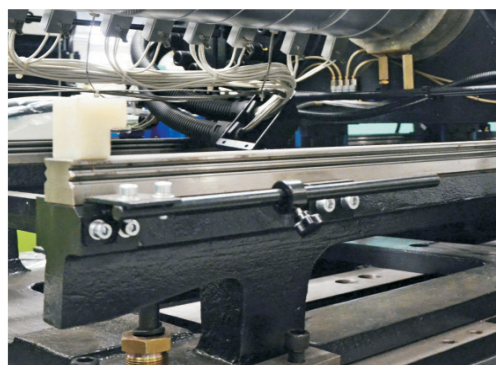
## Injection Unit



### Mechanical structure of injection unit—stable, 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.

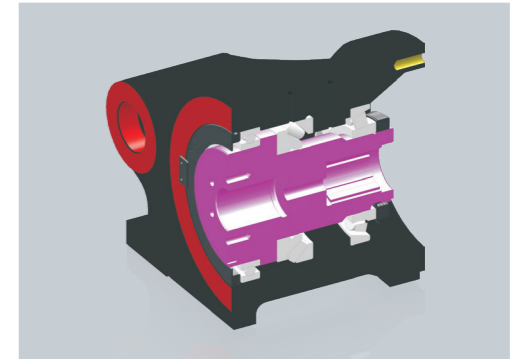


### Integrated linear guide rail support

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

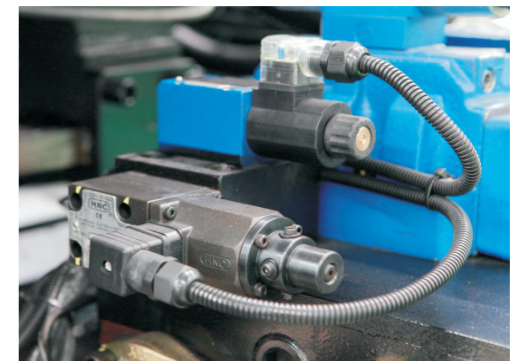
### Three bearings for 290A5-N and larger models

- ▶ 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.



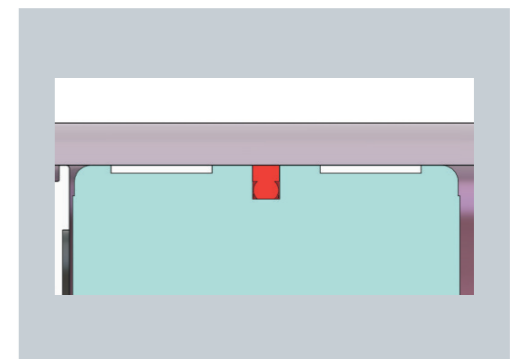
### Proportional back pressure for plasticizing

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



### Low friction oil seal inside injection cylinder

- ▶ Injection cylinder adopts low friction oil seal design, fully reducing injection friction and ensuring longer service life.



## 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

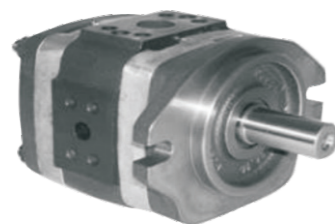
So far, Yizumi has comprehensively grasped the application technology of energy-saving servo system since it was further studied in 2005. The third-generation servo system has been improved and optimized in the internal structure of motor, the standard of magnetic steel, the selection of oil pump and 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

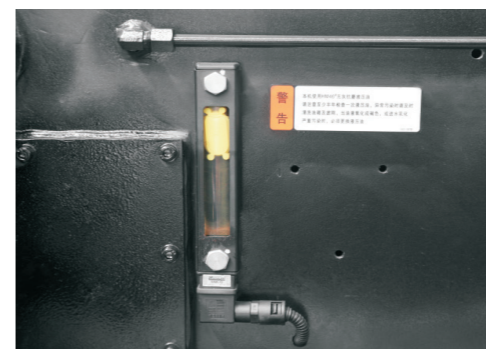
High efficiency gear pump realizes fast response injection molding which can be used in high-precision molding.

#### 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.

## Control System

High precision control system—  
**more accurate control of system pressure, flow, position & temperature, higher part repeatability, as well as more stable overall machine performance.**



#### Low oil level alarm

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



- ▶ Color mixing signal with EUROMAP-based interface
- ▶ EUROMAP 67 based programs and plugs for robot



#### Professional control system

- ▶ A5-N series employs Austria's KEBA control system with user-friendly interface and higher processing speed.
- ▶ 12 " TFT color touch screen, visualized graphic parameter setting, actual parameter values recorded and displayed with curves, more accurate online process analysis
- ▶ Free programming is available to meet the needs of special molds and processes.
- ▶ Extensible I/O modules can integrate with more functions, including temperature control and sequence valve as needed.

## UN65A5-N to UN180A5-N Specifications

DESCRIPTION		UN65A5-N	UN100A5-N	135A5-N	180A5-N							
International specification	UNIT	190/600	295/900	420/1200	604/1600							
<b>INJECTION UNIT</b>												
		A	B	A	B	C	A	B	C	A	B	C
Shot volume	cu in	3.131	4.370	7.116	9.685	12.651	9.978	15.062	18.772	18.168	22.635	27.597
	cm <sup>3</sup>	51.3	71.6	116.6	158.7	207.3	163.5	246.8	307.6	297.7	370.9	452.2
Shot weight (PS)	g	47.2	65.9	107.3	146.0	190.7	150.4	227.1	283.0	273.9	341.2	416.0
	oz	1.7	2.3	3.8	5.2	6.7	5.3	8.0	10.0	9.7	12.0	14.7
Screw diameter	in	0.866	1.024	1.181	1.378	1.575	1.378	1.693	1.890	1.693	1.890	2.087
	mm	22	26	30	35	40	35	43	48	43	48	53
Injection pressure	psi	54099	38725	36550	26832	20623	37130	24709	19725	29445	23496	19290
	Mpa	373	267	252	185	142	256	170	136	203	162	133
Injection rate	oz/sec	1.6	2.3	3	4.1	5.3	3.5	5.3	6.6	5.5	6.9	8.4
	g/sec	45.8	64.0	84.5	115.1	150.3	99.1	149.6	186.5	156.3	194.8	237.5
Screw L:D ratio		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	in/sec	5.16		5.12			4.41			4.61		
	mm/sec	131		130			112			117		
Screw stroke	in	5.31		6.5			6.69			8.07		
	mm	135		165			170			205		
Screw speed(stepless)	r/min	0 - 230		0 - 230			0 - 230			0 - 230		
<b>CLAMPING UNIT</b>												
Clamping force	US tons	65		100			135			180		
	kN	600		900			1200			1600		
Opening stroke	in	10.24		12.99			14.17			16.54		
	mm	260		330			360			420		
Space between tie bars(HxV)	in x in	12.2 x 12.2		14.17 x 14.17			16.14 x 16.14			18.11 x 18.11		
	mm x mm	310 x 310		360 x 360			410 x 410			460 x 460		
Mold thickness (Min.-Max.)	in	4.72 - 12.99		5.12 - 14.96			5.71 - 17.72			6.30 - 20.47		
	mm	120 - 330		130 - 380			145 - 450			160 - 520		
Ejector stroke	in	2.36		3.94			4.72			5.51		
	mm	60		100			120			140		
Ejector force	us tons	2.5		3.1			4.7			4.7		
	kN	22		28			42			42		
<b>POWER UNIT</b>												
Hydraulic system pressure	psi	2538		2538			2538			2538		
	Mpa	17.5		17.5			17.5			17.5		
Pump motor power	hp	20.1		26.8			33.5			40.2		
	kW	15		20			25			30		
Heater power	hp	6.4/7.4		9.3/9.3/10.5			12.1/12.1/13.5			14.6/14.6/16.2		
	kW	4.8/5.5		6.9/6.9/7.8			9.9/10.1			10.9/10.9/12.1		
Number of temp control zones		5		5			5			5		
<b>GENERAL</b>												
Dry cycle time	sec	1.6		1.8			2			2.4		
Oil tank capacity	gal	38		44			51			69		
	L	145		165			195			260		
Machine dimensions(LxWxH)	in	168.5x53.1x72.4		178.3x53.1x74.0			185.8x55.9x75.6			205.9x58.3x769.5		
	m x m x m	4.28x1.35x1.84		4.53x1.35x1.88			4.72x1.42x1.92			5.23x1.48x2.02		
Design weight	lbm	6380		7480			8800			11000		
	kg	2900		3400			4000			5000		

Note:

1. Shot volume= cross-sectional area of barrel×injection stroke
2. Shot weight= shot volume×0.92 (GPPS)
3. We reserve the right to improve products or change specifications without prior notice. The product photos in this catalogue are for reference only.
4. Please inform us if you need to process engineering plastics like PVC, PC and PMMA or have special requirements.

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## UN225A5-N to UN450A5-N Specifications

DESCRIPTION		UN225A5-N			UN290A5-N			UN360A5-N			UN450A5-N		
International specification	UNIT	895/2000			1269/2600			1885/3200			2693/4000		
<b>INJECTION UNIT</b>													
		A	B	C	A	B	C	A	B	C	A	B	C
Shot volume	cu in	25.949	31.637	40.547	35.677	45.722	58.727	50.897	65.379	81.667	73.136	91.358	111.601
	cm <sup>3</sup>	425.2	518.4	664.4	584.6	749.2	962.3	834.0	1071.3	1338.2	1198.4	1497	1828.7
Shot weight (PS)	g	391.2	476.9	611.2	537.8	689.3	885.3	767.3	985.6	1231.1	1102.5	1377.2	1682.4
	oz	13.8	16.8	21.6	19.0	24.3	31.2	27.1	34.8	43.4	38.9	48.6	59.3
Screw diameter	in	1.890	2.087	2.362	2.087	2.362	2.677	2.362	2.677	2.992	2.677	2.992	3.307
	mm	48	53	60	53	60	68	60	68	76	68	76	84
Injection pressure	psi	30458	24946	19435	31490	24571	19000	32820	25552	20456	32488	26102	21367
	Mpa	210	172	134	217	169	131	226	176	141	224	180	147
Injection rate	oz/sec	6.8	8.3	10.6	9.3	11.9	15.3	11.9	15.3	19.1	13	16.2	19.8
	g/sec	193.1	235.4	301.7	263.9	338.2	434.3	338.2	434.3	542.6	367.5	459.1	560.8
Screw L:D ratio		22:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.3:1	20:1	20:1
Max. injection speed	in/sec	4.57			5.12			5.12			4.33		
	mm/sec	116			130			130			110		
Screw stroke	in	9.25			10.43			11.61			12.99		
	mm	235			265			295			330		
Screw speed(stepless)	r/min	0 - 230			0 - 200			0 - 200			0 - 190		
<b>CLAMPING UNIT</b>													
Clamping force	US tons	225			290			360			450		
	kN	2000			2600			3200			4000		
Opening stroke	in	19.29			20.87			25.2			27.56		
	mm	490			530			640			700		
Space between tie bars(H×V)	in x in	20.87 x 20.87			24.02 x 22.44			27.95 x 26.38			29.92 x 27.95		
	mm x mm	530 x 530			610 x 570			710 x 670			760 x 710		
Mold thickness (Min.-Max.)	in	7.09 - 21.65			7.68 - 24.02			8.66 - 25.98			9.45 - 28.74		
	mm	180 - 550			195 - 610			220 - 660			240 - 730		
Ejector stroke	in	5.91			6.3			6.69			8.27		
	mm	150			160			170			210		
Ejector force	us tons	5.5			8.7			8.7			12.4		
	kN	49			77			77			110		
<b>POWER UNIT</b>													
Hydraulic system pressure	psi	2538			2538			2538			2538		
	Mpa	17.5			17.5			17.5			17.5		
Pump motor power	hp	45.6			40.2 + 33.5			68.4 + 33.5			68.4 + 33.5		
	kW	34			30 + 25			51 + 25			51 + 25		
Heater power	hp	19.3/19.3/22.5			22.3/22.3/25.5			29.8/29.8/33			35.4/35.4/41.4		
	kW	14.4/14.4/16.8			16.6/16.6/19			22.2/22.2/24.6			26.4/26.4/30.9		
Number of temp control zones		6			6			6			7		
<b>GENERAL</b>													
Dry cycle time	sec	2.7			2.8			3.2			4		
Oil tank capacity	gal	86			115			117			150		
	L	325			435			445			570		
Machine dimensions(L×W×H)	in	223.6×65.4×82.3			254.7×73.6×94.1			274.8×73.6×98.4			311.8×85.8×96.5		
	m x m x m	5.68×1.66×2.09			6.47×1.87×2.39			6.98×1.87×2.50			7.92×2.18×2.45		
Design weight	lbm	13200			18700			24640			35200		
	kg	6000			8500			11200			16000		

Note:

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## UN540A5-N to UN1125A5-N Specifications

DESCRIPTION		UN540A5-N				UN630A5-N				UN730A5-N				UN900A5-N				UN1125A5-N			
International specification	UNIT	3330/4800				3330/5600				4820/6500				6780/8000				9015/10000			
INJECTION UNIT																					
		A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
Shot volume	cu in	102.429	125.131	150.104	102.429	125.131	150.104	177.340	135.280	162.273	191.719	223.624	194.727	230.068	268.351	309.575	263.615	307.482	354.724	411.907	
	cm <sup>3</sup>	1678.4	2050.4	2459.6	1678.4	2050.4	2459.6	2905.9	2216.7	2659.0	3141.5	3664.3	3190.8	3769.9	4397.2	5072.7	4319.6	5038.4	5812.5	6749.5	
Shot weight (PS)	g	1544.1	1886.4	2262.8	1544.1	1886.4	2262.8	2673.4	2039.4	2446.3	2890.2	3371.2	2935.5	3468.3	4045.4	4666.9	3974.0	4635.3	5347.5	6209.5	
	oz	54.5	66.5	79.8	54.5	66.5	79.8	94.3	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219.0	
Screw diameter	in	2.992	3.307	3.622	2.992	3.307	3.622	3.937	3.307	3.622	3.937	4.252	3.622	3.937	4.252	4.567	3.937	4.252	4.567	4.921	
	mm	76	84	92	76	84	92	100	84	92	100	108	92	100	108	116	100	108	116	125	
Injection pressure	psi	28717	23496	19580	28717	23496	19580	16534	31473	26252	22191	19000	30748	26130	22336	19290	30168	25962	22513	19290	
	Mpa	198	162	135	198	162	135	114	217	181	153	131	212	180	154	133	208	179	155	133	
Injection rate	oz/sec	16.8	20.5	24.6	16.8	20.5	24.6	29.1	18.7	22.4	26.5	30.9	21.1	25	29.1	33.6	25.2	29.4	34	39.4	
	g/sec	475.8	581.2	697.2	475.8	581.2	697.2	823.7	530.2	636.0	751.5	876.5	598.7	707.4	825.1	951.9	715.3	834.4	962.6	1117.7	
Screw L:D ratio		22.1:1	20:1	20:1	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	21.6:1	22:1	21.6:1	20:1	
Max. injection speed	in/sec	4.49				4.49				4.09				3.85				3.90			
	mm/sec	114				114				104				97.9				99			
Screw stroke	in	14.57				14.57				15.75				18.9				21.65			
	mm	370				370				400				480				550			
Screw speed(stepless)	r/min	0 - 170				0 - 170				0 - 170				0 - 150				0 - 130			
CLAMPING UNIT																					
Clamping force	US tons	540				630				731				900				1125			
	kN	4800				5600				6500				8000				10000			
Opening stroke	in	30.71				33.46				35.43				40.94				48.03			
	mm	780				850				900				1040				1220			
Space between tie bars(HxV)	in x in	32.68 x 31.89				33.46 x 31.89				36.61 x 36.61				39.37 x 39.37				45.67 x 45.67			
	mm x mm	830 x 810				850 x 810				930 x 930				1000 x 1000				1160 x 1160			
Mold thickness (Min.-Max.)	in	10.24 - 31.89				12.99 - 33.46				13.78 - 35.43				15.75 - 39.37				17.72 - 45.67			
	mm	260 - 810				330 - 850				350 - 900				400 - 1000				450 - 1160			
Ejector stroke	in	8.66				8.66				11.02				11.02				12.6			
	mm	220				220				280				280				320			
Ejector force	us tons	12.4				18.7				20.5				20.5				30.8			
	kN	110				166				182				182				274			
POWER UNIT																					
Hydraulic system pressure	psi	2538				2538				2538				2538				2538			
	Mpa	17.5				17.5				17.5				17.5				17.5			
Pump motor power	hp	80.4+33.5				80.4 + 33.5				93.8 + 45.6				93.8 + 68.4				93.8 x 2			
	kW	60+25				60 + 25				70 + 34				70 + 51				70 x 2			
Heater power	hp	44.4/44.4/48.5				44.4/44.4/57.7/57.7				51/51/63/63				56.3/56.3/68.4/68.4				62.4/62.4/85.3/85.3			
	kW	33.1/33.1/36.2				33.1/33.1/43/43				38/38/47/47				42/42/51/51				46.5/46.5/63.6/63.6			
Number of temp control zones		7				7				7				7				7			
GENERAL																					
Dry cycle time	sec	4.5				5.5				6.5				7				8			
Oil tank capacity	gal	201				201				264				304				343			
	L	760				760				1000				1150				1300			
Machine dimensions(LxWxH)	in	333.5x87.8x98				343.7x87.8x98				378.3x90.9x102.8				415.4x93.7x103.5				449.2x102.4x104.7			
	m x m x m	8.47x2.23x2.49				8.73x2.23x2.49				9.61x2.31x2.61				10.55x2.38x2.63				11.41x2.60x2.66			
Design weight	lbm	40260				41800				56100				77000				96800			
	kg	18300				19000				25500				35000				44000			

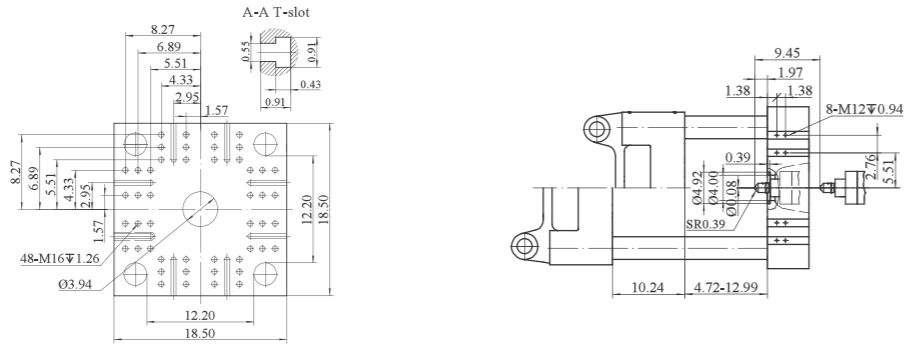
※All data on the page comes from YIZUMI factory, please refer to the actual customized equipment;

Note:

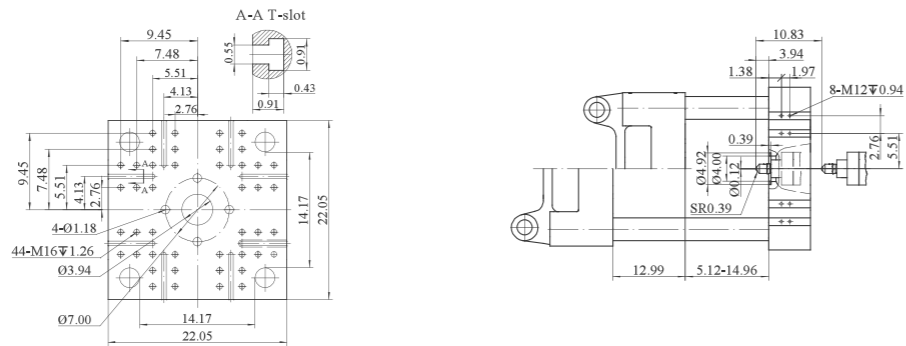
1. Shot volume= cross-sectional area of barrel×injection stroke
2. Shot weight= shot volume×0.92 (GPPS)
3. We reserve the right to improve products or change specifications without prior notice. The product photos in this catalogue are for reference only.
4. Please inform us if you need to process engineering plastics like PVC, PC and PMMA or have special requirements.

# Platen Dimensions & Layout

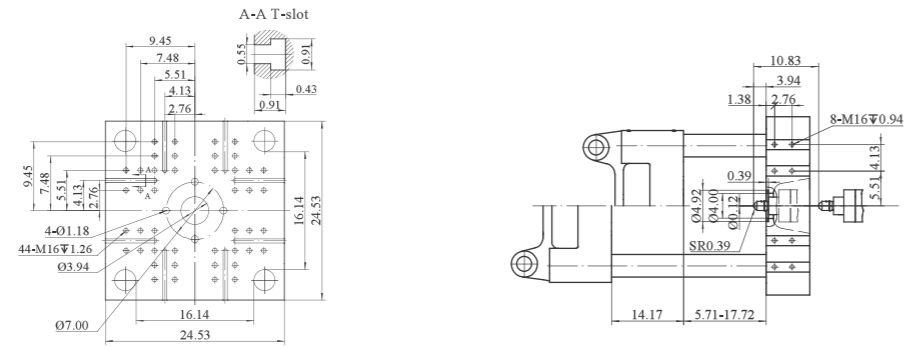
UN65A5-N



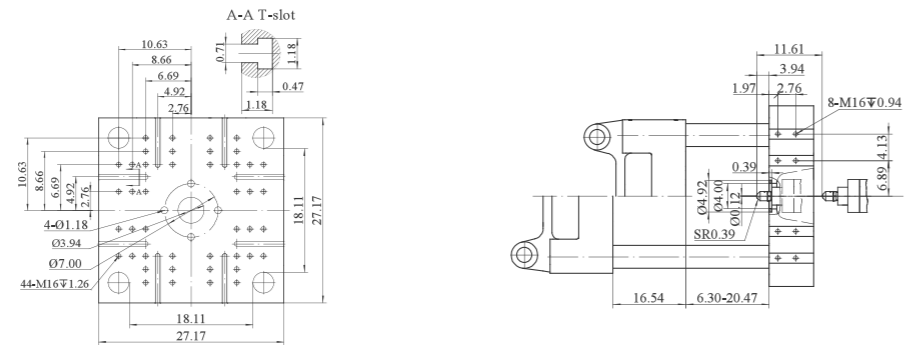
UN100A5-N



UN135A5-N

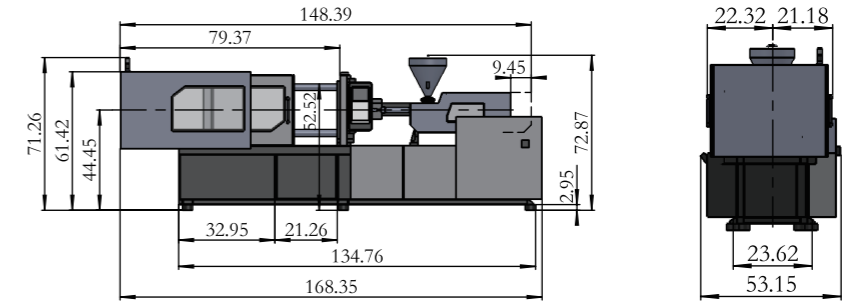


UN180A5-N

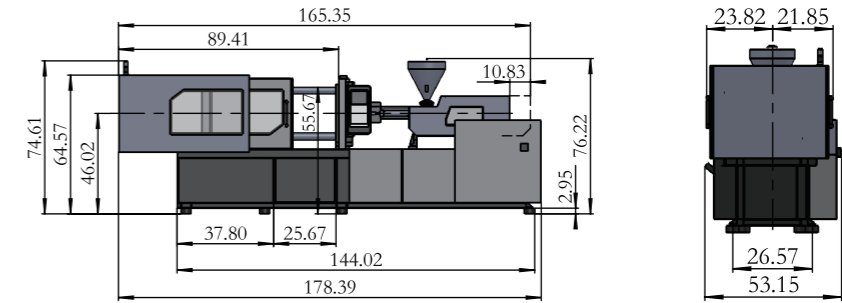


# Machine Dimensions

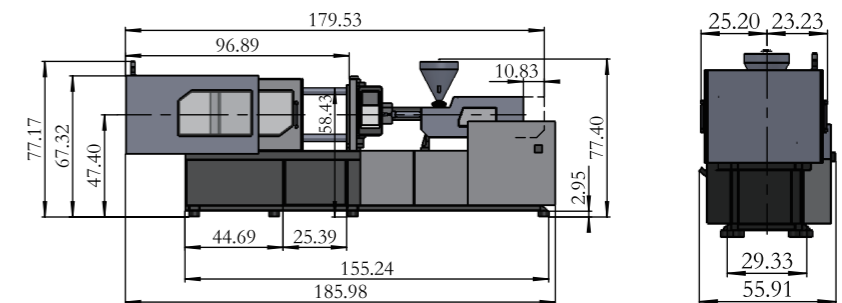
UN65A5-N



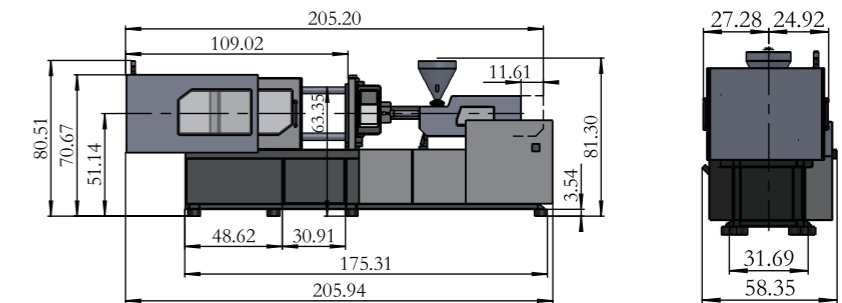
UN100A5-N



UN135A5-N



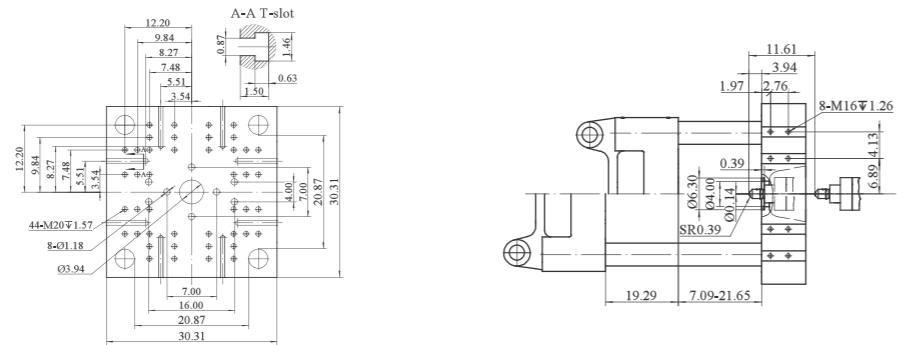
UN180A5-N



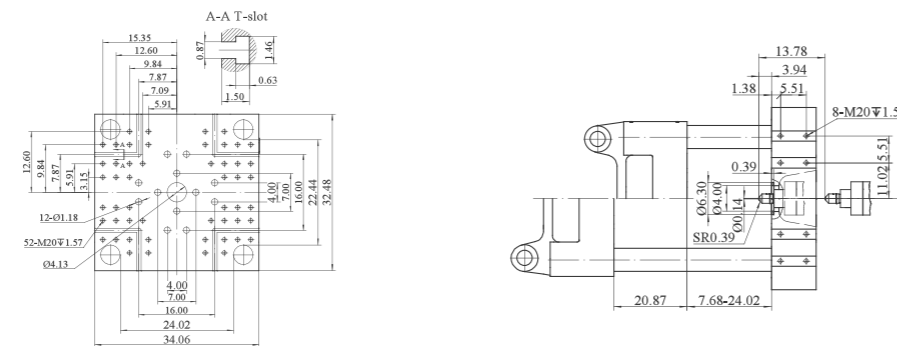
※All data on the page comes from YIZUMI factory, please refer to the actual customized equipment;

# Platen Dimensions & Layout

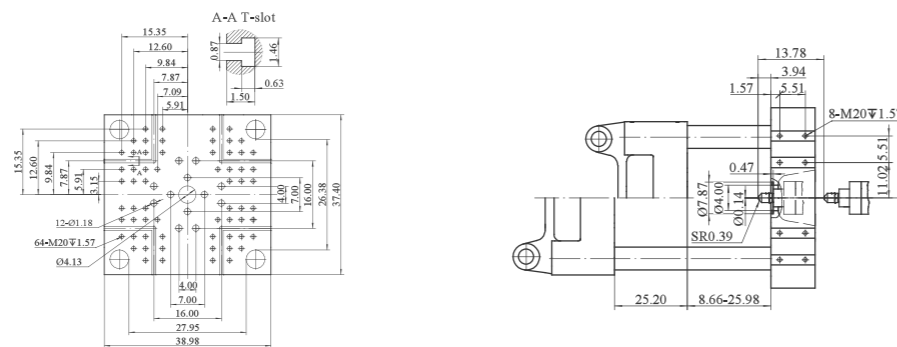
UN225A5-N



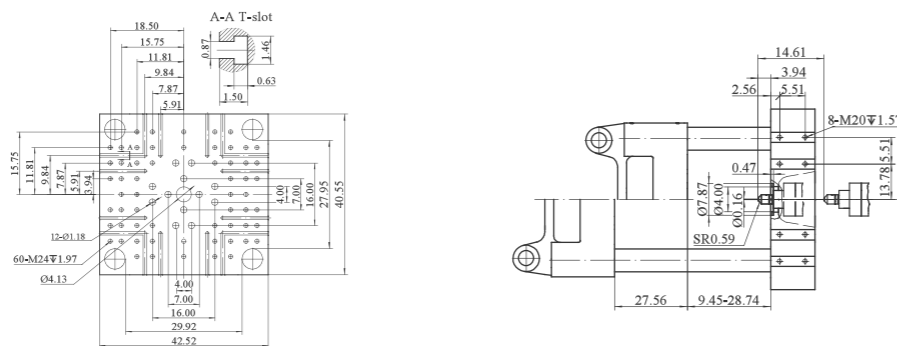
UN290A5-N



UN360A5-N

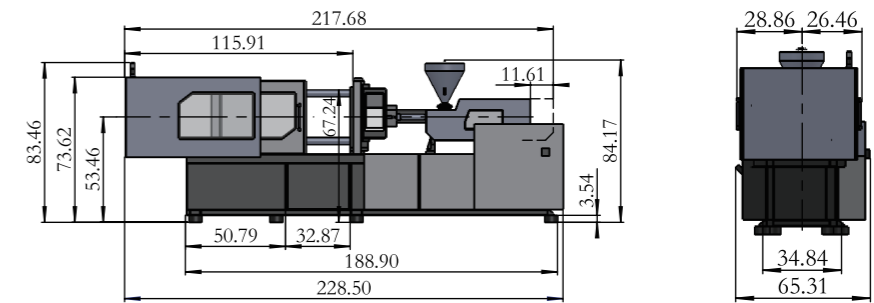


UN450A5-N

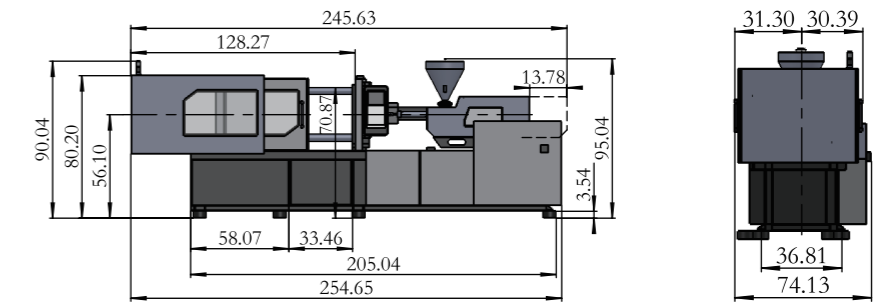


# Machine Dimensions

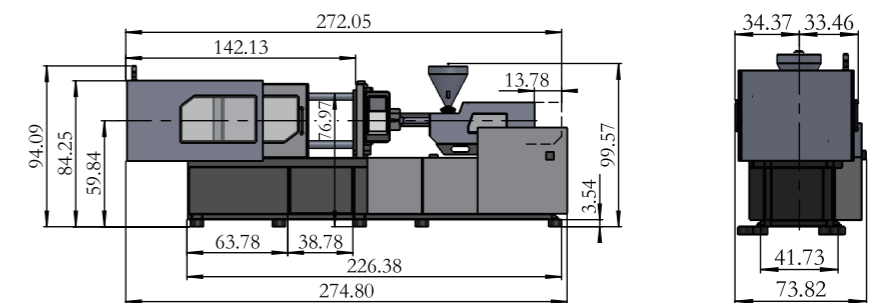
UN225A5-N



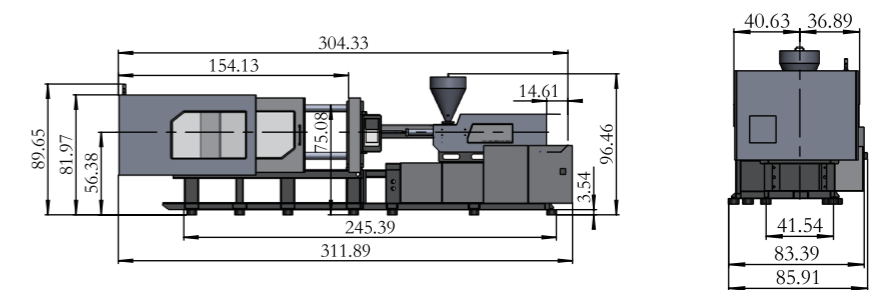
UN290A5-N



UN360A5-N



UN450A5-N



\*All data on the page comes from YIZUMI factory, please refer to the actual customized equipment;



## UN65A5-N to UN630A5-N Features

※All data on the page comes from YIZUMI factory, please refer to the actual customized equipment;

	Standard	Optional
<b>Clamping Unit</b>		
Precision transducer for clamping / ejector/injection stroke control	●	
Clamping platens / toggles made of highly-rigid ductile iron QT500-7A	●	
Hydraulic gear-type mold height adjusting device	●	
Mechanical /electrical/ hydraulic safety devices	●	
Adjustment-free mechanical safety rod	●	
Wear-resistant manganese steel bands and supporting tracks for movable platen	●	
Automatic central lubrication system	●	
Multiple functions of ejector available	●	
Low pressure mold protection	●	
Platen with T-slots and mold mounting holes	●	
One-button automatic mold height adjustment	●	
Automatic clamping force adjustment as needed	●	
Forced ejector reset	●	
Safety edges for machine gates	●	
Special mold mounting holes		○
Heat insulating plate of mold		○
Larger ejection force and ejector stroke		○
Increased mold thickness		○
Magnetic platen		○
Mold lifting device		○
Self-lubricated bushes in tie bars		○
<b>Injection Unit</b>		
Parallel double-cylinder injection system	●	
Low-speed high-torque hydraulic motor	●	
Nitrided alloy-steel screw and bimetallic barrel	●	
Energy-saving groove design of barrel (patented design)	●	
Multi-stage PID nozzle and barrel temperature control	●	
Double-carriage cylinder	●	
Fully-closed heat retaining cover	●	
Cold start protection	●	
Automatic purging	●	
Selectable suck-back before or after plasticizing	●	
Movable hopper (UN65A5-N to UN360A5-N)	●	
Three-bearing drive shaft (UN290A5-N and larger models)	●	
Screw speed detection	●	
Nozzle safety cover (with electrical protection)	●	
Ceramic heater band	●	
Linear guide rail	●	
Dedicated barrel and screw assembly (electroplating, alloy, PC, PMMA, PBT, PA, etc)		○
Barrel air-cooling device		○
Spring shut-off nozzle		○
Increased injection stroke or one-size larger (smaller) injection unit		○
Swivel injection unit (UN290A5-N to UN1125A5-N)		○
Barrel heat-retaining energy-saving device (silicone heat preservation, infrared heating)		○
<b>Electrical System</b>		
Mandatory barrel heating protection	●	
Input/output inspection	●	
Automatic heat retaining and automatic heating setting	●	
Ways of switching from injection to holding pressure: time / position / time + position	●	
12.1" TFT color touch screen	●	
Large processes data storage capacity, with USB ports/ CF card	●	
Operating languages: Chinese, English, Spanish and Portuguese	●	
Three-color alarm light	●	
Color mixing signal interface	●	
Linear guide	●	

	Standard	Optional
All transducers, weak-current switches and reversing solenoid valves covered with water-proof and rat-bite-proof corrugated pipes	●	
Multi-level password security	●	
Front and rear safety gates with emergency stop protection	●	
PDP interface	●	
Statistical process control (SPC) interface	●	
Reserved interfaces for air blowing, core pull, ejector back protection devices, etc.	●	
Hot runner interface		○
Pneumatic sequence valve		○
Interface for electric unscrewing device		○
Air blowing device with valve		○
Air-assisted injection device		○
Central (networked) monitoring system		○
Protective light grid of front and rear safety gates		○
Display of machine's energy consumption		○
Special power supply voltage		○
Sequential injection valve gate		○
Automatic safety door (UN450A5-N to UN630A5-N)		○
Multiple operating languages		○
<b>Hydraulic System</b>		
EUROMAP 67 based robot interface	●	
Servo pump system	●	
High-precision bypass oil filter	●	
Low-noise energy-saving hydraulic circuit	●	
SPI standard based ejector hole pattern	●	
SPI standard based mold locating hole (stationary platen)	●	
Imported hydraulic control valve	●	
Imported seal	●	
Differential fast mold closing device (UN65A5-N to UN360A5-N)	●	
Built-in cooler (UN65A5-N to UN360A5-N)	●	
Hydraulic circuit design of mold opening stop	●	
Automatic oil temperature detection and alarm	●	
Safety cable for exposed high-pressure hydraulic hose retention	●	
A set of core pull and core pull interface with valve	●	
Mold water-cooling devices with fast connectors	●	
Synchronized ejection and core pulling system	●	
Plasticizing proportional back pressure control	●	
Oil temperature pre-heating system	●	
Variable-displacement pump system		○
Multi-size larger oil pump and motor		○
Multi-size larger plasticizing motor		○
Synchronized ejection and core pulling (UN65A5-N to UN225A5-N)		○
High-response servo injection system with accumulator		○
Multiple sets of core pull devices		○
Hydraulic unscrewing device		○
Glass-tube flowmeter		○
<b>Other</b>		
Operation manual	●	
Leveling pad	●	
A toolkit and a precision filter element	●	
Mold clamp	●	
Spare parts (details as per sales contract )	●	
Dryer		○
Auto loader		○
Chiller		○
PET preform mold		○
Thin-wall packaging mold		○

## UN730A5-N to UN1125A5-N Features

	Standard	Optional
<b>Clamping Unit</b>		
Precision transducer for clamping / ejector stroke control	●	
Clamping platens and toggles made from highly-rigid ductile iron	●	
2-stage ejector forward / backward controlled by computer	●	
Forced ejector back function	●	
Various ejection function settings	●	
Hydraulic gear-type mold height adjusting device	●	
Mechanical / Electrical / Hydraulic safety devices	●	
Wear-resistant manganese steel bands and supporting tracks for movable platen	●	
Automatic centralized lubrication system	●	
Platen with T-slots and mold mounting holes	●	
SPI standard based ejector hole pattern	●	
SPI standard based mold locating hole (stationary platen)	●	
Increased mould thickness (100/200mm)		○
Mold heat insulating plate		○
Special mould fixing hole		○
Automatic tie bar extraction device		○
Self-lubricated bushes in tie bars		○
<b>Injection Unit</b>		
Nitrided alloy-steel screw and bimetallic barrel	●	
Nozzle PID temperature control	●	
Double-carriage cylinder	●	
Screw cold start protection function	●	
Automatic purging	●	
Selectable suck-back before or after plasticizing	●	
Multi-stage barrel PID temperature control.	●	
Automatic injection and plasticizing failure detection	●	
Precision injection/plasticizing transducer	●	
6-stage injection speed / pressure /position	●	
5-stage holding pressure speed / pressure / time control	●	
5-stage plasticizing speed / pressure / time control	●	
Screw speed detection	●	
Extended nozzle	●	
Purge guard (with safety switch)	●	
Proportional back pressure control	●	
Linear guide rail	●	
Ceramic heater band	●	
Special screw unit (PET/ PA/PC/ PMMA/ TPU/ UPVC)		○
Bi-metallic barrel unit		○
Blowing device of barrel		○
Spring shut-off nozzle		○
Magnetic grate base (with magnetic grates)		○
Electric plasticizing		○
Hydraulic shut-off nozzle		○
Pneumatic shut-off nozzle		○
<b>Hydraulic System</b>		
Servo pump system	●	
Precision by-pass oil filter	●	
System pressure and flow calibration	●	
Imported hydraulic control valve	●	
Imported sea	●	
Oil temperature detection and alarm	●	

※All data on the page comes from YIZUMI factory, please refer to the actual customized equipment;

	Standard	Optional
Low-noise hydraulic system	●	
Hydraulic oil cooling device	●	
Safety retention device for high-pressure hydraulic hose	●	
Oil level detection	●	
A set of core pull device with extra interface for stationary platen	●	
A set of core pull device with extra interface for moving platen	●	
Oil pre heating function	●	
Independent oil temperature control system	●	
Synchronized ejection and core pull	●	
Unscrewing device		○
High response servo injection system		○
High response servo mold opening and closing system		○
Plasticizing during mold opening		○
Enlarged oil cooler		○
One size larger oil pump and motor		○
Extra hydraulic core pull		○
Extra hydraulic unscrewing		○
<b>Electrical System</b>		
EU67 robot interface	●	
Input / output inspection function	●	
Automatic heat retaining and automatic heating setting	●	
Time / position / time + position control of switchover to hold pressure	●	
Independent adjustment of the action slope	●	
Core-pull/ unscrewing program interface	●	
Processes data locking function	●	
12" TFT color LCD	●	
Operating languages: Chinese, English, Spanish and Portuguese	●	
Three-color alarm light	●	
Color mixing signal interface	●	
Electrical unscrewing device and interface		○
Hot runner interface and connector		○
Air-assisted injection device and connector		○
Air bow device		○
Power supply voltage change		○
Extra automatic safety door		○
Clamping force testing and display		○
Sequential injection valve gate		○
Central (networked) monitoring system		○
<b>Other</b>		
Operation manual	●	
Leveling pad	●	
Hand tools / Hand tools box	●	
Filter element	●	
Standard hopper	●	
Spare parts (details as per sales contract)	●	
Mold temperature controller		○
Auto loader		○
Dehumidifier		○
Chiller		○
Drying hopper		○
Water flow regulator		○
PET preform mold		○
Thin-wall packaging mold		○