THINK TECH FORWARD





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- Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.







INJECTION MOLDING MACHINE

THINK TECH FORWARD

P-E Series Electric High-speed Injection Molding Solution

In response to the market demand for thin-wall injection-molded products, YIZUMI has developed an electric high-speed injection molding machine — P-E Series. The machine is capable of meeting the production requirements for high quality, high precision, and high efficiency. It provides customers with an efficient, energy-saving, stable, and clean injection molding system solution.

More accurate control

- Repeatability of mold-open end position \leq 0.02mm;
- Repeatability of injection \leq 0.05mm;
- Horizontal dual-carriage linear guide.

More stable operation

- Platen parallelism (with load) ≤ 0.05 mm;
- TBF (Tie Bar Free) technology with high stability, no pollution to the production environment;
- Unique large beveled crosshead toggles design, smoother force transmission;
- High-quality ball screw, fast and precise toggle movement..

More energy-saving control system

- Servo motors and high-efficiency transmission ensure good energy utilization of the equipment. Compared with ordinary injection molding machines, it can save energy by 30-50% (it may vary according to working conditions);
- Closed-loop temperature control has low deviation, reducing heat loss.



More highly-efficient production

- Improved plasticizing speed shortens cycle time;
- Built-in hydraulic pump station supports a variety of mold processes with great flexibility and efficiency;
- Dry cycle time of 2-2.6s. Faster dry cycle enables higher production efficiency.

Injection Unit



Injection speed:



Suitable for thin-wall products. Problems like flash, flow lines could be avoided.

500mm/s

Suitable for ultra-thin wall products. Shorter cycle time to prevent product deformation after cooling.



Appropriate screw and barrel components

Professional screw and barrel components will be selected according to the characteristics of different raw materials and production processes to ensure the plasticizing quality.



Horizontal double-carriage design

- Effectively eliminate rotary torque to ensure a reliable and stable injection;
- No unnecessary friction. Fast forward and backward.









Be 107.33 mm @ 127.6 mm @ 0 pr @ 0.3/Vpa @ 0 bar @ 1% YIZUMI 4 Robert - M # # & m = 4 → △ ♣

Closed-loop injection pressure control technology

- Provide more accurate control for more stable, reliable and precise molding;
- The stability precision of injection pressure and holding pressure is at ±0.02Mpa.

Lieating zones								Icpper		
	28.0	0.0	0.0	0.0	0.0	è			Ψ.	+
Set	250.0	253.0	253.0	25J.0	250.0 9	- ↔		temperati	60.0 *::	25 1
I al. high	10.0	13.0	13.0	13.0	10.0 *			Start cocl	CC 0 *C	-
Tol. low	10.0	110	110	1:10		<₽		Stop cool	C* [C.33]	1002
tuq%.O	0.0	3.0	3.0	0.C	0.0 9	i i		Coper		1 1
Heating Setting										Setting
Cool prevent time		uj	15	min	Auto	witch stan	daytme	u] [2 min	Autobe
Standby temperature			180.D	*c	Auto	witch off tir	ne 🗍	0	30 min	Dist
Keep warm										HotRu
										002
Cut off heating when o	ut off upp	er Tal	✓							Setting DAD
										Male Le
	₩	₩	1	3	-00-	000	\$	-		+
Cvervew Mold	niaction	Plast	ie I N	izzle	Heat	Options	Sellir c	0	Alam	Relu

Closed-loop temperature control

Static deviation: ±0.5°.

Clamping Unit









Unique large beveled crosshead toggles design

- Large beveled structure can better transfer force from the tail toggle hole to the center of the platen to minimize the platen deformation;
- The overall optimization of toggle strength and rigidity.





Linear rail moving design for mold opening / closing

- The directional accuracy reaches 0.02mm;
- Fast and steady mold opening. Repeatability of mold opening positions ≤0.02mm.









- The clamping unit adopts the TBF (Tie Bar Free) technology for easy operation and maintenance;
- Keep the mold area clean to prevent product contamination.

Highly-rigid movable platen

- Offer great rigidity and uniform distribution of force;
- Suitable for injection molding with precision molds;
- Reduced platen deformation;
- Prolonged service life;
- Ensured product quality;
- Platen parallelism (after load) \leq 0.05mm;

Unique "SMART" mold protection feature

- Can detect very small obstacles and resistance;
- Reduce the extent of mold damage when there are foreign objects in the mold cavity or faulty operation occurs.



Dual-cylinder parallel ejection design

- Uniform force application for mold release;
- Can achieve functions such as synchronized ejection and various modes of ejector retraction , etc.

Control System



European KEBA2000 controller

- The powerful system is easy to operate and ideal for the high-performance solutions for electric injection molding machines;
- 15-inch HD color touchscreen display with clear and neat screen layout;
- Standard features: Process Quality Control (PDP), and Statistical Process Control (SPC);
- Oscilloscope with chart display function to record the curve of process data change;
- Centralized (networked) real-time remote operation and control;
- Advanced HW and SW systems to support Industry 4.0;
- 1ms scan cycle;
- 16 levels of user access management to ensure data security.







Unique servo direct control (SDC) technology

- Process algorithm independently developed by YIZUMI for the servo drive;
- Servo motor controls injection, plasticizing, clamping independently, allowing faster feedback, more responsive control, and improved control accuracy;
- More precise control of speed, position and pressure to meet the requirements of precision equipment.



Standardized wiring layout

Neat wiring and standardized interface layout for easy operation.

Application



Food Packaging

Cover a wide range of packaging for various food, beverages, plastic cutlery, IML packaging. Provide a variety of equipment and mold options. Offer production line turn-key delivery in collaboration with high-quality solution providers.

Cosmetics

Suitable for precision production of cosmetic pump, flip top cap, pull ring cap.

Disposable Medical Supplies

Injector, petri dish, vacuum tube, and other products. Provide clean, efficient, and stable system solutions.

Thin-wall Plastic Products

For plastic products with high L/T ratio and light weight, it can effectively improve production efficiency and product quality.

YIZUMI High-speed Packaging

Committed to providing the best cost-effective solution in the packaging industry.

P200E Electric High Speed

DESCRIPTION	UNIT	P200E							
International specification		430/2000		650/2000					
INJECTION UNIT									
Shot volume	cm ³	164	214	270	258	326	403		
Shot weight (PS)	g	150	197	249	237	300	370		
	OZ	5.3	6.9	8.8	8.4	10.6	13.1		
Screw diameter	mm	35	40	45	40	45	50		
Injection pressure	MPa	261	200	158	253	200	162		
Screw L:D ratio				22	2:1				
Max.injection speed	mm/s			300	/ 500				
Screw stroke	mm		170			205	5		
Screw speed (stepless)	r/min	0-400 0-350							
CLAMPING UNIT									
Clamping force	kN	2000							
Opening stroke	mm			5	00				
Space between bars (W×H)	mmxmm			520	*520				
Max. daylight	mm			10	50				
Mold thickness (MinMax)	mm			200	-550				
Hydraulic ejection storke	mm			15	50				
Ejector number		5							
Hydraulic ejection force	kN	55							
POWER UNIT									
Hydraulic system pressure	Мра			17	7.5				
Pump motor	kW	17							
Heating capacity	kW	11	13	15	16	18	21		
Number of temp control zones					5				
GENERAL UNIT									
Dry cycle time	S	2							
Oil tank capacity		130							
Machine dimensions (LxWxH)	mxmxm				.6*1.9				
Machine weight	Ton				.5				
	1011			7					

P200E Platen Dimension Drawings





P200E Layout Drawings











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P250E Electric High Speed

DESCRIPTION	UNIT	P250E					
International specification		430/2500		650/2500			
INJECTION UNIT							
Shot volume	cm3	164	214	270	258	326	403
Shot weight (PS)	g	150	197	249	237	300	370
Shot weight (FS)	OZ	5.3	6.9	8.8	8.4	10.6	13.1
Screw diameter	mm	35	40	45	40	45	50
Injection pressure	MPa	261	200	158	253	200	162
Screw L:D ratio				22	2:1		
Max.injection speed	mm/s			300 /	/ 500		
Screw stroke	mm		170			205	
Screw speed (stepless)	r/min	0-400 0-350			0-350		
CLAMPING UNIT							
Clamping force	kN	2500					
Opening stroke	mm			50	60		
Space between bars (W×H)	mmxmm			5803	*580		
Max. daylight	mm			110	60		
Mold thickness (MinMax)	mm			220-	-600		
Hydraulic ejection storke	mm	150					
Ejector number		5					
Hydraulic ejection force	kN			5	5		
POWER UNIT							
Hydraulic system pressure	Мра			17	7.5		
Pump motor	kW	17					
Heating capacity	kW	11	13	15	16	18	21
Number of temp control zones				ļ	5		
GENERAL UNIT							
Dry cycle time	S	2.2					
Oil tank capacity	I	130					
Machine dimensions (LxWxH)	mxmxm						
Machine weight	Ton	6.7*1.7*2.3					

P250E Platen Dimension Drawings





P250E Layout Drawings











Clamping Unit

P300E Electric High Speed

DESCRIPTION	UNIT	P300E					
International specification		650/3000		1000/3000			
INJECTION UNIT							
Shot volume	cm3	258	326	403	461	558	664
Shot weight (PS)	g	237	300	370	425	514	611
Shot weight (P3)	oz	8.4	10.6	13.1	15.0	18.1	21.6
Screw diameter	mm	40	45	50	50	55	60
Injection pressure	MPa	253	200	162	218	180	151
Screw L:D ratio				22	: 1		
Max.injection speed	mm/s			300 /	/ 500		
Screw stroke	mm		205			235	
Screw speed (stepless)	r/min	0-350 0-320					
CLAMPING UNIT							
Clamping force	kN	3000					
Opening stroke	mm			6	10		
Space between bars (W×H)	mmxmm			635	*635		
Max. daylight	mm	1260					
Mold thickness (MinMax)	mm			250	-650		
Hydraulic ejection storke	mm			15	50		
Ejector number		5					
Hydraulic ejection force	kN			5	5		
POWER UNIT							
Hydraulic system pressure	Мра			17	7.5		
Pump motor	kW	17					
Heating capacity	kW	16	18	21	24	26.5	29.5
Number of temp control zones				ļ	5		
GENERAL UNIT							
Dry cycle time	S	2.4					
Oil tank capacity		130					
Machine dimensions (LxWxH)	mxmxm				8*2.4		
Machine weight	Ton				2.5		

P300E Platen Dimension Drawings



P300E Layout Drawings







Model	A	В	U	U	E
	300	420	35	175	M20 Depth 40
P300E	F	G	H	P1	P
	1940	2079	1440	810	857



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P350E Electric High Speed

DESCRIPTION	UNIT	P350E					
International specification		650/3500		1000/3500			
INJECTION UNIT							
Shot volume	cm3	258	326	403	461	558	664
Shot weight (PS)	g	237	300	370	425	514	611
	OZ	8.4	10.6	13.1	15.0	18.1	21.6
Screw diameter	mm	40	45	50	50	55	60
Injection pressure	MPa	253	200	162	218	180	151
Screw L:D ratio				22	2:1		
Max.injection speed	mm/s			300	/ 500		
Screw stroke	mm		205			235	
Screw speed (stepless)	r/min	0-350 0-320					
CLAMPING UNIT							
Clamping force	kN	3500					
Opening stroke	mm			70	00		
Space between bars (W×H)	mmxmm			730	*730		
Max. daylight	mm			14	50		
Mold thickness (MinMax)	mm			300	-750		
Hydraulic ejection storke	mm	200					
Ejector number		5					
Hydraulic ejection force	kN			9	9		
POWER UNIT							
Hydraulic system pressure	Мра			17	7.5		
Pump motor	kW	25					
Heating capacity	kW	16	18	21	24	26.5	29.5
Number of temp control zones				ļ	5		
GENERAL UNIT							
Dry cycle time	S	2.6					
Oil tank capacity		130					
Machine dimensions (LxWxH)	mxmxm	7.5*2.3*2.4					
Machine weight	Ton	1.5*2.3*2.4					

P350E Platen Dimension Drawings



P350E Layout Drawings







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Standard and Optional Features

	Standard	Optional
Injection Unit		
Injection safety protection device (detection switch)	•	
Nitrided alloy-steel high-plasticizing screw and barrel	•	
Double-cylinder	•	
5-stage injection speed / pressure / position control	•	
3-stage holding pressure speed / pressure / time control	•	
3-stage plasticizing speed / back pressure / position control	•	
Selectable suck-back degree before or after plasticizing	•	
Pre-injection delay function	•	
Pre-molding delay	•	
Synchronous heating function	•	
Preheating function	•	
Resin retention prevention function	•	
Screw cold start prevention	•	
Automatic purging	•	
Injection pressure zero point correction function	•	
Real time display function of plasticizing speed	•	
Real time display function of plasticizing back pressure	•	
Ejection device movement setting (switch detection, movement time)	•	
High output nozzle contact device (configurable)	•	
Thermal insulation function	•	
Temperature optimization function	•	
Purge guard (with electrical protection)	•	
Ceramic heater band	•	
Extended nozzle		0
Special screw set		0
Spring shut-off nozzle		0
Stainless steel hopper		0
Blowing device of barrel		0

	Standard	Optional
Control System		
Highly sensitive 15"TFT color touch screen	•	
Memory of molding conditions (over 500 items)	•	
One set of USB standard read and write ports operation panel	•	
Multiple operating languages (Chinese and English)	•	
Real time display of molding data (200 pieces, and 5000 pieces can be saved in files)	•	
Operation modification record	•	
Alarm record	•	
Switching between international units (Metric and Imperial System)	•	
I/O detection display function	•	
Printer connection port (USB17)	•	
Molding cycle monitoring function	•	
Production management function	•	
PDP data and charts	•	
Injection quality detection function	•	
Analog-to-digital register	•	
Molding temperature monitoring function	•	
Three-color alarm light	•	
Low-pressure mold protection curve detection function	•	
Alarm buzzer	•	
Injection pressure protection function	•	
Quality exception alarm processing function	•	
Real-time display of servo action curves for injection and plasticizing	•	
Actual value display function	•	
Exception handling selection function	•	
Product quality monitoring function	•	
Mold opening and closing, ejector curve functions	•	
Injection process curve monitoring function	•	
Air blow device	•	
Euromap 12 robot interface		0
Euromap 67 robot interface		0
Other languages		0
Additional cooling water circuit		0
Heater disconnection detection function		0
External transformer		0
Electrical interface for cavity pressure detection		0
Mold temperature display and control		0
OPC UA/DA		0

Standard and Optional Features

	Standard	Optional	
Clamping Unit			
5-stage mold opening and closing program control	•		
Movable platen , linear guide rail for mold moving	•		
Ejector progressive function	•		
Ejector return delay monitoring function	•		
Mold height adjustment function	•		
Mold opening and closing, ejector curve functions	•		
Low-pressure mold protection function (Ai high sensitivity mold protection)	•		
Mold adjustment mode, low-speed low-pressure mold opening and closing function	•		
Ejection function in-mold (in-mold cutting function)	•		
Mold opening and ejector return synchronization function	•		
Ejector return signal confirmation function	•		
Selection of ejector action modes (four modes)	•		
Multiple ejector control functions	•		
Ejector delay function	•		
Mold cooling water distributor	•		
Design of adding anti-pinch and buffer strips on the side of the machine door	•		
Emergency stop function (operation side and non-operation side)	•		
Centralized lubrication	•		
Opening and closing slope control (high, medium, and low modes)	•		
Blowing function (multiple sets of electrical interfaces)	•		
Hydraulic ejector	•		
Various positioning rings		0	
Pneumatic ejection device		0	
Pneumatic neutron device		0	
Increased mold thickness		0	
Heat insulating plate for mold		0	
Special mold mounting hole		0	

	Standard	Optional
Hydraulic System		
Servo power system	•	
Automatic system pressure and flow adjustment	•	
High-performance hydraulic control valve	•	
Imported hydraulic seal	•	
Low-noise hydraulic system	•	
Hydraulic oil temperature detection and high/low temperature alarm	•	
Multiple water line devices	•	
Unscrewing unit		0
Additional hydraulic core pulling		0
Other		
Operation manual	•	
Adjustable leveling pad	•	
A tool kit	•	
Mold clamp	•	
Hopper	•	
Filter element		0
Energy-saving heat retaining device for barrel		0
Hopper slider device (with roller)		0
Mold temperature controller		0
Auto loader		0
Dehumidifier		0
Glass-tube water flowmeter		0

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