THINK TECH FORWARD





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[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.

- [2] The picture in the catalogue is for reference only. The real object should be considered as final.
- [3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.
- Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.





THINK TECH FORWARD

One-stop service Address customer's pain points and solve the issues



Communication of Product Concept

Customers provide the concept of product requirements. The professionals from YIZUMI will assist customers in the design and development of the product to improve customers' production efficiency and product competitiveness.

Overall Planning

The professionals from YIZUMI will provide customers with capacity assessment, equipment and production line integration, manufacturing facility planning and other total solutions.

Connected Production

YIZUMI offers full-process control over in-plant wiring, equipment, mold, and automation from manufacturing to integration testing to eliminate integration risks. The system can be put into production as soon as it arrives.

YFO Exclusive Services

With the service concept throughout the entire process, YIZUMI is committed to reduce downtime by focusing on details. Improving the productivity of customers is our ultimate goal.





Overview Design of PAC Series Machine

Robust Toggles

The overall optimized design of toggle strength and rigidity greatly improves the stability of the clamping and effectively extends the service life of the machine.

Unique Large Beveled **Cosshead 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, ensure the uniformity of force applied on the platens and mold, extend the service life, and make certain the quality of products.

Optimized Control Program

Selecting the high-quality hydraulic components to reduce response time, oil circuit impact, and overall machine noise. Machine will go through a number of tests and optimizing adjustments to meet the high quality requirements.

Single Cylinder **Injection Unit**

The compact single cylinder injection structure renders features such as small movement inertia, short acceleration time, and high repetitive accuracy of injection. It can be adapted to a variety of injection units according to different product processing requirements.

High-rigid Machine Frame

The Steel I-Beam type machine frame provides sufficient rigidity to ensure a smooth and vibration-free operation at high speed.

High-rigid and Low **Deformation Platens**

The adoption of reinforced platen design according to the characteristics of thin-walled packaging products. With perfect combination of strength and rigidity, while minimize the platen deformation, it maintains a flexible and smooth movement.

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Horizontal Dual-carriage Design

The adoption of horizontal dual-carriage cylinder design effectively eliminates the turning torque of the injection mechanism and ensures a stable and reliable injection.

Optimized Cylinder Sealing Structure

Based on many years of manufacturing experience and the characteristics of oil circuit in high-speed single cylinder devices, the cylinder sealing structure is further optimized to ensure the durability of the injection unit and avoid oil leakage.

Efficient Power Output

Power output is optimized to realize the step distribution of 150-800mm/s injection speed.

Optional Features

Customized Control System



Ejector-on-Fly

Ejetor while mold opening to shorten the production cycle time.



High-speed Mold Opening /Closing Proportional Valve

Further reduce the reaction time. Double the repetitive accuracy of mold opening ends and increase the operating speed of mold opening/closing by 15%-20%, suitable for the production of various precision thin-walled products.



Linear Guide Rails

Reduce the friction from movable platen to further lower energy consumption, improve operating speed and shorten the production cycle time.



Electric Dozing Motor

Reduce production cycle time through parallel operation. Driven by servo motor, the dozing motor has higher energy conversion efficiency and saves more energy.



Control System

Optional with KEBA controller, user-friendly interface and fast response make operation more comfortable and convenient.







nozzle drooling.

Use of Appropriate Screw and Barrels Select from a variety of

professional screw and barrels according to the characteristics of different raw materials and production processes to ensure the plasticizing quality.



The infrared heater band reduces the heat loss by 30%-68%.

Servo Injection with Accumulator

Increase the injection speed up to 800m m/s and double the repetitive accuracy of injection. It is capable to produce thinner and more sophisticated products while shortening the injection time and improving the production efficiency.

Shut-off Nozzle Choose the long-lasting precision shut-off nozzle. Effectively avoid

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KEBA industrial controller

Electrical System

- help to achieve more stable product quality.
- processes accordingly.
- with the peripheral equipment barrier-free.



MIRLE industrial controller

• Faster processing speed, optimized control rate, and outstanding repetitive accuracy

• Bright, full color 10-inch touch screen input and easy-to-use operation page.

• Multi-stage injection and plasticizing function pages are easy to use and improve

The production management and production monitoring functions can communicate

• Online quality monitoring function and injection molding industry 4.0.

Thin-wall mold

We can offer customized mold for thin wall injection molding according to customer specific requirements, to better meet diversified demand.









Applications





Food Packaging

Cover a wide range of packaging for various food, beverages, cheese, disposable take-out food containers, 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.

Various Types of Bottle Caps

Can make all kinds of bottle caps including beverage bottle seal caps, pull-off caps, folding caps, dustproof caps, etc. With the special kit for bottle cap machine to meet the requirements of precision bottle cap production.

PAC Series serves at



Disposable Medical Supplies

Injector, pipet tips, petri dish, and other products. Provide clean, efficient, and stable system solutions.

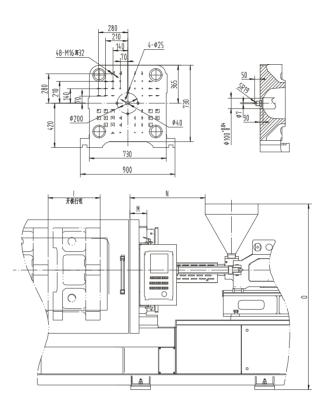
Various Types of Thin-Walled Plastic Products

Such as 5L-20L industrial sealed barrels, all types of logistics cable ties, and multi-cavity silicon sealant barrels. For plastic products with high flow length ratio and light gram weight, it can effectively improve the productivity and product quality.

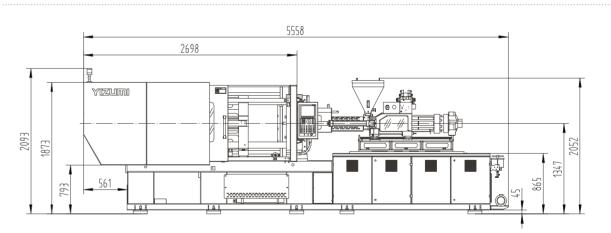
PAC150 High-speed Injection Molding Machine

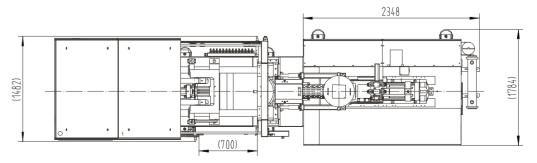
DESCRIPTION	UNIT	PAC150					
International specification		440/1500		640/	/1500		
INJECTION UNIT							
Shot volume	cm ³	221	280	334	412		
Shot weight (PS)	g	203	258	307	379		
	OZ	7.2	9.1	10.8	13.4		
Screw diameter	mm	40	45	45	50		
Injection pressure	MPa	199	158	194	158		
Screw L:D ratio			22	2:1			
Max.injection speed $\textcircled{1}$	mm/s	150/23	30/290	120/1	90/235		
Max.injection speed with accumulator	mm/s	5	00	5	500		
Nozzle stroke	mm		40	00			
Screw stroke	mm	1	76	2	210		
Screw speed (stepless)	r/min	0-300					
CLAMPING UNIT							
Clamping force	kN	1500					
Opening stroke	mm	420					
Space between bars (WxH)	mmxmm		455>	(455			
Max. daylight	mm		87	70			
Mold thickness (MinMax.)	mm		150-	450			
Hydraulic ejection stroke	mm		14	0			
Ejector number			Ę	5			
Hydraulic ejection force	kN		7	7			
POWER UNIT							
Hydraulic system pressure	Мра		17	.5			
Pump motor	kW		23/45	5.2/55			
Pump motor with accumulator	kW	45.:	2+11	45.	2+22		
electric screw drive	kW		16				
Heating capacity	kW	1	11	11	16.5		
Number of temp control zones			Ę				
GENERAL UNIT							
Dry cycle time	S		1.	8			
Oil tank capacity			37				
Machine dimensions(LxWxH)	mxmxm		5.6x1.				
Machine weight	Ton		7.	8			

PAC150 Platen Dimension Drawings

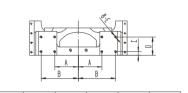


PAC150 Layout Drawings

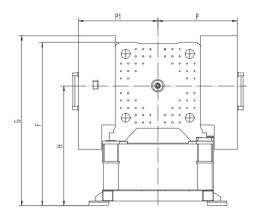




① : Servo/Standard Servo/Amplified Servo



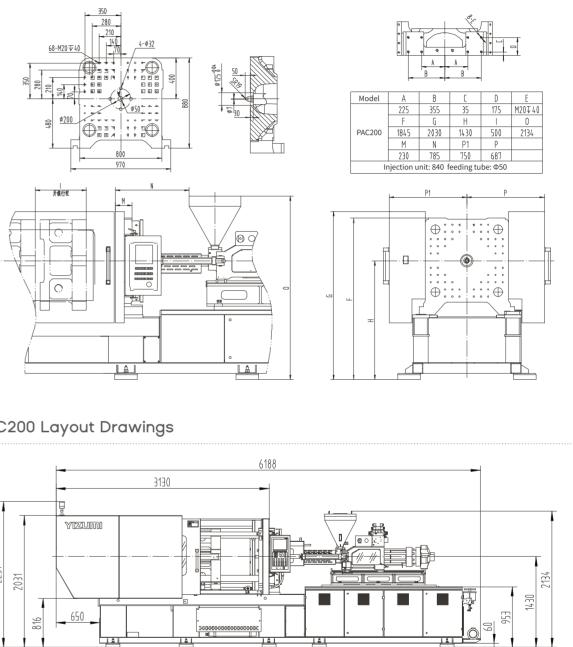
Model	A	В	(D	E		
	210	320	35	175	M16∓32		
	F	G	Н		0		
PAC150	1717	1817	1347	420	2055		
	М	N	P1	Р			
	210	785	690	642			
Injection unit: 440 feeding tube: Φ40							

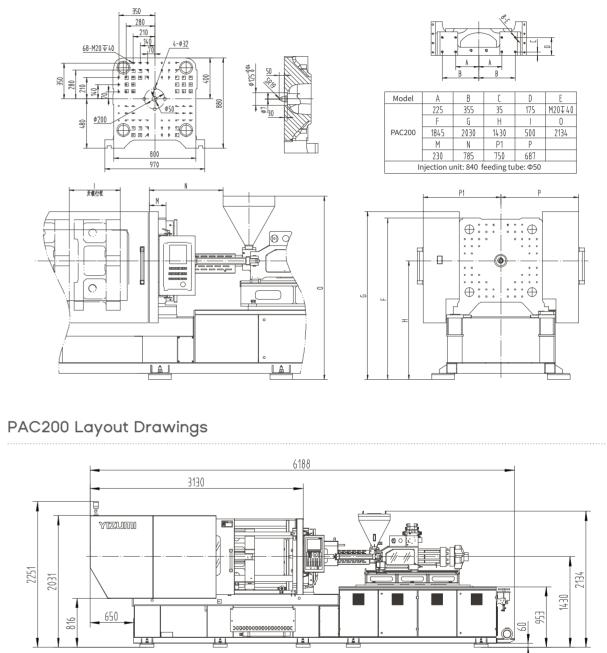


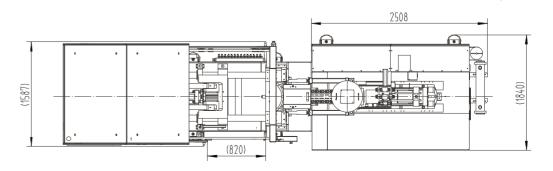
PAC200 High-speed Injection Molding Machine

DESCRIPTION	UNIT	PAC200					
International specification		440	440/2000		/2000		
INJECTION UNIT							
Shot volume	CM ³	221	280	334	412		
Shot weight (PS)	g	203	258	307	379		
	OZ	7.2	9.1	10.8	13.4		
Screw diameter	mm	40	45	45	50		
Injection pressure	MPa	199	158	194	158		
Screw L:D ratio			22	2:1			
Max.injection speed $\textcircled{1}$	mm/s	185/23	30/290	150/1	90/235		
Max.injection speed with accumulator	mm/s	5	00	Ę	500		
Nozzle stroke	mm		4(00			
Screw stroke	mm	1	76		210		
Screw speed (stepless)	r/min	0-300					
CLAMPING UNIT							
Clamping force	kN		20	00			
Opening stroke	mm	500					
Space between bars (WxH)	mmxmm		520>	×520			
Max. daylight	mm		10	50			
Mold thickness (MinMax.)	mm		200-	-550			
Hydraulic ejection stroke	mm		15	50			
Ejector number			Ę	5			
Hydraulic ejection force	kN		7	7			
POWER UNIT							
Hydraulic system pressure	Мра		17	.5			
Pump motor	kW		33.9/4	5.2/55			
Pump motor with accumulator	kW	45.2	2+11	45	.2+22		
electric screw drive	kW			.4			
Heating capacity	kW	1	1	11	16.5		
Number of temp control zones			ŗ	5			
GENERAL UNIT							
Dry cycle time	S		2	2			
Oil tank capacity	I		40	60			
Machine dimensions(LxWxH)	mxmxm			5x2.25			
Machine weight	Ton			.3			
	1011		7.	.0			

PAC200 Platen Dimension Drawings







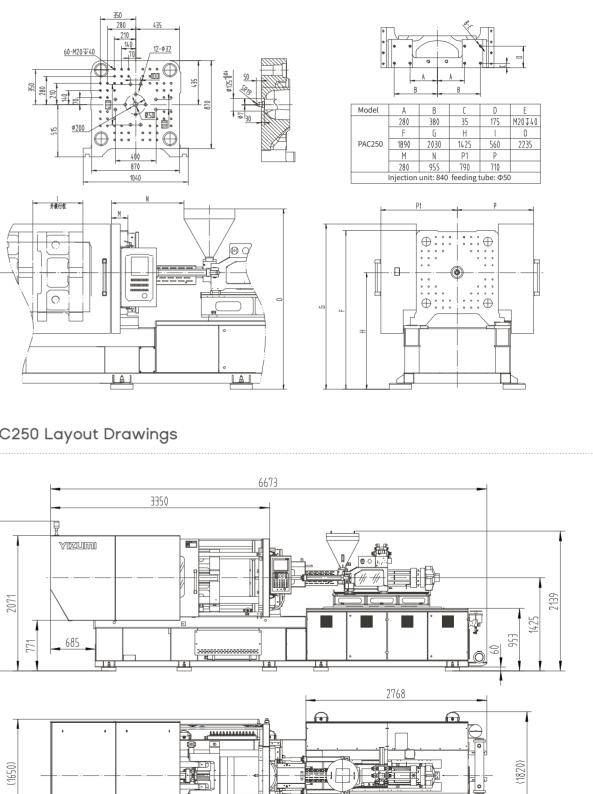
① : Servo/Standard Servo/Amplified Servo

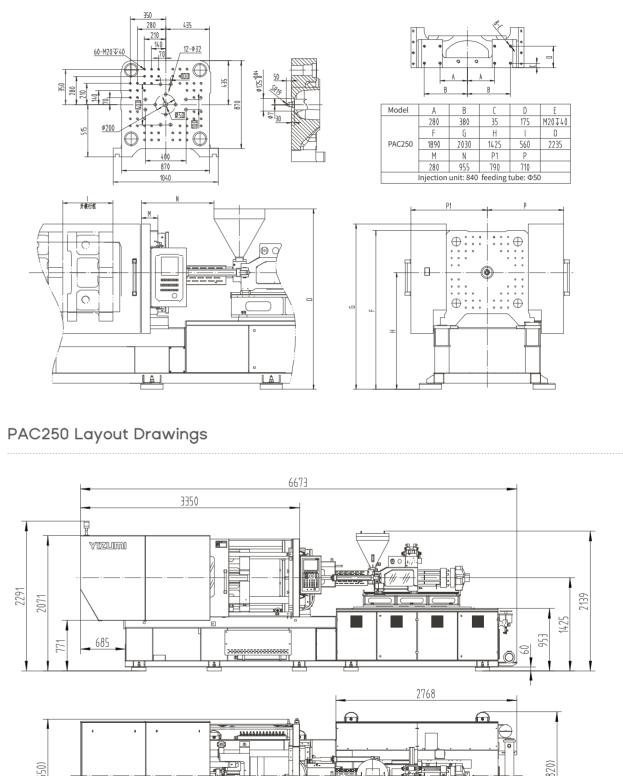
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PAC250 High-speed Injection Molding Machine

DESCRIPTION	UNIT			PAC	250				
International specification		440/	440/2500		640/2500		40/250	0	
INJECTION UNIT									
Shot volume	cm ³	221	280	334	412	442	535	636	
Shot weight (PS)	g	203	258	307	379	406	492	585	
-	OZ	7.2	9.1	10.8	13.4	14.3	17.3	20.6	
Screw diameter	mm	40	45	45	50	50	55	60	
Injection pressure	MPa	199	158	194	158	191	158	132	
Screw L:D ratio				22	2:1				
Max.injection speed $\textcircled{1}$	mm/s	185/	290	150/	235		125/195	5	
Max.injection speed with accumulator	mm/s	50	00	50	00		500		
Nozzle stroke	mm		4(00			450		
Screw stroke	mm	17	176 210				225		
Screw speed (stepless)	r/min	0-300							
CLAMPING UNIT									
Clamping force	kN	2500							
Opening stroke	mm			50	50				
Space between bars (WxH)	mmxmm			580>	<580				
Max. daylight	mm			110	50				
Mold thickness (MinMax.)	mm			220-	-600				
Hydraulic ejection stroke	mm			18	80				
Ejector number				1	3				
Hydraulic ejection force	kN			13	37				
POWER UNIT									
Hydraulic system pressure	Мра			17	.5				
Pump motor	kW			33.9	/55				
Pump motor with accumulator	kW	45.2	2+11	45.2	+22		45.2+2	2	
electric screw drive	kW		16	.4			20		
Heating capacity	kW	1	1	1	1	16.5	22	24.8	
Number of temp control zones				Ę	5				
GENERAL UNIT									
Dry cycle time	S			2	.2				
Oil tank capacity	I			48					
Machine dimensions(LxWxH)	mxmxm				32x2.3				
Machine weight	Ton			10					
	1011			10					

PAC250 Platen Dimension Drawings







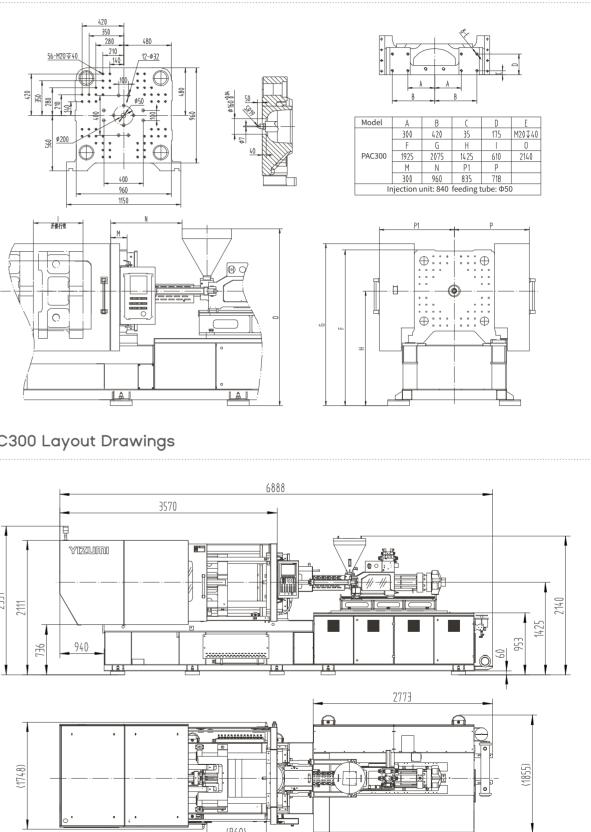
① : Servo/Standard Servo

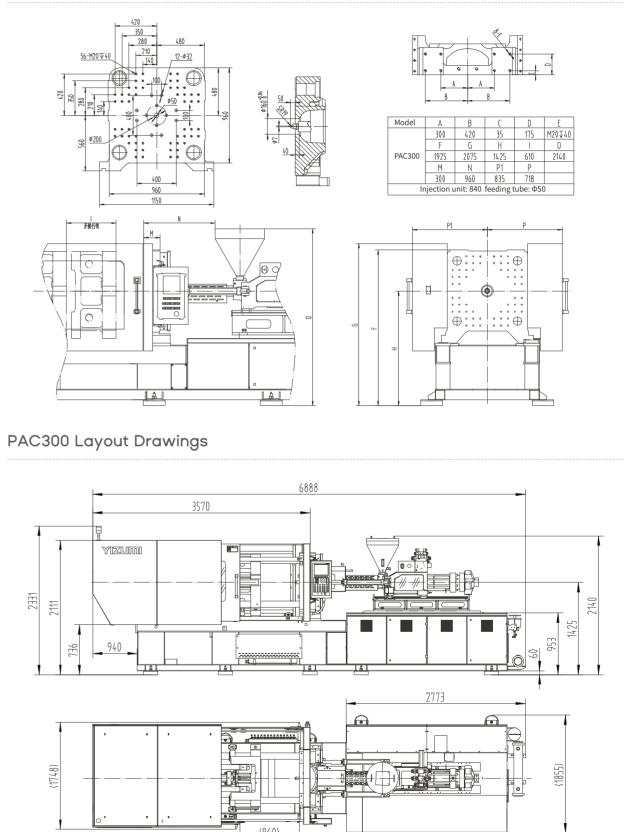
PAC300 High-speed Injection Molding Machine

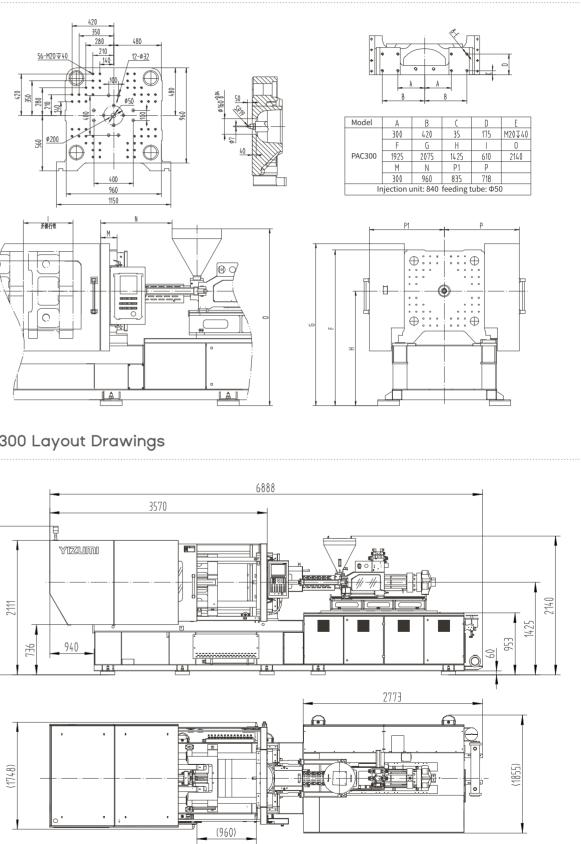
DESCRIPTION	UNIT	PAC300								
International specification		8	840/3000			1080/3000			1480/3000	
INJECTION UNIT										
Shot volume	cm ³	442	535	636	491	594	707	763	896	1039
Shot weight (PS)	g	406	492	585	452	546	650	702	824	956
	OZ	14.3	17.3	20.6	15.9	19.3	22.9	24.8	29.1	33.7
Screw diameter	mm	50	55	60	50	55	60	60	65	70
Injection pressure	MPa	191	158	132	227	187	158	194	166	143
Screw L:D ratio						22:1				
Max.injection speed $\textcircled{1}$	mm/s	19	5/280/3	350	16	5/235/2	295	13	0/190/2	240
Max.injection speed with accumulator	mm/s		500			500			500	
Nozzle stroke	mm					450				
Screw stroke	mm		225			250			270	
Screw speed (stepless)	r/min					0-300				
CLAMPING UNIT										
Clamping force	kN					3000				
Opening stroke	mm					610				
Space between bars (WxH)	mmxmm					635x63	5			
Max. daylight	mm					1260				
Mold thickness (MinMax.)	mm					250-650	C			
Hydraulic ejection stroke	mm					180				
Ejector number						13				
Hydraulic ejection force	kN					137				
POWER UNIT										
Hydraulic system pressure	Мра					17.5				
Pump motor	kW				55/45.2	2+33.9/	55+45.2)		
Pump motor with accumulator	kW		55+22				55-	+22		
electric screw drive	kW		20			29			29	
Heating capacity	kW	16.5	22	24.8	16.5	22	24.8	22.6	24	27
Number of temp control zones						5				
GENERAL UNIT										
Dry cycle time	S					2.3				
Oil tank capacity						600				
Machine dimensions(LxWxH)	mxmxm				6.9	x1.86x2	.35			
Machine weight	Ton				0.7	12.5				
	TUT					12.0				

① : Servo/Standard Servo/Amplified Servo

PAC300 Platen Dimension Drawings







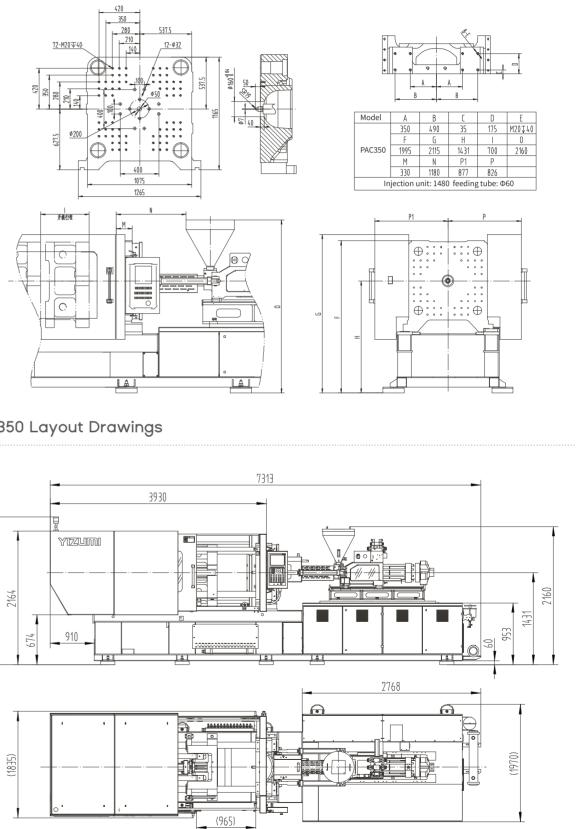
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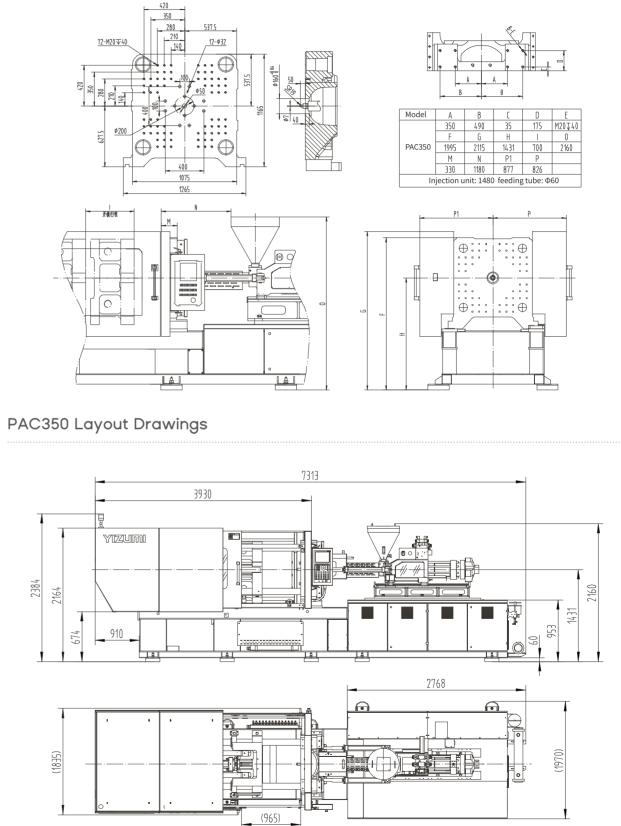
PAC350 High-speed Injection Molding Machine

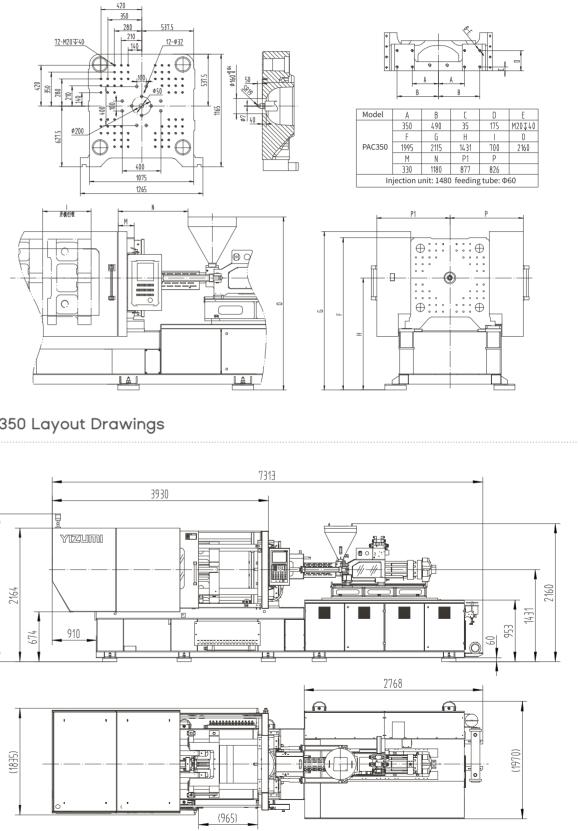
DESCRIPTION	UNIT	PAC350								
International specification		10	1080/3500			1480/3500			2180/3500	
INJECTION UNIT										
Shot volume	CM ³	491	594	707	763	896	1039	891	1212	1583
Shot weight (PS)	g	452	546	650	702	824	956	819	1115	1457
	OZ	15.9	19.3	22.9	24.8	29.1	33.7	28.9	39.3	51.4
Screw diameter	mm	50	55	60	60	65	70	60	70	80
Injection pressure	MPa	227	187	158	194	166	143	246	181	138
Screw L:D ratio						22:1				
Max.injection speed $\textcircled{1}$	mm/s	16	0/270/3	325	13	0/220/2	265	10	5/170/2	210
Max.injection speed with accumulator	mm/s		500			500			500	
Nozzle stroke	mm					450				
Screw stroke	mm		250 270					315		
Screw speed (stepless)	r/min	0-300						0-250		
CLAMPING UNIT										
Clamping force	kN	3500								
Opening stroke	mm	700								
Space between bars (WxH)	mmxmm	730×730								
Max. daylight	mm					1450				
Mold thickness (MinMax.)	mm				;	300-750	C			
Hydraulic ejection stroke	mm					200				
Ejector number						13				
Hydraulic ejection force	kN					137				
POWER UNIT										
Hydraulic system pressure	Мра					17.5				
Pump motor	kW				55/55	5+33.9/	55+55			
Pump motor with accumulator	kW		55+22				55-	+30		
electric screw drive	kW		29			29			42	
Heating capacity	kW	16.5	22	24.8	22.6	24	27	30	32	35
Number of temp control zones	NY					5				
GENERAL UNIT										
Dry cycle time	S					2.6				
Oil tank capacity						700				
Machine dimensions(LxWxH)	mxmxm				7.3	5x1.97x	2.4			
Machine weight	Ton					15				
		15								

① : Servo/Standard Servo/Amplified Servo

PAC350 Platen Dimension Drawings



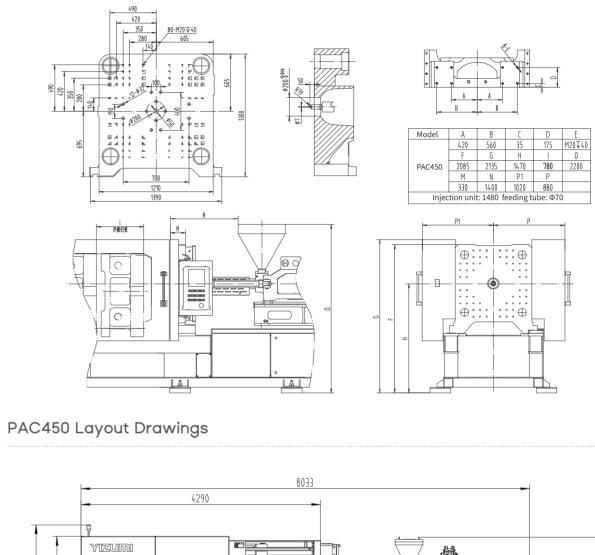


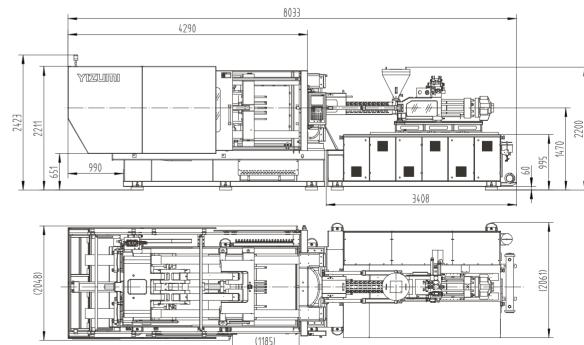


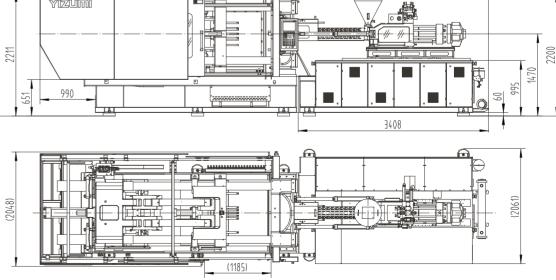
PAC450 High-speed Injection Molding Machine

DESCRIPTION	UNIT	PAC450								
International specification		1080/4500			14	1480/4500			2180/4500	
INJECTION UNIT										
Shot volume	CM ³	491	594	707	763	896	1039	891	1212	1583
Shot weight (PS)	9	452	546	650	702	824	956	819	1115	1457
	OZ	15.9	19.3	22.9	24.8	29.1	33.7	28.9	39.3	51.4
Screw diameter	mm	50	55	60	60	65	70	60	70	80
Injection pressure	MPa	227	187	158	194	166	143	246	181	138
Screw L:D ratio						22:1				
Max.injection speed $\textcircled{1}$	mm/s	16	0/330/3	370	130	0/265/3	300	10	5/210/2	240
Max.injection speed with accumulator	mm/s		500			500			500	
Nozzle stroke	mm					450				
Screw stroke	mm		250			270			315	
Screw speed (stepless)	r/min			0-3	800				0-250	
CLAMPING UNIT										
Clamping force	kN	4500								
Opening stroke	mm					780				
Space between bars (WxH)	mmxmm				8	820x82	0			
Max. daylight	mm					1580				
Mold thickness (MinMax.)	mm					300-80	0			
Hydraulic ejection stroke	mm					220				
Ejector number						13				
Hydraulic ejection force	kN					137				
POWER UNIT										
Hydraulic system pressure	Мра					17.5				
Pump motor	kW				55/5	5+55/5	5+63			
Pump motor with accumulator	kW			55-	+22				55+30	
electric screw drive	kW		29			29			42	
Heating capacity	kW	16.5	22	24.8	22.6	24	27	30	32	35
Number of temp control zones						5				
GENERAL UNIT										
Dry cycle time	S					3.5				
Oil tank capacity	I					750				
Machine dimensions(LxWxH)	mxmxm				8.	1x2.1x2.	45			
Machine weight	Ton					22				
0		22								

PAC450 Platen Dimension Drawings







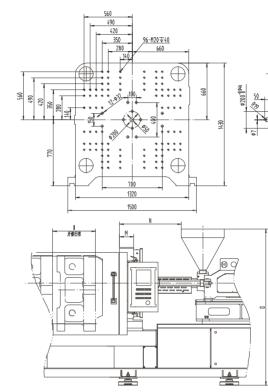
① : Servo/Standard Servo/Amplified Servo

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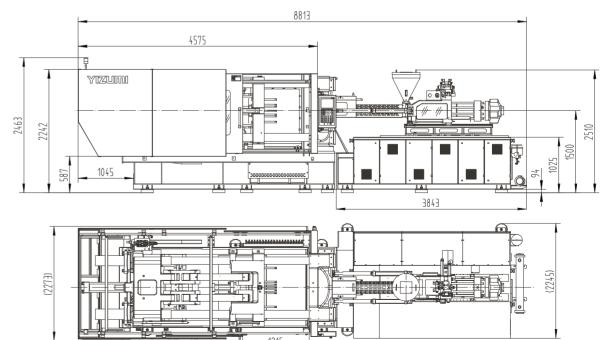
PAC550 High-speed Injection Molding Machine

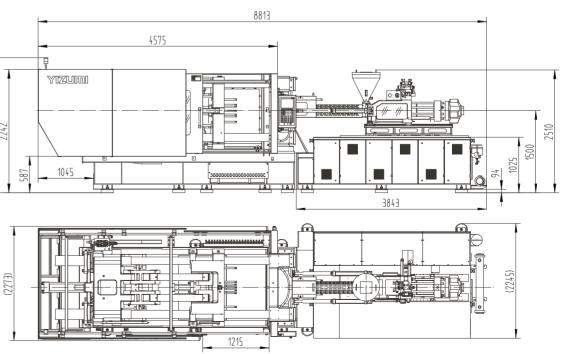
DESCRIPTION	UNIT	PAC550								
International specification		14	1480/5500		2180/5500			З	3300/5500	
INJECTION UNIT										
Shot volume	CM ³	763	896	1039	891	1212	1583	1366	1784	2258
Shot weight (PS)	g	702	824	956	819	1115	1457	1257	1642	2078
	OZ	24.8	29.1	33.7	28.9	39.3	51.4	44.3	57.9	73.3
Screw diameter	mm	60	65	70	60	70	80	70	80	90
Injection pressure	MPa	194	166	143	246	181	138	241	185	146
Screw L:D ratio						22:1				
Max.injection speed $\textcircled{1}$	mm/s		170/340	C		130/270	C		100/200	C
Max.injection speed with accumulator	mm/s		500			500			500	
Nozzle stroke	mm					450				
Screw stroke	mm		270			315			355	
Screw speed (stepless)	r/min		0-300			0-250			0-220	
CLAMPING UNIT										
Clamping force	kN					5500				
Opening stroke	mm					850				
Space between bars (WxH)	mmxmm				(920x920	0			
Max. daylight	mm					1700				
Mold thickness (MinMax.)	mm					350-850	D			
Hydraulic ejection stroke	mm					220				
Ejector number						13				
Hydraulic ejection force	kN					137				
POWER UNIT										
Hydraulic system pressure	Мра					17.5				
Pump motor	kW				6	63/63+6	3			
Pump motor with accumulator	kW		63+22			63+30			63+30	
electric screw drive	kW		29			42			60	
Heating capacity	kW	22.6	24	27	30	32	35	30	32	35
Number of temp control zones						5				
GENERAL UNIT										
Dry cycle time	S					4				
Oil tank capacity						900				
Machine dimensions(LxWxH)	mxmxm				8.9	x2.25x2	2.46			
Machine weight	Ton				2.77	25.5				
	1011	20.0								

PAC550 Platen Dimension Drawings

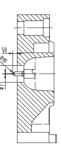


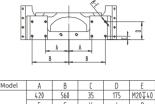
PAC550 Layout Drawings

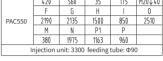


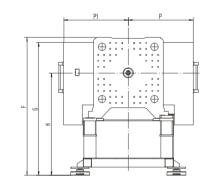


① : Servo/Standard Servo









Standard and Optional Features of PAC

Injection Unit	Standard	Optional
Nitrided alloy-steel screw and barrel		
Nozzle PID temperature control	•	
Double-cylinder	•	
Automatic material cleaning function	•	
Selectable suck-back before or after plasticizing	•	
Multi-stage barrel PID temperature control	•	
Purge guard (with safety switch)	•	
Precise transducer for injection / plasticizing stroke contr	ol	
Multi-stage injection speed / pressure /position control	•	
Multi-stage holding pressure speed / pressure / time con	trol	
Multi-stage plasticizing speed / pressure / time control	•	
Extended nozzle		\bigcirc
Hard chrome plated screw component		0
Bi-metallic screw & barrel		\bigcirc
Special screw set		\bigcirc
Proportional back pressure control		\bigcirc
Blowing device of barrel		0
Pneumatic/Hydraulic shut-off nozzle		\bigcirc
Increased injection stroke		\bigcirc
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Hydraulic System	Standard	Optional
	Standard ●	~
Hydraulic System	Standard • •	~
Hydraulic System High-performance servo pump system	Standard • •	~
Hydraulic System High-performance servo pump system Back pressure adjustment device of plasticizing	Standard • • • •	~
Hydraulic System High-performance servo pump system Back pressure adjustment device of plasticizing High-precision by-pass oil filter	Standard • • • • • • • •	~
Hydraulic SystemHigh-performance servo pump systemBack pressure adjustment device of plasticizingHigh-precision by-pass oil filterAutomatic system pressure and flow adjustment	Standard • • • • • • • • •	~
Hydraulic SystemHigh-performance servo pump systemBack pressure adjustment device of plasticizingHigh-precision by-pass oil filterAutomatic system pressure and flow adjustmentImported hydraulic valve	Standard • • • • • • • • • • • • •	~
Hydraulic SystemHigh-performance servo pump systemBack pressure adjustment device of plasticizingHigh-precision by-pass oil filterAutomatic system pressure and flow adjustmentImported hydraulic valveImported hydraulic seal	Standard • • • • • • • • • • • • •	~
Hydraulic SystemHigh-performance servo pump systemBack pressure adjustment device of plasticizingHigh-precision by-pass oil filterAutomatic system pressure and flow adjustmentImported hydraulic valveImported hydraulic sealSystem pressure sensorOil temperature detection and alarmLow-noise hydraulic system	Standard Standard	~
Hydraulic System High-performance servo pump system Back pressure adjustment device of plasticizing High-precision by-pass oil filter Automatic system pressure and flow adjustment Imported hydraulic valve Imported hydraulic seal System pressure sensor Oil temperature detection and alarm Low-noise hydraulic system Hydraulic cooling device	Standard	~
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Hydraulic SystemHigh-performance servo pump systemBack pressure adjustment device of plasticizingHigh-precision by-pass oil filterAutomatic system pressure and flow adjustmentImported hydraulic valveImported hydraulic sealSystem pressure sensorOil temperature detection and alarmLow-noise hydraulic systemHydraulic cooling deviceHydraulic core pulling/ unscrewing deviceIndependent oil temperature control systemHigh-response servo injection systemHigh-response servo mold opening and closing systemEjecting during mold openingEnlarged oil coolerLarger oil pump and motorAccumulator injection	Standard	Optional O O O O O O O O O

Clamping Unit	
Precise transducer	for clamping / ejector stroke control
Clamping platens /	toggles made of highly-rigid ductile iron
Two-stage ejector f	forward or back control
_ow-pressure mold	protection
Multiple ejector func	tion settings
Hydraulic gear-type	e mold height adjustment device
Hydraulic/electrical	safety devices
Near-resistant supp	porting tracks for movable platen
Automatic centralize	ed lubrication system
Boost mold closing f	iunction
Increased mold thic	kness
ncreased ejector st	roke
Mechanical position	limit device of mold-open
Heat insulating plate	e for mold
Special mold mount	0
Movable platen with	i linear guide rail
Electrical Contro	ol System
nput/output inspec	tion
Automatic heat reto	iining and automatic heating setting
Time / position / pre	essure controlled switchover from injecti
ndependent adjustr	ment of slope
Robot interface	
Iolding data locking	g function
Automatic clamping	force adjustment
_CD display screen	
Large memory for p	process parameters storage
Multiple operating lo	inguages
5 sets (8 sets) of inc	lependent air blowing with valve
Working light/ single	e or multi color alarm light
	e-phase power socket
Air blow device	
nterface for electric	c unscrewing device
Special power supp	ly voltage
Electrial unscrewing	j unit
Hot runner interface	
	ergy consumption display
nfrared / ceramic h	
Electrial dozing mot	
Plasticizing during m	hold opening
Other	
Operation manual	

- Adjustable leveling pad
- A tool kit
- Filter element
- Standard hopper
- Mold temperature controller
- Auto loader
- Dehumidifier
- Glass-tube water flowmeter
- Dryer

	Standard	Optional
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