

THINK TECH FORWARD

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YIZUMI

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P

150T-550T

P SERIES THIN-WALL
INJECTION MOLDING MACHINE



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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.

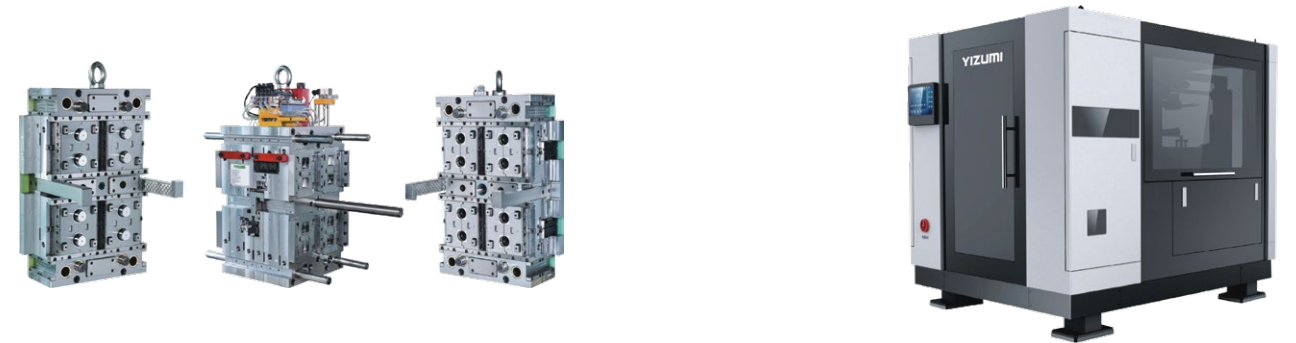
[3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.

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



THINK TECH FORWARD

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 P 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.

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.

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

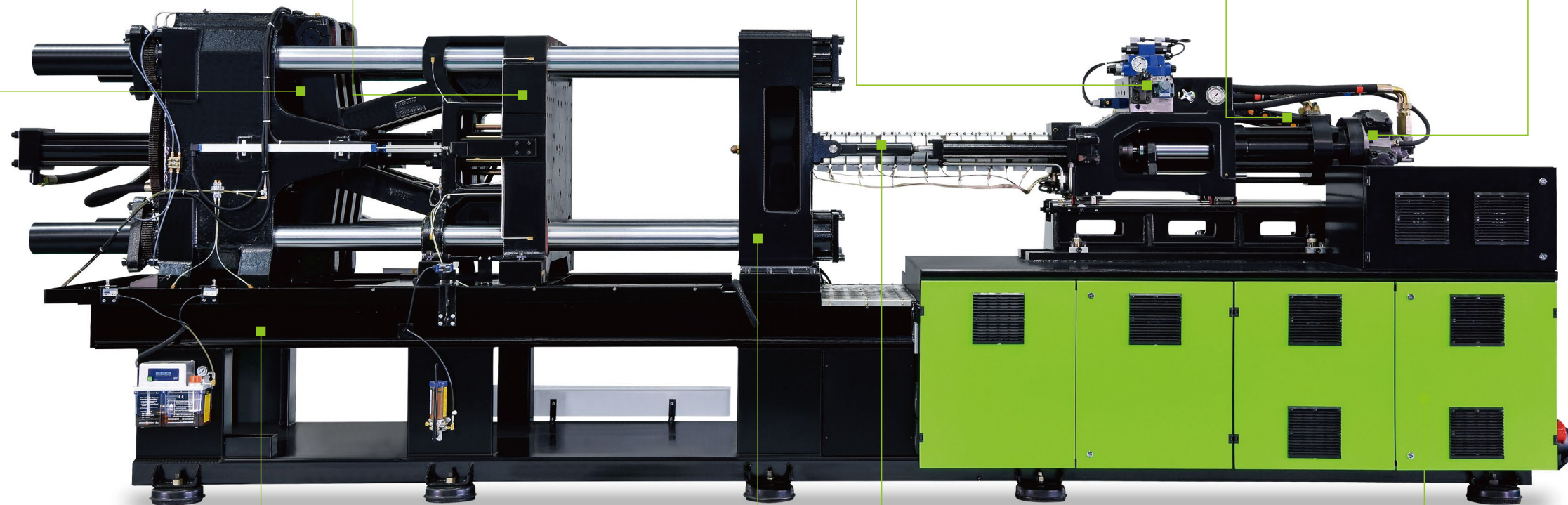
The adoption of reinforced platen design according to the characteristics of thin-walled packaging products. With perfect combination of strength and rigidity, while minimize the platen deformation, it maintains a flexible and smooth movement.

Horizontal Dual-carriage Design

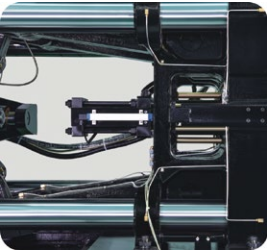
The adoption of horizontal dual-carriage cylinder design effectively eliminates the turning torque of the injection mechanism and ensures a stable and reliable injection.

Efficient Power Output

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



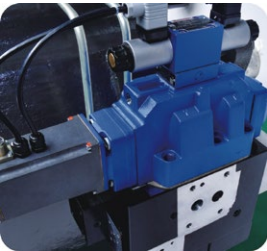
Optional Features



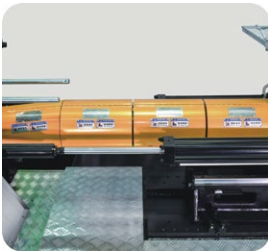
Ejector-on-Fly
Ejector while mold opening to shorten the production cycle time.



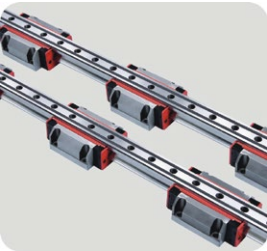
Use of Appropriate Screw and Barrels
Select from a variety of professional screw and barrels according to the characteristics of different raw materials and production processes to ensure the plasticizing quality.



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.



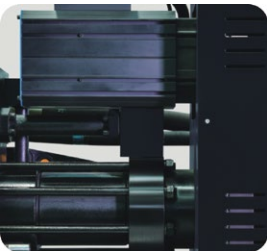
Infrared Heater Band
The infrared heater band reduces the heat loss by 30%-68%.



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



Servo Injection with Accumulator
Increase the injection speed up to 800mm/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.

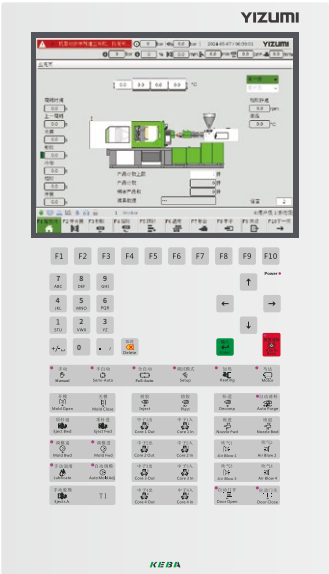


Electric Dozing Motor
Reduce production cycle time through parallel operation. Driven by servo motor, the dozing motor has higher energy conversion efficiency and saves more energy.



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

Customized Control System



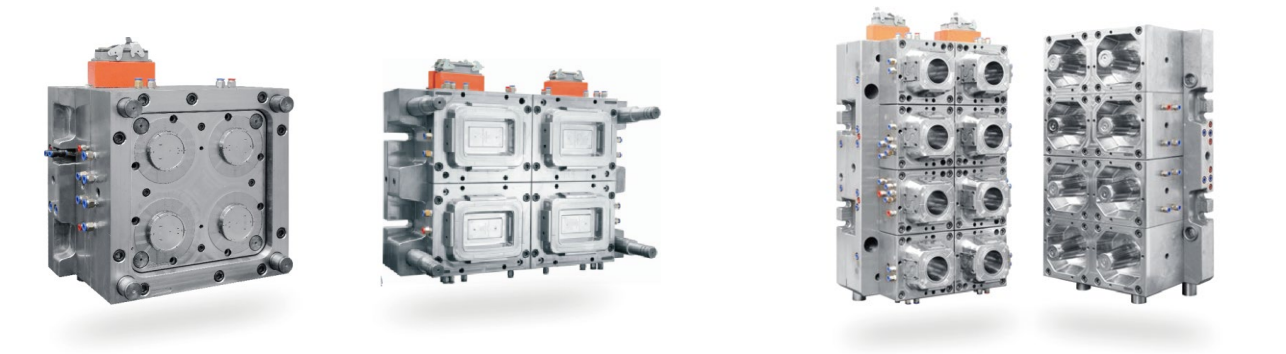
KEBA industrial controller

Electrical System

- ◆ Faster processing speed, optimized control rate, and outstanding repetitive accuracy help to achieve more stable product quality.
- ◆ Bright, full color 12-inch touch screen input and easy-to-use operation page.
- ◆ Multi-stage injection and plasticizing function pages are easy to use and improve processes accordingly.
- ◆ The production management and production monitoring functions can communicate with the peripheral equipment barrier-free.
- ◆ 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.

Disposable Medical Supplies

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

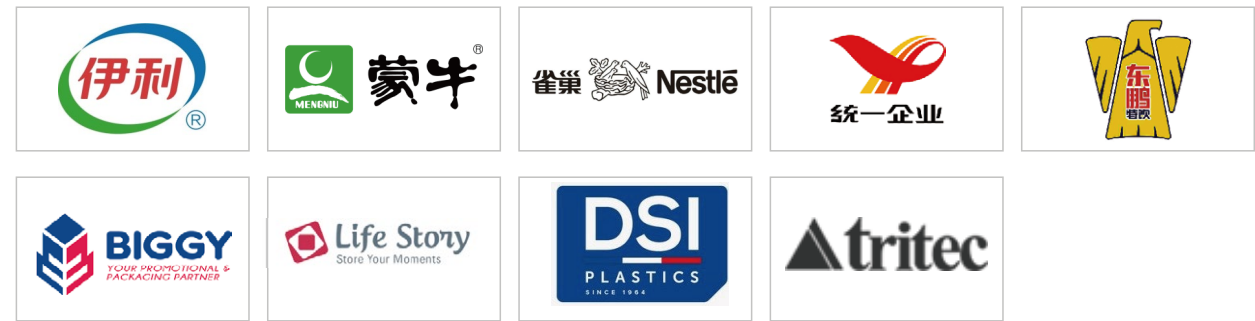
Various Types of Bottle Caps

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.

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.

P Series serves at



① : Servo/Standard Servo/Amplified Servo

Model	A	B	C	D	E
P150	210	320	35	175	M16x32
	F	G	H	I	O
	1717	1817	1347	420	2055
	M	N	P1	P	
	210	785	690	642	

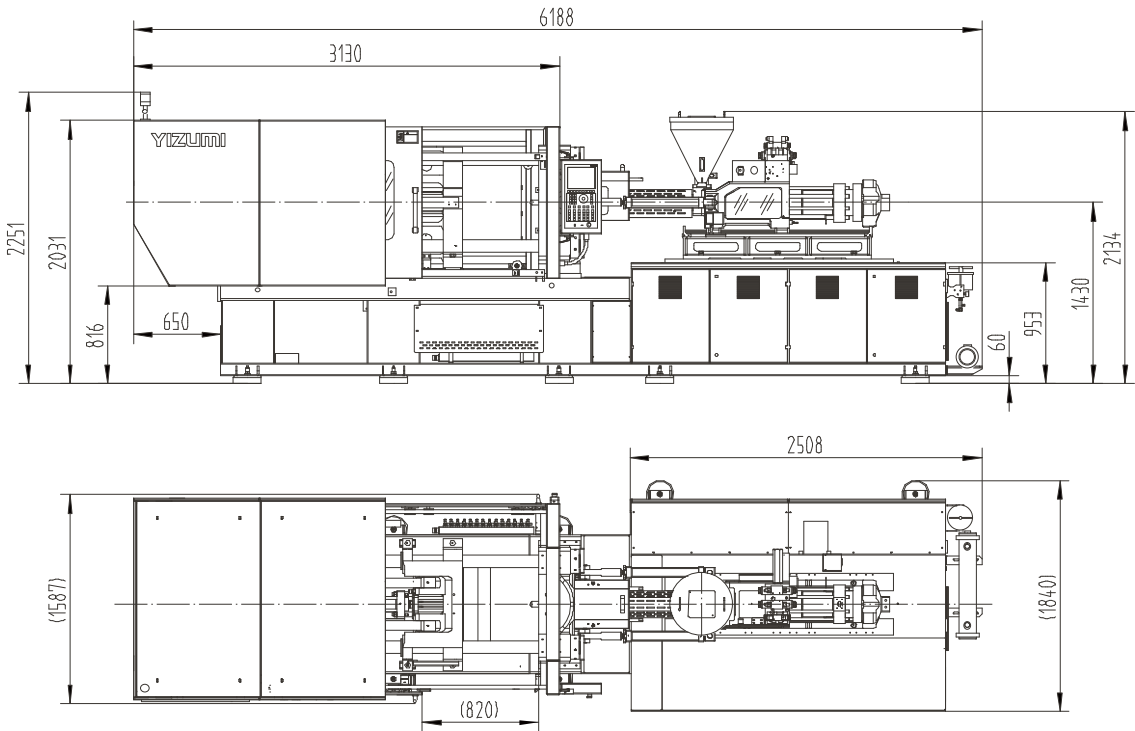
Injection unit: 440 feeding tube: φ40

P200 High-speed Injection Molding Machine

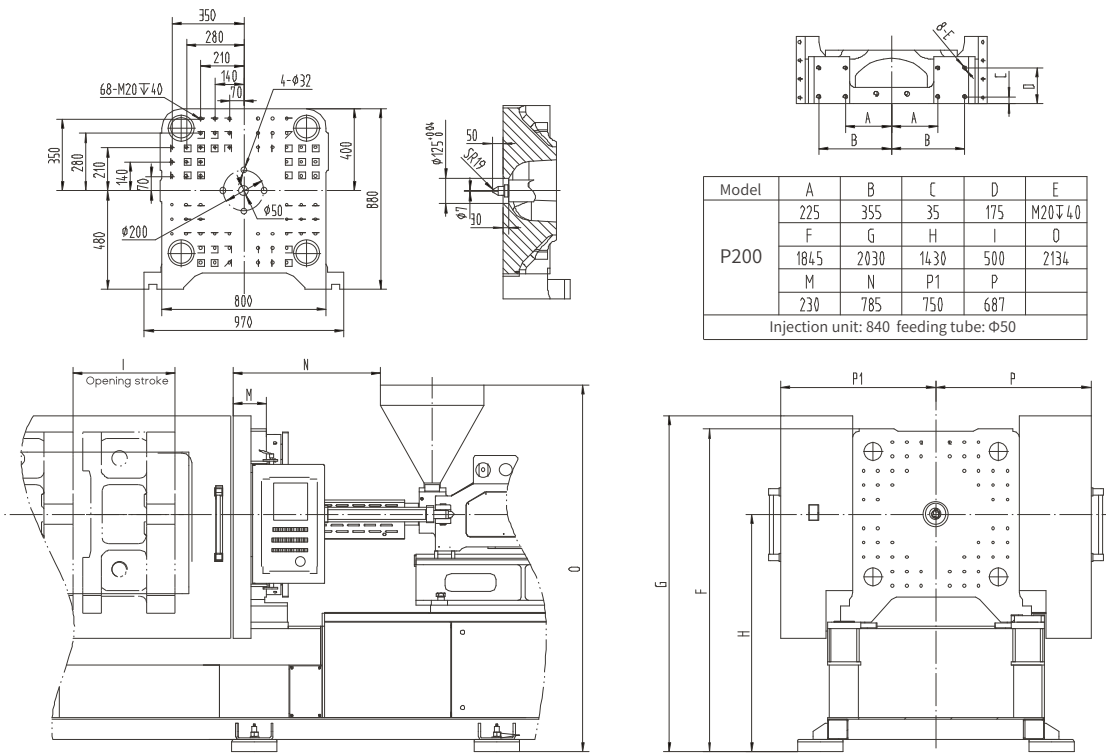
DESCRIPTION		UNIT		P200	
International specification		440/2000		640/2000	
INJECTION UNIT					
Shot volume	cm³	221	280	334	412
Shot weight (PS)	g	203	258	307	379
	oz	7.2	9.1	10.8	13.4
Screw diameter	mm	40	45	45	50
Injection pressure	MPa	199	158	194	158
Screw L:D ratio	22:1				
Max.injection speed ①	mm/s	185/230/290		150/190/235	
Max.injection speed with accumulator	mm/s	500		500	
Nozzle stroke	mm	400			
Screw stroke	mm	176		210	
Screw speed (stepless)	r/min	0-300			
CLAMPING UNIT					
Clamping force	kN	2000			
Opening stroke	mm	500			
Space between bars (WxH)	mmxmm	520x520			
Max. daylight	mm	1050			
Mold thickness (Min.-Max.)	mm	200-550			
Hydraulic ejection stroke	mm	150			
Ejector number		5			
Hydraulic ejection force	kN	77			
POWER UNIT					
Hydraulic system pressure	Mpa	17.5			
Pump motor	kW	33.9/45.2/55			
Pump motor with accumulator	kW	45.2+11		45.2+22	
electric screw drive	kW	16.4			
Heating capacity	kW	11		11	16.5
Number of temp control zones		5			
GENERAL UNIT					
Dry cycle time	s	2			
Oil tank capacity	l	460			
Machine dimensions(LxWxH)	mxmxm	6.2x1.85x2.25			
Machine weight	Ton	9.3			

① : Servo/Standard Servo/Amplified Servo

P200 Layout Drawings



P200 Platen Dimension Drawings

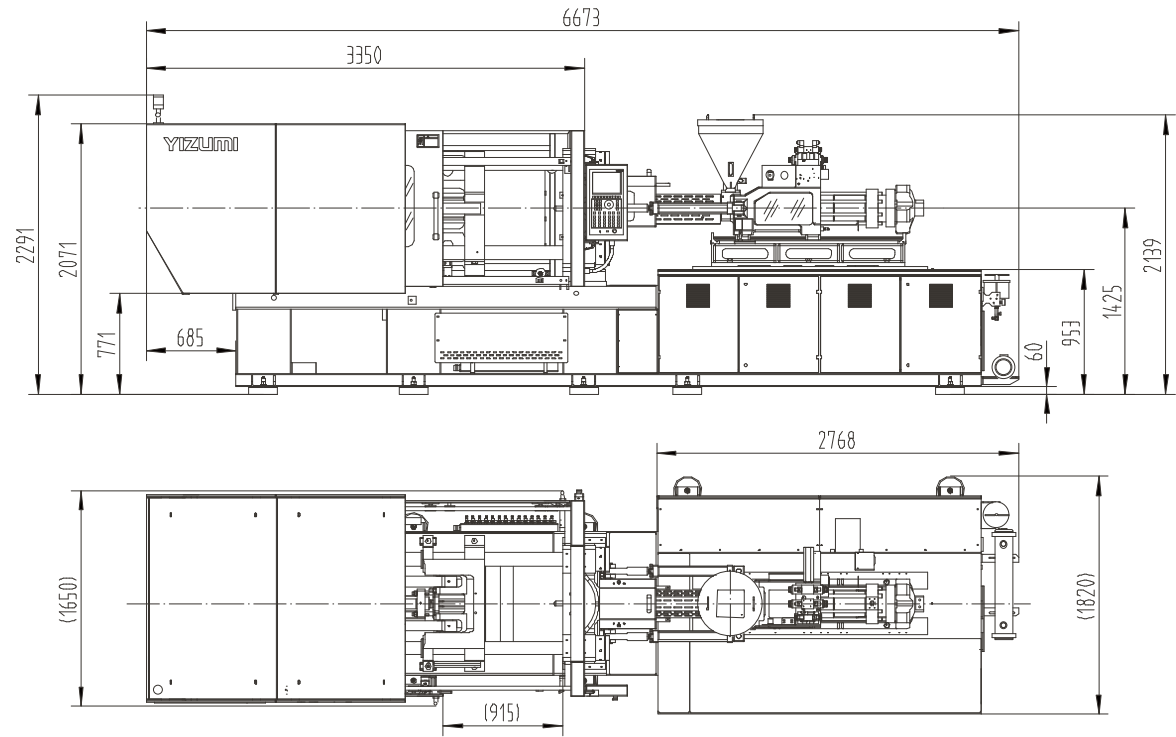


P250 High-speed Injection Molding Machine

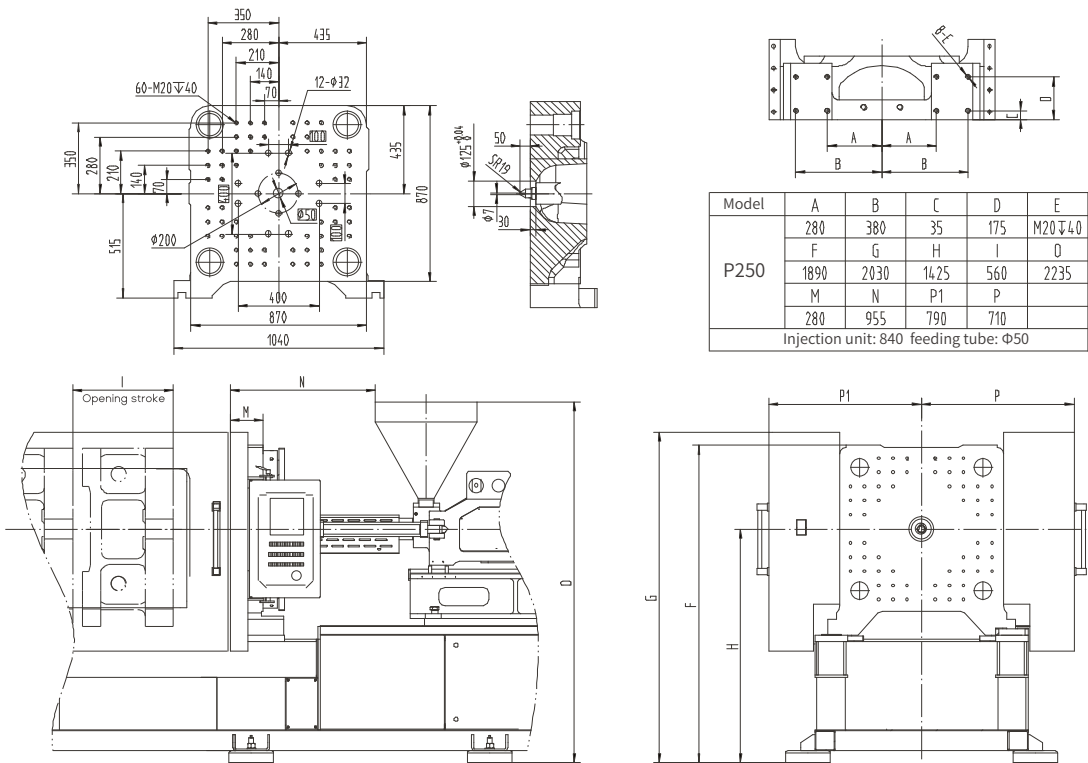
DESCRIPTION		UNIT		P250					
International specification		440/2500		640/2500		840/2500			
INJECTION UNIT									
Shot volume	cm³	221	280	334	412	442	535	636	
Shot weight (PS)	g	203	258	307	379	406	492	585	
	oz	7.2	9.1	10.8	13.4	14.3	17.3	20.6	
Screw diameter	mm	40	45	45	50	50	55	60	
Injection pressure	MPa	199	158	194	158	191	158	132	
Screw L:D ratio		22:1							
Max.injection speed ①	mm/s	185/290		150/235		125/195			
Max.injection speed with accumulator	mm/s	500		500		500			
Nozzle stroke	mm	400					450		
Screw stroke	mm	176		210		225			
Screw speed (stepless)	r/min	0-300							
CLAMPING UNIT									
Clamping force	kN	2500							
Opening stroke	mm	560							
Space between bars (WxH)	mmxmm	580x580							
Max. daylight	mm	1160							
Mold thickness (Min.-Max.)	mm	220-600							
Hydraulic ejection stroke	mm	180							
Ejector number		13							
Hydraulic ejection force	kN	137							
POWER UNIT									
Hydraulic system pressure	Mpa	17.5							
Pump motor	kW	33.9/55							
Pump motor with accumulator	kW	45.2+11		45.2+22		45.2+22			
electric screw drive	kW	16.4					20		
Heating capacity	kW	11		11	16.5	16.5	22	24.8	
Number of temp control zones		5							
GENERAL UNIT									
Dry cycle time	s	2.2							
Oil tank capacity	l	480							
Machine dimensions(LxWxH)	mxmxm	6.7x1.82x2.3							
Machine weight	Ton	10.5							

① : Servo/Standard Servo

P250 Layout Drawings



P250 Platen Dimension Drawings

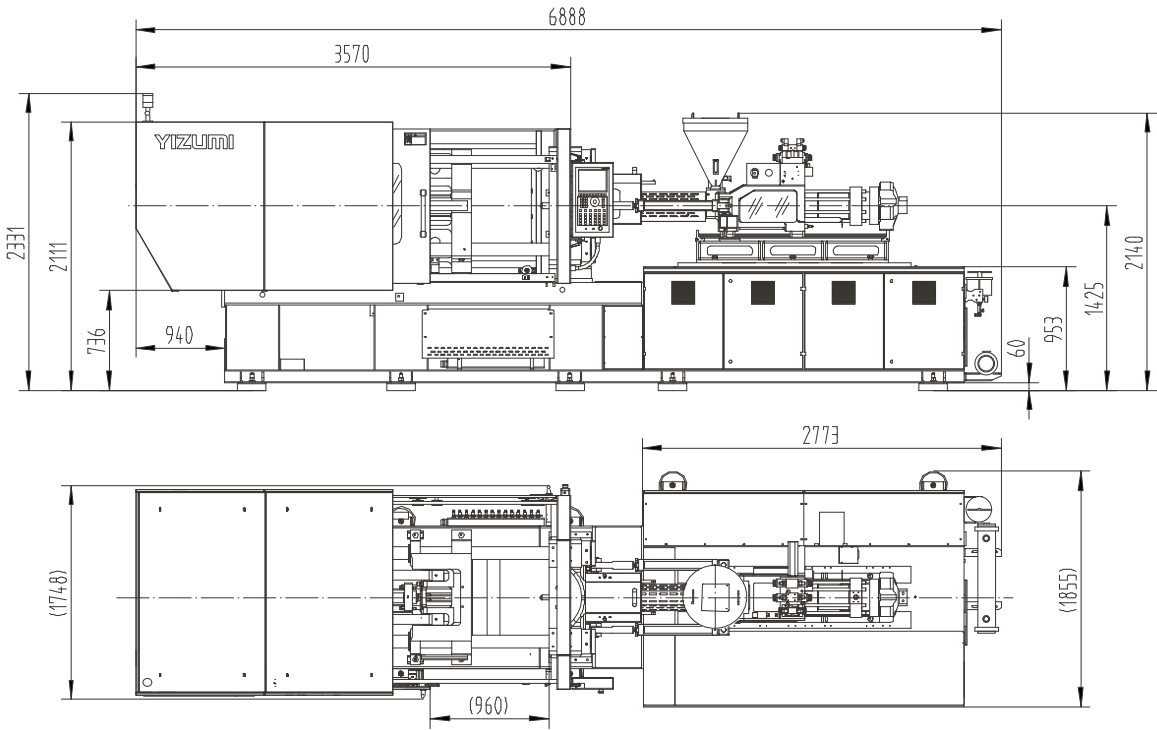


P300 High-speed Injection Molding Machine

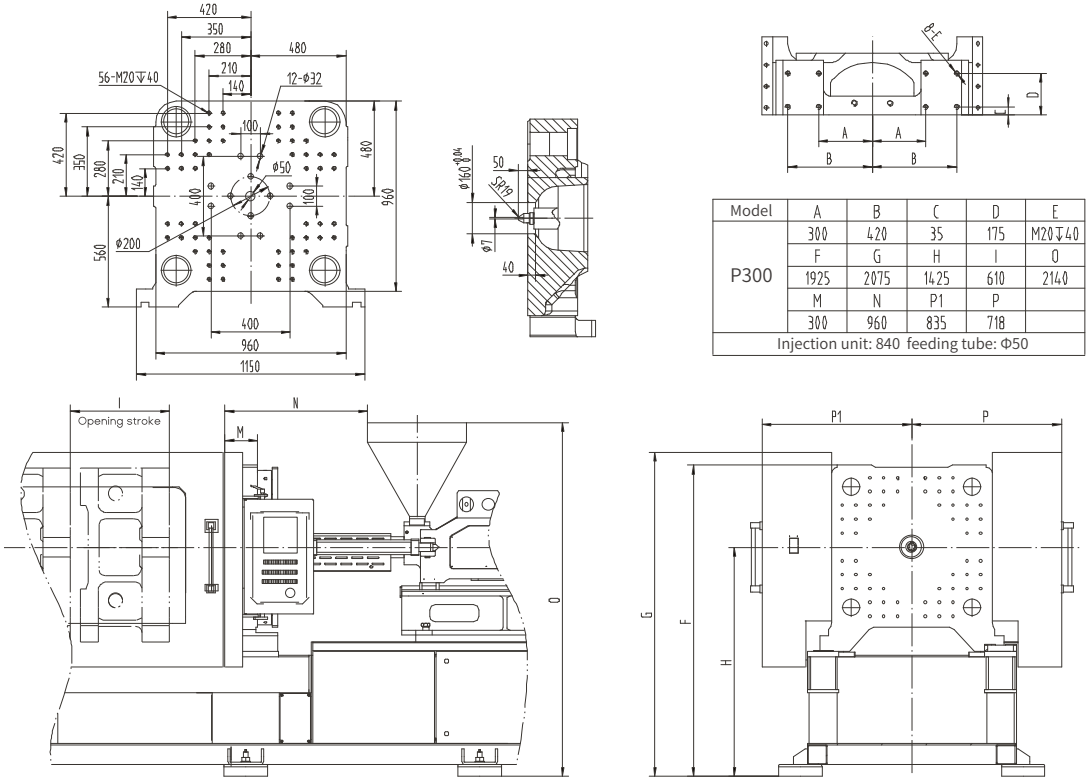
DESCRIPTION		UNIT			P300					
International specification		840/3000			1080/3000			1480/3000		
INJECTION UNIT										
Shot volume	cm³	442	535	636	491	594	707	763	896	1039
Shot weight (PS)	g	406	492	585	452	546	650	702	824	956
	oz	14.3	17.3	20.6	15.9	19.3	22.9	24.8	29.1	33.7
Screw diameter	mm	50	55	60	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 ①	mm/s	195/280/350			165/235/295			130/190/240		
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	635x635								
Max. daylight	mm	1260								
Mold thickness (Min.-Max.)	mm	250-650								
Hydraulic ejection stroke	mm	180								
Ejector number		13								
Hydraulic ejection force	kN	137								
POWER UNIT										
Hydraulic system pressure	Mpa	17.5								
Pump motor	kW	55/45.2+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	l	600								
Machine dimensions(LxWxH)	mxmxm	6.9x1.86x2.35								
Machine weight	Ton	12.5								

① : Servo/Standard Servo/Amplified Servo

P300 Layout Drawings



P300 Platen Dimension Drawings



① : Servo/Standard Servo/Amplified Servo

Technical drawing of the YIZUMI YL3000 3000W Laser Cutter, showing front and side views with dimensions.

Front View Dimensions:

- Overall Width: 7313
- Overall Height: 2384
- Top Section Width: 3930
- Top Section Height: 2164
- Base Section Height: 674
- Base Section Width (Left): 910
- Base Section Height (Right): 953
- Base Section Height (Far Right): 1431
- Base Section Height (Bottom Right): 2160
- Base Section Height (Bottom Right, Small): 60

Side View Dimensions:

- Overall Width: 2768
- Overall Height: 1970
- Height (Left): 1835
- Height (Bottom): 965

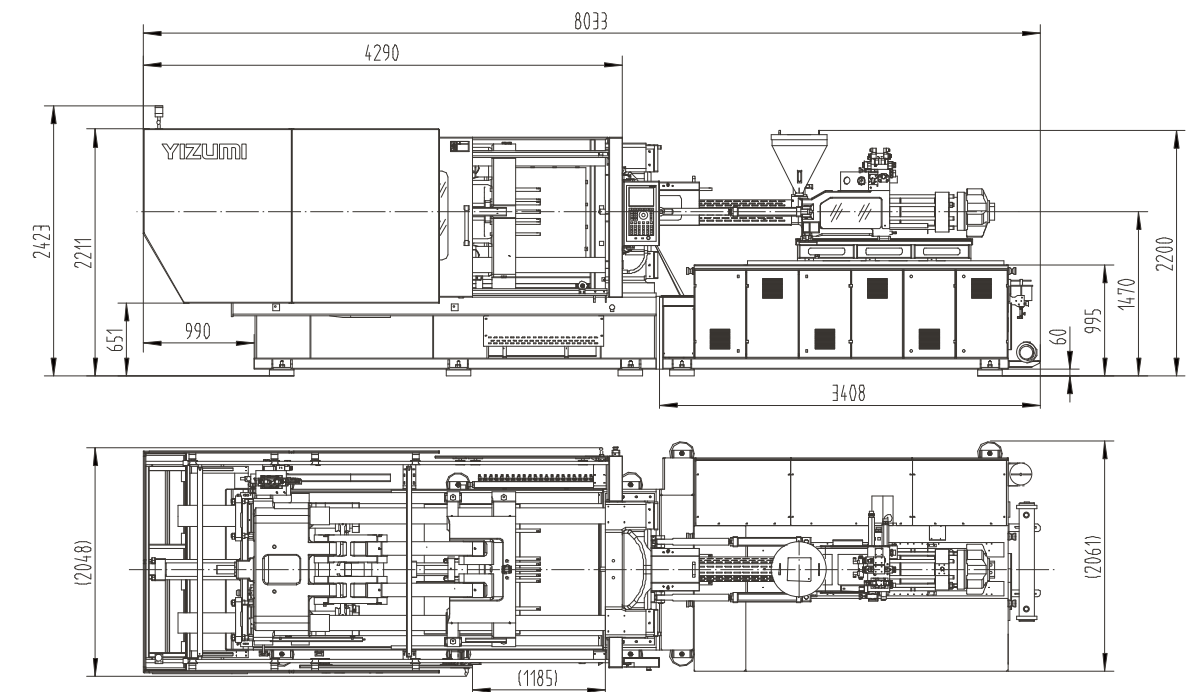
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P450 High-speed Injection Molding Machine

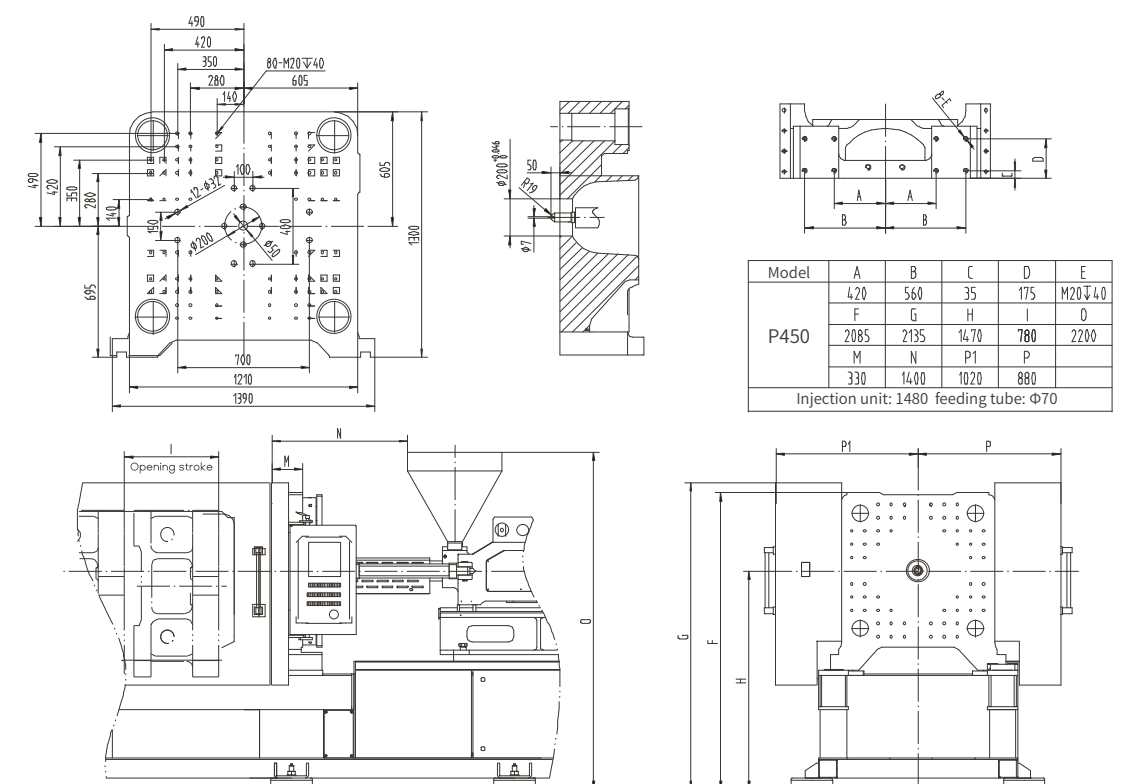
DESCRIPTION		UNIT			P450						
International specification		1080/4500			1480/4500			2180/4500			
INJECTION UNIT											
Shot volume	cm³	491	594	707	763	896	1039	891	1212	1583	
Shot weight (PS)	g	452	546	650	702	824	956	819	1115	1457	
	oz	15.9	19.3	22.9	24.8	29.1	33.7	28.9	39.3	51.4	
Screw diameter	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 ①	mm/s	160/330/370			130/265/300			105/210/240			
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	0-300						0-250			
CLAMPING UNIT											
Clamping force	kN	4500									
Opening stroke	mm	780									
Space between bars (WxH)	mmxmm	820x820									
Max. daylight	mm	1580									
Mold thickness (Min.-Max.)	mm	300-800									
Hydraulic ejection stroke	mm	220									
Ejector number		13									
Hydraulic ejection force	kN	137									
POWER UNIT											
Hydraulic system pressure	Mpa	17.5									
Pump motor	kW	55/55+55/55+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	l	750									
Machine dimensions(LxWxH)	mxmxm	8.1x2.1x2.45									
Machine weight	Ton	22									

① : Servo/Standard Servo/Amplified Servo

P450 Layout Drawings



P450 Platen Dimension Drawings

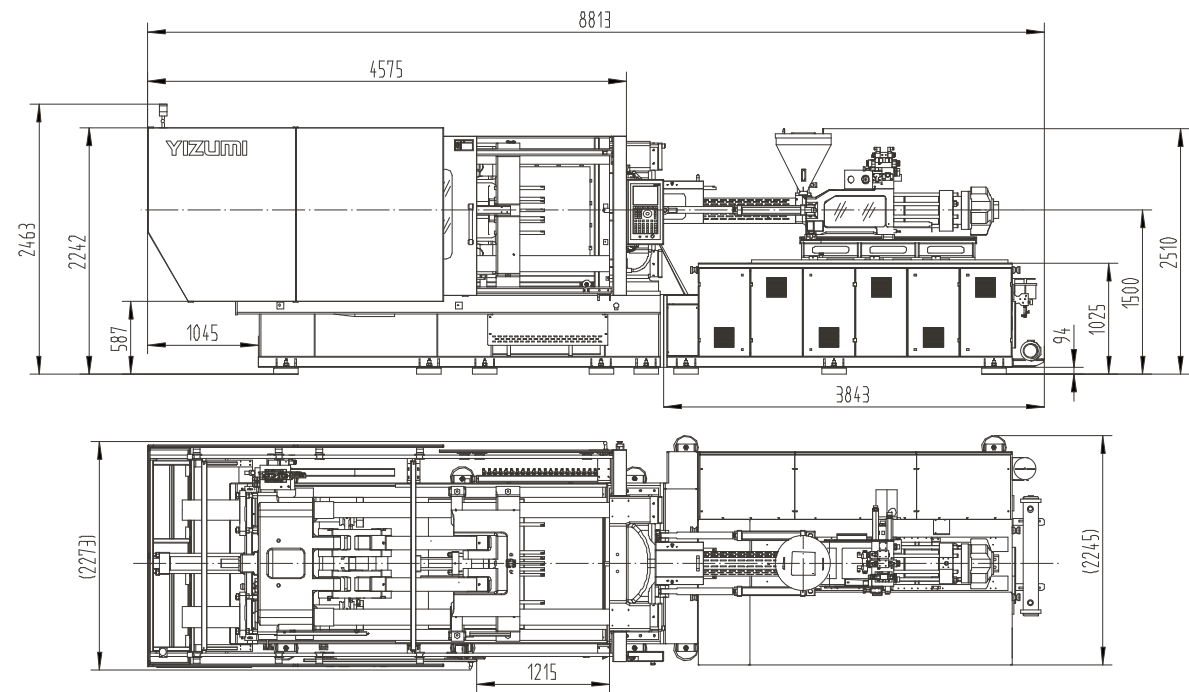


P550 High-speed Injection Molding Machine

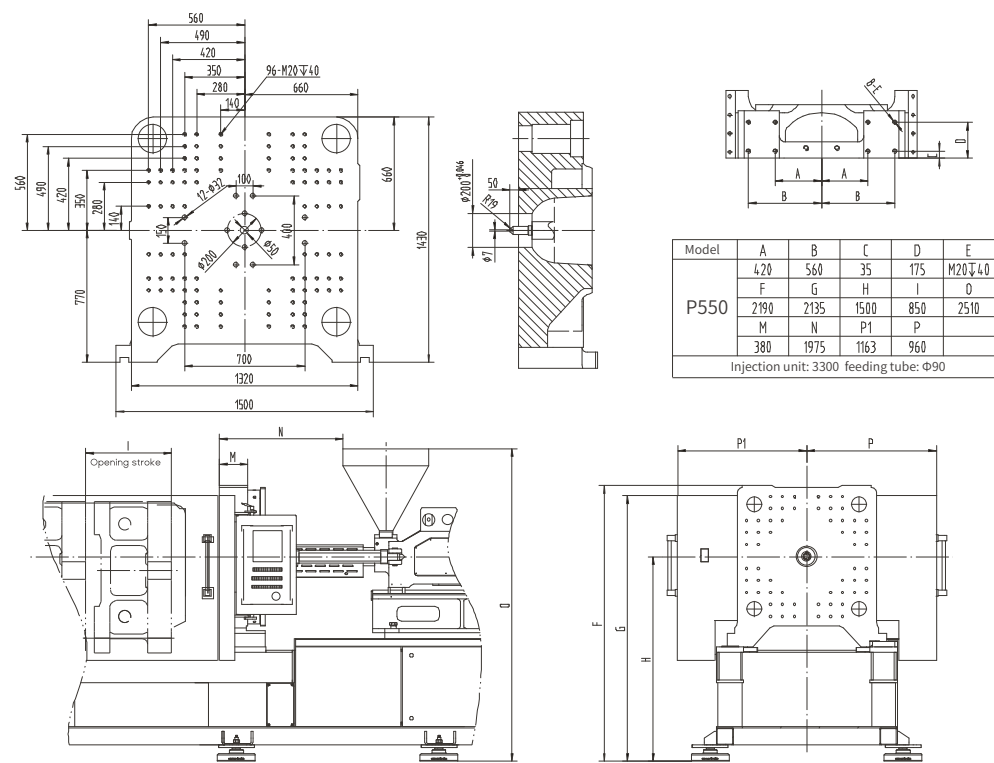
DESCRIPTION		UNIT			P550						
International specification		1480/5500			2180/5500			3300/5500			
INJECTION UNIT											
Shot volume	cm³	763	896	1039	891	1212	1583	1366	1784	2258	
Shot weight (PS)	g	702	824	956	819	1115	1457	1257	1642	2078	
	oz	24.8	29.1	33.7	28.9	39.3	51.4	44.3	57.9	73.3	
Screw diameter	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 ①	mm/s	170/340			130/270			100/200			
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									
Max. daylight	mm	1700									
Mold thickness (Min.-Max.)	mm	350-850									
Hydraulic ejection stroke	mm	220									
Ejector number		13									
Hydraulic ejection force	kN	137									
POWER UNIT											
Hydraulic system pressure	Mpa	17.5									
Pump motor	kW	63/63+63									
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	l	900									
Machine dimensions(LxWxH)	mxmxm	8.9x2.25x2.46									
Machine weight	Ton	25.5									

① : Servo/Standard Servo

P550 Layout Drawings



P550 Platen Dimension Drawings



Standard and Optional Features

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 control	●	
Multi-stage injection speed / pressure /position control	●	
Multi-stage holding pressure speed / pressure / time control	●	
Multi-stage plasticizing speed / pressure / position control	●	
Extended nozzle		○
Hard chrome plated screw component		○
Bi-metallic screw & barrel		○
Special screw set		○
Proportional back pressure control		○
Blowing device of barrel		○
Pneumatic/Hydraulic shut-off nozzle		○
Increased injection stroke		○
Hydraulic System	Standard	Optional
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	●	
Hydraulic core pulling/ unscrewing device		○
Independent oil temperature control system		○
High-response servo injection system		○
High-response servo mold opening and closing system		○
Ejection during mold opening		○
Larger oil cooler		○
Larger oil pump and motor		○
Accumulator injection		○
Multiple sets of core puller		○
Proportional control for plasticizing back pressure		○

● Standard ○ Optional

Clamping Unit	Standard	Optional
Precise transducer for clamping / ejector stroke control	●	
Clamping platens / toggles made of highly-rigid ductile iron	●	
Two-stage ejector forward or back control	●	
Low-pressure mold protection	●	
Multiple ejector function settings	●	
Hydraulic gear-type mold height adjustment device	●	
Hydraulic/electrical safety devices	●	
Wear-resistant supporting tracks for movable platen	●	
Automatic centralized lubrication system	●	
Boost mold closing function	●	
Increased mold thickness	●	
Increased ejector stroke		○
Mechanical position limit device of mold-open		○
Heat insulating plate for mold		○
Special mold mounting hole		○
Movable platen with linear guide rail		○
Electrical Control System	Standard	Optional
Input/output inspection	●	
Automatic heat retaining and automatic heating setting	●	
Time / position / pressure controlled switchover from injection to holding	●	
Independent adjustment of slope	●	
Robot interface	●	
Molding data locking function	●	
Automatic clamping force adjustment	●	
LCD display screen	●	
Large memory for process parameters storage	●	
Multiple operating languages	●	
5 sets (8 sets) of independent air blowing with valve	●	
Working light/ single or multi color alarm light		○
Single-phase / three-phase power socket		○
Air blow device		○
Interface for electric unscrewing device		○
Special power supply voltage		○
Electrial unscrewing unit		○
Hot runner interface		○
Machine overall energy consumption display		○
Electrial dozing motor		○
Infrared / ceramic heater band		○
Plasticizing during mold opening		○
Other	Standard	Optional
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