

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

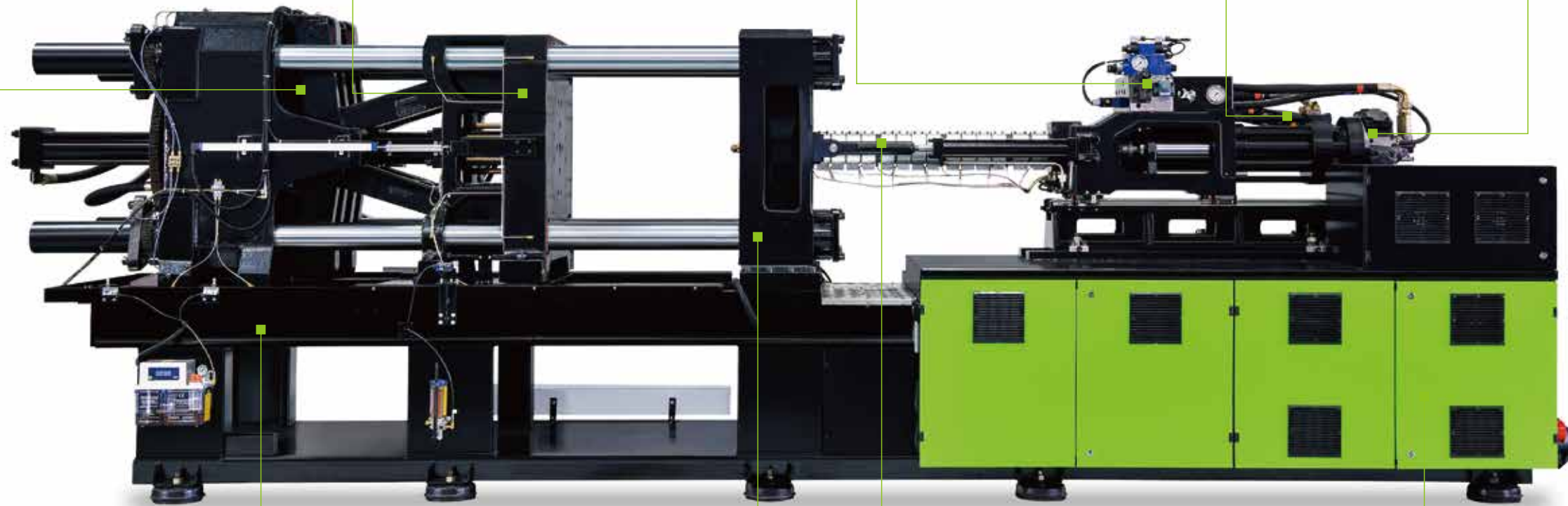
Selecting the high-quality hydraulic components to reduce response time, oil circuit impact, and overall machine noise. Machine will go through a number of tests and optimizing adjustments to meet the high quality requirements.

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

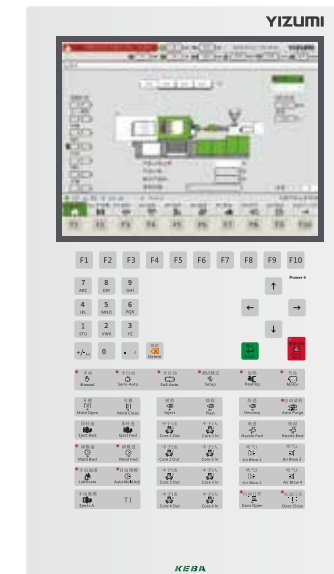
Reduce production cycle time through parallel operation. Driven by servo motor, the dozing motor has higher energy conversion efficiency and saves more energy.



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

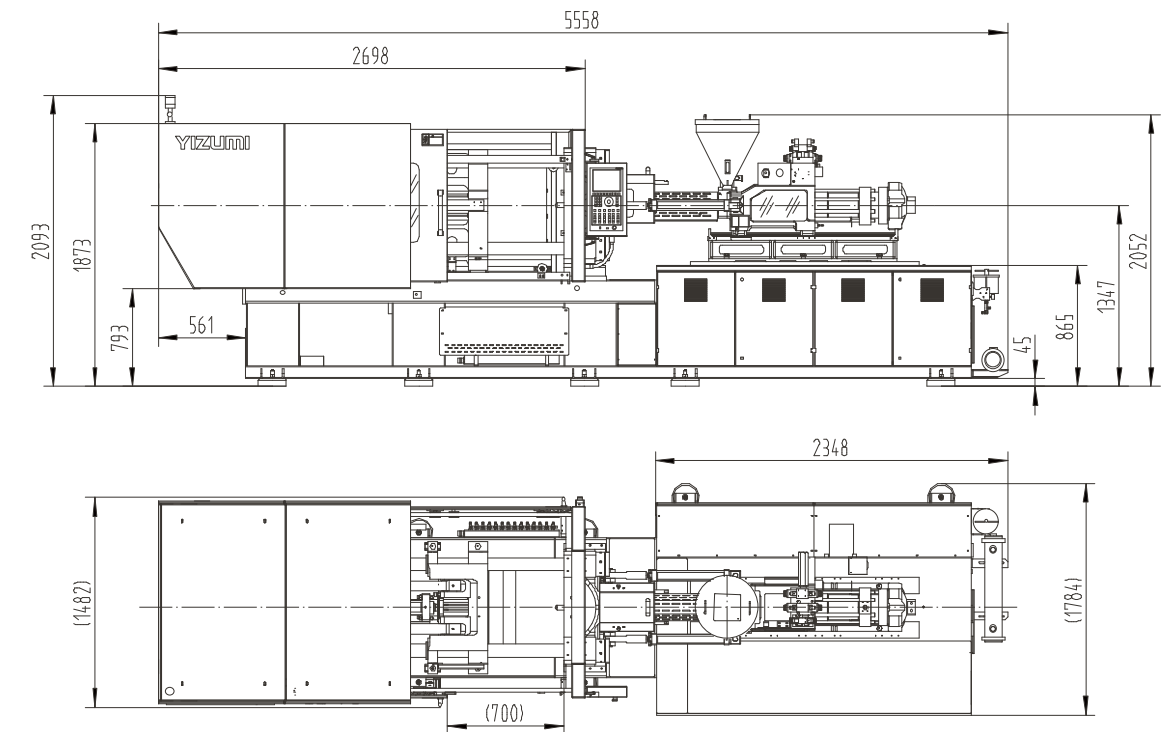


P150 High-speed Injection Molding Machine

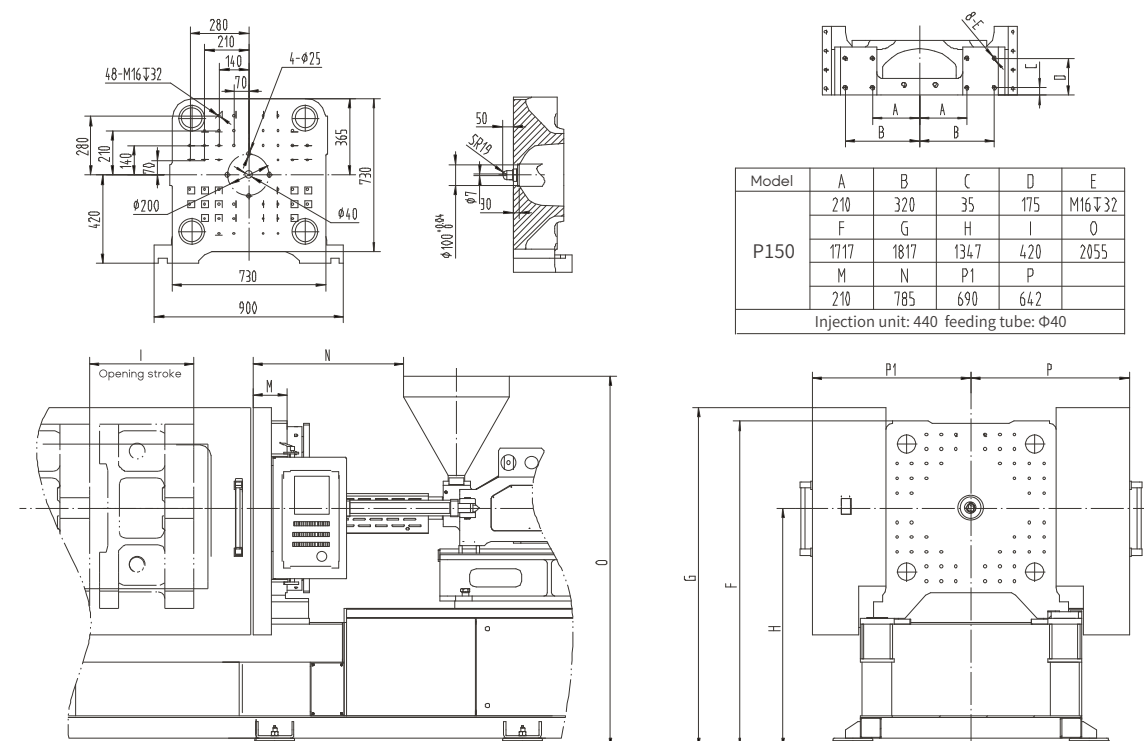
| DESCRIPTION | UNIT | P150 | | | |
|--------------------------------------|-----------------|-------------|-----|-------------|------|
| International specification | | 440/1500 | | 640/1500 | |
| INJECTION UNIT | | | | | |
| Shot volume | cm ³ | 221 | 280 | 334 | 412 |
| Shot weight (PS) | g | 203 | 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 | | 22:1 | | | |
| Max.injection speed ① | mm/s | 150/230/290 | | 120/190/235 | |
| 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 | 1500 | | | |
| Opening stroke | mm | 420 | | | |
| Space between bars (WxH) | mmxmm | 455x455 | | | |
| Max. daylight | mm | 870 | | | |
| Mold thickness (Min.-Max.) | mm | 150-450 | | | |
| Hydraulic ejection stroke | mm | 140 | | | |
| Ejector number | | 5 | | | |
| Hydraulic ejection force | kN | 77 | | | |
| POWER UNIT | | | | | |
| Hydraulic system pressure | Mpa | 17.5 | | | |
| Pump motor | kW | 23/45.2/55 | | | |
| 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 | 1.8 | | | |
| Oil tank capacity | l | 370 | | | |
| Machine dimensions(LxWxH) | mxm | 5.6x1.8x2.1 | | | |
| Machine weight | Ton | 7.8 | | | |

① : Servo/Standard Servo/Amplified Servo

P150 Layout Drawings



P150 Platen Dimension Drawings

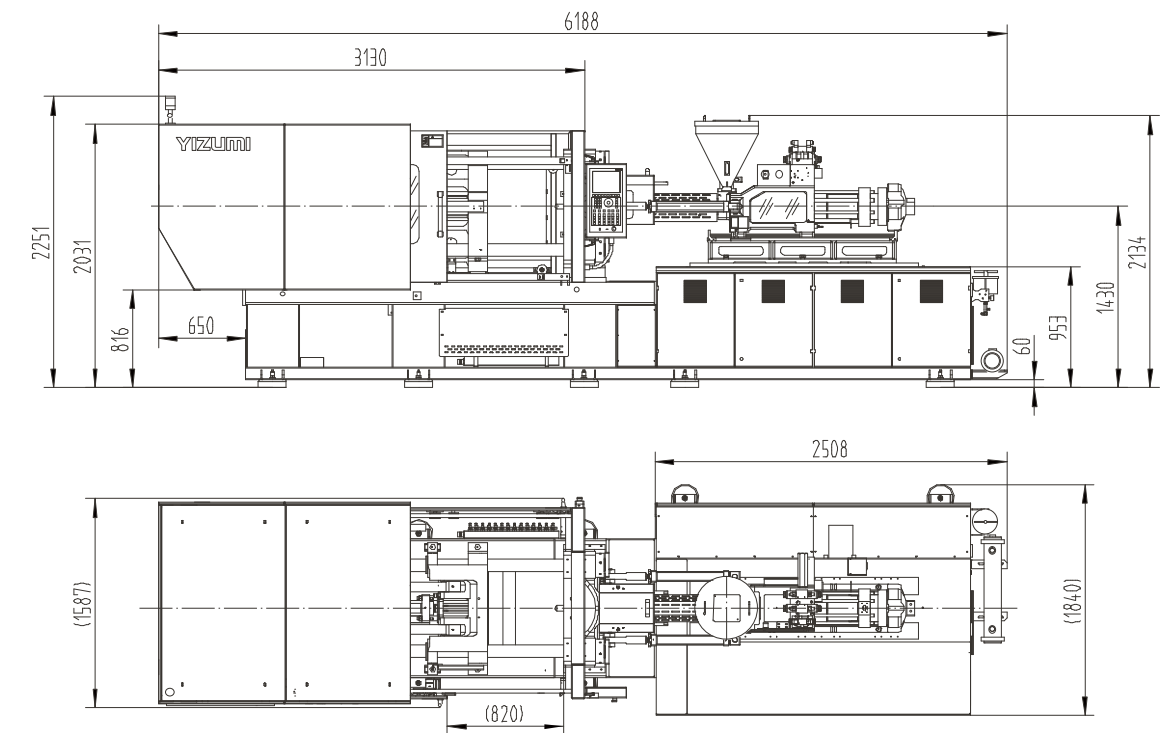


P200 High-speed Injection Molding Machine

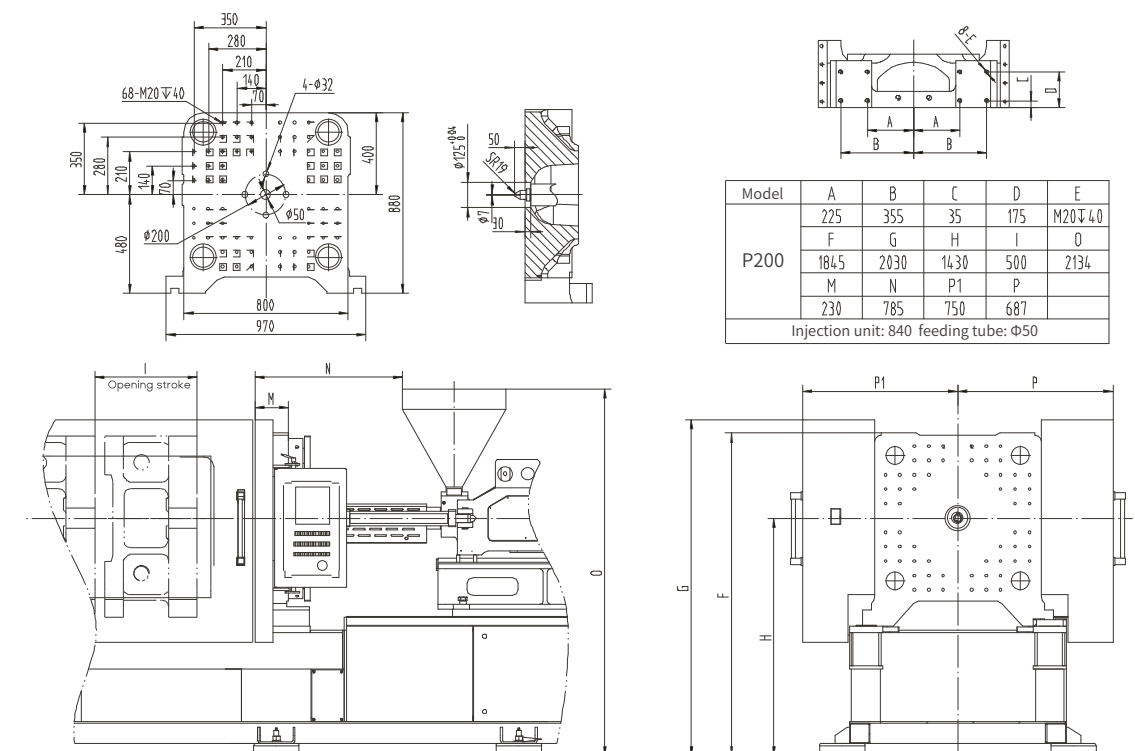
| DESCRIPTION | UNIT | P200 | | | |
|--------------------------------------|-----------------|---------------|-----|-------------|------|
| International specification | | 440/2000 | | 640/2000 | |
| INJECTION UNIT | | | | | |
| Shot volume | cm ³ | 221 | 280 | 334 | 412 |
| Shot weight (PS) | g | 203 | 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 | | 22:1 | | | |
| 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) | mxxm | 6.2x1.85x2.25 | | | |
| Machine weight | Ton | 9.3 | | | |

① : Servo/Standard Servo/Amplified Servo

P200 Layout Drawings



P200 Platen Dimension Drawings

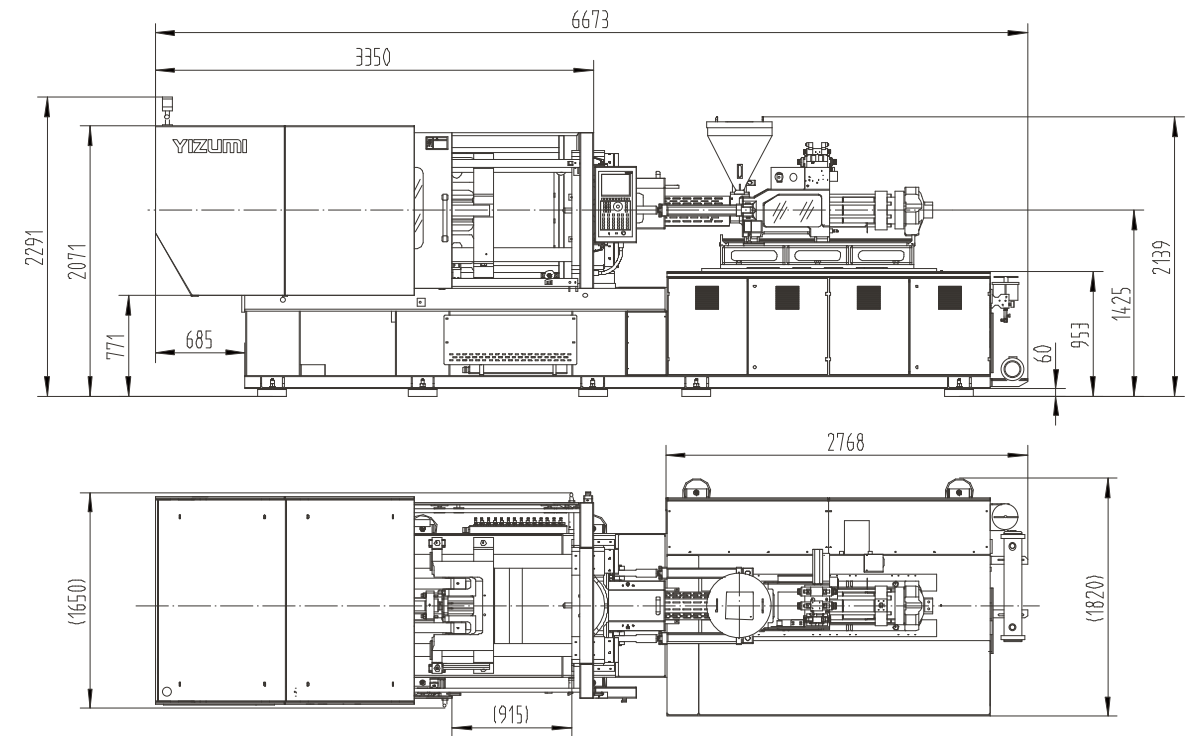


P250 High-speed Injection Molding Machine

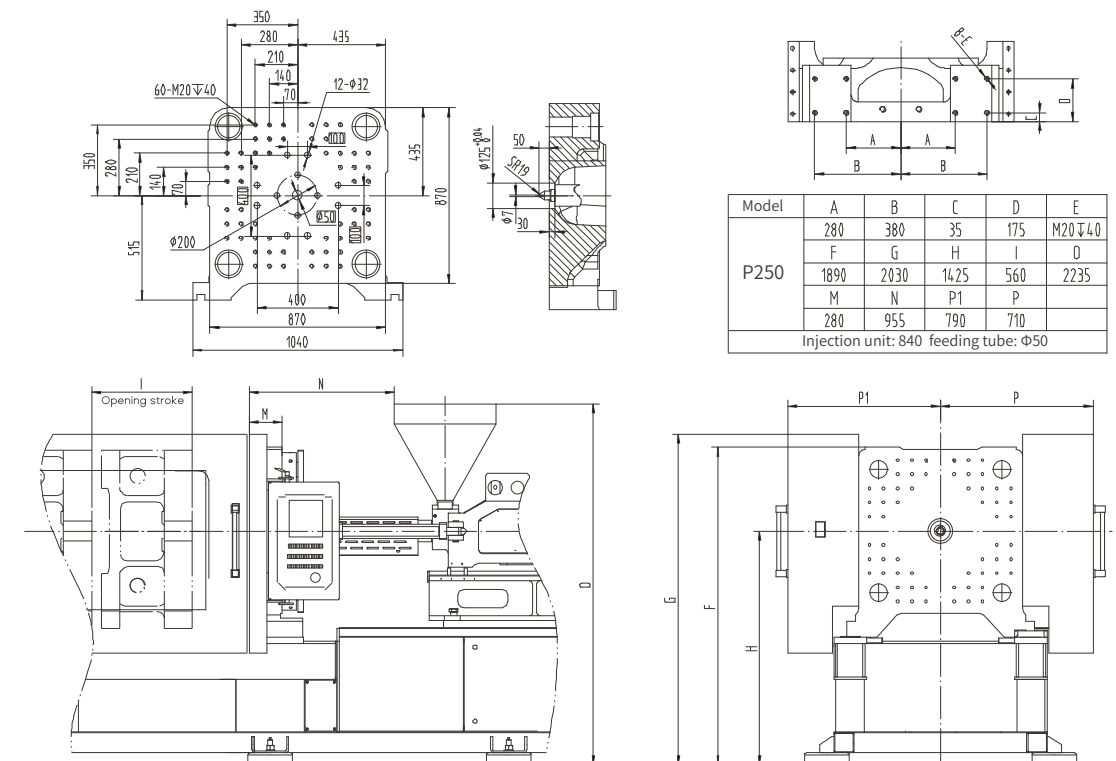
| DESCRIPTION | UNIT | P250 | | | | | | | |
|--------------------------------------|-----------------|--------------|-----|----------|------|----------|------|------|--|
| International specification | | 440/2500 | | 640/2500 | | 840/2500 | | | |
| INJECTION UNIT | | | | | | | | | |
| Shot volume | cm 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 | | 22:1 | | | | | | | |
| 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) | mxxm | 6.7x1.82x2.3 | | | | | | | |
| Machine weight | Ton | 10.5 | | | | | | | |

① : Servo/Standard Servo

P250 Layout Drawings



P250 Platen Dimension Drawings

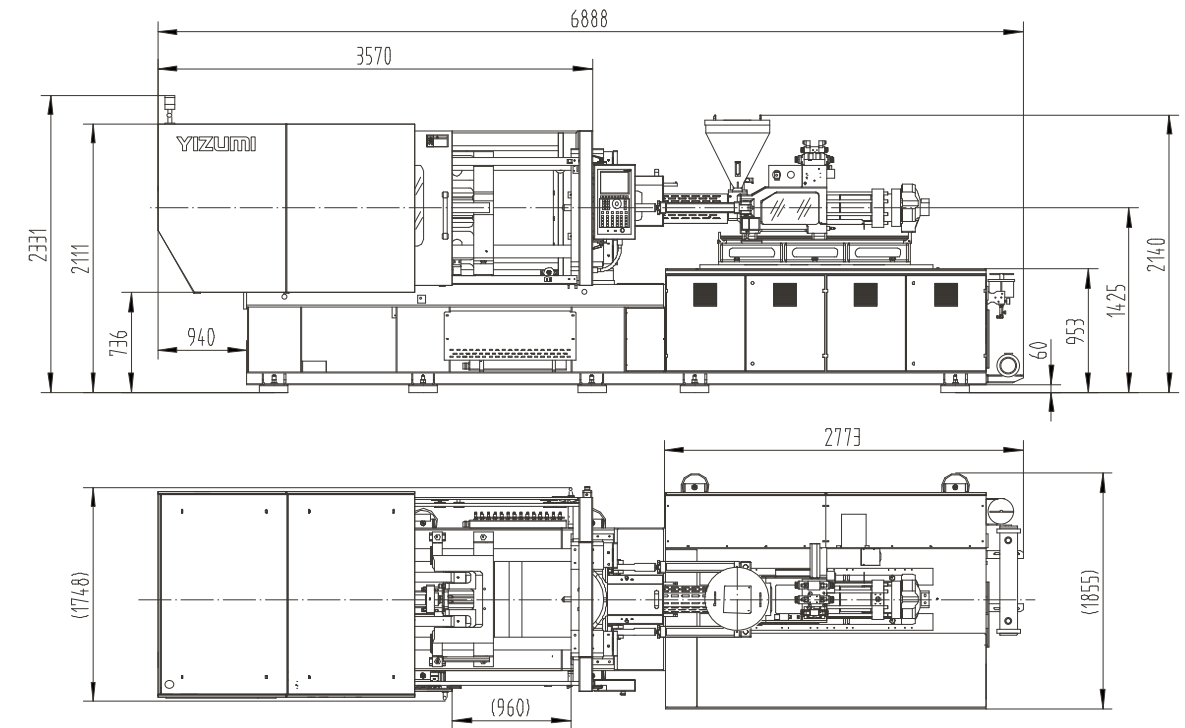


P300 High-speed Injection Molding Machine

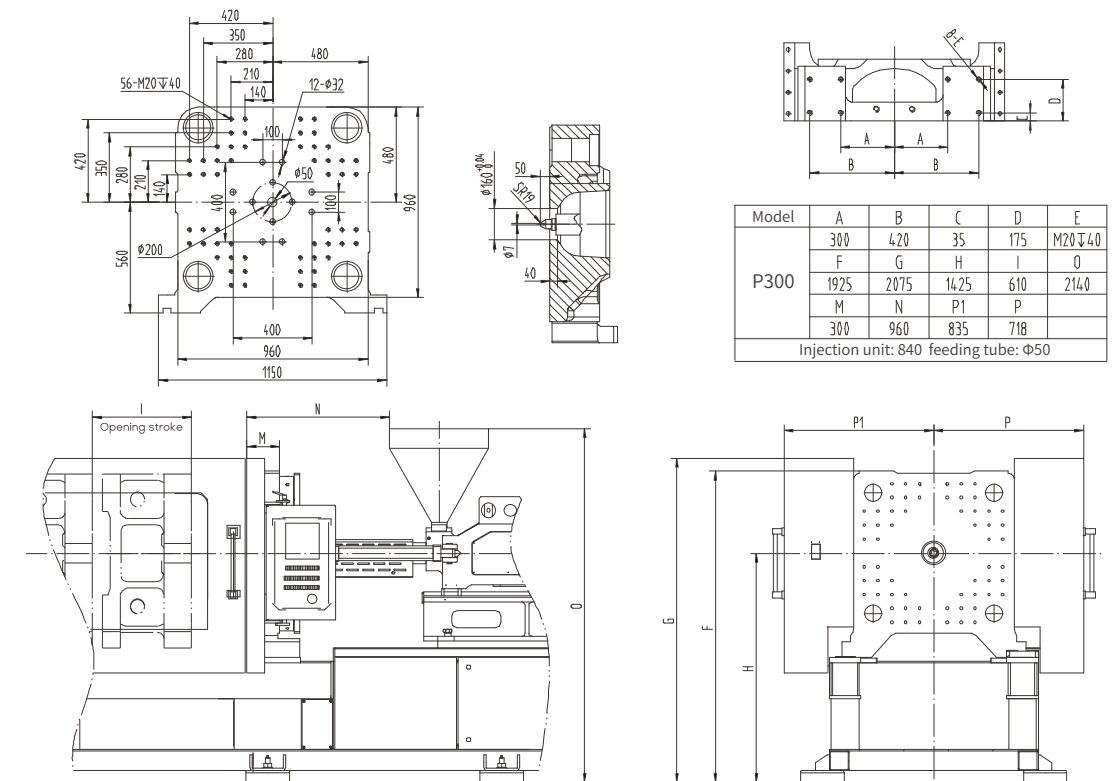
| DESCRIPTION | UNIT | P300 | | | | | | | | | |
|--------------------------------------|-----------------|----------------------|------|------|-------------|------|------|-------------|------|------|--|
| International specification | | 840/3000 | | | 1080/3000 | | | 1480/3000 | | | |
| INJECTION UNIT | | | | | | | | | | | |
| Shot volume | 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 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) | mxxm | 6.9x1.86x2.35 | | | | | | | | | |
| Machine weight | Ton | 12.5 | | | | | | | | | |

① : Servo/Standard Servo/Amplified Servo

P300 Layout Drawings



P300 Platen Dimension Drawings

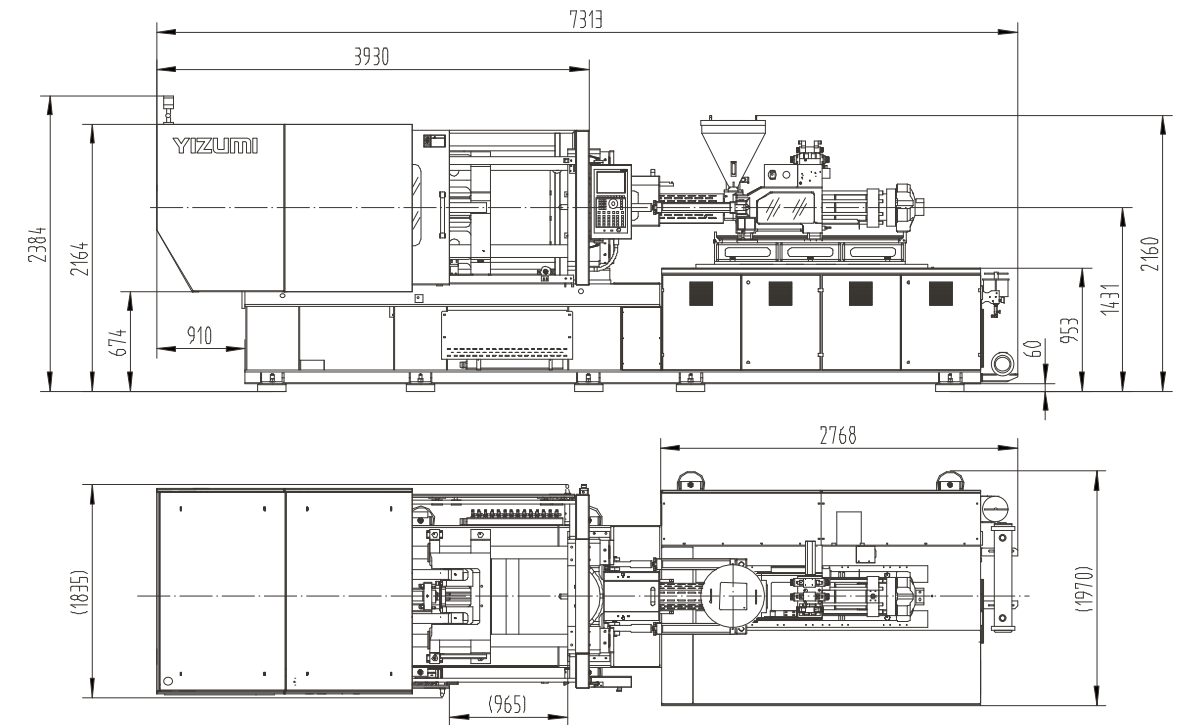


P350 High-speed Injection Molding Machine

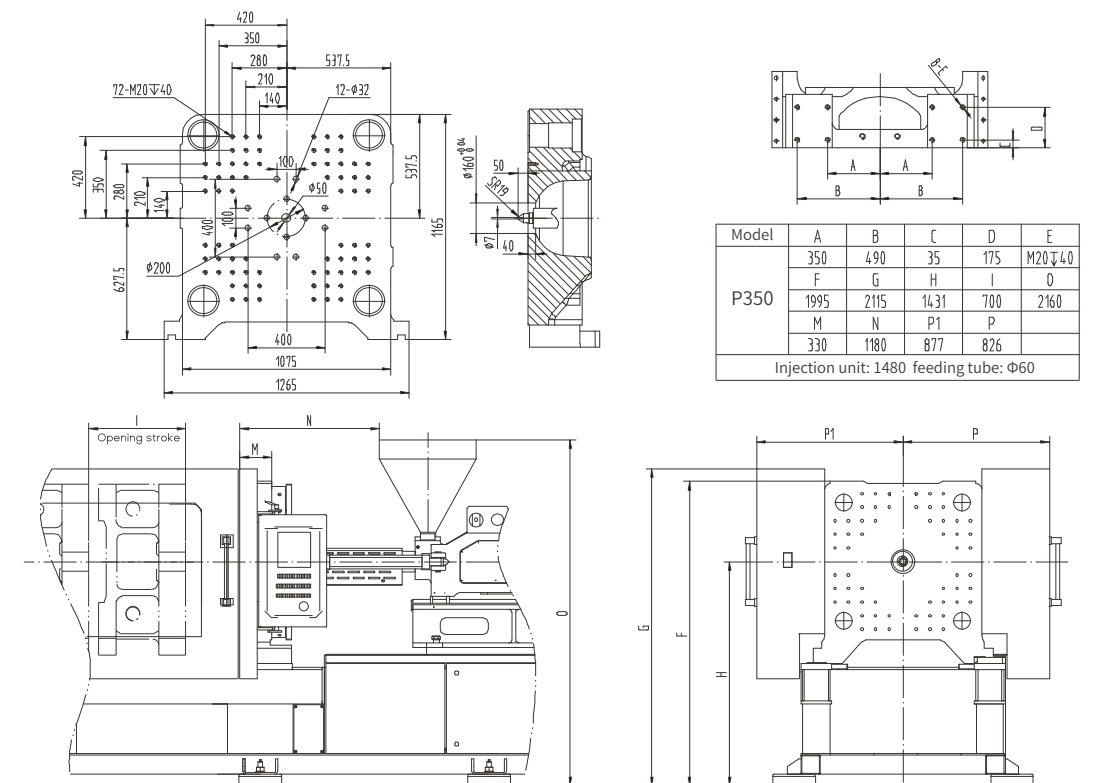
| DESCRIPTION | UNIT | P350 | | | | | | | | | |
|--------------------------------------|-----------------|------------------|------|------|-------------|------|------|-------------|------|------|--|
| International specification | | 1080/3500 | | | 1480/3500 | | | 2180/3500 | | | |
| INJECTION UNIT | | | | | | | | | | | |
| 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 ① | mm/s | 160/270/325 | | | 130/220/265 | | | 105/170/210 | | | |
| 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 | | | 0-300 | | | 0-250 | | | |
| CLAMPING UNIT | | | | | | | | | | | |
| Clamping force | kN | 3500 | | | | | | | | | |
| Opening stroke | mm | 700 | | | | | | | | | |
| Space between bars (WxH) | mmxmm | 730x730 | | | | | | | | | |
| Max. daylight | mm | 1450 | | | | | | | | | |
| Mold thickness (Min.-Max.) | mm | 300-750 | | | | | | | | | |
| Hydraulic ejection stroke | mm | 200 | | | | | | | | | |
| Ejector number | | 13 | | | | | | | | | |
| Hydraulic ejection force | kN | 137 | | | | | | | | | |
| POWER UNIT | | | | | | | | | | | |
| Hydraulic system pressure | Mpa | 17.5 | | | | | | | | | |
| Pump motor | kW | 55/55+33.9/55+55 | | | | | | | | | |
| Pump motor with accumulator | kW | 55+22 | | | 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 | 2.6 | | | | | | | | | |
| Oil tank capacity | l | 700 | | | | | | | | | |
| Machine dimensions(LxWxH) | mxmxm | 7.35x1.97x2.4 | | | | | | | | | |
| Machine weight | Ton | 15 | | | | | | | | | |

① : Servo/Standard Servo/Amplified Servo

P350 Layout Drawings



P350 Platen Dimension Drawings

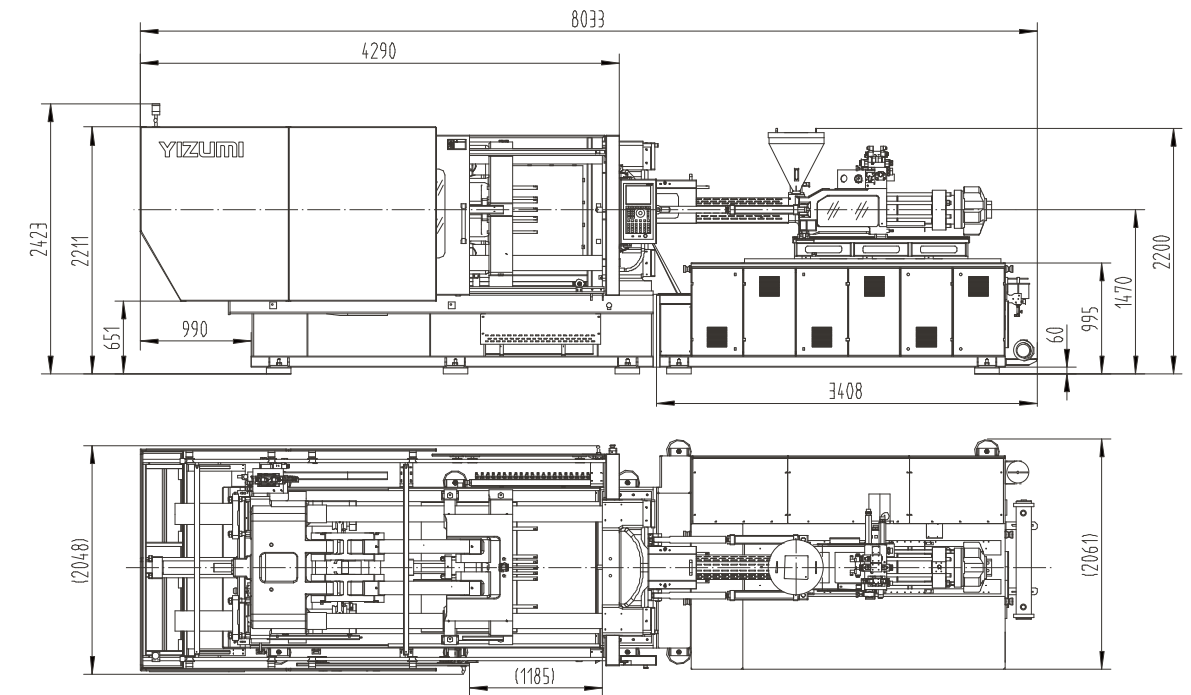


P450 High-speed Injection Molding Machine

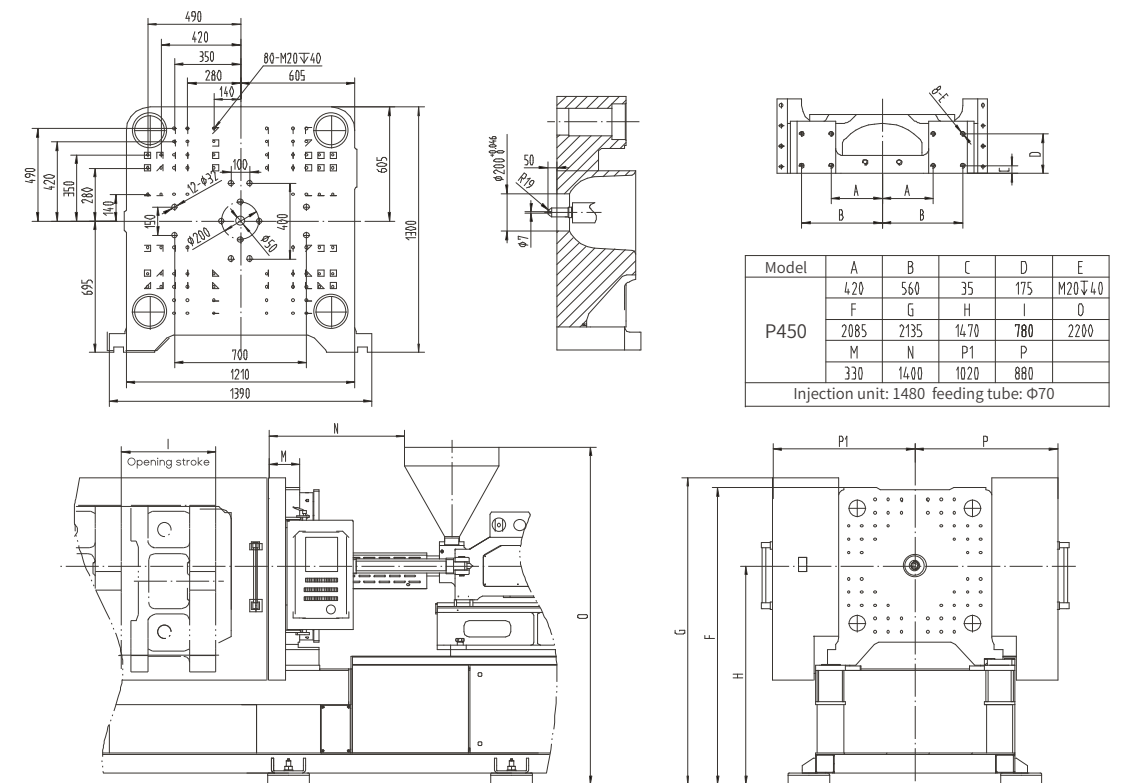
| DESCRIPTION | UNIT | P450 | | | | | | | | | |
|--------------------------------------|-----------------|----------------|------|------|-------------|------|------|-------------|------|------|--|
| | | 1080/4500 | | | 1480/4500 | | | 2180/4500 | | | |
| International specification | | 1080/4500 | | | 1480/4500 | | | 2180/4500 | | | |
| 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 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 | | | 0-300 | | | 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+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

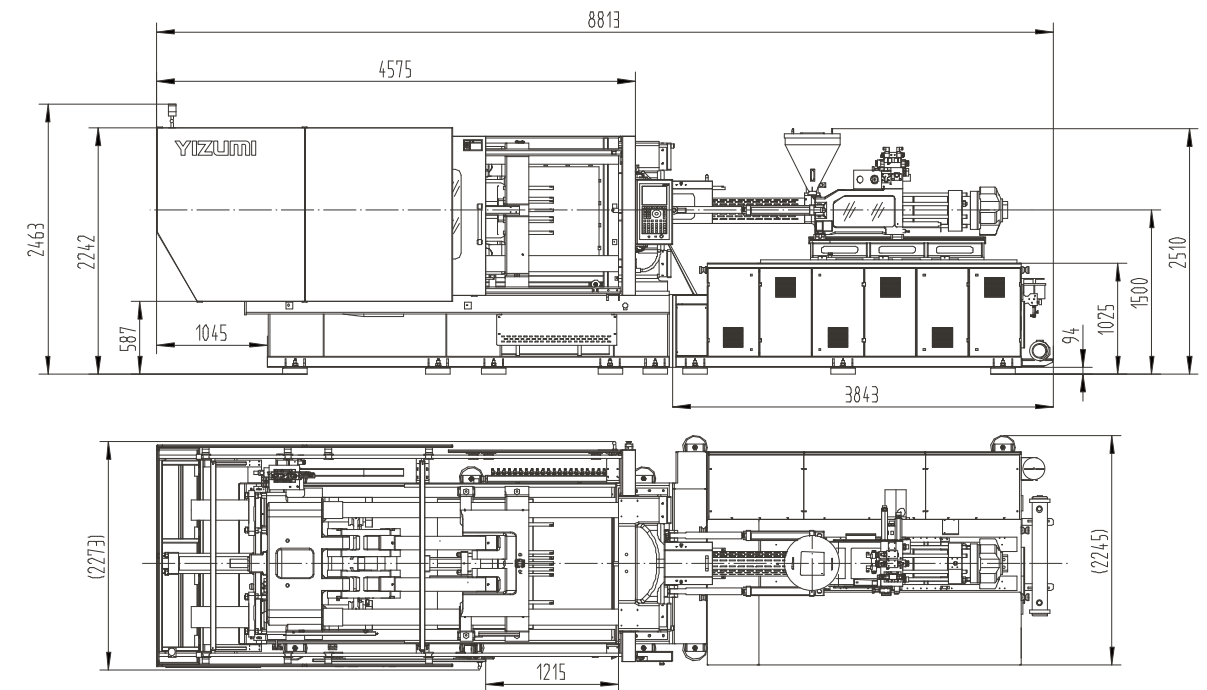


P550 High-speed Injection Molding Machine

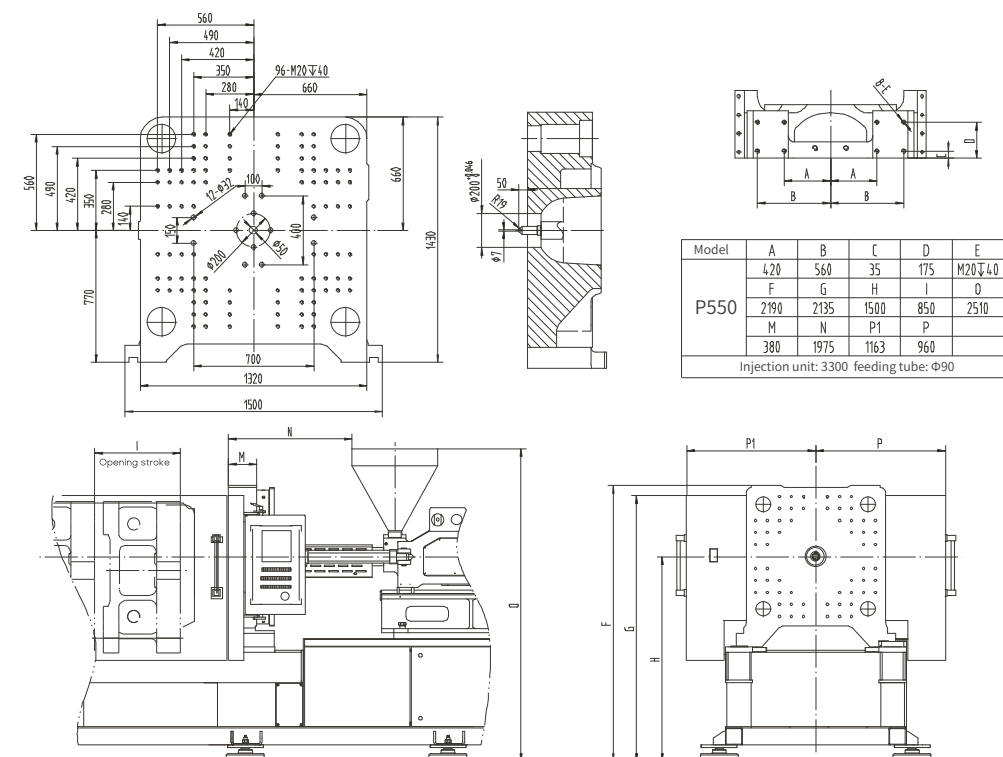
| DESCRIPTION | UNIT | P550 | | | | | | | | | |
|--------------------------------------|-----------------|---------------|------|------|-----------|------|------|-----------|------|------|--|
| International specification | | 1480/5500 | | | 2180/5500 | | | 3300/5500 | | | |
| INJECTION UNIT | | | | | | | | | | | |
| Shot volume | 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 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) | mxm | 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 storage 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 back pressure control | | ○ |

| 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 | | ○ |
| Electrical unscrewing unit | | ○ |
| Hot runner interface | | ○ |
| Machine overall energy consumption display | | ○ |
| Electrical 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 | | ○ |