Plastic Cup Thermoforming Machine

INTRODUCE

Website：https://www.zhongsumachine.com/

Xingbei Road, Doubei Village, Wanguan Town, Pingyang, Wenzhou, Zheiiang, China

Photo of the whole machine (for reference only)

APPLICATION:

There are five advantages to our plastic cup molding machine. Firstly, what is even more powerful is that our configuration is supported by powerful brands such as Yaskawa, Siemens, Schneider, and other well-known brands. With these brands, our machine quality is stable. Secondly, it has higher efficiency. The double oven is almost 7 times the length of the molding area indicator, so it brings about efficient production. When manufacturing PP materials, the speed can also exceed 25 times per minute. Thirdly, flexible and diverse choices can be made, including molding depth, molding area, and tile brand, to meet the requirements of different production volumes and products. Fourthly, what is more stable is that the four wall pillars and a certain period of lubrication not only bring super stability to the machine structure, but also have a great control effect on the stable operation of the machine. Last but not least, theoretically speaking, our machines are easy to operate and have high production efficiency, thus reducing worker resources.

SUMMARY OF MACHINE :

Fully automatic feed rack

1. Load automatically, lower human resource cost.

2. Sheet conveying positively, lower the load of conveying servo motor.

3. Proximity Switch clever control, getting the rid of falling down of the sheet by conveying too fast.

4. Double stations, big diameter, reduce the frequency of changing sheet coil, improve the the production efficiency.

5. Sheet feeder with a swing rod, good look and clever control.

Heating part

1. Good insulation performance, high heating efficiency, saving time and energy. Based on this, the actual power consumption is about 60% of the rated power, which is very excellent.
2.The width of the oven is almost 7 times the width of the forming area, so the metal plate can be stretched for a longer distance within a certain plasticizing time to increase speed and thus increase production.
3. Use optimized layout heating tiles to divide the furnace into two layers to ensure that the board is heated evenly and thoroughly.
4. The entire oven is divided into multiple independent temperature control units with an accuracy of 1 degree Celsius to ensure that each product's sheet can be perfectly plasticized.

Forming system

1. Using a structure supported by four pillars (40Cr steel) and guided by an integrated template, our molding station is more sturdy, stable, and resistant to shock and wear.
2. The forming part is driven by a servo motor system, providing strong power and reliable stability. The use of proximity switches to control the mold positioning accuracy is excellent.
3. The parallelism deviation between the guide plates is less than 0.05mm, and the mold is less than 0.03mm, far below the industry average. So our formed products will have more precise dimensions and a more perfect bottom.
4. Fixed upper and lower guide plates, as well as excellent parallel flexible middle guide plates, have high material hardness, good wear resistance, and strong corrosion resistance, ensuring the smooth operation and durability of the machine.
5. The cross bar hydraulic transmission structure adopts wear-resistant steel lining, which is heavier and rotates more accurately. Symmetric swing ensures the parallelism of machine operation, avoids lateral wear of the four pillars, and prolongs the service life of the machine.
6. Integrated hydraulic station with buffering function, high power, sufficient force, low vibration, good control, strong stability, and easy maintenance.
7. The intelligent lubrication system can provide lubrication in a certain amount and time, making the machine have a long and sustainable lifespan.
8. There is cooling water inside the mold cavity, which accelerates the cooling speed. There is a top rod at the bottom, making the product easy to demold.
The working principle is to combine positive pressure with some nylon plugs in the mold to assist in stretching, making it more powerful in production capacity.
10. Servo motor stretching, ultra precision, high efficiency.
11. Individually replaceable blades made of high-quality materials that are reasonably priced, flexible, and durable.

Company profile:

Pingyang Sinoplast Machinery Co., LTD was founded in 2013,we are a professional plastic machinery provider in China. Our company is engaged in research,development,production,sale and service for Plastic Sheet Extrution Lines,Plastic Cup Making Machine,Automatic Muti Stations Thermoforming Machines,Plastic Lid Thermoforming Machine,Mold&Auxiliary Equipments. We are located in Xingbei Road,Doubei Village,Haixi Town,Pingyang Country,Wenzhou City,Zhejiang Province,China.

Our company has passed the IS09001:2000 Quality Management System, CE certificate, and have won 2 national utility model patents.We also have a professional technician team with rich experience on the plastic sheet extrusion lines, thermoforming equipments and forming molds. We could provide our clients complete service from machines and molds design to manufacture, installation, debugging and workers training. With the market as our guide and continuous creation and renovation, we have won the honor and good image in the packaging industry, also relative industry with high quality and good service.Our products are well sold at home and abroad, such as, Southeast Asia, South Europe, Middle East, Africa, South America, central American.

In the next few years, the company will focus on promoting the technical upgrading on the Automatic Muti Stations Thermoforming Machines, and Sheet Extrusion lines and provide customer with more plastic machine solutions.Our company welcomes all the clients to Visit our factory for the future communication and cooperation.

Main Technical Parameter:

Model	SP-760A	SP-760B	SP-760C	SP-760D
Max. Forming Area	760*320MM	760*320MM	760*450MM	760*450MM
Max. Forming Depth	160MM(Can special design)			
Example	Cup Top Dia.=75mm,24cavities/mold		Cup Top Dia.=75mm,32cavities/mold	
Running Speed	15-32cycles/min (According to thickness,material used and product shape)			
Sheet Thickness	0.20-2.5mm			
Suitable Material	PP,GPPS,HIPS,PET,PVC,PLA,BIODEGRADABLE SHEET			
Lower Mold Movement	11KW Servomotor		15KW Servomotor	
Temperature Control Method	Temperature Controller and Temperature Control Module			
Water Consumption	0.5-1.0m3/h(recycled)			
Air Consumption	1.3-1.6m3/min, 0.6-0.8Mpa			
Sheet Feeding Method	2.2KW Motor	2.2KW Servomotor	4KW Motor	4.4KW Servomotor
Plug Stretching Method	Air Cylinder	5.5KW Servomotor	Air Cylinder	7.5KW Servomotor
Approx. Dimension	5000×1700×2400mm		5000×1700×2400mm	
Approx. Weight	8000KG		9000KG	