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## *HY-6000 Automatic Bottle Blow Molding Machine*



### DESCRIPTION :

HY-6000 is the fastest liner blow molding machine in mainland of China by now. HY-6000 reaches around 4500BPH for 1500ML bottle. Its baking tunnel is separated from the blow station so that time for mold opening is shortened with a result of speedy blowing and high output, damage to machine is lessened so as to keep reliable performance and prolong service life, as well as machine runs more smoothly and steadily.

HY-6000 is controlled by PLC. The whole process from preform feeding to bottle discharging is completed automatically with advantages of labor saving and no pollution. HY-6000 consists of three main parts: preform loading system, Heater channel & blow station.

### MACHINE FEATURES:

1. Machine use of advanced PLC control system , stable in performance, automatic preform feeding .
2. Strong penetrability and good and swift distribution of the heat by letting the bottles rotate by itself and revolute in the rails simultaneously in the infrared preheater
3. High adjustability to enable the preheater to preheat preforms in shapes by adjusting the light tube and the length of the reflecting board in the preheating area, and eternal temperature in the preheater with an automatic thermostatic apparatus.
4. High safeties with security automatic-locking apparatus in each mechanical action, which will make the procedures turn into a state of safety in case of a breakdown in certain procedure.
5. No contamination and low noise with the air cylinder to drive the action instead of the oil pump.
6. Air route design is divide into two parts ,
7. Ideal effect of the chilling with the chilling system
8. Low rejection rate: less than 0.3percent



## Equipment List:

	Model	Product name	QTY
HY-4000(4 cavity)	HY-6000	Main machine	1SET
	HY-6000	Auto-loader machine	1 SET
	4.8m <sup>3</sup> /30Bar	High pressure compressor	1SET
	2.0m <sup>3</sup> /12.5Bar	Low pressure compressor	1SET
	3HP	Water chiller	1 SET
	2.0m <sup>3</sup> /30Bar	Air cold dryer	1 SET
	1.0 m <sup>3</sup> /30 Bar	Air filter	3 SETS
	0.6 m <sup>3</sup> /30Ba	Air tank	1 SET
	6 cavity	Between 300ml-2L Bottle molds (7075 Aluminum)	1 SET

Container	Max Volume	L	2
	Max Neck Diameter	mm	38
	Max Container Diameter	mm	105
	Max Container Diameter	mm	335
	Cavity		6
	Theoretical Output	bph	5000
Electrical	Total Power	KW	47
	Heating Power	KW	44
	Max Heating Power	KW	60
Air Compressor	Operating Pressure	Mpa	0.7
	Low Pressure Consuming	L/min	1400
	Blowing Pressure	Mpa	3.5



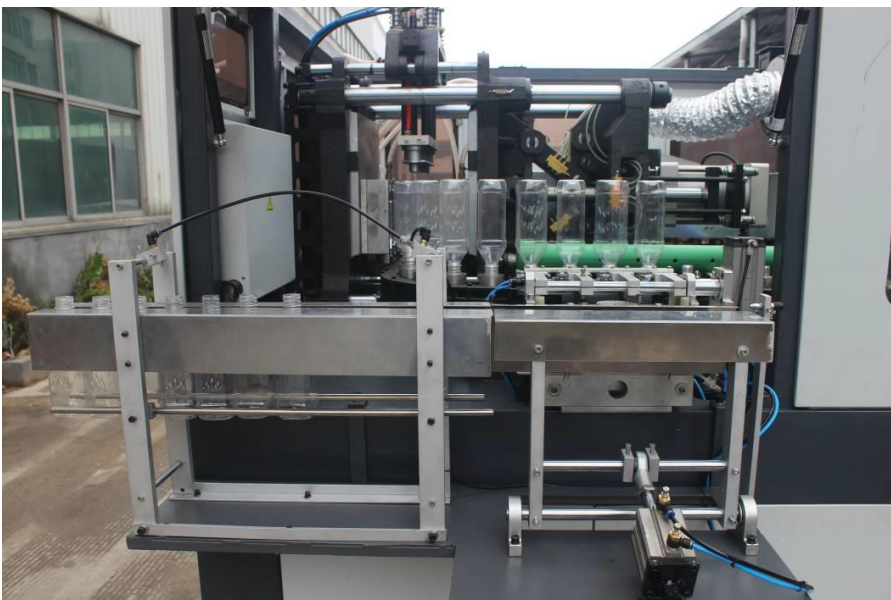
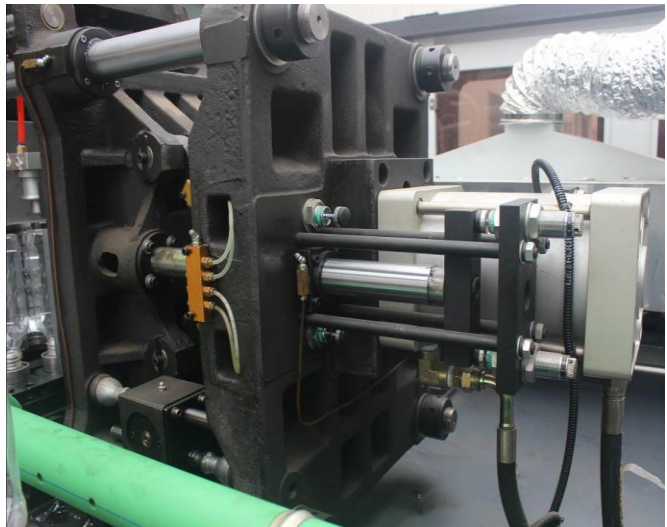
	High Pressure Consuming	L/min	3000-5000
Chiller	Pressure	Mpa	0.3-0.5
	Temperature	°C	
	Flow Rate	L/min	30
Machine	Machine Size	m	4.8x2.3x2.03
	Machine Weight	Kg	4500
Depending on bottle size, shape and weight.			
Depending on bottle size and operation conditions.			

## Main supplier of components

PNEUMATIC PARTS		
NAME	BRAND	ORIGIN
CLAMPING CYLINDER	FESTO	GEMANY
STRETCHING CYLINDER	FESTO	GEMANY
MOVING CYLINDER	FESTO	GEMANY
REVOLVE CYLINDER	SMC	JAPAN
PREFORM FEEDING CYLINDER	FESTO	GEMANY
SOLENOIDVALVE	FESTO	GEMANY
HIGH PRESSURE BLOWING VALVE	PARKER	AMERICAN
AIR THROTTLE VALVE	PARKER	AMERICAN
LOW PRESSURE PIPE	FESTO	GEMANY
AIR PIPE FITTING	SMC	JAPAN
ELECTRICAL PARTS		
PLC	MITSUBISHI	JAPAN
LOW VOLTAGE APPARATUS	SCHNEIDER	FRANCH
TEMPERATURE MODULE	MITSUBISHI	JAPAN
VOLTAGE ADJUSTOR MODULE	MITSUBISHI	JAPAN
PHOTOELECTRIC SWITCH	OMRON	JAPAN
PROXIMITY SWITCH	OMRON	JAPAN
INVERTER	ELTA	FAMOUS BRAND IN CHINA
CONTACTOR	SCHNEIDER	FRANCH
ROTATING MOTOR	TUNGLEE	TAIWAN
HEATING LAMP	HAICHUANG	FAMOUS BRAND IN CHINA

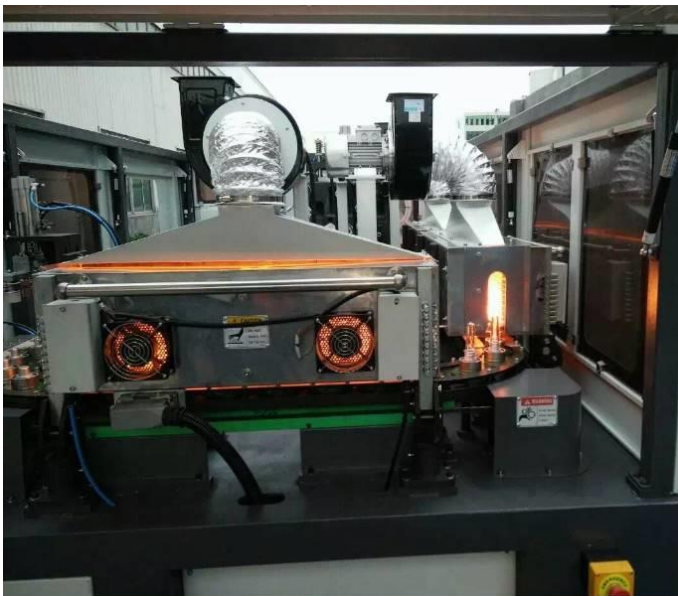
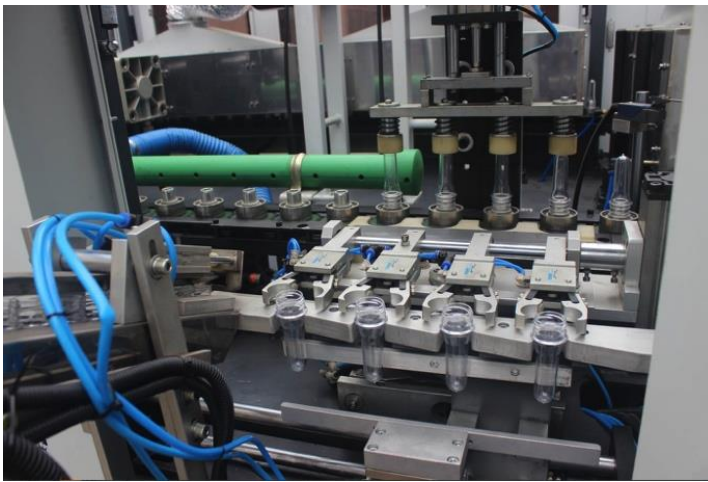


## Blowing part :





## CLAMPLING SYSTEM



Heating System

Configuration