

PET bottle automatic blow moulding machine specification

1. SUMMARY

The equipment will be added according to the Customer's bottle production capacity, the require as follow:

1.1 The purpose: Producing PET bottle for mineral/pure water

1.2 Production capacity: 3500BPH for 0.5L,3000BPH for 1.0L,2800BPH for 1.5L

2. Introduction & Specification

1.Profile

ATET-A4 full-automatic blowing machine is the most stable two-step automatic bottle blowing machine. It has four cavities, and is suitable for producing PET plastic containers and bottles in all shapes.

It is widely used to produce from 10-2000ML carbonated drink bottle,mineral water,pesticide bottle oil bottle cosmetics,wide-mouth bottle and cold fill bottle ect

The whole process is automatic operation

2. Fuction

- 1). Fully automatic process with low investment, high efficiency ,quick and safe operation,easy for trouble-shooting, maintenance and other benefits.
- 2). High Quality: Steady infrared heating system blowing and highly accuracy blow-mould closing system ensure quality.
- 3). High Speed:2500-3500BPH for 4 cavity for 10-2000ML bottle .
- 4). No Contamination:Closed production zone, good self-lubrication system avoid contamination.
- 5). Low Cost:Low consumption of electricity, air and water.
- 6). High Transparency:Easy maintenance, absolute safely, visual inspection, low noise.
- 7) Feeding system carries the preforms by robot automatically.
- 8). Infrared oven heater adopts the quartz lamp to heat the PET tube.
- 9). Reasonable design, full automatic control, save power and labor

3. Technical parameter

Model		ATET-A4
Capacity	0.25-1.5L	3500BPH for 0.5L,3000BPH for 1.0L,2800BPH for 1.5L
Mould	Cavity	4 pcs
	Max. Bottle diameter	200mm
	Max. Bottle height	330mm
	Max. Neck diameter	50mm
	Clamping force	2000KN
	Clamping stroke	230MM
	Stretching stroke	370mm
Main machine power	Power supply	380V/50Hz
	Total power	40Kw
	Heating power	38Kw
Air source	HP&LP air compressor	3.16m ³ /min,3.0Mpa
	HP air compressor	1.0m ³ /min,3.0Mpa
	Air dryer	3.0m ³ /min,3.0Mpa
Air tank		1.0m ³ /3.0Mpa
Machine dimension(L*W*H)		3800*1700*1800mm
Auto PET loader dimension(L*W*H)		1150*950*1850mm
Machine weight		3000Kg
Suitable materials		PET

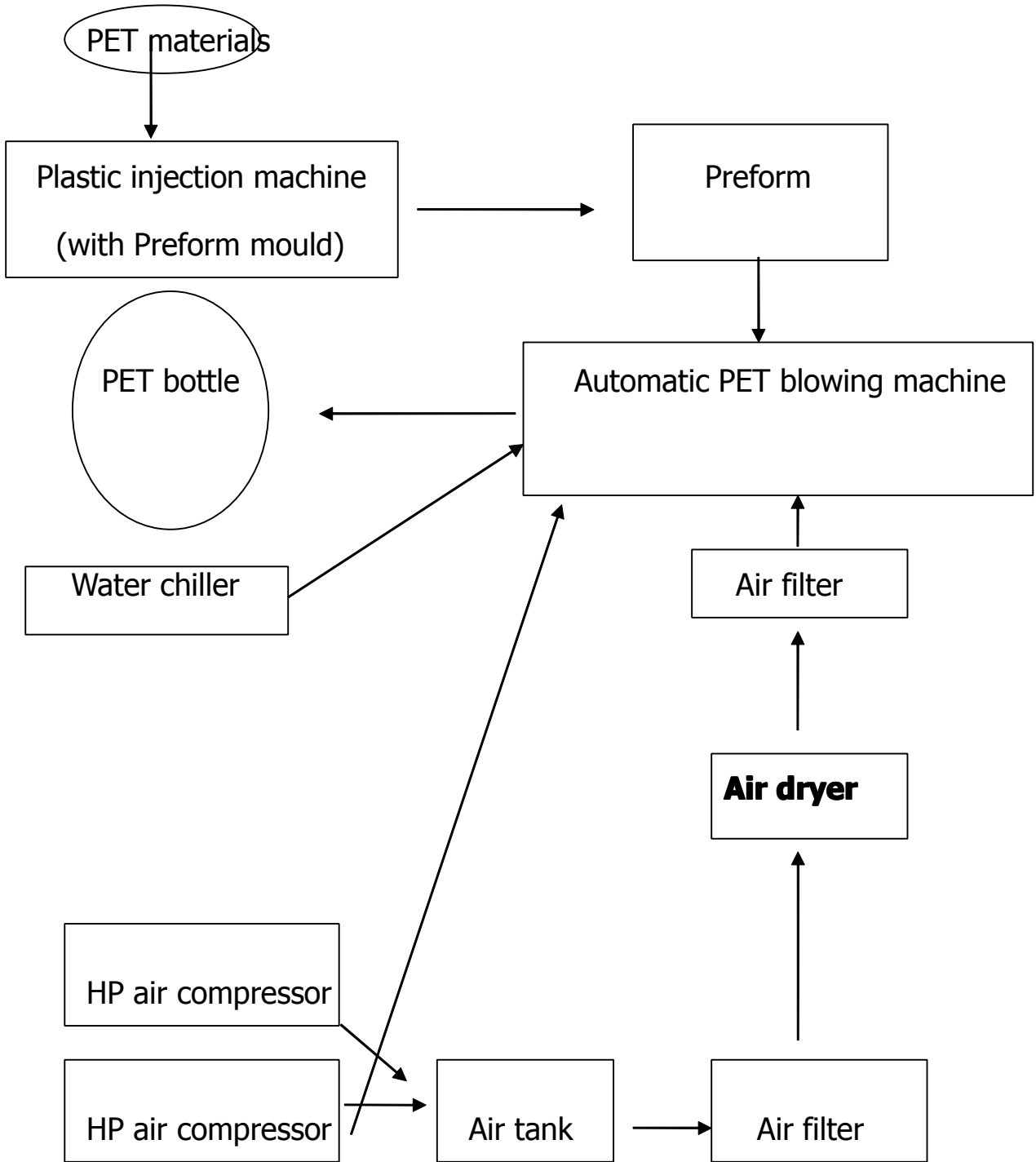
4. Main part

Item	Name of the main spare parts	Brand Name
1	Closing cylinder	German FESTO
2	Stretching cylinder	German FESTO
3	Moving cylinder	German FESTO
4	Mold lifting cylinder	German FESTO
5	Closing magnetic valve	German FESTO
6	Stretching magnetic valve	German FESTO
7	Blowing magnetic valve	German FESTO
8	Moving magnetic valve	German FESTO
9	Revolve cylinder	JAPAN SMC
10	Voltage regulator	CHINA
11	Voltage switch	JAPAN OMRON
12	Computer controller (PLC)	Mitsubishi –Japan
13	HMI SCRENN	TAIWAN WINVIEW 506L
14	Computer checking switch	JAPAN OMRON
15	Infrared lamp	CHINA
16	Moving valve	German FESTO
17	Open circuit controller (32A)	CHINA-delex
18	Heat continue controller (24A/220V)	CHINA-delex

5. Features

- A. Stable performance with advanced PLC.
- B. Conveying preforms automatically with conveyor.
- C. Strong penetrability&good& swift distribution of the heat by letting the bottles rotate by itself and revolute in the rails simultaneously in the infrared preheater.
- D. High adjustability to enable the preheater to preheat preforms in shapes by adjusting the tube and the length of the reflecting board in the preheating area, and eternal temperature in the preheater with an auto thermostatic apparatus.
- E. 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.
- F. No contamination and low noise with the air cylinder to drive the action instead of the oil pump.
- G. Satisfaction with different atmospheric pressure for blowing and mechanical action by dividing the blowing and action into three parts in the air pressure diagram of the machine.
- H. Strong clamping force with high pressure and double crank links to lock mold.
- I. Safe, reliable, and unique design of the position of valve to make the air pressure diagram of the machine easier to understand.
- J. Low cost,high efficiency,easy operation, easy maintenance, etc, with automatic technological process.
- K. Ideal effect of the chilling with the chilling system.

6. Production diagram



7. Machine Photo

