



To : Mr Hendrikus Heng

Date : 02 November 2017

CHM-E4000 automatic stretch blow molding machine

	Model	Product name	QTY/SET	FOB Price
CHM-E4000 Full –Automatic Blow molding machine (4 cavity)	CHM-E4000	Main body	1	1,250,000,000
	CHM-E4000	Auto-loader machine	1	
	1.0/30KG	High pressure air compressor 1.0M ³ /min	3	
	2.0/10KG	Low pressure air compressor 2.0 M ³ /min	1	
	2.0/30KG	Air cold dryer 2.0 M ³ /min	1	
	1.0/30KG	Air filter	4	
	0.6/30KG	Air Tank	1	
	3HP	Water chiller	1	
	4 cavity	Blowing mould (7075 Aluminium Alloy Steel) 500ML	1	

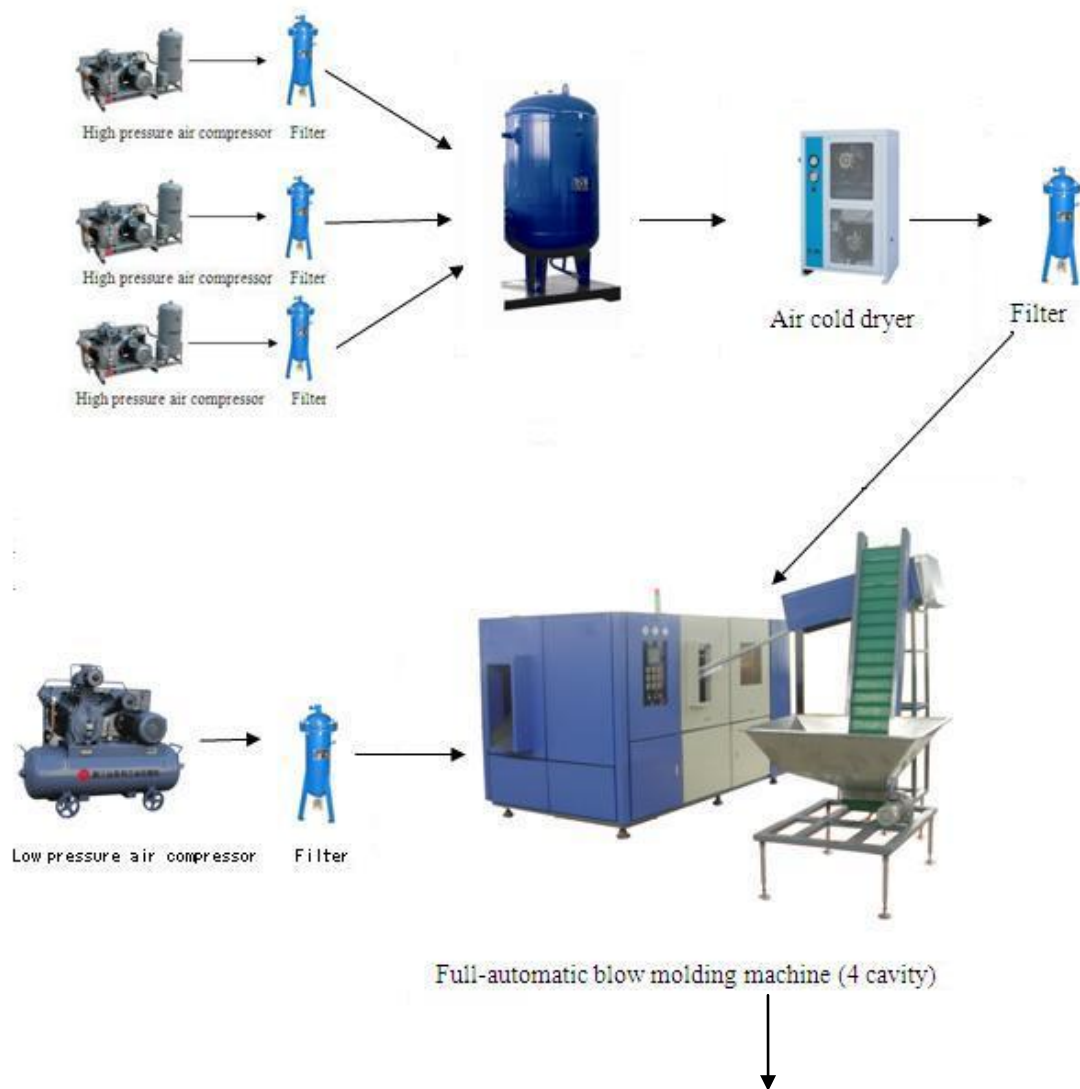
Notes :

1. This machine only need one worker to operate.
2. Delivery time: 90-120 days on receipt of the deposit and Bottle Drawing Approval
3. Warranty: 2 year Service Fee with 6 months exchange damage parts
4. The offer is valid in 30days
5. All machine electric Power is about 50KW .

Machine parts

Name	Brand	Original
Blowing cylinder	FESTO	Germany
Mould closing and opening cylinder	FESTO	Germany
valve	FESTO	Germany
cylinder	SMC	Japan
PLC	MITSUBISHI	Japan

HMI SCREEN	WEINVIEW / DELTA	Taiwan
Switch	OMRON	Japan



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CHM-E4000 is the fastest liner blow molding machine in mainland of China by now. CHM-E4000 reaches around 4000BPH for 350ML 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.

CHM-E4000 automatic stretch blow molding machine is equipped with patented preform loading system, which consists of two manipulators: rectilineal manipulator and overturning manipulator. The rectilineal manipulator moves preform with neck up to the preform holder, after heating, the overturning manipulator grips heated preform and overturn 180 put preform to blow station with neck down. After stretching and blowing, the bottle is taken off by overturning manipulator. The specially designed preform loading & bottle discharging system avoid possible damage to preform & bottle during transportation.

CHM-E4000 is controlled by PLC. The whole process from preform feeding to bottle discharging is completed automatically with advantages of labor saving and no pollution. CHM-E4000 consists of three main parts: preform loading system, Heater channel & blow station.

Auxiliary Equipment:

 A high-pressure air compressor unit, featuring a grey cylindrical tank with a vertical orientation. It is mounted on a black metal frame. The unit includes various pipes, valves, and a pressure gauge. The text 'MANJING HEN' is visible on the tank, and '新三达系列压缩机' (Xin Sān Dá Series Compressor) is printed on the front panel.	 A low-pressure air compressor unit, featuring a blue cylindrical tank with a horizontal orientation. It is mounted on a black metal frame with four wheels. The unit includes various pipes, valves, and a pressure gauge. The text '新三达系列工业压缩机' (Xin Sān Dá Series Industrial Compressor) is printed on the front panel.
High pressure air compressor	Low pressure air compressor

	
High pressure air tank	Air cold dryer
	
Filter	blowing mould

Control system

	Together with HITECH Man-Machine Interaction (MMI) control panel with user-friendly, the whole control system presents super performance with precise control, convenient parameter setup, obvious display and reasonable memory.
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Pneumatic system

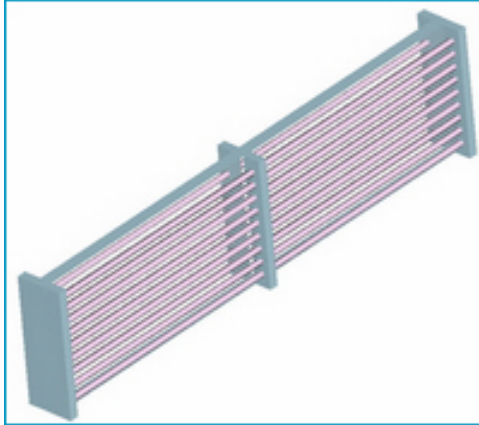
Pneumatic system provides the power for CHM-E4000's movement. It is equipped with world famous high quality pneumatic components such as Festo from Germany, high precision, long service life and reliable performance are their highlights. Those pneumatic components suppliers' global service network provides the customer their prompt after-sale service locally for their pneumatic products used on CHM-E4000

Sensor system



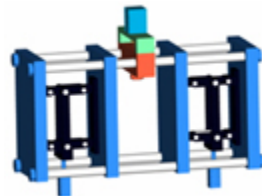
CHM-E4000 adopts high quality imported sensor & switch system including proximity switch, photoelectric switch, and electronic magnet switch to keep production process going step by step and avoid any possible damage on machine.

Heating system



CHM-E4000 automatic stretch blow molding machine adopts infrared type heating mode, whose superior thermal-radiation and thermal penetrability provide machine with powerful heating to meet strict preform heating requirement under speedy moving. Infrared heating lamps placed onto three heating zone with 10 sets of independent voltage adjusting module and advanced microcomputer controller, can offer ideal heating for preform in different size. Each lamp's horizontal position is adjustable to keep the machine flexible.

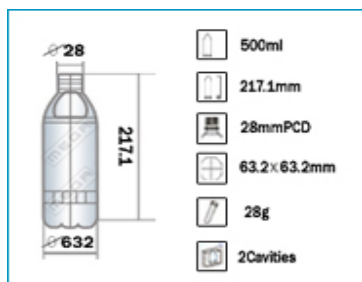
Clamping system



CHM-E4000 adopts four-plate type toggle clamping unit to provide powerful clamping force and increase the clamping speed. Apart from the four-plate type toggle clamping unit, there is a high pressure assistant clamping device that is special designed to get a firm clamping.

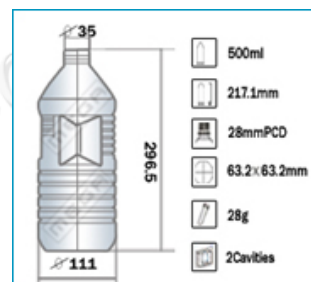
Finished PET bottle samples produced by CHM-E4000 as follow:

Carbonated Drink Bottle



Water Bottle

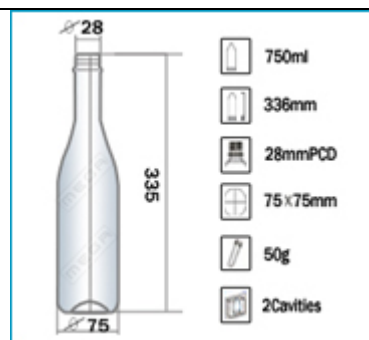
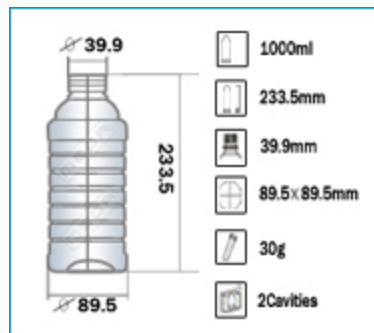
Edible Oil Bottle



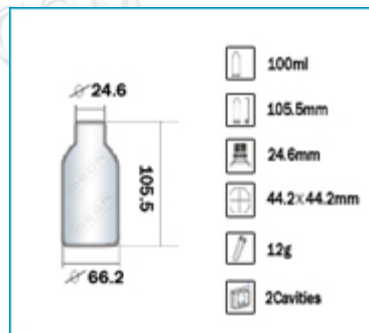
Wine Bottle



Pesticide Bottle



Medicine Bottle



Operation:

The standard operation of CHM-E4000 stretch blow molding machine includes four steps as follow
 Step 1. Put the preform into preform container and the conveyer will take the preform to orientation units automatically.

Step 2. Load the preform at neck up to preform holder, and then preform is conveyed into baking tunnel.

Step 3. After heating, preform is conveyed into the blow station, then close the mold, stretch and blow under low pressure and high pressure, exhaust, open the mold.

Step 4. The finished bottle is taken off by automatic discharging system

Features:

A. Stable performance with advanced PLC.

B. Conveying preforms automatically with conveyor.

C. 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.

D. 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.

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 the mold.

I. Two ways of operating: automatic and manual.

J. Safe, reliable, and unique design of the position of valve to make the air pressure diagram of the machine easier to understand.

K. Low cost, high efficiency, easy operation, easy maintenance, etc, with automatic technological process.

L. Contamination is avoided for the bottle body.

M. Ideal effect of the chilling with the chilling system.

N. Easy installation and starting

O. Low rejection rate: less than 0.3percent.

Technical parameter

TYPE	ITEM	UNIT	CHM-E4000 technical data
Container	Product material	/	PET
	Container volume	L	0.05-2.0
	Theoretic output	Psc/hr	4000
	Preform length	MM	50-200
	Max height of bottle	MM	360
Molding	Preform inner diameter	mm	15-60
	Bottle diameter	mm	35-110
	Max mold plate dimension (L × W)	mm	380 × 460
	Max mold thickness	mm	300
Air compressor	High pressure compressor	M3/Mpa	1.0/30 × 3set
	Locking force	KN	170
	Mold opening stroke (adjustable)	mm	200
	Low pressure compressor	M3/Mpa	2.0/10 × 1sets
	Air dryer	M3/Mpa	2.0/30 × 1sets
Main machine electricity	Power	KW	30
	Voltage / frequency	V/Hz	380/50hz
Machine size and weight	Main machine (L × W × H)	M	4.2 × 1.8 × 2.0
	Main machine weight	T	4.2
	Conveyor (L × W × H)	M	1.4 × 1.1 × 1.85
	Conveyor weight	T	0.4
	High pressure compressor (L × W × H)	Kg	1.90 × 0.75 × 1.50 × 3sets
	Low pressure compressor (L × W × H)	M	1.85 × 0.75 × 1.50
	High pressure air reservoir tank	M	0.70 × 2.25/3.0

	(D × H)		
	Air dryer (L × W × H)	M	0.85 × 0.50 × 0.95
	Air filters	Kg	10 × 5pc
Cooling water: cooling water recycling system can be used with its power of 8~10 liter per minute and 2~3 kilos water pressure			
Total power: 60high pressure air volume (1m/min); low pressure air volume (1.2m/min)			
Safety	Auto emergency alarm	Safety inter-locking device	

1. Semua perbaikan unit sebagai bentuk Jaminan After Sales Service dikerjakan oleh tenaga teknisi internal kami sendiri
2. Mesin kami menggunakan spare part yang umum dan mudah diperoleh dipasaran
3. Penggantian beberapa merek Komponen dimungkinkan atas permintaan pembeli. Untuk merek PLC, kami memberikan Opsi : Panasonic, Delta, Omron, dan LS (LG Korea)
Penggantian dengan merek-merek tersebut tidak merubah harga.
Kami tidak memberikan Opsi lainnya karena merek-merek ini yang menjadi basis kerja kami dan para teknisi di CV Carmel Hill Machinery
4. Garansi yang diberikan adalah 2 tahun Jasa Service dan 6 bulan Replace Parts.
Garansi Jasa Service dalam bentuk Free Biaya Jasa Service
Garansi Replace Parts dalam bentuk penggantian parts yang rusak akibat kesalahan pabrik dalam waktu 6 bulan dari tanggal pengiriman unit. Part yang diganti adalah part yang rusak bukan karena kesalahan pemakaian atau kesalahan pengoperasian.
Garansi Program PLC dan HMI seumur barang. Program PLC dan HMI diberikan tanpa biaya jasa pemrograman.
Semua Garansi tidak termasuk biaya akomodasi teknisi, meliputi : transport PP, tempat tinggal layak, dan makan selama bertugas.

CV Carmel Hill Machinery

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