

QUOTATION

500ML 10000BPH FLAVOR DRINK BOTTLING LINE

EQUIPMENTS DETAILS



CV CARMEL HILL MACHINERY

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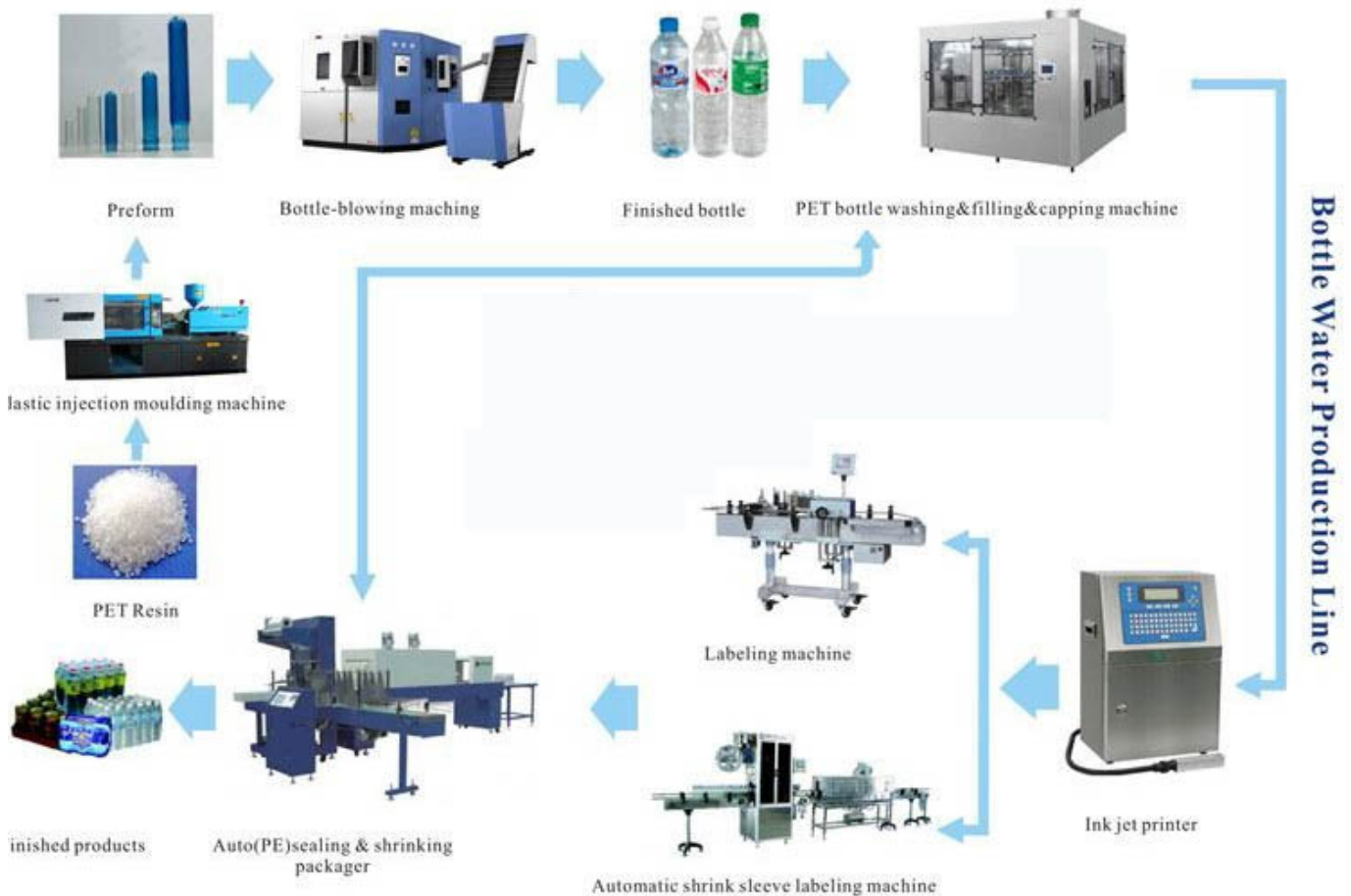
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I : Workflow of Production Line



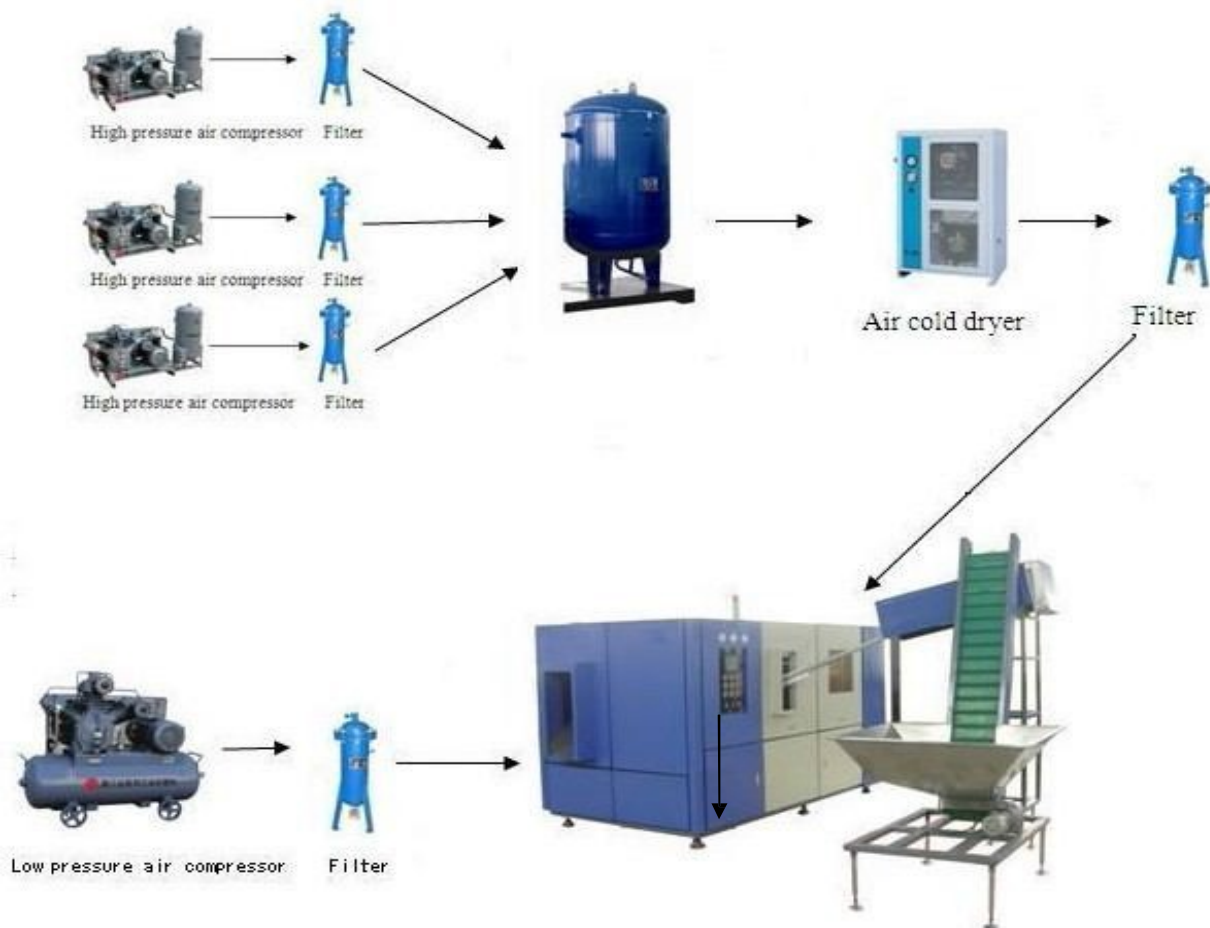
Working Process:

1. Worker feeds bottle preform to the preform loader. These preforms will be fed into the blowing machine automatically. Then the blowing machine makes the bottle with these preforms. The finished bottle comes out from the blowing machine to the air conveyor.
2. The bottle in air conveyor is conveyed to the Washing/Filling/Capping 3-in-1 machine. The machine does the washing, filling and capping automatically. The cap feeder can feed the cap to the 3-in-1 machine automatically.
3. The auto labeling machine sticks the label to the bottle. Then the label will be shrunk by the shrinkage tunnel.
4. When the bottle passes the Ink-jet machine, the machine will print the preset info (manufacturing date or expiry date etc) on the bottle or cap.
5. The bottles are conveyed to the shrink wrapping packing machine. Firstly the bottle will be sorted by the shrink wrapping packing machine in two lines or three line according the request for packing(such as 6 bottle, 12 bottle or 24 bottle per pack etc). Then one batch bottle will be sealed with PE film. The sealed pack will be conveyed to the shrinking tunnel. After passing the shrinking tunnel, the pack will be shrunk well. This kind package will be easy for the storage and transportation.
6. The workers move the packed bottles to the storage ware house.

II : Price List

Item	Description	Model	Qty	Unit Price (FOB Surabaya) IDR	Remark
0	Automatic Stretch Blow Molding	CHM-E6000	2	3,700,000,000	5000BPH(Two Sets)
1	Mixing jar for flavor drink	CHMR-2000	2	180,000,000	2000L, double layer heat preservation, one
2	Double Filter	ZHP-4	1	22,000,000	Water flow 5T
3	beverage pump		1	6,500,000	370w, Water flow 5T
4	CIP Cleaning System	QHS-1500	1	150,000,000	Don't including the pipe.
5	Mixing Pipe			36,000,000	15M
6	Ozone Oxygen Mixer Machine	OZ-10G 5L Oxygen 075pump 2T water tank	1	45,000,000	2T/h washing water 10G
7	Bottle organizing machine (Unscrambler Machine)	LP-18	1	525,000,000	
8	Washing-Filling- Capping 3-IN-1 Filling Machine	CHM 323210	1	985,000,000 Different bottle change part for 7,500,000/SET	10000BPH 2m conveyor ,2m air conveyor ,
9	Air conveyor adding part		4 m	26,000,000(6,500,000/ m eter)	Including air motor
10	Conveyor adding part			4,700,000/meter	
11	Automatic Labeling and shrinkable machine	CHM-S250	1	425,000,000 Different bottle change part for 8,500,000/SET	6m conveyor 18kw Steam Generator 1.6M Shrink Tunnel
12	Full-Automatic Shrink-Wrapping Packing Machine	CHM-350A	1	390,000,000	Maximum speed: 28800pcs/hour Minimum speed: 11500pcs/hour
	Ink-jet printer	CHMS5	1	75,000,000	
Total Amount : 6,737,500,000 (FOB Surabaya)					

CHM-E6000 Automatic Stretch Blow Molding Machine



Notes :

1. This machine only need one worker to operate.-
2. Warranty: one year with one year exchange damage parts .
3. All machine electric Power is about 80KW .

JND-E6000 Full –Automatic Blow molding machine (6 cavities)	Model	Product name	QTY/SET
	CHM-E6000	Maibbody	1
	CHM-E6000	Auto-loader machine	
	1.2/30KG	High pressure air compressor 1.2M ³ /min	3
	2.0/10KG	Low pressure air compressor	1
	4.0/30KG	Air cold dryer 4.0 M ³ /min	1
	1.0/30KG	Air filter	5
	1.0/30KG	Air Tank	1
	3HP	Water chiller	1
	6cavity	Blowing mould(600ml)	1
Output	600ML 5000pcs/hr		

Machine parts

Name	Brand	Original
Blowing cylinder	FESTO	Germany
Mould closing and opening cylinder	FESTO	Germany
valve	FESTO	Germany
Revolve cylinder	SMC	Japan
PLC	MITSUBISHI	Japan
HMI SCREEN	WEINVIEW / DELTA	Taiwan
Switch	OMRON	Japan

CHM-E6000 is the fastest liner blow molding machine in mainland of China by now. CHM-E6000 reaches around 5000BPH 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-E6000 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-E6000 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_E6000 consists of three main parts: preform loading system, Heater channel & blow

station.

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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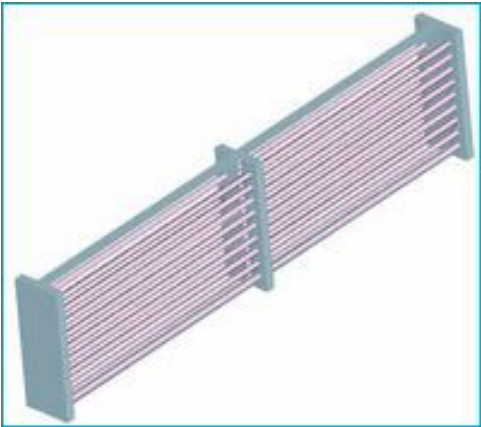
Pneumatic system

Pneumatic system provides the power for CHM-E6000'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-E6000

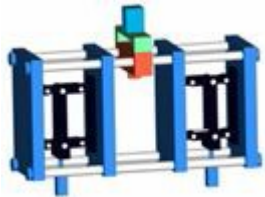
Sensor system

	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.
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Heating system

	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.
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Clamping system

	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.
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Finished PET bottle samples produced by CHM-E6000 as follow:

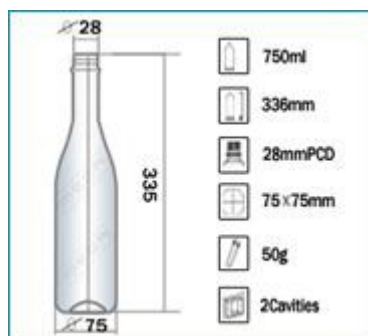
Carbonated Drink Bottle Edible Oil Bottle



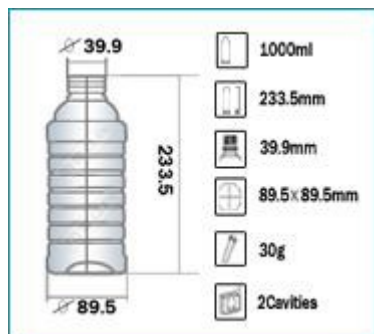
Water Bottle



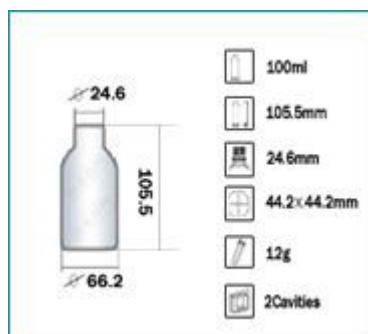
Wine Bottle



Pesticide Bottle



Medicine Bottle



Operation:

The standard operation of CHM-E6000 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

Technical parameter

TYPE	ITEM	UNIT	CHM-A6 technical
Container	Product material	/	PET /PC
	Container volume	L	0.05-3.0
	Theoretic output	Psc/hr	5000
	Preform length	MM	50-200
	Max height of bottle	MM	320
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	200
Air compressor	High pressure compressor	M3/Mpa	1.0/30 × 4set
	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	4.8 × 2.15 × 1.8
	Main machine weight	T	5
	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 (D × H)	M	0.70 × 2.25/3.0
	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: 51.9 high pressure air volume (1m/min); low pressure air volume (1.2m/min)			
Safety	Auto emergency alarm	Safety inter-locking device	

Mixing jar



Summary:

This Jar is suitable for mixing and preparing dairy food. and beverage. It is one of necessary equipments for beverage production line.

Volume : 2000L ;

Working method:Open type stirring ;

Stirring speed : 36r/min ;

Working pressure : 0.15Mpa ,

Test pressure : 0.3Mpa

Mixing Power : 0.75Kw , 380V/50Hz ;

Beverage pump



The welding quality of SUS304 stainless steel stamping flow part and the inner surface of the material, sandblasted, has the characteristics of clean, simple structure, long service life, with a "HACCP" sanitary standard of food safety and hygiene standards of food machinery GB16798-1997;

Flow rate :	5m ³ /h ;
delivery :	16m ;
power :	0.75Kw ,
Rotate speed	1450r/min ;
Size :	350×265×320mm ;

ZHP-4 Double Filter



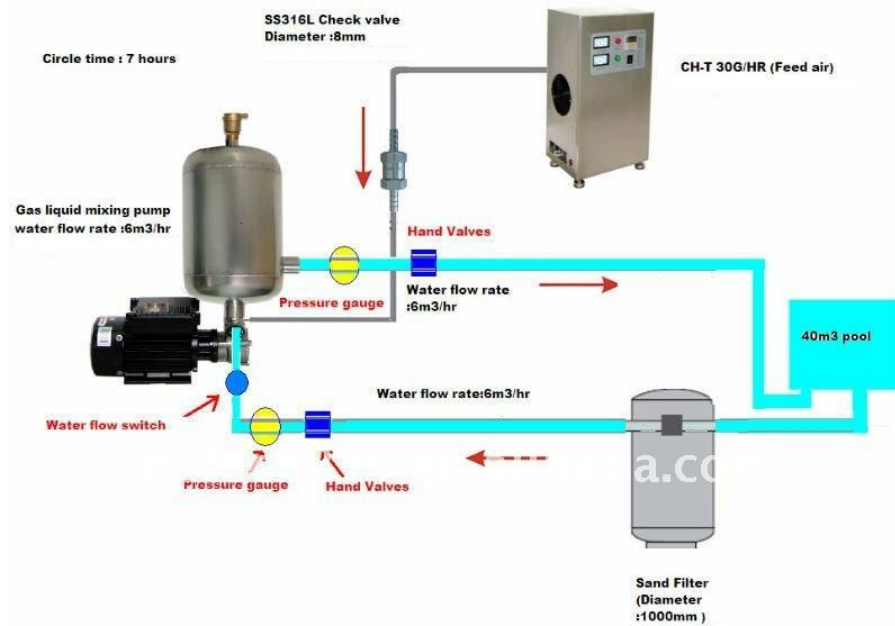
Summary:

The equipment is mainly used to get rid of all kinds of invisible solid impurities in fresh milk, sugar solution, drinks and other liquid, the two filters can filter in turn and filter-cloth can be changed in the production process.

Information:

Model	ZHP-4
Filtering Area(m ²)	0.15
Filter Temperature(°C)	≤100
Pressure(Mpa)	<0.25
Filter Spec	80-120 mesh
Dimension (L×W×H) (mm)	920*420*1000
Diameter of Inlet and Outlet	DN32
Weight(kg)	60

Ozone Mixer System



Ozone is a strong oxidant and disinfectant. Ozone disinfection responses quickly . Persistent residual in water; no secondary pollution; adaptability. Also a significant role in the preservation and improvement of finished water. The system by the ozone generator, oil-free compressor gas-liquid mixing pump, clean and dry compressed air as raw material, high ozone production, gas-liquid mixing, thorough disinfection.

设备包括 Machine including

Oxygen generator	oxygen extract from air	5-10L/min
Speed of Ozone	Ozone extract from oxygen	10G/min

Pump	Circulate the pure water	0.75KW
Jet Device	Max the pure water and ozone	Stain steel
Water tank		2T
Electrical control system		1SET

Bottle organizing machine --- LP-18



LP-18 Bottle organizing machine is developed and manufactured on the basis of imported technology, meeting with the high-speed demanding of civil market.

I, Main Features

The decelerator for the main engine adopts the torsion-restriction structure, which can prevent damage when broke down.

It organize the bottle by twice raising, which assure every station has the bottle, improving the efficiency.

It adopts wind transmission by suspending bottle mouth, which can avoid the bottle turnover

It has the damaged-bottle kicking-off system.

It has bottle-blocking inspection, which can give an alarm and stop when there is bottle blocked.

It has the no-bottle sensor, which can send out the working signal to the elevator to supply the bottle automatically.

There is photoelectricity switch in wind transportation channel, which can control the on-off of the machine.

It has oil injection mouse, which can fill in the lubricating oil to the wheel gear/axel bearing/cam.

It has the maintenance door and mold changing door.

Main electrical opponents like frequency converter/PLC/photoelectricity switch/electric relay use the brand of MITSUBISHI、OMRON、SIEMENS etc.

Air system parts are imported .

II Technology Parameter

. Station no. : 18

Speed : 12000-13000B/H

Maximum Speed : 13000B/H

air pressure : 0.7MPa

air consumption : 1.5 M³/ min

suitable bottle : Diameter 50 - 90 , Height 165 - 290

Main engine power : 1.5KW

Elevator power : 0.75KW

Dimension : Φ2640×2300 (Diameter X height)

Total Weight : 2000Kg

323210

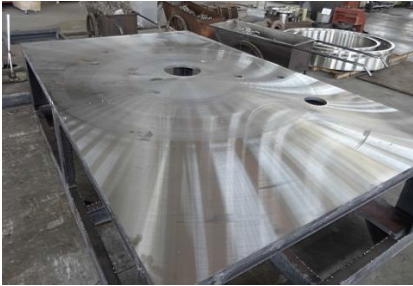
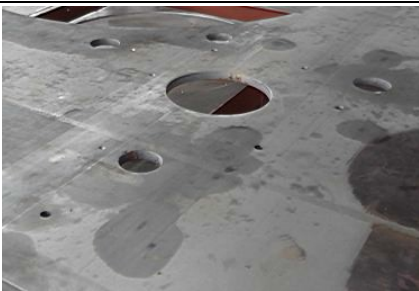
**Washing-Filling-Capping
3-IN-1
Filling
Machine**



Our factory has processing centers, CNC machine tools, large grinding machine, laser cutting equipments and other mainframe processing equipment, it can insure to carry out a full range of machine processing, high precision, less mobile, the machine can be polished one-time drilling and other operations, avoiding mobile errors caused by holes in the machine and wearing, etc.



Comparison :

Ours	Other factory
	
the platform panel are grinding smoothly,to keep vertical	No grinding,it is not vertical.
	
Machine feet are made of SS304 material to ensure no rust while filling water.	Machine feet are made of iron, it is easy to rust while filling water.
	
Laser drilling which can be reduced punch position and wearing when moving.	Hand drilling, holes can not guarantee the accuracy and verticality.



The conveyor and feet are made in one piece.



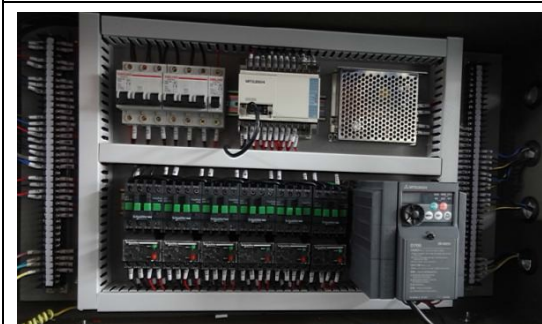
The conveyor and feet are Welding.



Bottle sending parts are strong and stable.



Bottle sending parts is thin and easy to deform.



All electrical parts are genuine international brands



All electrical parts are made in China

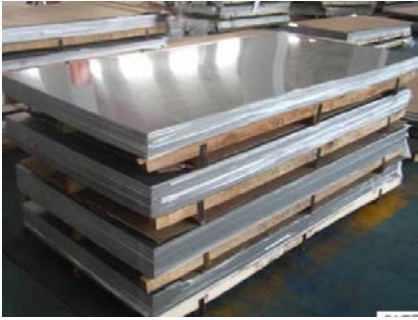


Nanfang Pump



Lingxiao Pump



The best filling valve in the industry's	Ordinary filling valve, easy to leak
	
High quality stainless steel sheet, plate thickness is 1.5 mm	plate thickness is 1.2 mm

This bottling Filling machine is fully automatic for Washing, filling and capping for the non-carbonated drink such as purified water, mineral water etc. The technology is from Italy.

I 、 Features:

1)The intermittent rotary spray wash, sent from the bottle, folder bottle shelves, inverted bottle stand up, synchronization bottle spray up to drain the bottle into the filling.

2) Filling with a unique clamp, to ensure Alignment the bottle with filling head accurately, avoid the leakage phenomenon due to the bottle is not round or bottle skew.

3)The inverter is from Japan's Mitsubishi, man-machine operating interface (touch screen) is Taiwan's Weinview/Delta, Programmable Logic Controller (PLC) is Japan's Mitsubishi, all production line is controlled automatically.

Protection functions: when it is lacking of caps, the host stops automatically.

Display functions: production speed (output), production quantity (can be cleared), fault automatic pop-up interface.

4)Capping head is working with magnetic clutch, Capping torque is adjustable to ensure the capping accuracy.

All parts that contact with the water are made of high quality stainless steel.

II、 The main technical parameters:

Model	CHM323210
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Product Capacity	500ml、 11000 ~ 12800Bottles/Hour
Washing Head	32
Filling Head	32
Capping Head	10
Suitable bottleneck Size	Φ40-Φ105mm
Suitable bottle Height	≤330mm
Suitable bottle volume	≤2500ml
Main frame Power	Nanjing(China) 5 kw
Electronical Fan Power	Longxin(China) 0.75 kw
Washing Pump Power	Nanfeng (China) 0.75 kw
Cap-managing machine Power	Tongyu(China) 0.18 kw
Cap-feeding machine Power	Longxin(China) 0.55 kw
Transport Engine Power	Tongyu(China) 0.75 kw
Vacuum pump Power	Longxin(China) 0.75 kw
Water Pump Power	Hangzhou(China) 0.75 KW
Total Power	8.5 kw
Outer Size	4.7×2.2×2.1 M
Weight	5500 kg
Reducer	Jiacheng(China)
Inverter Power	Japan Mitsubishi
PLC	Japan Mitsubishi FX1S-20MR
Touch Screen	Taiwan Weinview/Delta
Contactoer	French Schneider
Position Sensor	Korea AUTONICS
Buttons, lights	ABB
Pneumatic components	Taiwan AIRTAC

III、Washing Part



- 1)Capping heads and washing frame are made of SUS304 stainless steel.
- 2)The rotation clamp is controlled by the rotation equipment that is set below the nozzle in the bottle.
- 3)The sealing material contact with the product is food-grade ozone-resistant material.
- 4) Control Washing water is from Pump.the water pressure is up to 1.2-2 kg / cm ²
- 5) Bottle anti-splash device

IV、Filling Part



1), All stainless steel structure: the filling valve is made of SUS304 material. The finished products tank is also made of SUS304 stainless steel tank.

2) Internal structure: the drive device with variable speed role, star model drive gear.

3) Upper structure: bottle wind conveying device (2M), bottle clamp trackwheel devices, filling part, washing part, capping part, finished bottles output chain (2M); filling valve guide ring used to avoid friction; the Grameen ring and O-silicone seals, sealing performance, filling fast and accurate level.

V、Capping part



- 1) Improved design based on the advanced technology from Italian AYOL company.
- 2) bottle-feeding is working through the trackwheel device of filling machine.
- 3) using PICK-PLACE advanced magnetic adjust torque technology, with height adjustment device.

VI、 Transmission System

- 1) Centralized transmission, washing, filling, and capping are running coordinated by one single motor.
- 2) The backplane using advanced high-pressure water jet cutting, precision machining of CNC machine tools, the precise size, precise positioning.
- 3) the domestic high-quality motor is controlled by PLC through the frequency converter.
- 4) Direct drive gear reducer, stable operation, maintenance easily.

VII、 Electronically controlled pneumatic system

- 1), electrical control box, pneumatic adjustment panel.
- 2) Japanese Mitsubishi series programmable controllers (PLC), Japanese Mitsubishi Inverter, Taiwan Weinview/Delta touch screen (HMI), France Schneider contact relay, France Schneider air switch, ABB button switch, Korea AUTONICS sensors. Pneumatic part adopts the the Taiwan AIRTAC pneumatic components.

VIII、 Introduction of Capping-manager System and Main frame.

- 1) The capping-manager system is in the right side of main frame, and parallel with conveyor system. align the cap-sending mouth with the cap plate, then fix the main frame and conveyor system by the accessories.
- 2) Connect the control wire of Capping-manager System to the main electrical control box by the Electrical schematic.
- 3) Start the capping-manager machine, check whether the capping-manager machine and cap-sending machine are working well. click the cap-sending button, and check whether the cap-sending cylinder is working well.
- 4) regulating the capping-manager machine and cap-sending system, to make sure that all the cap are in the same direction.
- 5) click the cap-sending button, regulate the height of capping-manager system to make sure that the level of

cap-sending mouth is 1mm higher than cap plate; then the cap will be sent to cap plate easily. Then switch off the cap-sending button to ensure all the cap cannot be sent to the plate.

6) Start the main frame and feed into an empty bottle, adjust the position of the bottle test and position test sensor switches (Set before factory off), so that the two sensor switch can work well, then feed a cap into plate. Then the capping head seize the cap and rotate to the bottle.

CHM-S150 Automatic Labeling and shrinkable Machine



1. Whole machine adopt qualified stainless steel and good-quality of aluminum alloy , compact and reasonable fracture, convenient to adjust ;
2. The label roll frame of shrinkage film with adjustable device, convenient to adjust according to differ volume label 5" ~10" paper tube.
3. Simply installation, then can convenient for square and round bottle.
4. No need of instrument, rotary mechanism is convenient to adjust, apply to different bottle type.
5. Unique sleeve labeling method, adopt pressing sleeve labeling method, not only convenient but also reasonable.
6. Control the feeding system automatically, and flat the shrinkage film and adjust strain simultaneity.
7. Unique design knife plate, in the determined range, can change the knife base. Knife changing quickly and conveniently.
8. Middle guide-pole clip system, mould changing quickly, no need any instrument.

9. Label location system, can promote and demote in-phase adjust location according to specific bottle type requirement.
10. Imported servo system and high-sensitivity photoelectric from Japan, with high cutting precision of label.
11. Stainless steel electric control cabinet, OMRON PLC, imported from Japan.
12. Adopt advanced man-computer Interface auto controlling technology, key electric component all adopt international famous industrial brand.

II、Technology parameter :

Production capacity : 9000b/h (take label length 80mm bottle type 500ml as norm) ;

Label specification : $\varnothing$ 30~125mm ;

Bottle & can

diameter : $\varnothing$ 28~125mm ; Label

length : 30~250mm;

Label thickness : $\geq$ 0.035mm;

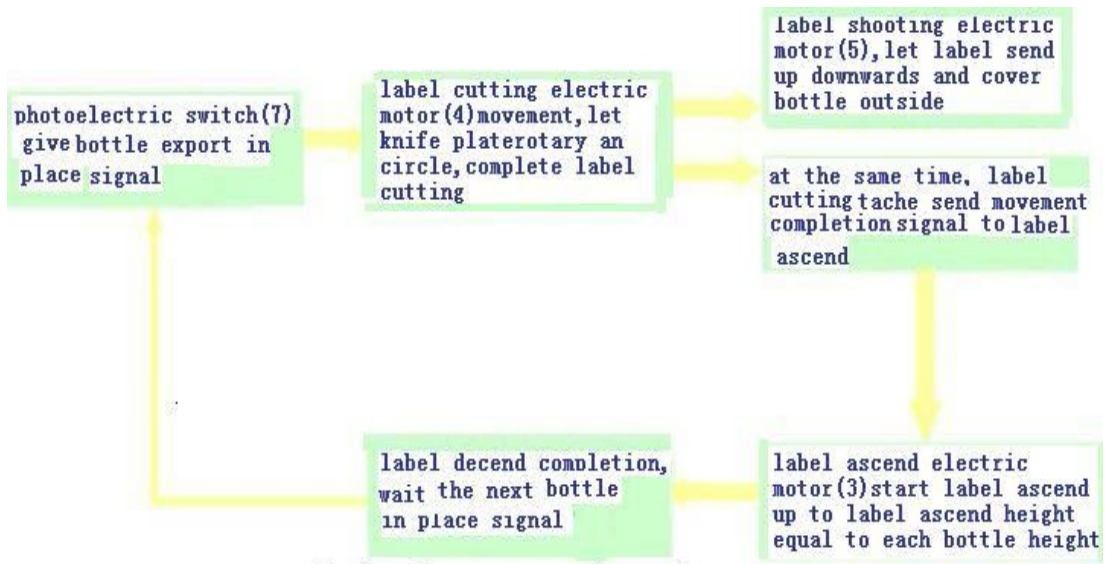
Label material : PVC/PET/OPS ;

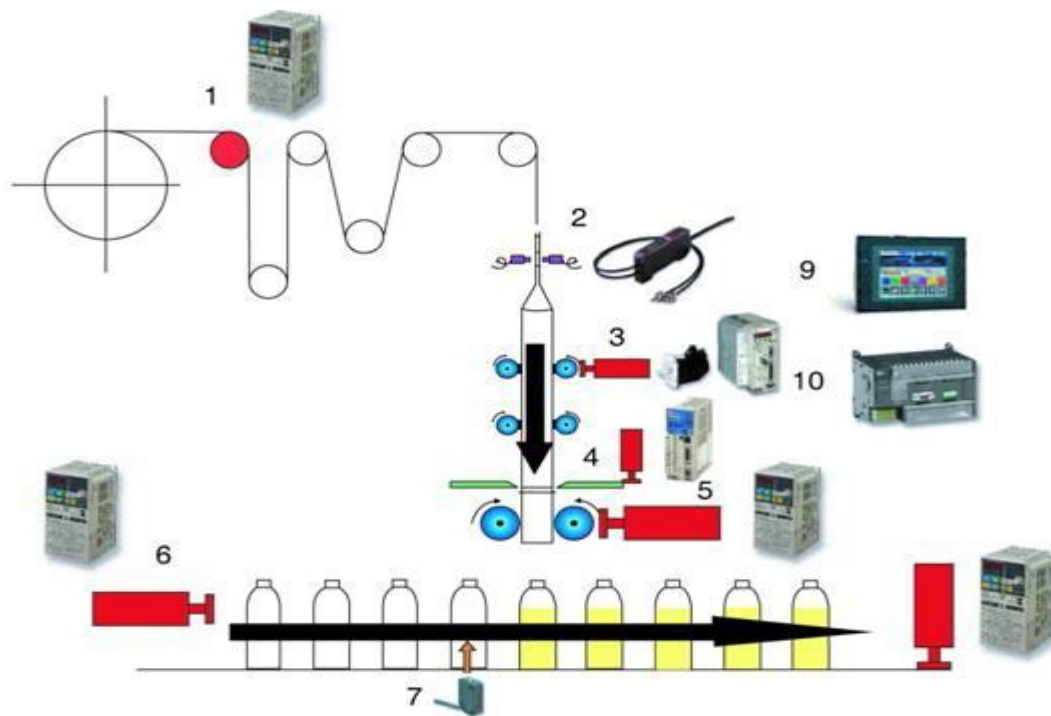
Main machine power : 3KW (220V , 50HZ)

External size: 850×800×2180mm

Weight: 450kg

III、Technology procedure :





IV、 steam shrinkage tunnel and steam generator :

Steam shrinkage steam

(I) facility description :

1. New type of bottle label steam shrinkage tunnel, label shrinkage steam machine, label steam thermo shrinkage tunnel, label steam tunnel, thermo shrinkage have increased the thermo-shrink efficiency; regarding different and unreasonable round, square, flat bottle ect. bottle type, we can adjust and maintain convenience, shrink flatly.
2. Steam eject type adopt to Steam drums design type, adjustable steam diversion kerb system, tube is smoothly and not occupy room, eject exit mouth each side divide three passage, each passage height or low, fore and after gas output volume all can adjust, up to max perfect efficiency .
3. Low-pressure Steam drums adopt to no-seam steel tube, each connected tube use stainless steel tube quick connector, easy to discharge and install.
4. Whole machine outer shells adopt stainless steel SUS304, save energy and accord with foodstuff safe criterion.
5. Bottom stainless steel water plates concentrate cool condensation water can exclude via tube connected, working circumstance don't affect, case body vision window fore and after each has two.

6.Whole machine adopt to water-proof design, made from stainless steel, easy to manipulation and maintain.

(II) technical parameter :

- power : 380V , 18KW
- steam use volume : 24Kg / hr
- steam pressure : 0.3~0.45MPa
- external size : 680×560×1300mm (L×W×H)

V.Steam generator

Product mechanism character :

- ◆small electric thermo steam oven with compact structure and small cube, machine inner set auto water replenishing bump, and set auto water-level controlling, pressure controlling, can work continually.
- ◆water of the oven is lower than 30L, avoid complex annual YSR
- ◆water volume in the oven is less, with high working pressure, high steam temperature, can solve many users high-pressure steam requirement efficiency.
- ◆ Steam output valve not only can connect hard tube but also can connect anti-high temperature steam rubber tube flexibly and save the space effectively.
- ◆ whole machine occupy area is small, convenient to move and install.



Product technological parameter :

model		LDR-18-0.4-Z			
item	unit		item		
Rating steam volume	t/h	0.024	Main steam valve mouth diameter	DN	15
Rating working pressure	MPa	0.4	Safe valve mouth diameter	DN	15
Saturation steam	℃	151	drainage valve mouth diameter	DN	15

temperature					
Input power	KW	18	External size	mm	670
Input current	A	41		mm	620

VII、 product quality and after-service treatment.

- 1、 quality accord with enterprise criterion prescriptive;
- 2、 all the supplied facility, take charge of debug till product certification, facility normally check and accept, enter into production static.
- 3、 take charge of facility plane layout design, technology procedure design.
- 4、 supply normal facility manipulation treatment, train 2-3 engineers, fully command production technology, facility daily maintain, check out and solve the trouble and manage the producing.
- 5、 supply facility 1 year maintain, our company will take charge of all the facility repair fee, also not include uncommon reason.
- 6、 treatment for life: out of quality guarantee period, if facility producing have some trouble, our company will send workers to maintain and install. The price of parts of the machine won't high than the market price.

Accessory 1 : CHM-S150 shrink sleeve labeling machine (main purchasing list)

NO	Name	BRAND	MANUFACTURER
1	SUS304 stainless steel		SOUTH KOREA
2	Electric motor	TWT	TAIWAN
3	bearing	NSK MNB EZO IJK	JAPAN
4	Stepping Motor	Tamagawa	JAPAN
5	Stepper drive	ERTL	TAIWAN
6	PLC programmable controlling machine	OMRON	JAPAN

7	Frequency converter	TELTA	TAIWAN
8	Touch screen	WEINVIEW	TAIWAN
9	Contactor	SCHNEIDER	FRANCE
10	Transducer	SUNX	JAPAN

Accessory 2 : the product is the gift you buy the machine list

No	Spare part name	Specification	Number	Use part
1	synchronized feather belt	5M×320×10	2 piece	Fur brush fracture
2	synchronized feather belt	5M-295-10	2 piece	Driver label convey fracture
3	synchronized feather belt	5M-460×15	2 piece	Knife-plate
4	Art design blade	9×80 φ3	20 piece	Knife-plate fracture
5	Mid-relay		3	
6	Tool attached machine		1set	
7	Fur brush	silica gel bar	10 meter	Fur brush fracture

Automatic thermo shrinkage package machine CHM-150A



1)、technical parameter :

- facility type : CHM-150A type
- facility external size : L5050×W3300×H2100mm
- wrappage max size : L600×W400×H350mm
- shrinkage film size : PE、PVC、POF
- shrinkage thermo thickness : 0.03-0.15mm
- thermo shrinkage tunnel temperature: 160 - 260°can adjust at will.
- max output per minute : 8-12bag
- facility power : 18Kw
- actual power : 15Kw/hr
- pressure requirement : 380/220V
- facility weight : 1.2T
- fan machine : 1.1Kw 2set 380V , 65W 4set 380V

2)、facility basic configuration :

- Thinget : 5.7 inch touch screen, PLC controlling system
- Taiwan AIRTAC pneumatic component 1set
- Taiwan Telta frequency converter 3 set

- stainless steel wing heating tube 12 piece
- China-America cooperation Teflon convey belt.
- Shanghai Hemei electric-motor and Zhejiang Taili worm speed-regulation machine.
- South-Korea Autonics photoelectric switch, proximity.
- thermo sealing knife aluminium-mould heating board, even temperature, long life, our company special production.

- Whole machine plastic-sprayed, machine rack adopt to high-quality carbon steel, main part adopt to stainless steel.

- bottle convey machine length : 2600mm
- Carton and wrappage film pack separately.

3)、 product description :

- frequency converter speed adjust、 two segment convey device.
- Bottle pushing, thermo sealing and cutting whole movement adopt to pneumatic fracture.
- Proximity switch control film length.
- Touch screen, PLC system greatly increase facility movement reliability.
- double-wind recycle fan machine, ensure shrinkage tunnel inside even temperature.
- super big wind-volume cooling system, ensure quickly get into shape .
- anti-high temperature teflon convey belt, convey steadily, high-strength anti-abrasion.
- frequency limitless speed adjust convey belt frame.
- convey belt height can make according client requirement, adjust range:±50mm
- bottle convey machine can meet with client bottle forward direction requirement, can lengthen or shorten.
- wing stainless steel heating system, endurance.
- meet with product instant stop requirement product-bearing rack device ensure production line consistency.

4)、 technical condition and requirement:

1、 package type :

(1)350/500/550/600ML big bag : 4×6 , 4×5 ;small bag、 3×4 , 3×5 four type of package.

(2)1L / 1.5L / 2L / 2.5L big bag : 3×3 , 3×4;small bag、 2×2 , 2×3 four type of package

☐ Regarding can, we suggest adopt to package with tray, pack steadily.

3、 packagespeed : 8 - 15bag / min

4、 meet with pre-treatment filling speed of filling machine.

(1) 350/500/550/600ML big bag : 4×6 , 4×5 , (12000 - 15000b / hr) 、 small bag : 3×5 ,

3×4 , (8000 - 10000b / hr) .

(2)1L / 1.5L / 2L big bag : 3×4 , 3×3(5000 - 6000b / hr) 、 small bag : 2×3 , 2×2 (3000 - 4000b / hr) .

5、 package material : PE thermo shrinkage film width (200 - 600mm) , thickness (0.08 - 0.12mm)

5)、 solution :

- 1、 according production line, auto arrange, and combine our company CHM-150A automatic sealing and cutting mature structure, as the machine fracture.
- 2、 the production line can match with any company filling device. For it stability, the production line main component all adopt to import, joint venture famous brand.
- 3、 if pre-treatment filling machine output is comparatively high, can divide two-way, auto seal and cut at the same time, to meet with output requirement, among CHM-150A fracture has original creation, it is the highest-efficiency, highest economical collocate at the same time.
- 4、 PE film adopt to flake, upper and down roll, auto seal and cut to roll type and up to shrinkage efficiency,

□ 、 production procedure :

Wrappage from single-line 90°change to multi-line again divide 1、 2、 3、 4 line via bottle division board, via the front 1、 2、 3、 4 bottle separately reach photoelectric inspection, convey belt stop, place-limit gas-cylinder work, wrappage was conveyed to cutting and sealing machine to seal and cut, wrappage was conveyed to contraction machine to contract via convey device, again convey to stock rack via cooling convey belt, when the first bag convey to contraction machine, the second bag auto arrange, then conveyed to sealing and cutting machine via pushing cylinder, again repeat the first bag recycle procedure.

7)、 criterion collocation function : (three part)

- 1、 CHM-150A auto convey fracture; joint filling machine convey belt, divide two passage or one passage, control via frequency converter, speed adjust freely, can auto divide and sort bottles .
- 2、 CHM-150A automatic film wrappage fracture, can complete wrappage auto film covering and sealing, cutting function.
- 3、 CHM-150A auto thermo shrinkage cooling fracture, can auto contraction and cooling function after film covering.

8)、 plan layout chart , solution hint char detail list (accessory)

- 1、 chart (1) right
- 2、 chart (2) left

9)、 CHM-150A thermo shrinkage film package machine



CHM-350A Automatic linear packing machine

I、Technical parameter:



Facility

model:

CHM-350A

type

Facility

overall

size: :

L12000×W

1100×H210

0mm

Facility

over

all

size:

Main

equi

pme

nt :

L120

00×

W11

00×

H21

00m



Shrinkage machine : 4200×1100×1700mm

- Wrappage max size:L2400×W650×H450mm
- shrinkage film material: PE
- shrinkage film thickness:0.03-0.15mm
- thermo shrinkage tunnel max temperature: 160 - 260° adjust at will
- max output per minute: 16-20 bag
- facility power : 25Kw
- actual power : 20Kw/h
- pressure requirement: 380V/50-60HZ
- facility weight: 2500
- air pressure: 0.6-0.8mpa
- working noise:≤65db
- import bottle convey belt width: 541mm
- fan : 1.1Kw 3set 380V , 60W 6set 380V

II、Machine parts

- OMRON : PLC controlling system
- WEINVIEW : Touch Screen
- Taiwan Airtac pneumatic component 1set
- Taiwan Telta transducer 2set
- Stainless steel wing heating tube 12pcs
- China-USA cooperation Teflon convey belt.
- Shanghai HEMEI motor and Zhenjiang Taili worm derailleur.
- South Korea Autonics photoelectrical switch, approach switch
- thermo sealing knife aluminum casting heating board, even temperature, long usage life, our company special production.
- whole machine appearance plastic spray, machine rack adopt to high-quality carbonated steel, main part adopt to stainless steel.
- Wooden case and wrappage film separate package.

III、Product instruction

- frequency converter speed adjust、two segment convey device.
- Bottle pushing, thermo sealing and cutting whole movement adopt to pneumatic fracture.
- Proximity switch control film length

- Touch screen, PLC system greatly increase facility movement reliability.
- Three-wind recycle fan machine, ensure shrinkage tunnel inside even temperature.
- Super big wind-volume cooling system, ensure quickly get into shape .
- Anti-high temperature teflon convey belt, convey steadily, high-strength anti-abrasion.
- Frequency limitless speed adjust convey belt frame.
- convey belt height can make according client requirement, adjust range:±100mm
- Wing stainless steel heating system, endurance
- Meet with product instant stop requirement product-bearing rack device ensure production line consistency.

IV、 Technical requirement:

1、 package type :

(1)350/500/550/600ML big bag : 4×6 , 4×5 ;small bag、 3×4 , 3×5 four type of package.

(2)1L / 1.5L / 2L / 2.5L big bag : 3×3 , 3×4;small bag、 2×2 , 2×3 four type f package

2、 Regarding can, we suggest adopt to package with tray , pack steadily.

3、 packagespeed : 16 - 20bag / min

4、 meet with pre-treatment filling speed of filling machine.

(1) 350/500/550/600ML big bag : 4×6 , 4×5 , (24000 - 29000b / hr) 、 small bag : 3×5 , 3×4 , (15000 - 18000b / hr) .

(2)1L / 1.5L / 2L big bag : 3×4 , 3×3(10000 - 14000b / 小时) 、 small bag : 2×3 , 2×2 (5000 - 7000b / h) .

5、 package material : PE thermo shrinkage film width (200 - 600mm) , thickness (0.03 - 0.12mm)

V、 Solution

- 1、 according production line, auto arrange, and combine our company JND-350A automatic sealing and cutting mature fracture, as the machine fracture.
- 2、 the production line can match with any company filling device. For it stability, the production line main component all adopt to import, joint venture famous brand.
- 3、 if pre-treatment filling machine output is comparatively high, can divide two-way, auto seal and cut at the same time, to meet with output requirement, among JND-350A fracture has original creation, it is the high-efficiency, highest economical collocate at the same time.
- 4、 PE film adopt to flake, upper and down roll, auto seal and cut to roll type and up to shrinkage efficiency.

VI、 Main structure and produce process

Main structure: the equipment is made of bottle loading system, packing machine, thermo-shrinking machine, no-drive roll convey machine and electric control system, pneumatic control parts and so on.

Produce process: CHM-350A automatic linear packing machine is produced at the basis theory of the film shrinking after heated. The whole packing process is including photoelectric sensor testing, PLC treats the collected signal, convey belt delivering the bottles, the dividing



board divide the bottles into lines and the push the bottles to be filmed, the thermo-sealin

g knife seal the film into bags, the cooling tunnel cool the bags.

VII、 the function of the specification (three parts)

- 1、 CHM-350A auto linear convey fracture, joint filling machine convey belt, control via frequency converter, speed adjust freely, can auto divide and sort bottles .
- 2、 CHM-350A automatic film wrappage fracture, can complete wrappage auto film covering and sealing, cutting function.
- 3、 CHM-350A auto thermo shrinkage cooling fracture, can complete auto contraction and cooling function after film covering.



**M
ain
component
detail list**

no	Name	specification	number	brand
1	board production component			
2	Plant metal component			

3	pneumatic component		1	Taiwan Airtec
4	Electric controlling component and accessory			
	Photoelectric switch		1	South Korea Autonics
	Proximity switch		4	South Korea Autonics
	PLC		1	OMRON
	Touch screen		1	WEINVIEW
	Frequency converter		2	Taiwan Telta
	AC contactor		9	France Schneider
	Mid-relay		12	France Schneider

Loading list

NO	Name	Model	Number	Remark
1	Automatic film wrappage machine	CHM-350A	1 set	
2	Bottle convey machine	CHM-350A	1 set	
3	Thermo shrinkage package machine	CHM-350A	1 set	
4	Convey machine rack	CHM-350A	1 set	
5	Wing heating tube	Stainless iron	2 piece	
6	Thermo-sealing cutting		1 unit	
7	Pressed rubber		1 set	
8	AC contactor		1 unit	
9	Middle relay		2 units	
10	High temperature fabric		1 piece	Stainless steel
11	Film for machine testing		2 rolls	
12	Thermo-couple		1 piece	
13	Tools		1 set	
14	Temperature control meter instruction			
15	Frequency converter instruction		1 piece	
16	Operation use instruction		1piece	



CHM-S5 ink-jet printer



Ink-jet printer excellent performance

- USA MICROPUMP ink-jet printer dedicated gear pump.
 - viscosity detection in real-time, controlled the concentration of ink in real-time to ensure the printing quality.
 - IP54 protection class chassis made in stainless steel.
 - Automatic washing function by a switch
 - Use imported vacuum generator recycle ink and solvent consumption is reduced by 40%, recovery system for prolonging 5 times
 - Multi-task operating system can adjust the font size, change the print information, print parameters during the printing.
 - All parameters are set by the digital control mode, without any artificial switch.
- Reliability enhanced.
- Unique rotary nozzle designed can be adapted to a minimum installation space.
 - A new print control mode added to adapt to the digital tube, printing products, PCB products in the continuous jet.
 - The ink-jet quiet when it working. The noise is less than the office inkjet printer.

CHM-S5 ink-jet printer chassis top



- 1.5mm stainless steel chassis is welded by the precision laser welding processing.
- Protection level is IP54 .
- The touch switch is same as the computer keyboard layout and covered with a keyboard protective film.

CHM-S5 Ink-jet printer backside



- Cooling fan is located at the bottom of the chassis, the air inlet is located in the back.
- The air inlet is provided with a dustproof sponge to prevent the dust going to the interior of the machine.
- Using a special triangular key can open the back door.

CHM-S5 ink-jet printer filling port for ink and solvent



- The filling port is located on the top of the machine. Ink and solvent filling port is distinguished by different colors.

- Don't need to tear the ink or solvent bottle sealing and directly insert the bottle and rotated slightly when add the filling..
- Automatic alarm when the ink and solvent don't insufficient. The machine can work about 8.5 hours after alarmed.

CHM-S5 sprayer



- CHM-S5 inkjet printer nozzle is an innovative rotatable designed. It can be installed in a very narrow space
- Vertical jet printing can change to a horizontal jet printing when rotary directly spray head. The sprayer can print the code in the limits of 180 degrees.
- SICK photoelectric switch is the standard setting, optional Omron optic fiber photoelectric switch.

CHM-S5 technical parameters

Control unit

- Control panel: touch key by film
- The case: IP54 protection class made in stainless steel
- Size: 440mmX420mmX285mm.
- The product detector: SICK photoelectricity reflective (optional optic fiber photoelectric switch)

Printing control function:

- Four print direction selected
- The serial number printed
- The Real time printing.
- Printing time delay.
- Product counting function.
- Printing the bold 0-9 times.
- Single switch to adjust the character space and height
- Single switch to print information.
- Single switch to adjust the print position
- The built-in icon editing function
- The information storage function

Print parameter specification

- The number of print lines : 5X7 dot matrix character by 3 lines, digital, letters, symbols, Chinese characters can be mixed arrangement
- The printing height : 1.5-18mm adjustable
- The printing head orientation:360 degrees in any direction
- The range of printing head to product: no more than 60mm
- The built-in Font: GB 1 or 2 Chinese characters library
- The input type: Pinyin input , location and code input

Print head

- Size:45mmX45mmX210mm.
- The length of the nozzle is connected with the hose: 2.5m
- Nozzle size: 65microns.
- Optional: applicator trimmer

Inking system

- The ink path control mode: imported gear pump main pump, separate cleaning pump
- Environmentally ink: quick-drying ink(drying time of less than 1 second), colors selectable
- The viscosity control modes: viscosity control in real-time

Use environment

- The temperature:4-45°C
- The humidity:10-90%RH (non condensation)
- The power requirements:220V + 10% 50HZ

YOUTUBE Video Channel : <https://www.youtube.com/user/carmelhill77>

Website : www.mesin77.com