



ZhangJiaGang city-BOTTLING Machinery
Blowing-Filling-Packing solution Expert



0-2L bottled water plant / 6000BPH@0.5L

PROJECT BROCHURE

张家港市博特灵机械有限公司

ZHANGJIAGANG CITY BOTTLING MACHINERY CO.,LTD.



SGS



KENYA PVOC - CERTIFICATE OF CONFORMITY





Equipment list:

Items	Name of machine	Model	Size(mm)	Qty.
1, PET bottle blow molding machine				
1.1	Blow Molding Machine	BL-4000	2360*1995*2030	1 set
	Preform unscramble		2000*1350*2550	1 set
1.2	HP Air Compressor	2.4 m3/ min30Kg	1910*1630*1180	1 set
1.3	LP Air Compressor	1.6 m3/min 10Kg	2000*1050*1900	1 set
1.4	Air dryer	2.0 m3/min 30Kg	1050*650*1100	1 set
1.5	Air Filters	2.0 m3/min 30Kg	750*350*350	2 sets
1.6	Air Tank	0.6 m3 30Kg	1200*1100*1650	1 set
1.7	Mould Chiller	BL-3HP	1100*680*1200	1 set
1.8	Blow mould	100-2000ml	4cavity	1set
2, RO water treatment system				
1.1	Raw water tank	4000L	φ1660*h2000	1set
1.2	RO system with two FRP filters automatic operation valves	4000LPH	2700*800*1600	1set
1.3	Ozone sterilizer+injector	T10G	360*260*610	1set
1.4	Aseptic water storage tank	3000L	φ 1600*2400	1set
1.5	Connect UPVC pipe+valves	/	/	1set
3, Bottle water filling and packing line				
3.1	Empty bottle unscrambler with Empty bottle elevator	LPJ-18	∅ 1800*2200	1set
3.2	Monoblock 3 in 1 washer-filler-capper unit	CGF18-18-6	2150*1750*2400	1set
3.2.1	Air conveyor	FS-1	2.2m	1set
3.2.2	Outlet belt conveyor	SYS-1	2m	1set
3.2.3	Light checker	DJ-1	1000	1pc
3.2.4	Cap lifter	TSJ-1	800*800*2800	1set
3.3	Sleeve applicator	TB-150	2000*850*2000	1set
	Sleeve shrink tunnel	SB-1500	1500*700*2000	1set
	Steam generator	18KW	760*570*1030	1set
	Connection conveyor+1motor	/	/	4m
	Spare parts	/	/	1suit
3.4	Bottle Blow Dryer	CG-1.2	1200*600*1800	1set
3.5	Ink jet code printer	OH-338	347*220*100	1set
3.6	L type Automatic PE film shrink packing machine	BL-150A 10packs/min	6150*3300*2100	1set

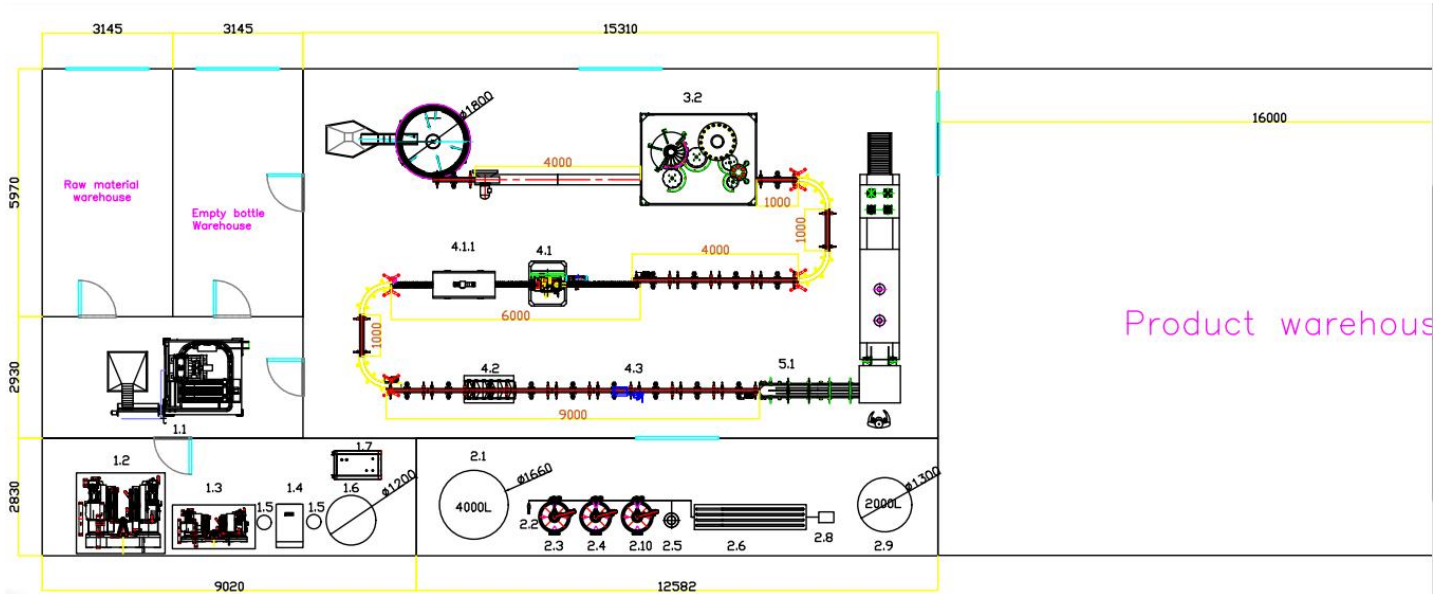


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4, Additional equipment				
4.1	Extra 22m Conveyor+2motors+4 turning conveyors			1set
4.2	Air compressor	0.6m ³ /min 6Kg	1145*840*440	1set
4.3	Air conveyor	Additional 2m	/	1set



Suggested Layout of the whole line

Whole line power recommendation:

Machine with heating non-start power	87KW
Machine start power	76.55KW
Recommended total power	178KW

Packing information for the whole line:

Whole line packaging volume:	30CBM
Whole line packaging weight:	3250KG
Recommended packing method:	2 40HQ containers FCL by sea



Descriptions:

1, PET bottle blow molding machine



1, Trait:

4 cavity Full automatic blow molding machine is suitable for producing PET plastic containers and bottles in all shapes. It is widely used to produce the carbonated bottle, mineral water, pesticide bottle oil bottle cosmetics, wide-mouth bottle and hot fill bottle etc.

Features of main body:

- 1). Stable performance with advanced PLC.
- 2). Automatic preform conveyor to save human cost.
- 3). Preform self-rotation and infrared pre-heater revolution assure the even distribution of heat, which improve the bottle shaping rate, increase the production.
- 4). High adjusting performance to enable preheat the preforms perfectly by adjust the voltage control area in the PLC, which could adjust the temperature of the infrared lights in the pre-heater, and keep the proper temperature and humidity invariable.
- 5). High safeties with security automatic-locking device in each mechanical action, which will make the production into a perfect safe environment, in case of the breakdown in certain procedure.
- 6). Introduce the FESTO air cylinder to avoid contamination and noise.
- 7). 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.



- 8). Strong clamping force with high pressure and double crank links to lock the mould.
- 9). Two ways of operating: automatic and manual.
- 10). Safe、reliable and unique design of the position of valve to make the pneumatic diagram in the machine easier to understand.
- 11). Low cost、high efficiency、easy operation and maintenance etc, profited from the fully automatic technological process.
- 12). Ideal cooling system make the finished bottles without any flaws.
- 13). Easy for you to install、test and start up.
- 14). Low rejection rate: less than 0.2 percent.

2. Technique Parameter of blow molding machine

Main part:		
Pneumatic part	Valve	SMC
	Cylinder	
Electric part	PLC	LG
	Operating system	LG
	Relay	OMRON
	Infrared thermometer	America raytek
Note	All of the electrical components adopts CE、UL、CCC approved international advanced high-tech product.	
Main parameter:		
Model	BL-4000	
Productivity	Depend on bottle design	3200-4000PCS/H
Product type	Body diameter	20mm-100mm
	Height	50mm-350mm
	Neck diameter	15mm-38mm
Mold	Cavity	4cavities
	Mold thick	240mm
	Mold	500*500mm
Main machine power	Electrical source power	380v 3Phase /220v 3Phase 50/60HZ
	Rated Power	49kw
	Really use power	14kw
Size	L*W*H	1900*1860*1930mm
	Weight	3600kg
Auxiliary equipment (preform unscrambler)	L*W*H	2000*950*2480mm
	Weight	250kg
Resin available		PET



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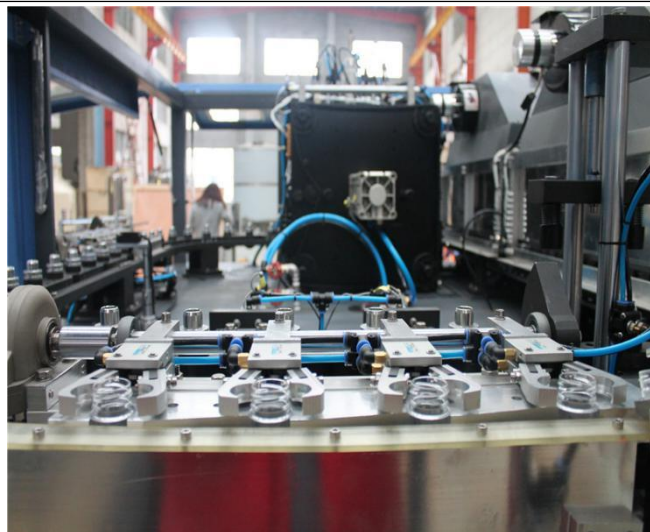


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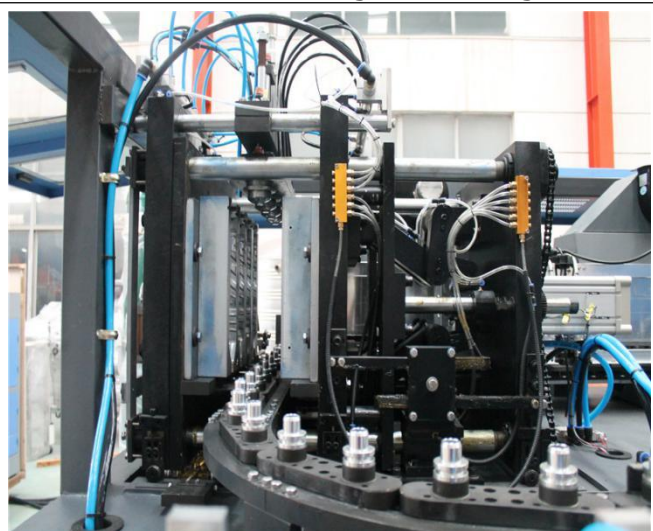
Tunnel for preforms heating



Preform inlet



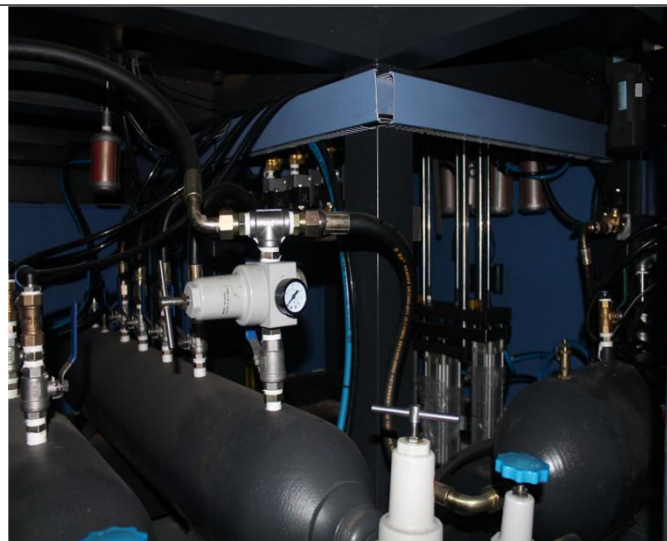
Preform feeding for blowing



Machine inside view1



Machine inside view2



Electrical details



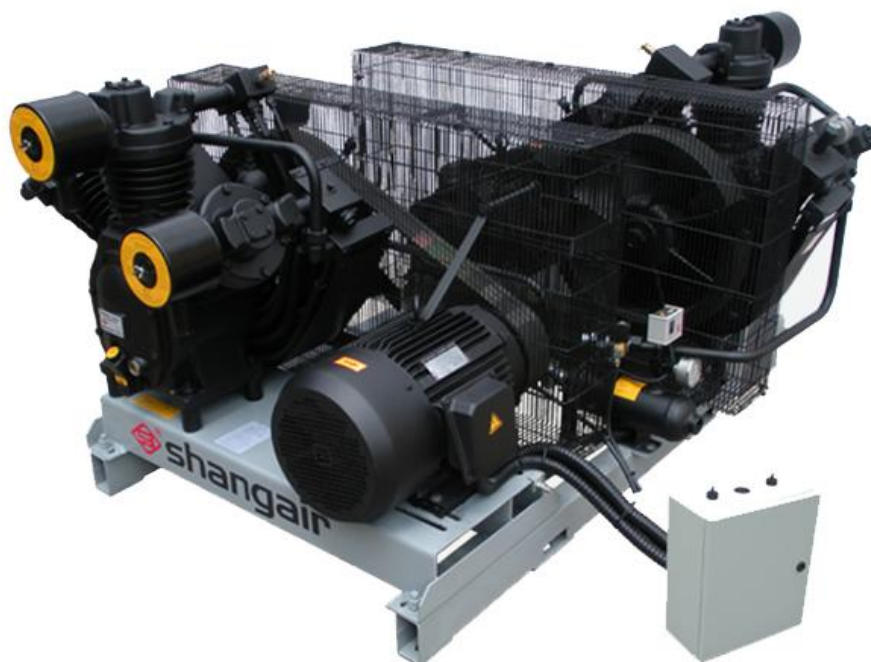


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1.2 , HP air compressor



Air compressor	Unit	2.4M3/30KG
Volume	M3	2.0
Pressure	Kg	30
Power	KW	2*11
Overall Dimension	mm	1900*1700*950
Weight	kg	1050



1.3, LP air compressor



Air compressor	Unit	1.6M3/10KG
Volume	M3	1.6
Pressure	Kg	10
Power	KW	15
Overall Dimension	mm	1800*800*1450mm
Weight	kg	547



1.4, Air Cooling Drier



Refrigeration Air Dryer	Unit	2.0M3/3.0Mpa
Flow capacity	Nm3/min	2.0
W.P	Mpa	3.0
Inlet Temp.	°C	≤80
Refrigerant		R-22
Dew point	°C	-10°C - 0°C
Power supply	V/HZ	220/50
Compressor power	Kw	1.25
Fan power	w	195
Pipe diameter		ZG1"
Weight	Kg	115
dimension	mm	1000*560*900



1.5, Air Filter



Refining-Filter	Unit	2.0M3/30Kg
Flow Capacity	M3/Min	2
Max. work pressure	Mpa	3.0
Inlet Temp.	°C	≤50
Weight	Kg	20
Overall Dimension	mm	750*350*350



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1.6, Air Storage Tank



Air storage tank	Unit	0.6M3/3.0Mpa
Volume	M3	0.6
Pressure designed	Mpa	3.0
Temp. designed	°C	100
Work pressure	Mpa	3.0
Test pressure	Mpa	4.13
Weight	Kg	400
Overall Dimension	mm	1200*1100*1650



1.7, Mould Chiller



Model	BL-3HP
Refrigerating capacity	7.5KW
Input power	2.9KW
Refrigerant	R22
Compressor	Toshiba-3HP
Controller	BL858 Microcomputer controller
Chilled water flow	1.3M ³ /H
Condenser	Aluminum fin copper tube air-cooled condenser (aluminum foil, high heat exchange, easy to clean type)
Evaporator	Water tank copper tube coil evaporator
Water tank	Stainless steel Thermal insulation water tank 50L
Water pump	330W 5M ³ /H lift:19M
Fan	400MM
Temp adjust range	5°C-45°C
Control accuracy	1°C(Display accuracy 0.1°C)
Electrical equipment	Schneider
Size	1100*680*1200mm
Safety	Compressor overload protection, compressor delay protection, water pump overload and over-current protection, high and low pressure protection, sensor open circuit and short circuit protection, over and under temperature protection, etc



2, RO water treatment system

1.1, Raw water tank:

Stainless steel sterile cistern is widely used in food, medicine, chemical industry and water treatment works, in water treatment process has played precipitation, buffer pressure, prevent water pollution, storage water functions.

Characteristics:

- 1, Sterile water tank using new craft technique manufacturing, internal without tensil sinew, box wall without right Angle, have no dirt, easy cleaning, accord with international general recognition of GMP hygiene standards.
- 2, Material USES SUS304 stainless steel food-grade, strong corrosion resistance.
- 3, Sterile water tank design is reasonable, pressure evenly, wind load is small, good sealing, thoroughly eliminate the dust harmful substances in the air and small animals, ensure water invasion from secondary pollution.
- 4, Scientific flow design, normal use water and sediment natural layering, via tank out life water clear health, hydraulic increased obviously. The water tank bottom sediment nature gathered in central alongshore around, only regular open spherical tank bottom drain valve can be education, without manual often clean.
- 5, Sterile water tank, light weight is only a small percentage of concrete tank, beautiful appearance, have very strong adornment effect, can cooperate advertising use, the effect is much better.



4000L Raw water tank

1.2, RO water treatment machine:



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4000LPH RO water treatment machine with 3 filter tanks just for ref.

Parameters:

Items	Name	Specifications and model	Material	Brand&Origin	Unit	Qty.
I	Raw water lifting unit					
1	Level controller	ST-70AB	Plastic assembly	RADAR	suit	1
2	Raw water lifting pump	CHL8-40/380V, P=1.5kw,Q=8T,H=35M	SUS304	NanFang	set	1
II	Multimediu filter		assembly	BOTTLING		
1	Multimediu filter tank	φ760*1950MM	FRP	BUDER	set	1
2	Central tube, Up and below distribution	matching	ABB	JIEDA	suit	1
3	Manual control valve	N56D1(51110)	assembly	RUNXIN	set	1
4	Quartz sand	NO. 1-4		China	KG	700
5	Online pressure gauge	0-0.1MPa	SUS304	YYST	pcs	1
III	Active carbon filter		assembly	BOTTLING		
1	Active carbon filter tank	φ760*1950MM	FRP	BUDER	set	1
2	Central tube, Up and below distribution	matching	ABB	JIEDA	suit	1
3	Manual control valve	N56D1(51110)	assembly	RUNXIN	set	1
4	Activated Carbon	10-24MU	High quality shell	Chengde	kg	225
5	Online pressure gauge	0-0.1MPa	SUS304	YYST	pcs	1
IV	Cartridge filter		assembly	BOTTLING		
1	Cartridge filter	40INCH *7 core	SUS304	BUDER	suit	1
2	PP cotton	40INCH / 5 um	polypropylene	BUDER	pcs	7



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3	Pressure gauge	0-0.1MPa	assembly	YYST	pcs	1	
VI	RO system						
1	High pressure pump	CDL8-12/380V, P=4KW,Q=8T,H=111M	SUS304	NANFANG	set	1	
2	RO pressure vessel	8040*2	FRP	REWORK	pcs	2	
3	RO membrane	ULP-8040	polyamide	HUITONG	pcs	4	
4	Water inlet solenoid valve	DN40/AC220V	BRASS	YONGCHUAN	pc	1	
5	Washing solenoid valve	DN32/AC220V	BRASS	YONGCHUAN	pc	1	
6	Online Pressure gauge	0-0.6MP/0-3MPA	assembly	YYST	pcs	4	
7	Low pressure switch	BD-A3	assembly	TAIWAN BD	pcs	1	
8	Conductivity meter for produced water	CCT3320	assembly	CREATEC	suit	1	
9	Flowmeter for produced water	Rotor type LZS-32T	Plastic assembly	SHUNHUAN	pcs	1	
10	Flowmeter for salinity water	Rotor type LZS-32T	Plastic assembly	SHUNHUAN	pcs	1	
11	Main frame of RO	2700*800*1600MM	SUS304	BUDER	suit	1	
VII	Connecting pipe						
1	Tubing / fittings / valves	DN25/DN32/DN50, etc matching	UPVC/ SUS304	XieYu/China	suit	1	
VIII	Pure water tank unit						
1	Level controller	ST-70AB	Plastic assembly	RADAR	suit	1	
IX	Electrical system						
1	control cabinet	BD-4.0	PE	BUDER	suit	1	
2	Programmer	RO-2015	assembly	CREATEC	suit	1	
3	Circuit breaker	Matching		CHNT	suit	1	
4	Air switch				suit	1	
5	AC contactor				suit	1	
6	Thermal relay				suit	1	
7	Intermediate relay				suit	1	
8	Button / switch				SengAo	suit	1
9	wire				QiuGuan	suit	1
10	accessories			Ties, fixing cards, screws, etc	China	suit	1

1.3, Ozone sterilizer



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Ozone is widely used in the advanced treatment of tap water, the treatment of drinking water, the treatment of urban drinking water, and waste water treatment of urban water, industrial waste water treatment and other occasions that need a lot of ozone depletion. because of its high killing rate, high speed, thorough removal of organic compounds and other pollutants without secondary pollution, reduction of BOD and COD, removal of nitrite, suspended solids and color.

Function: 1, quickly bacterial and virus killing, and no 2nd pollution 2, Remove bad smell

Characters:

- 1, Powder coating frame, PTEF inner construction part;
- 2, Ceramic tube ozone generating device, make sure ozone content and concentration, air cooling and water chilling for choice;
- 3, Ozone generation adjustment: 20%-100%
- 4, Stainless steel vertical shell (wall mounted for models below T24G)
- 5, Optional automatic heating and drying system.
- 6, Air based model or with external oxygen model.
- 7, High tech double air-cooled ceramic tube unit, high frequency power supply, stable ozone output, long service life.
- 8, Compact structure, less land occupation, and the equipment can be placed or moved freely according to the actual situation.
- 9, Single cycle or double cycle time relay.

Item	Set up
01	Shell cover
02	Ozone generating room
03	High Frequency power special for ozone
04	Air pump
05	Stainless steel perforated plate



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06		Fan, fan cover
07		Auto heating dryer
08		Accessory
09	Panel	Time relay
10		Ammeter
11		voltmeter
12		Switch
13		Power instructor
14		Operation instructor

Ozone sterilizer:

Model	Ozone capacity	Water flow	Ozone concentration	Power	Voltage	Air source dew point	Size	Net weight
	g/h	TPH	mg/L	W	V/Hz	°C	cm	kg
T6G	>6	3	28-53	140	220/50	-45.00	36×26×61	11
T10G	>10	5	10-30	150	220/50	-45.00	36×26×61	11
T12G	>12	6	10-30	240	220/50	-45.00	36×26×63	13
T15G	>15	8	10-30	240	220/50	-45.00	36×26×63	13
T20G	18.7-26	10	30-60	500	220/50	-45.00	40x28x80	20
T25G	>25	12	10-30	690	220/50	-45.00	40×28×80	23
T30G	>30	15	10-30	1100	220/50	-45.00	40×28×101	32
T40G	>40	20	10-30	1320	220/50	-45.00	40×28×130	41

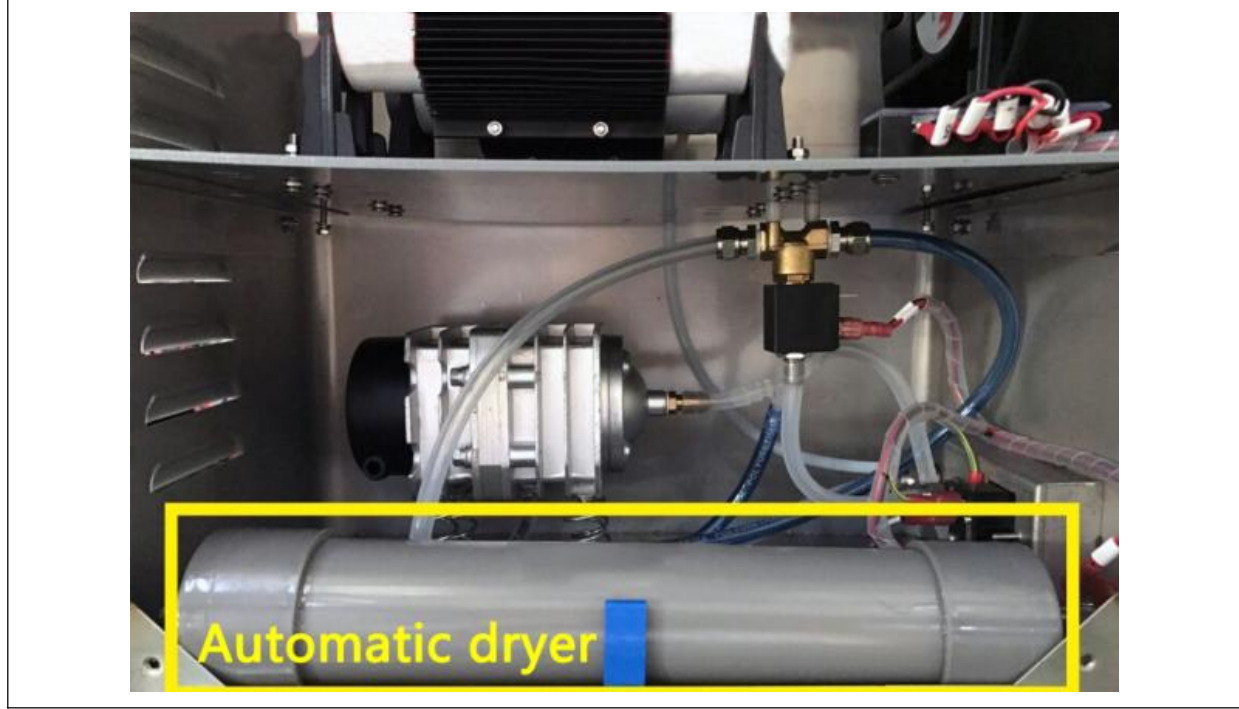
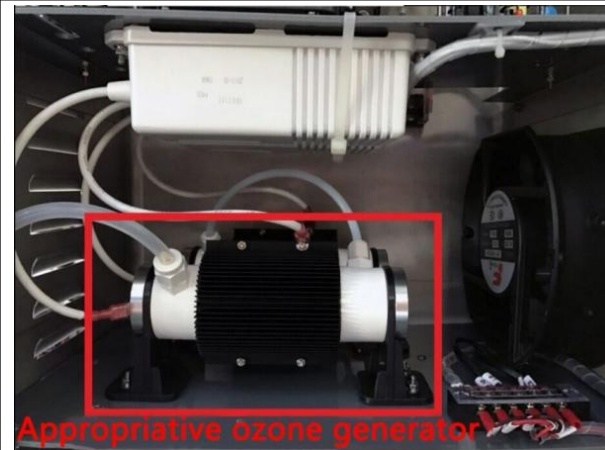
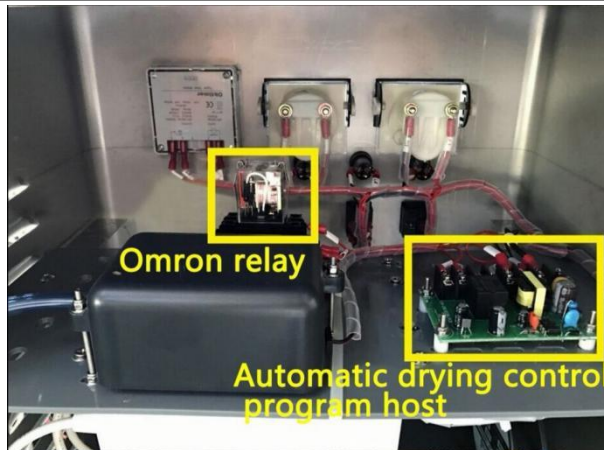
Injector:

Model	25152	32235	48275
Outer diameter of water inlet and outlet (inch)	6'	1"	1.5"
Outside diameter of air inlet(inch)	1/4"	1/2"	1/2"
Input water pressure (kg/cm2)	2.5-5.0	2.5-5.0	2.5-6.0
Water flow (T/h)	1-3	3-10	10-25
Suction capacity (Nm3/hour)	7.5-10	11-15	22-30
Total length(mm)	152	225	275
Matching ozone sterilizer	6G	10G 12G 15G 20G	25G 30G 40G

Internal structure:



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1.4, Aseptic water storage tank:





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Material: SUS304

Construction: full closed, cylinder body, cone top, cone bottom

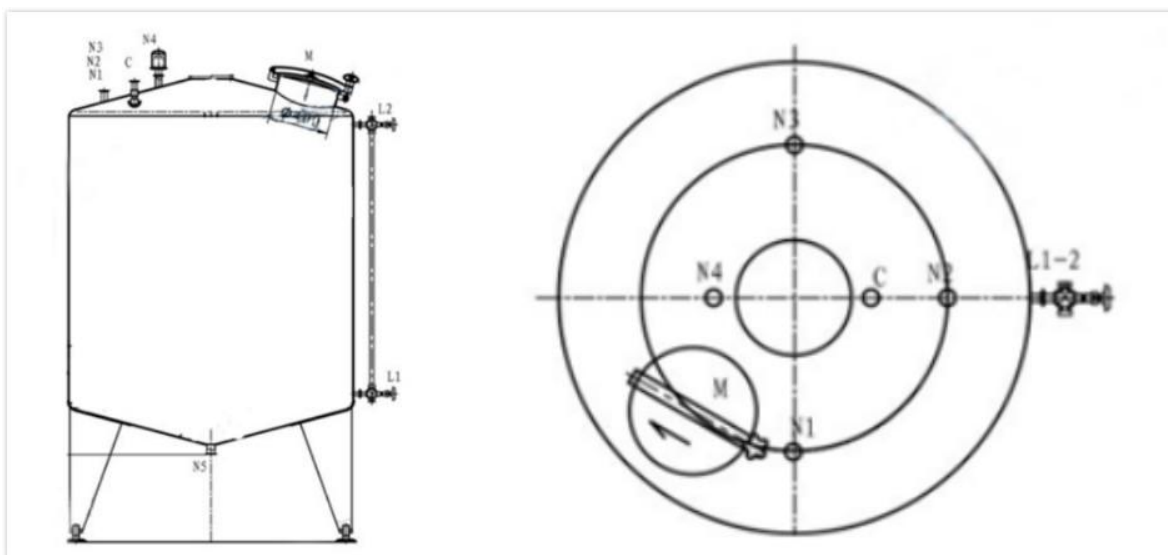
Including:

- | | |
|--------------------------------|-----------------------------|
| 1, quick open manhole, | 5, plastic lever gauge |
| 2, anti foaming liquid inlet, | 6, sampling valve |
| 3, CIP cleaning head, | 4, dust proof respirator, |
| 7, anti rotational flow outlet | 8, stand |
| 9, glass lever gauge | 10, height adjustable stand |

Details:



Schematic:





3, Bottle water filling and packing line

3.1, Automatic empty bottle unscrambler



Construction:

The main machine is in round barrel frame case with adjustable stand support, the stand support is used for machine height and balance adjustment. There is one circumrotating cylinder inside the frame case, bottle dropping grooves are fixed outside, same qty. of bottle ascending-descending devices are fixed inside. In the center of the machine, there is one stable umbrella shape tower.

Working principle:

When the bottle elevator is started, the disordered bottles will be transferred on top of umbrella shape tower, and then fall into bottle ascending devices. The bottle ascending devices will push bottles into bottle dropping grooves under the action of cam. Then the ordered bottles will be sent out through planet wheel into air conveyor. Planet wheel is connected with motor main axis by synchronous belt.

Advantage:

- 1, Main motor is in frequency control;
- 2, The machine is using twice bottle pressing and bottle sorting construction, it will reduce the possibility of wrong bottle dropping, and will enhance bottle sorting efficiency;
- 3, Special designed bottle dropping grooves can be suitable for bottles with different length, only need to do little adjustment to bottle dropping grooves when change bottles;
- 4, There is mould changing window in the middle of frame case, it is or mould change and jam



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clearance if any;

5, There is repair window set under the frame case, it is for technician go inside for repair;

6, There is manual working process set inside, so it will be easy for checking and repair;

7, Protection system is set :when the mould change window or repair window is open , the machine can not start. The machine can only be controlled by manual process under this situation;

8, There is bottle jam monitor on bottle-out planet wheel, it will protect machine;

9, There is bottle monitor on top of umbrella shape tower, it will control the start and stop of bottle elevator;

10, Conversed bottle will be eliminated from bottle-out planet wheel from he opposite position of air conveyer;

11, Pressure switch and switch on value is set with air channel system,the machine will not start without compress air connection .Switch on value and machine work together will save air consumption;

12,There is jam elimination device on the start end of air conveyer, the device is driven by cylinder. When there is bottle jam , the device will jam bottle automatically to avoid damage of machine;

Parameters:

Model	LPJ-18	LPJ-20	LPJ-22	LPJ-24
Capacity(500ml)	8000BPH	10000BPH	12000BPH	20000BPH
Dimension(mm)	∅ 1800*2200	∅ 2000*2200	∅ 2200*2200	∅ 2250*2200
Working positions	18	20	22	24
Number of layers	Single	Single	Single	Double
Weight	2500Kg	2800Kg	3000Kg	4200Kg
Air pressure	0.7Mpa			
Air consumption	0.2M3/min			
Main machine motor	1.1KW	1.1KW	1.5KW	2KW
Elevator power	0.55KW			
Empty bottle elevator	3600*1300*1300mm			

Detailed pictures:

Blower and motor	Bottle outside structure
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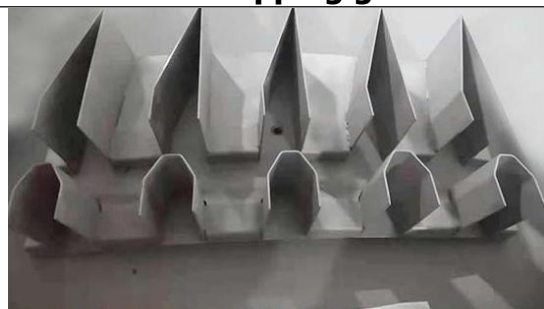
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Bottle dropping grooves



Control cabinet



Electrical configuration:

Item	Model	Origin
Blower	DF-6	China
Suction fan	CF-3000	China
Reducer	WJ	China
Frequency converter	Schneider	Schneider
Photoelectric	Autonics	Autonics
PLC	Schneider	Schneider
Touch screen	Schneider	Schneider

Free Spare part:



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Description	Photo
Synchronous belt	

3.2 Monoblock 3 in 1 washer-filler-capper unit:





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The equipment is used in production of non-soda drink of mineral-pure water packed in polyester bottles. Washing, filling and capping are integrated in one machine.

The most advanced technology from Japan and Germany is employed in the design. The gravity fixed liquid surface filling is used. The filling is fast, the amount of liquid is accurately controlled and the dropping and leakage are avoided.

Spring cramps are used in the bottle washing process. The empty bottles can be turned over 180~ along the conveying rail. There are two times of internal and external washing, the efficiency of bottle washing is high.

The filling by spring type liquid lever controlling filling valve, no dripping. The liquid lever is easy to control. All construction made of SUS304, There is no dead corner inside filling valve.

The magnetic torque is used for screw capping. The power of screw capping can be adjusted without steps. The power of the screw capping can also be fixed, and the caps will not be damaged, the capping is reliable.

There is electrical heating cold-heat tank enclosed in the whole system especially for keeping hot filling temp during hot juice filling. And it can also be stopping heating by easy electrical break down for cold water filling. It do not need extra steam system to work together.

The whole machine is controlled by PLC with touch-screen as the human-machine interface. The amount of the drinks in the storage tank can be controlled automatically. The filling and capping will be stopped automatically when there is no bottle. When bottles are cramped wrongly or when caps are not available, the machine can be stopped automatically.

The frequency changing technology is used to adjust the operation speed sleeplessly. The production capacity can be displayed digitally and can be adjusted conveniently.

Rinsing part





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1. Except the down framework, the transmission parts and some parts that must be made of special materials. Other spare parts are made of stainless steel 304.
2. The roller bearing is made of stainless steel, the sealing ring is made of EPDM material, and plastic is made of UMPE.
3. The gripper is made of stainless steel, the position where hold the bottleneck is also made of stainless steel, compared with the traditional rubber gripper, it is much hygiene, durable, and no quick-wear parts, the screw parts of the bottleneck can avoid being polluted by the rubber gripper.
4. The gripper equipped with high-efficient spray nozzle, it can develop to any position of inwall of the bottle, and can save rinsing water. There is a cover above the spray nozzle which can prevent water spilling; and there are regulatory recycle slot and recycle pipes under the nozzles.
5. Rinsing time can be guaranteed for 4 seconds.
6. By adjusting the height of the rotary parts to adapt for different bottle height
7. The motivation is derived from the driven system in the framework passed by gear.
8. The supplying of rinsing water is controlled by solenoid valve

Filling part



- 1) Adopted Germany anti-corrosion non-maintaining bearing that can reduce the pollution of filling to the environment.
- 2) The rotate plate is made of SUS AISI304, large flat toothed bearing.
- 3) The pressure mechanical valve is introduced the advanced foreign design with a fast filling speed, no hygiene corner pocket, a few sealing parts, and precise liquid level control. The whole valve is made of 304 stainless steel.



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- 4) The filling system has a CIP circulation system to wash the pipeline and fake-cup used for cleaning filling valve. This system can clean the liquid pipe, liquid tank and filling valve etc. effectively.
- 5) This filling system has an automatic temperature control system.
- 6) The filling valve opens and begins filling when it moves down and touches the bottleneck, the filling valve move up and leave the bottleneck when it finishes filling.
- 7) The liquid supply adopts the automatic pneumatic valve magnetic liquid-level switch to control the liquid tank automatically.
- 8) The motivation of the filler is derived from the driven system in the framework and passed by gear.

Capping part



This unit is the highest degree of accuracy of 3 in 1 machine, it is important for the machine to run stably and the product quality.

- 1) Introduce most advanced cap sealing technology called France "ZALKIN". With the help of expert from institute of electro mechanics and mechanical engineering of Shanghai Communications University, we successfully designed. For example: I) the screwing capping head cam (the main parts which can assure the machine run stationary), while adopting "ZALKIN" technology, the expert improve the authenticity and stability of the machine focused on dynamics and kinematics. II) Screwing capping head (the main parts which can assure the capping quality)
- 2) The screwing capping head is dual-purpose design; it is suitable for flat cap and sport cap.
- 3) The device which can take out the reverse cap and prevent the reverse cap passing is settled in the cap-falling guide.



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- 4) A group of photoelectric switches are settled on cap-falling guide. The machine will stop when there is no cap on the guide.
- 5) A bottle inlet detect switch is settled on the screwing capper.
- 6) There are aseptic nozzles between the transition poking wheel and filling parts to rinse the product rested in the bottleneck screw parts.
- 7) There is a cap-lock cylinder in the joint between the cap-falling guide and poking cap plate. It is realize that no feeding no cap.
- 8) By adjusting the height of the rotary parts to adapt for different bottle height.
- 9) The motivation of the screwing capper is derived from the driven system in the framework and passed by gear.
- 10) The main parts of the screwing capper are processed by the digital-control processing center

Electrical apparatus:

Transducer	Simens-Germany
Touch screen	Simens-Germany
PLC	Simens-Germany
Stabilized voltage supply	MingWei-TaiWan
Contactora	Schnider-French
Approach switch	Schnider-French
Air switch	Schnider-French

Model	CGF18-18-6
Capacity (B/H)	5000-7000(500ml)
Bottle size	Neck :φ50-100mm:Height:150-320mm
Water Pressure	0.18-0.25Mpa
Water consumption(kg/h)	1000
Washing station	18
Loading-Dripping-discharge station	2-2-2
Filling precision	<+1MM
Air pressure	0.5Mpa
Air consumption	0.3m ³ /min
Power (kw)	4
Weight (kg)	4000
Dimension (L*W*H)	2150*1750*2400 mm



3.3 Automatic sleeve labeling machine:



TB150 Labeling machine, shrink tunnel, steam generator connection for ref

General:

Whole machine frame is made out of stainless steel SUS304. The frame is simple, beautiful, waterproof and not rust. It is easy for cleaning.

The special cutting system: adopting the whist and con-volute technology. The label cutting is flat, no burr. The label location set assures the sleeving veracity.

Adopting model group design, module controlled; Achieve veracity and fast sleeving.

With the good quality touching operation screen, achieving operation by finger, easy and shortcut.

It is a high automatic packing machine. Just one person handles, easy operation.

Easy to change packing material, the change over of the mould can be easily done by hand without any tools.

Within the flat width limitation, can be used to package objects in different shape, no matter round or square, can be applied on glass or plastic bottles.

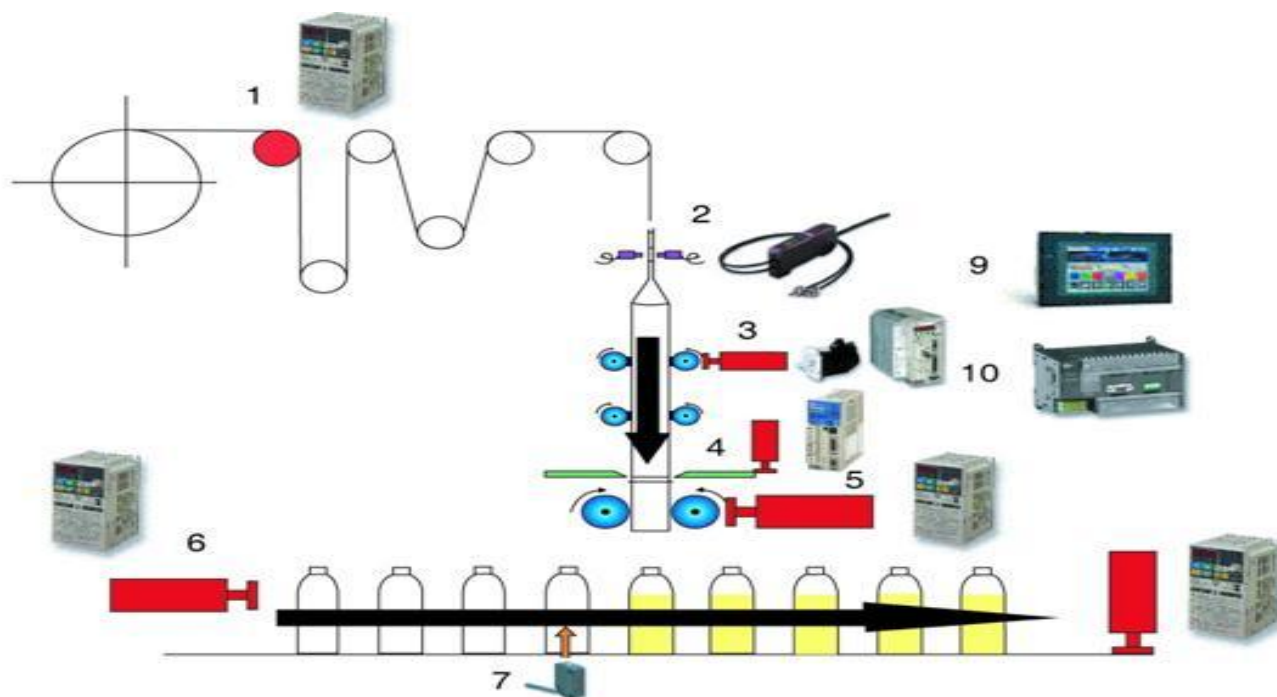
Higher safely and stability for operation and saving time of manpower.

Working process:



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Specifications:

This type of machine has the function of bottle carrying ,bottle separation ,label sleeving and label shrinking and it is perusing high speed ,exact location fewer worker and perfect packaging. It can apply to food and beverage industry and has the function of beauty and easily maintain.

Synchronized transmission, any change of transmission belt will be finished quickly. Compared to the type of traditional multilayer whose change and maintain need more than six hours ,it's maintenance is easy and maintain is simple ,so it doesn't influence production.

Unit cutter head plane design in China which apply to the container of $\phi 30\text{mm}—\phi 130\text{mm}$ (TB-250 requires 2 cutter heads) .you never need to change or debug it. It also has unique light touch human-machine screen, that means, auto search original location as well as safety and continence which is ahead of other similar products.

Single shrinking label feed plane ,tension height which is continent to fix the label; micro-computer auto figure which avoid enactment and adjustment .you only need to press it lightly ,the label will detect and locate automatically. The change of label is quick and convenient, besides,the cut place is absolutely exact .

Label feeding equipment: TB-100 driving synchronized tensity control the supply of label ,the supply ability is 1.5meters per minute(TB-250,the supply ability is 2meters per minute), volume label supply plane is $\phi 500\text{mm}$,the internal diameter of paper tube will be 4' ,8',10' .the configuration of label feeding is stable tensity which enable the exact length of label and the stable ,quick supply of label.

The center pillar applies step by step shoot label structure and the speed is 250B-300B per minute.

The newly designed cutter head use step by step motor driving which speed is high ,action is exact, the cut is in order and the shrinking is beautiful. This design cooperate with the label synchronized location structure enable the precision of cut location within 1mm.

Many emergency stop buttons enable emergency stop at the proper position along the production which guarantee the safe production.

Special designed heat wind shrinking tunnel use high pressure wing machine which makes the shrink effect perfect. Compare with the traditional shrink tunnel which cannot shrink curved bottle,



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this head wind shrink tunnel can make the shrink effect satisfying.

The new style steam shrink tunnel improve the efficiency highly . It applies to different and equal round bottle, flat bottle, square bottle etc. The adjustment and maintain is convenient, the shrink is in order. The spout of steam use uses the separation style which makes the tunnel smooth. The spout mouth is divided into four parts and the height ,place and quantity of steam of every part can be adjusted in order to make the shrink effect perfect .the low pressure steam bag use the seamless steel tube design and every connect tube use stainless steel soft tube ,so the dis-assembly and fixing id very convenient. The whole machine is made of stainless steel ,so it is heat preservation and save energy sources, besides ,it accord with the international safety standard. The stainless steel plane at the bottom can condensate water and drainage them.there are two eye window in front and at the back of the box body. the waterproof design of the whole machine is made of stainless steel which makes the operation and maintain convenient.

Parameters:

Voltage:Host machines;AC220V, 50/60HZ, 1.5-2.5KW, single-phase

TB-150 Speed: 150BPH

Diameter of bottle body: ϕ 28mm- ϕ 125mm

Length of label: 30mm-250mm

Thickness of label: 0.035mm-0.045mm

Material of label: PVC、 PET、 OPS

Applicator size:L2000MM*W850MM*H2000MM

Configuration table of machine parts:

1. Bottle separating mechanism	1set	7. Label carrier drive mechanism	1set
2. Bottle positioning mechanism	1set	8. Cutter mechanism	1set
3. Single material putting place	1set	9. Synchronous label brush-off mechanism	1set
4. Fiber-optical electric eye controlling	1set	10. Automatic platform elevating mechanism	1set
5. Center guide pin	1set	11. Man-machine interface of operation control panel	1set
6. Hairbrush	1set		

The main configuration table and function of automatic sleeve labeling machine

Name	Function
Material offering group	Offer motor for label carrier
Shelf group	Install volume label device
Platform elevating group	Adjust the height of host automatically according to the bottle shapes
Brush-off group	Brushing the cut-ted label on the bottle
Cutter group	Cutting off the labels which are sent to Center guide pin
Cutter controlling group	Control the cutter operational site
The back drive group	Offer motor for label of center guide pin



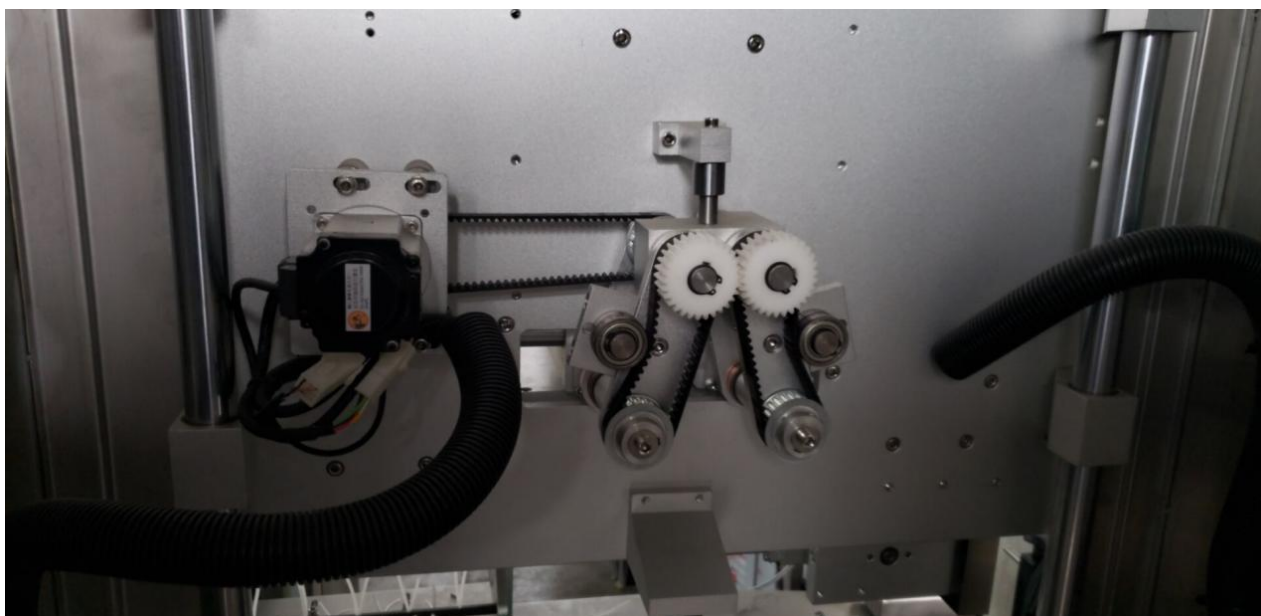
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The front drive adjusting group	Grasping the center guide pin
Frame of Electric eye group	Adjust the best cutting position of the label
Electric eye of bottle lighting detecting group	Adjust the sleeve labeling position of bottle body
Hairbrush group	Brush the label which cannot sleeve properly to the right place
Bottle positioning group	Make bottle stable, control sleeve labeling position
Center guide pin group	Make volume label distracted for transfer and cut easily
Bottle entering screw bolts	Separate bottle on equal distance in order to sleeve labeling accurately

Detailed image:



Internal structure of the machine for ref



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<p>Swift Central pillar for different bottle diameter</p>	<p>Bottle inlet screw for different bottle diameter</p>

Set up

	Name	Brand	Model	Qty
Electrical apparatus	PLC	Mitsubishi Japan	FX3SA-30MT	1
	Touch screen	WEINVIEW-Taiwan	TK6071IQ	1
	Photo-electricity Sensor	Autonice-Korea	PR12-4DN	1
	High-speed Optical Fiber Sensor	SUNX Japan	FX-301	1
	Photo-electricity Sensor	SUNX Japan	CX-442	1
	Photo-electricity Sensor	SUNX Japan	PM-L44	1
	Label In-feeding Servo Motor	Panasonic	MHMF082L1U2M	1
	Label In-feeding Servo Drive	Panasonic	TB-150 MBDLN25SG(400W)	1
			TB-250 MBDLN25SG(750W)	1
	Cutting Head Servo Motor	Panasonic	MHMF042L1U2M	1
	Cutting Head Servo Drive	Panasonic	MBDLN25SG(400W)	1
	Bottle Discharge Variable-frequency Drive	SHIHLIN-Taiwan	SC3-21-0.75K	1
	Bottle Conveyor Variable-frequency Drive	SHIHLIN-Taiwan	SC3-21-0.75K	1
	Label Feeder Variable-frequency Drive	SHIHLIN-Taiwan	SC3-21-0.75K	1
	AC cont-actor	Schneider French	LC1-D0610M5C	4
Circuit-breaker	Schneider French	D10 3P	1	



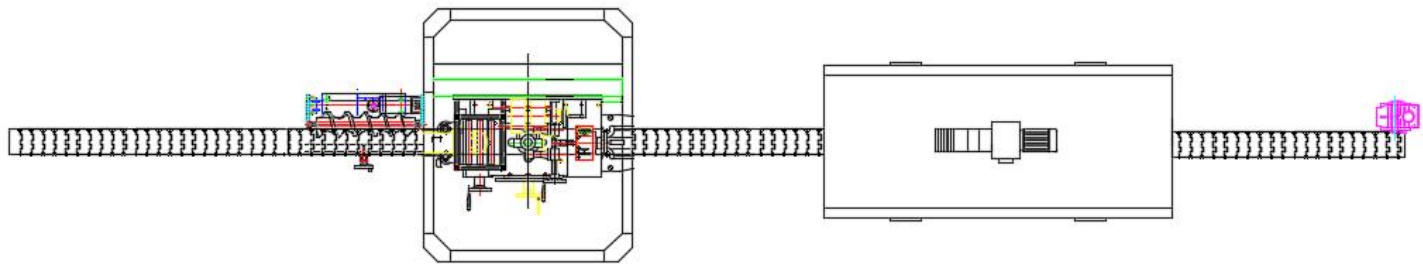
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BOM List

Machine Frame	SUS304
Inner construction material	Aluminium alloy
Accessory	Engineering plastic
Synchronous belt	Rubber



TB-150 Design layout for ref

Steam shrink tunnel:



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Sleeve shrink tunnel for ref

Made of SUS304 stainless steel. The equipment is with steam controller for steam blow wastage. Remained steam be brought out to plant through wind motor. Steam press is adjustable. Shrink effect is perfect and will not hurt the label.

Parameters:

Power: 3PH,380V, 50HZ 0.25kw

Dimension: 1500*700*2000mm (SB-1500) 2000*700*2000mm (SB-2000)

Pressure: 0.4-0.7Mpa



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Show steam jetting pipe

Steam generator



Cupboard style design, make the machine small and compact in structure, it is ideal choice for saving room.

Design volume below 30L, within domestic checking-avoiding area. Inner set up water-steam separator, it will avoid the problem which steam with a lot of water, improve steam quality. Thermal



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tube connect with oven and flange, it will be easier for changing, maintenance.

One step electric control, automatic oven control, only need to connect water and power, and then press start button, the whole system will work by itself.

Several safe working lock. The machine is set up with safe value, pressure protector to avoid explosion. Also the machine is set up with low water protector, when there is no water supply, the oven will stop to work. Leakage protector will help to save people, the power will be cut off when there is emergency.

Electricity is clean than carbon.

Specifications:

Item	unit	Parameters	Item	unit	Parameters
Rating steam volume	kg/h	28	Main steam valve mouth diameter	DN	15
		30			
Rating working pressure	MPa	0.4-0.7	Safe valve mouth diameter	DN	20
Saturation steam temperature	°C	151-172	drainage valve mouth diameter	DN	20
Input power	KW	18	External size	760*570*1030mm	
		24			

Spare parts:

Description	Specification	Quantity
Driving belt	5M-500	1 piece
	5M-330	2 piece
Cutter head belt	5M-580	1 piece
	5M-450	1 piece
Hair brush belt	XL-114/113	2 piece
Bottle carrying belt	5M-230	2 piece
Clean down belt	TP-950	2 piece
Cutter		1 box
Hairbrush		1 piece
Bearing	6001	10 set
	6002	10set
	688	10set
	6901	4set
	6902	4set
	6802	2set
TOOLBOX		
Open wrench	14、 12、 8、 10	1set for each
Movement wrench	250 * 30	1set



Inner hexagonal wrench	7 kinds	1suit
Open screw driver	6 * 100mm、3*75mm	1set for each
Clubs screw driver	6 * 100mm、3*75mm	1set for each

3.4, Bottle Blow Dryer:



Description:

This machine is mainly an automatic drying device for drying the moisture on the outer wall of the bottle after filling, and then pasting the self-adhesive trademark.

1. The machine overcomes the situation that the original dryer brush is seriously worn, frequently replaced, and the bottle is easily poured, and there is no dust pollution caused by the brush.
2. The machine has the advantages of automatic silencer, air purification, energy saving and environmental protection.
3. The spider air nozzle type air knife is specially designed for drying the water on the surface of various round bottles and shaped bottles. It uses a custom-made universal joint nozzle to adjust the angle according to the shape of the bottle, and blow dry several times from top to bottom to ensure that the entire bottle is dried 360 degrees without dead corners and no moisture residue, so as to achieve the maximum drying effect and power saving effect.

Technology parameter:

Model:	CG-1.2
Capacity:	10000BPH
Bottle type:	Various shaped bottles and round bottles
Bottle height:	60-320mm



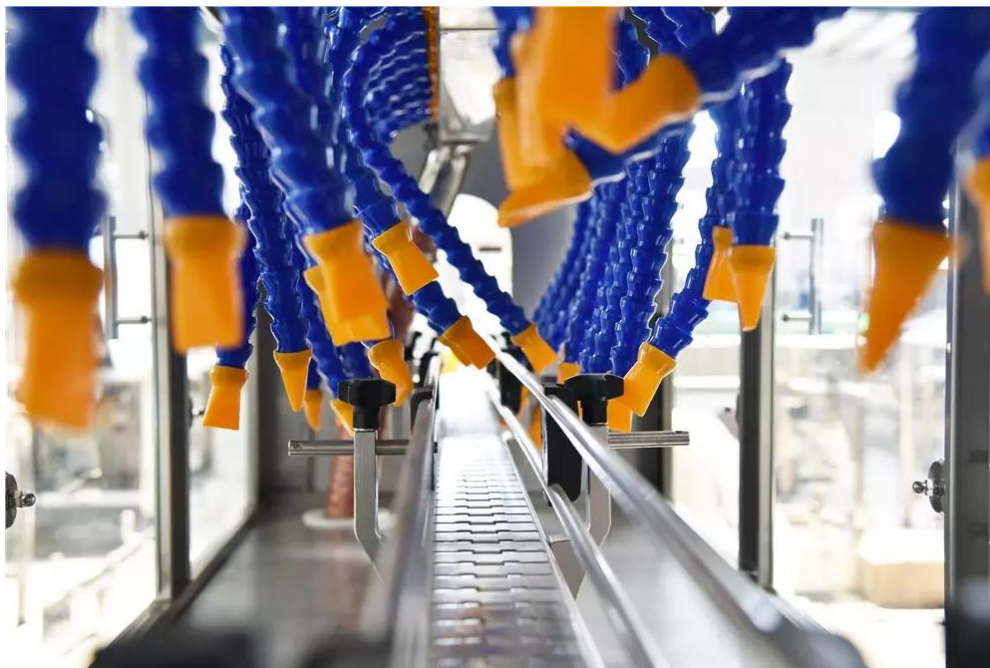
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Power:	7.5KW
Dimension:	1200*600*1800MM
Weight:	150KGS

Detailed picture:



Spider hand wind knife for ref

3.5 Ink jet code printer



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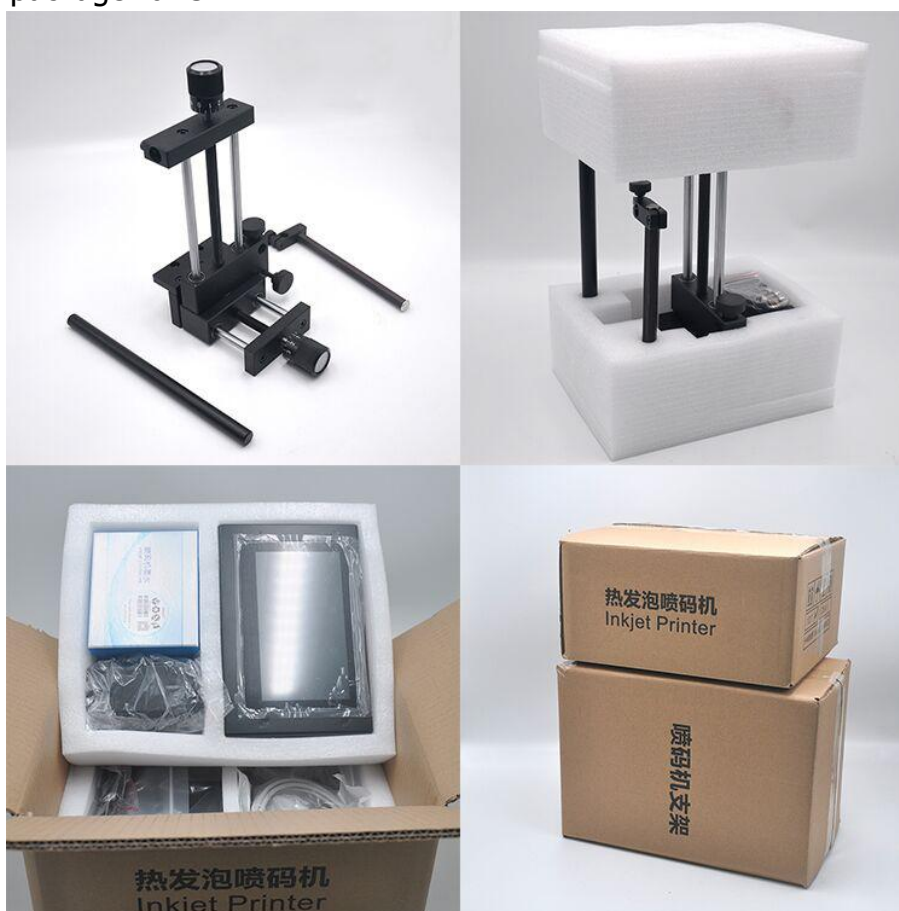
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1.Parameters:

Outer package size of the Ink jet code printer:370*270*380mm

Gross Weight for package: 6KG



2. Features

- 1) It has a Built-in pinyin input method of national Primary and Second Chinese character(more than 6000 Chinese characters).
- 2) The host has four font (Song type face, Hollow font, Bold font, Bitmap font).The four font can be mixed in arrangement. If you need other font, you can also transmit through computer.



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- 3) It can jet one to fifteen lines of English Numbers, or one to eight lines of Chinese characters, and the size of the word can be adjusted. This system is dual-purpose.
- 4) The editing interface can switch at any time to either English or Chinese.
- 5) It has indicator light for Photoelectric sensor, synchronizer and inkjet printing to show whether they are working normally.
- 6) Flash spray. Nozzle will not be blocked even standby for a long time.
- 7) It can be entered graphic of arbitrary length, instead of fixed graphic .
- 8) The machine can be directly edited printing information without computer. It has humanized design and fool type operation.
- 9) It has USB ports, which allows to access designed trademark from computer.
- 10) The two circuits for feeding ink are merged, which saves installation space of the equipment.

3. Technical Specification

- 1) Inkjet printing precision: 200 DPI
- 2) Inkjet print fonts: high-definition inkjet print fonts (print form)
- 3) Character: national Primary and Second Chinese character (more than 6000 Chinese characters), seven font (Song typeface, Regular script, Hollow, Bold, Clouds, New Song typeface, Bitmap font) to choose from, pinyin input method.
- 4) Inkjet print graphics: all sorts of trademark design can be printed, graphic transmission is not affected by length-to-width ratio and length.
- 5) The number of lines: one to fifteen lines of English Numbers or one to eight lines of Chinese characters can be printed, and the size of the word can be adjusted. This system is dual-purpose.
- 6) Character height: 1 mm ~ 12.7 mm high word font can be printed
- 7) Inkjet print distance: nozzle to printing objects 5-10 mm
- 8) Automatic inkjet printing: date, time, batch number, class and serial number, etc
- 9) Storage information: 100 messages, 100 graphics can be stored
- 10) Message length: each message can be up to 200 characters
- 11) Serial number: Number of Bits 1-8 bits variable sequence number
- 12) Inkjet printing speed: up to 75 m/min, and inkjet printing speed does not change due to the increase of the number of lines (**Capacity reach max around 10000 bottles per hour**)
- 13) Ink color: black, red, white
- 14) Inkjet print direction: nozzle is rota-table, adjusted to forward, backward and straight down. The program is set to adjust upside down and turn around.
- 15) Material for inkjet printing: the surface of metal, plastic, wood, aluminum foil, cartons and building materials and so on.
- 16) Application: such as mobile phone screen, Beverages cap , food packaging bags, medicine boxes, plastics-steel doors and windows, aluminum alloy, batteries, plastic pipe, steel plate, circuit boards, chip, woven bags, eggs, brake pad, phone housings, cartons, motors, transformers, inside dishes of water meter, gypsum board, PCB circuit board, outer packing of explosive, etc.
- 17) Ink used: environmental protected quickly dry printing ink or oil-based ink, no need to use external gas or diluent
- 18) External interface: USB, synchronizer, photoelectric sensor, data line
- 19) The machine size: 34.7 x 22 x 10 cm
- 20) Power supply parameters: AC 220 v
- 21) System power consumption: the average power consumption is less than 100 w
- 22) Application Environment: temperature (0 °C to 40 °C); humidity (40% to 70%)
- 23) Status display: spray printing, synchronizer and photoelectric have light display when they are



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normally working

The external packing size of ink cartridge is 13x4x4cm, and the expiration date of the ink cartridge is 9 months.

It is recommended to use it within 6 months after opening. No quantity for one container, Packing according to the required quantity.



Consumption ref:

1 bottle of ink for 2mm: 20 million characters;

If you print one line 8 characters each bottle, then 1 bottle of ink can last around 5 month;

If extra needed, unit price: 55USD/bottle;

What should I do if the ink cartridge is used up? There are two ways:

1. You buy ink cartridges directly from us. 55USD/pc;

2. You buy a chip sticker from us, and the chip sticker is 1 USD. Then you buy HM45 or IUT cartridges in your country, and then stick the chips on the cartridges for use.



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**The installation details on standard engineering plastic belt conveyor system:
(We will build a stainless steel plate for screw installation on the side of conveyor)**



3.6, Bottle film shrink wrapping machine:



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1) technical parameter:

- facility type: BL-150A type
- facility external size: L6150*W3300*H2100mm
- suitable max size: D 25-120mm, H 30-250mm
- Max size of film package:430*305*340mm
- shrinkage film size: PE、PVC、POF
- shrinkage thermos thickness: 0.03-0.15mm
- thermos shrinkage tunnel temperature: 160 - 200°can adjust at will.
- max output per minute: 0-10bag
- facility power: 28KW
- Film cutting power:4KW
- Shrinkage Power: 20KW
- pressure requirement: 380/220V
- facility weight: 1.2T
- fan machine: 65W 4sets

2) facility basic configuration:

- stainless steel wing heating tube 12 piece
- China-America cooperation Teflon convey belt.
- Shanghai Hemei electric-motor and Zhejiang Tail worm speed-regulation machine.
- South-Korea Autonics photoelectric switch, proximity.
- thermos sealing knife condominium-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



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- Carton and wrap page film pack separately.

3) product description:

- frequency converter speed adjust、two segment convey device.
- Bottle pushing, thermos 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 2, Regarding can, we suggest adopt to package with tray, pack steadily.

3,package speed: 10packs / min

4,meet with filling machine. Speed

(1) 350/500/550/600ML big pack: 4×6, 4×5, (12000—15000b / hr) 、 small pack: 3×5, 3×4, (8000—10000b / hr) .

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

5,package material: PE thermos shrinkage film width (200—600mm) , thickness (0.08—0.12mm)

5) solution:

1,according production line, auto arrange, and combine our company BL-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 prep-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 BL-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.

6) production procedure:

Wrap-page from single-line 90°change to multi-skilling 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, wrap page was conveyed to cutting and sealing machine to seal and cut, wrap page 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)



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- 1,BL-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,BL-150A automatic film wrap page fracture, cam complete wrap page auto film covering and sealing, cutting function.
- 3,BL-150A auto thermos shrinkage cooling fracture, can auto contraction and cooling function after film covering.

Main component detail list

Part	Qty	Brand
PLC	1	Delta
Touch screen	1	Interviewee
Power switch	1	Schneider
Transducer	1	Schneider
Sensor	2	AUTONICS
Approach switch	2	AUTONICS
Magnetic switch	6	AIRTAC
AC cont-actor	1	Schneider
Middle Relay	10	Schneider
Temp meter	1	NuoHai
Temp meter	1	NuoHai
Thermonuclear	2	/
Valve board	1	AUTONICS
Magnetic valve	5	AUTONICS
Film press cylinder	1	AirTAC
Cutter cylinder	1	AirTAC
Bottle transferring cylinder	1	AirTAC
Press cylinder	1	AirTAC

Detailed picture:



Full piece bottle inlet belt chain to suit all kinds of bottles



Bottle cylinder holding system to make sure one pack stability



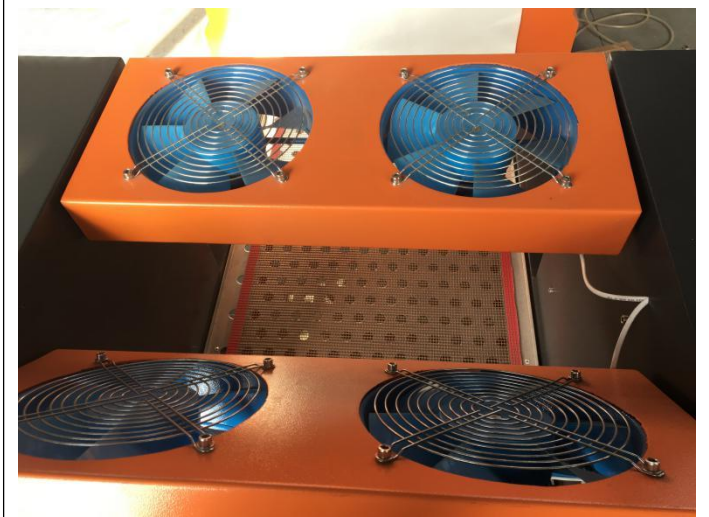
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Whole piece bottle pack transmission board to make sure transmission stability

Teflon mesh for stable moving

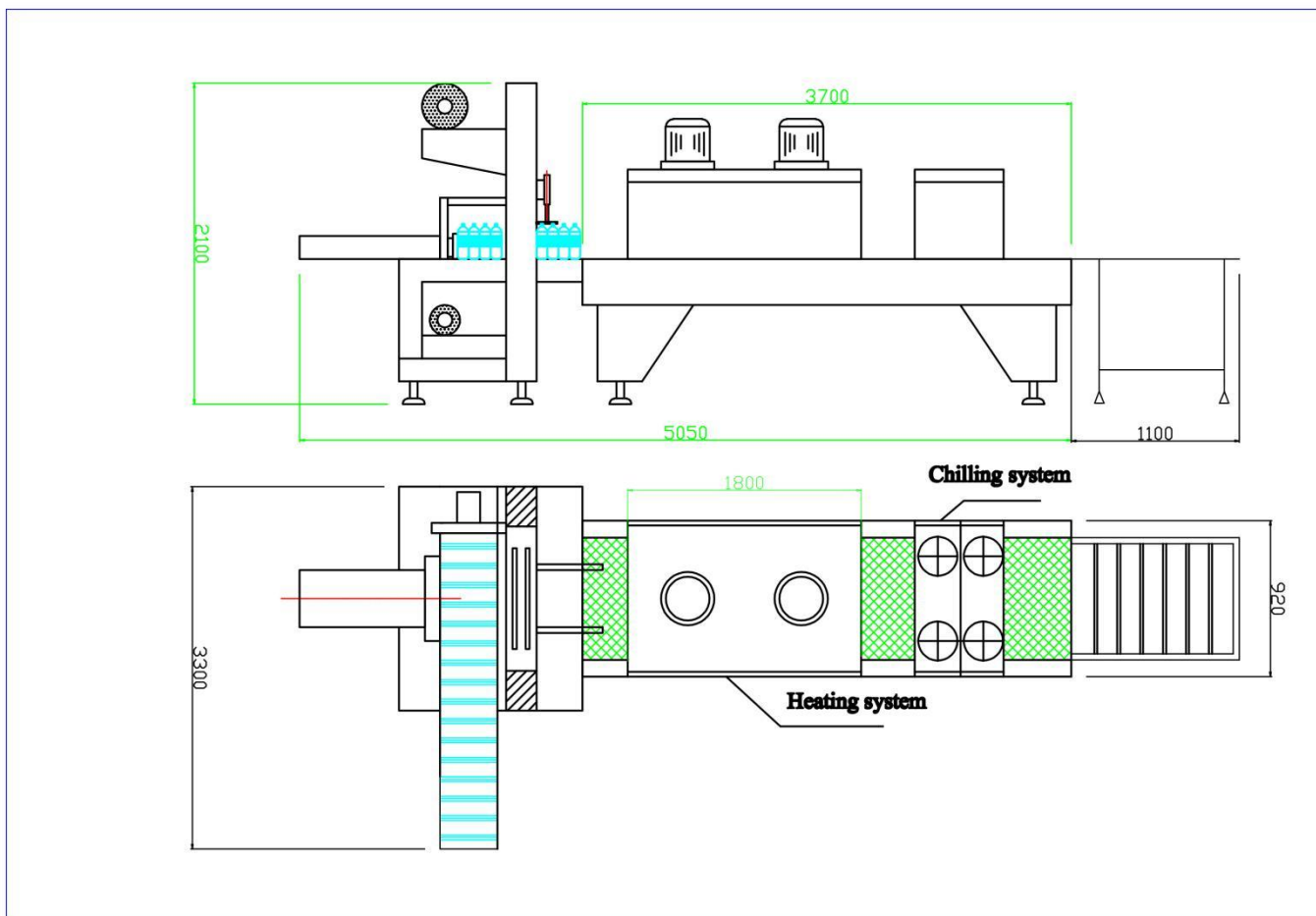


4 air coolers for cooling

Full body view of shrink tunnel



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L type automatic shrink wrapping machine structure diagram for ref

4, Additional equipment

4.2, Air compressor





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Air compressor	Unit	0.6M3/min/0.8Mpa
Volume	M3	0.6
Pressure	Mpa	0.8
Capacity	L	90
Speed	r/min	980
Power	KW	4
Overall Dimension	mm	960×470×800
Weight	kg	130

V. Delivery time:

20-30 working days after deposit payment.

VI. Payment:

30% TT against PI, 70% before Shipment, small amount suggest once payment.

VII. Our service:

- Technical support
- We will suggest customer the most suitable production line, including the output and the cost-effective of the equipment. Once the customer have any question about production line, we will try our best to provide the most professional solutions.
- We can help with the placement drawing and equipment layout if the customer need.
- Once the customer have any question about the production line, we will try our best to provide the most professional solutions.
- We can recommend spare parts and relevant equipment accordingly to the customer.
- Production status update
- We are responsible for showing the production progress of production line to the customer regularly until all the equipment are delivered.
- Before shipping, we will send detailed equipment photos, spare parts and accessories photos, production line running videos, packing photos and delivery photos to the customer online. If the customer think it's necessary to inspect on site, we can also arrange it according to the customer's requirements.
 - Installation & commissioning
- After the equipment arriving at the customer's site, we suggest the customer to unpack to verify well arrival and arrange the equipment placement according to the drawing already fixed.



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- If requiring on site technical guidance, we will also cooperate with it. The customer have to inform us his application ahead of time on the equipment delivery. Then, we will arrange it into the commissioning lists and try to confirm a proximate date(except unpredictable factors) according to actual conditions. Afterwards, the customer have to help our technician with visa application and documents preparation.
- If requiring on site installation and commissioning, all the of costs including visa, round trip flights, food, traffic, livings as well other local costs are at customer's expense. At the meantime, the customer should pay wage to our technician(Asian area USD80/person/day, other areas USD100/person/day). The time is calculated from flight going date to flight arrival back date. Meanwhile, The expense should be settled by cash at last before our technician leave your site.
- Training
- We will provide customer particular equipment instruction of our production line, the customer can follow the instruction when install and commission. Once the customer meet any trouble when operating, we will give prompt guidance.
- If the customer require on site learning, it's better to arrive at our our factory one week before delivery.
- Quality assurance
- We guarantee the goods offered are brand-new, not used, with latest design and suitable material made, and we guarantee the specification of the equipment is consonance with the contract.
- We guarantee the line achieve product technical performance indicators within 5 days after feeding operation through the correct guidance of the installation and commissioning.
- We are responsible for the fault and damage of the production line caused by our design, technology, manufacture, installation, adjustment and material defect etc. that all belong to our responsibility.
- The warranty period is 12 months after acceptance check of the production line. If there is any difference between the furnished equipment in the customer's factory and the equipment concerned in the contract, the users have the right to pass the inspection book to the legal department to claim for compensation to our company within goods warranty period.
- Offer 12 months maintenance period to the problem that caused by our design, manufacture and the material quality, and offer the relevant parts and effective service for free for above reason.
- Further support



ZhangJiaGang city-BOTTLING Machinery

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- We can provide customer all the spare parts and accessories for selling after the expiration date.
- We will offer customer widely and favorable technical support, after-sales service lifelong.