



**SHADMEHR
PACKAGING**

8000-10000BPH PURE WATER
PRODUCTION LINE (FOR 500ML)

From: James



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PART I PRODUCITON LINE DESCRIPTION

- 1.1 Rated capacity: 8000-10000BPH for 500ML bottle
- 1.2 Filling liquid: pure water
- 1.3 Filling bottle type: PET bottle: Max diameter 96mm, Max height 310mm. It is for consulting, we will produce the machine according client's bottle samples.
- 1.4 Filling type: gravity filling.
- 1.5 Cap: Standard screw plastic cap, we will produce the machine according client's cap samples.
- 1.6 Filling temperature: room temperature.
- 1.7 Package: 4*6 film package for 500ML bottle, 2*3 film package for 1.5L bottle or others
- 1.8 Conveyor mode: For empty bottle: Air conveyor; for full bottle: SUS 304 conveyor belt
- 1.9 Resource power: 380V 3 PHASES 50HZ and 220V 50HZ or according client's demand
- 1.10 This project book is an initial one, if there is any change of the project, both two parties should base on the final modification of the technical articles and commercial articles. Basic data of the production line



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PART II EQUIPMENT CONFIGURATION AND QUOTATION

Quotation for 8000-10000BPH (500ml bottle) pure water production line

S/N	NAME	CAPACITY	QTY	REMARK
A. Water treat system				
A1	Source water pump	Set use	1 pc	CNP
A2	Silica sand filter with multiport valve	10000LPH	1pc	SUS 304
A3	Active carbon filter with multiport valve	10000LPH	1pc	SUS 304
A4	Sodium ion exchanger	10000LPH	1pc	SUS 304
A5	Precision filter	10000LPH	1pc	SUS 304
A6	RO	6000LPH	1pc	-Pump is CNP -Membranes is HYDRANAUTICS -PLC is MITSUBISHI
	A6.1 High pressure pump			
	A6.2 R/O membranes			
	A6.3 low pressure & high pressure switch			
	A6.4 electrical panel for R/O			
	A6.5 washing system			
A7	Ozone	25gram	1pc	With O2 maker With O3 mixer
A8	Tank	3T	1pc	SUS 304
B. Filling system				
B1	3 in 1 filling machine	8000-10000BPH for 600ml	1 set	CGF24-24-8
B2	Cap elevator	Set use	1 set	
B3	Auto bottle Unscrambler	8000-10000BPH for 500ml	1 set	LP-18
B4	conveyor belt	Air conveyor belt	6m	According the layout
C. Packing system				
C1	Auto Shrink sleeve labeling machine	9000BPH for 500ml	1 set	with 18kw steam generator
C2	Drying machine	Set use	1 set	
C3	Light checker	Set use	1 set	
C4	Ink Jet Printer (France)	PMJ	1 set	France brand/USA brand
C5	Automatic PE shrink packing machine	30packages/min	1 set	
C6	conveyor belt system	Set use	10m	According the layout.
D. Other equipments				
D1	Oil-free compressor		1pc	
D2	Inter connecting pipe and valves to connect all machines		1set	SUS 304

NOTICE:

1. For the air convey belt and SUS conveyor belt, we just give you the around meters, the exact how much meters

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do you need, we need your workshop design, and then, we can know it.

2. For item **B2**—3-in-1 filling machine, the price is with 2.44m air conveyor belt, 4m bottle output conveyor belt.
3. For item **B3**—auto bottle unscrambler, the client can choose it or not. It is auto feeding the empty bottles to the 3-in-1 machine.
4. If the client cancel **B3**, he should cancel **B4** also. In this way, for B2, we will give the client 2.44m air conveyor belt, **1.5m bottle feeding table**, and 4m bottle output conveyor belt.
5. For packing system and other equipment, it is just my suggestion, you can follow them.
6. For the item **D2**, we also give you the around price, for the exact price, we need your workshop design, and we can know the exact one. Also, after we know the exact number, we will prepare all these pipes and valves according the layout, but maybe we will lost little, for the lost ones, the client should buy it in the local market.
7. The following machine pictures only for **consulting**.

Payment:

A. 30% OF THE TOTAL CONTRACT VALUE AS DOWN PAYMENT BY T/T; THE CONTRACT WILL BE EFFECTED BY THIS DOWNPAYMENT, AND START TO MANUFACTURE THE EQUIPMENT.

B. THE REST 70% OF THE TOTAL CONTRACT VALUE SHOULD BE PAID BEFORE SHIPMENT.

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PART III EQUIPMENT DETAILS

A. Water treat system

1. Source water pump

The brand is CNP, it is the most famous Chinese brand pump. The quality is best one in China. And the pump material is SUS 304. And the capacity can reach the water treat system



2. Silica sand filter with multiport valve

Summary

This machine 1Cr18Ni9Ti is made of stainless steel as a small tank which contains sand filter, it only allows un-treated water go through the sand filter, and do not allow any liquid go through another part, so it can filter the un-treated water. It also can be used in petroleum industry, pharmacy industry, wine making industry, beverage industry and higher quality water industry.

Main technical parameter

- (1). Model: SYS-10
- (2). working pressure: $\leq 0.3\text{Mpa}$
- (3). Flux: 10T/h
- (4). quantity of filter material: Silica sand

Structure and characteristic

This sand filter device is equipped with filter, filter's cap, and filter device parts, through tight the screw to pressurize, it can forms clean and dirty parts separately, you have to take care of the airproof on sealing part as you are installing the equipment.

3. Active carbon filter with multiport valve

Summary

This machine is designed and made after absorbing the advices from clients and customers, which has changed

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the directions of water-taking in and sewerage-taking out to be more efficient on water purifying. It has been welcome by the clients worldwide. This equipment is the last one for living water treatment. The water with chaotic degree maximum 5mg/L will be clear, transparent, innocuous, drinkable, axenic, sugary and according with the national standard for drinking water testing

This equipment can wipe off the peculiar smell, strange color and some heavy metal like hg, pb, cadmium, zinc, Fe, Mn, chrome, etc. contained in the water. It can also get rid of arsenic, hydride, redundant chlorine and other macromolecule compound and radioactivity substances as Sr and Ra. Bacteria, coliform and other carcinogen existed in the water will also be killed and wiped off. It is the ideal water supply equipment in various fields including living drinking, foodstuff making, pharmacy and chemistry.

This water purifier is simple and reliable, easy to maintain. It is suitable for the places which are strict with water quality like enterprises, hotel, army, station and dock. All in all, it is a really good water supply device for both industry and living.

Main technical parameter

- (1) Model: HYT-10
- (2) Working capacity: 10T/H
- (3) Filtering volume: 10T
- (4) Working pressure: 0.25MPa
- (5) Chaotic degree: maximum 5mg/L
- (6) Water quality after treatment: need to be accorded with GB5749-85 national standard for living drinking water
- (7) Filter medium: active carbon

4. Sodium ion exchanger

Soften:

- (1) Soften theory: Exchanging Na^{++} of resin itself instead of $\text{Ca}^{++}\text{Mg}^{++}$ of water resource with Ion to make water resource soften and become soft water.
- (2) The water resource which comes in the barrel exchanging resin and exchanging react with The ion in the barrel, Ion exchanging Na^{++} of the resin instead of $\text{Ca}^{++}\text{Mg}^{++}$ water resource to decrease the $\text{Ca}^{++}\text{Mg}^{++}$ of the water, the water quality becomes soft water from hard water.

Regeneration:

- (1) Regeneration theory: Using Na^{+} of salt solution permutate $\text{Ca}^{++}\text{Mg}^{++}$ of invalidity resin To make resin restore soften ability.
- (2) Regeneration preparation: After 24—25KG salt dissolve completely in I dissolved tank And put it totally into II tank, and then dilute to thickness is 5% salt solution with water. Then dilute thickness is 10% salt solution with 24---25KG salt in I tank.

- Disposal water volume: 1ton/hour---10ton/hour
- Input water hardness: <4miligram/liter
- Output water hardness: <0.035miligram/liter
- Working pressure: 3kilogram/cm²
- Testing pressure: 4.5kilogram/cm²
- Working periods:48---50hours

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Ion-exchanging agent: 732resin(or sulfured coal)

Soft water periods production capacity: 96ton/periods-----100ton/periods

The following picture **from left to right**, they are: pump, sand filter, active carbon filter, Sodium ion exchanger



The following picture, **from right to left**, they are sand filter, active carbon filter, Sodium ion exchanger



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5. Precision filter

Summary

This machine 1Cr18Ni9Ti is made of stainless steel as a small tank which contains precision filter membrane, it only allows un-treated water go through the membrane, and does not allow any liquid go through another part, so it can filter the un-treated water. It also can be used in petroleum industry, pharmacy industry, wine making industry, beverage industry and higher quality water industry.

Main technical parameter

- (1). Model: JM-10
- (2). working pressure: $\leq 0.3\text{Mpa}$
- (3). Flux: 10T/h
- (4). Filter medium: PP ,10micron
- (5) Material: stainless steel 304

Structure and characteristic

This Precision filter is an advanced settled deep filter widely used with foldaway polypropylene. It is totally made from pure polypropylene for it's structure. The medium of filtering core adopts hot-melting fiber membrane made from polypropylene. This product has comprehensive chemic adaptability without using surface active type felting solvent. The scale of precision filtering is from 0.10mm to 60mm. The precision of the membrane won't be affected by the pressure caused by the taking-in water.

6. RO

Summary:

The device's key part: the reverse osmosis membranes is from the America HYDRANAUTICS company, it has a good performance to eliminate salts and the high pressure pump is from a high quality pump producer in China, it's easy to handle for its simple structure. The source water, in the case that the conductivity is less than 300us/CM, can reach the national standards totally after treatment by this device, it's the most ideal equipment for water treatment.

Main technical parameter:

Model: RO-1

Production Capacity: 6CBM/h Working Pressure: 1.5Mpa



on the left of RO, it is Precision filter

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7. Ozone

Summary

Ozone sterilizer is designed and made to produce ozone, which is to sterilize. Ozone molecule is the allotrope of oxygen atom, with the molecule formula O_3 . As a kind of strong oxidizers, O_3 is with its function on the field of sterilizing. It is widely used in the living drinking and mineral water producing. It has the special function to deal with the poisonous and hardly-decomposed contamination and to improve the biology activity.

The O_2 maker is for producing the O_2 from the air. So, if we connect O_2 maker and Ozone, the O_2 maker can supply the O_2 for the Ozone to produce the O_3 . O_3 mix the water via a O_3 mixer to sterilize the water. After that, the water goes to the tank.



8. Tank

Material: stainless steel 304

Capacity: 3T



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B. Filling system

1. 3 in 1 filling machine

CGF24-24-8 3-in-1 Unit is a kind of professional filling machine integrator for water, It is multifunctional which can be used for washing ,filling and capping. It is a kind of advanced filling machine integrator which is innovated following the process requirements of filling water based on the importing and assimilating the foreign advanced technology. It is applied mostly in washing, filling, and capping plastic cap for mineral water and pure water. It is the perfect selection to a large or medium-size beverage factory due to its reasonable configuration, security of operation, dependability of running and its so convenient maintenance.

The primary features:

1. There are some features such as compact conformation, good shape, cozy operation, excellent automaticity and poor labor intensity.
2. We adopt air conveyor bottle feeding technology instead of the feeding screw and conveyer chain. Easily change the bottle change over parts.
3. It adopts the blocking bottleneck technology to convey bottles. It does not adjust the height of equipment when the type of bottle is exchanged. According to the diameter of bottle, you could exchange corresponding nylon elements such as arc slipper guide, thumb wheel etc..
4. Those stainless steel bottle nips of wash are designed especially and are solid and durable. It does not touch thread position of phialine, in order to avoid the second pollution.
5. All of parts directly contacted with material are adopted with food stage stainless steel without dead angle. So they can be cleaned easily.
6. It can keep the slight turbulence of liquids level in the solution barrel and ensure the accuracy in filling.
7. The opening valve mechanism is driven by the cylinder. According to the bottle signal, it opens timely, exactly and reliably.
8. High filling speed and mass flow rate, high precision of filling valve and control of liquids level is accurate and without loss.

COMPONENTS

The complete machine consists of 6 parts as following:

1. Washing system: it consists of washing gripping dial, water diversion pan and flume.
2. Filling system: it consists of hydraulic cylinder, filling valve, control ring and lift air cylinder.
3. Capping system: it consists of screw capper, cap aligner and cap sliding guide rail
4. Power system: it adopts gear centralized drive model, which is consists of main motor and gear pairs.
5. Conveying system: it consists of guide table, thumb wheel and conveyor chain.
6. Electrical control system: it adopts frequency speed control, PLC control automatically and touches screen operation.

Brief work process:

Bottles are transmitted to the "Washing machine" of the Triad Filler by the "Bottle-feeding thumb wheel" via the "air conveyor". The "Wash gripping dial" of "Washing machine" grips bottleneck and turn 180° along a guide rail that makes bottleneck down. The special nozzles spray wash water to clean interior of bottles in the given area. After cleaning and drying, the "Wash gripping dial" turns bottles 180° again along the guide rail that makes bottleneck up. These cleaned bottles are put out from the "Washing machine" and transmitted to the "Filling machine" via the "Bottle-turning star wheel". These bottles entered the "Filling machine" are folded by bell jars and elevated up to touch with filling valve by the lifter cylinder. Before entering filling machine, there is a button for inspecting bottles on the steel thumb wheel. It sends the bottle signal to control the opening valve mechanism, and then the filling valve would be opened. The filling shall be started while air injection is reached to state of equipressure. The filling could be stopped automatically when the liquids level reach to the height of air return pipe. The filling valve is closed recur to valve-closing mechanism after filling. Then air is discharged and the complete filling process is finished. Bottles full filled come down to be off filling valve under the function of cam and be put into the "screw capper" via transitional thumb wheels. The bladed stopper on the "screw capper" locks the bottleneck to keep bottles erectly and avoid rotating. The "screw cap head" keeps revolution and rotation on the "screw capper" and carries out these movements of cap picking, cap covering, screw capping and cap unhitch etc. after that whole capping process is finished. The

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“cap aligner” is situated above the “screw capper”; it is connected with the cap pan of “screw capper” via the cap sliding rail. The finished bottles are transmitted to the bottle output conveyor chain via the bottle output thumb wheels. And which are transmitted out from the Triad filler by conveyor chain and put in the next process.

MAIN TECHNICAL PARAMETERS

1. Equipment type: CGF24-24-8
2. Quantities of service position of the washing machine: 24
3. Quantities of service position of the filling machine: 24
4. Quantities of service position of the capping machine: 8
5. Bottle material: polyester bottle
6. Bottle height: 120-360mm
7. Bottleneck diameter: $\phi 50-\phi 120\text{mm}$
8. Pressure of air supplier: 0.7MPa
9. Consumption water: 0.8-1.0 M³/hour
10. Washing water pressure: 0.2~0.25MPa
11. The maximum throughput: 500ml 10000BPH
12. Power:6.5KW

Main configuration for 3 in 1 filling machine:

- 1) Material of rinse and rotary plate, machine table is stainless steel 304.
 - 2) Touch screen: DIGITAL
 - 3) PLC: OMRON/ MITSUBISHI
 - 4) Photocell switch and proximity switch: AUTONICS (South Korea)
- The electrical parts and pneumatic parts used in the 3 IN 1 machine are listed as follows:

Main Electrical parts:

1. contactor: SIEMENS/ Schneider
2. thermo relay: SIEMENS/ Schneider
3. breaker: SIEMENS/ Schneider
4. intermediate relay: OMRON/ Schneider/ MITSUBISHI
5. Photocell switch and proximity switch: AUTONICS (South Korea)
6. Frequency inverter: MITSUBISHI
7. Main Pneumatic components: AIRTAC



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2. Cap elevator

Summary

The machine is mainly used for conveying the caps from the lower to a higher position within the hopper cap is a cap machine auxiliary equipment. The delivery of the equipment sent by the wind. The device has a smooth operation, high capacity, easy to control and so on. For plastic cover, aluminum cover transportation.

Main technical parameters:

- ★Capacity: 12000 B/H
- ★Blower power : 0.75KW 415V(50HZ)
- ★Maximum air volume: 35m³/min
- ★Send cover control: pneumatic feeding interval type
- ★Compressed air pressure: 0.8~1.0MPa



3. Auto bottle Unscrambler

This machine is suitable for unscrambling disordered polyester bottles, make them stand in one line, and then transfer them by vacuum conveyor. it has these features:PLC program controlling, digit showing speed, automatic ,high speed operation, easy to combine with all kinds of filling machine or other filling production line.

Main technical parameter:

- Model: LP-18
- Capacity: 10000B/H 500ml bottle
- Suitable bottle diameter: ϕ 50- ϕ 90
- Suitable bottle height: 170mm-340mm
- Weight: 2800KG
- Power: 2.5 KW

LP-18 automatic bottle unscramble machine is especially for soft drinks filling equipments, used to make scrambler PET bottle in lines to convey to the production.

The economy for this machine use high quality stainless steel, other parts use innocuity, durable materials, electrical air, air move system use imported materials, the whole process is controlled by PLC, so can get low fault, reasonable characteristics.

Working process

Bottle storehouse → bottle filter →bottle setting → star wheel bottle extract → air convey

Beverage PET bottle go from bottle storehouse to manual ascending bottle filter, after belt upgrade to bottle outside tanks, then conveyor staff along with orbit to big bottle setting frame, slip under reversal then convey by star wheel to air conveyor system, last to bottle belt conveyor system, the whole process is automatic controlled by PLC.

Main configuration for auto bottle unscrambler:

1) Material of rinse and rotary plate, machine table is stainless steel 304.

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2) Touch screen: DIGITAL

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9. thermo relay: SIEMENS/ Schneider

10. breaker: SIEMENS/ Schneider

11. intermediate relay: OMRON/ Schneider/ MITSUBISHI

12. Photocell switch and proximity switch: AUTONICS (South Korea)

13. Frequency inverter: MITSUBISHI

14. Main Pneumatic components: AIRTAC



C. Filling and Packing system

1. Auto Shrink sleeve labeling machine

Auto shrink labelling machine will carry bottle, separate bottle, sleeve label and shrink label together which is with high speed, accurate position, fewer worker and perfect packing. Our machine can be applied to the packing of beverage, condiment, cosmetic, etc.

Driving unit:

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

Cutter head unit:

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1. The new style cutting knife driven by servo motor, with high speed, more stable and precise, shrink perfectly. Synchronous locating device enables the tolerable error to $\pm 1\text{mm}$. Unit cutter head plane design in China which apply to the container of $\phi 30\text{mm}$ — $\phi 130\text{mm}$. You never need to change or debug it. Cutter head original transducer is inside the cutter head and when you take down cutter head, you don't need to correct the synchronous belt. It also has unique light touch human-machine screen, that means, auto search original location as well as safety and convenience which is ahead of other congener products.

2. The new design of cutter adopts step motor with high speed, stable and exact movement, trim cut place and perfect shrink. Compatible with the label synchronous location structure, the error of cutting place is within 1mm.

Label feeding unit:

Single material shelf with reasonable height in order to make it convenient to install label. It adopts rotary potentiometer which enable the label feeding stable and fluent and avoid the error label length, label block and other problem when label feeding servo convey the label. It will stop automatically and give alarm light and also display on the touch screen.

Clean down unit:

Adopt with motor coordinating with double circular arc synchronous belt makes clean down plastic core-rubber-tires synchronously and ensures the label casting stably.

Bottle carrying system:

Adopted with mechanical transmission to drive the positioning belt on both sides. While changing the whole bottle carrying unit, the down and up, width are all controlled by one handwheel aiming to synchronously and swiftly adjust.

Machine head up and down unit:

It adopts motor to up and down which enable the operation more convenient.

New steam shrinking tunnel:

The new style steam shrink tunnel improve the efficiency highly. The adjustment and maintain is convenient, the shrink is in order. The spout of steam use the separation style which make 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 disassembly and fixing is 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 and working environment cannot be influenced. 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.

New hot air shrinking tunnel: It adopts high pressure blower machine. Special designed hot air circle tunnel saves more energy and make the shrunk bottle more beautiful. Compare with the traditional shrinking tunnel, this kind of tunnel can do better for curved bottle.

Main technical parameter of the equipment

I .SPC-150B label sleeving machine

Model	SPC-150B
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production capacity	≈9000-10000BPH (label length≤100 mm)
Percent of pass	≥99.9%
Whole line productive efficiency	≥95% (according to 24 hours)
Diameter of bottle	∅28mm ~∅ 125mm ,special size can be designed
Height of bottle	30 mm -280 mm, special length can be designed
Applicable material of label	PVC、PET、OPS
Applicable length of label	30mm ~250mm
Applicable thickness of label	0.027mm ~0.13mm
Transparent length of label	≥5mm
Internal diameter of paper tube	≥4" (101.6mm)
Outside diameter of paper tube	≤500mm
Voltage	AC415V, 50HZ, 3 phases
Input power of label sleeving machine	1.5KW-2KW
Input power of shrinking tunnel	A: 0.37KW(steam shrinking tunnel)/B:18KW(electric heating shrinking tunnel)
Pressure of steam source	1-8Kg / cm ²
Consumption of steam	<25Kg/hour
Outside dimension	Label sleeving machine: L2100mm*W85mm*H2000mm Steam shrinking tunnel:L2300mm*W500mm*H1500mm

Spare parts and tool box list

SPC-150B auto label sleeving machine spare parts are as follows:

Name	Specification	Quantity	Remark
Driving belt	5M -500-15 W	1 root	For free
	5M -330-15 W	2 root	For free
Cutter head belt	5M -525-15W	1 root	For free
	5M -475-15W	1 root	For free
Hair brush belt	114XL*12W	2 root	For free
Bottle carrying belt	5M-230*10W	2 root	For free
Clean down belt	130XL*12W	2 root	For free
Cutter		1 box	For free
Hairbrush		1 piece	For free
For free: bearing (standard mechanical parts)			
Bearing	6002ZZ	10 set	For free
	6001ZZ	10 set	For free

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	635ZZ	4 set	For free
	6802ZZ	4 set	For free
	6902ZZ	2 set	For free

Configure list

SPC-150B				
Number	Name of configure (material)	Brand	merchant	original
1	Programmable controla	Panasonic	Panasonic	Japan
2	Transducer	Schneider	Schneider	France
3	Sensor	SUNX	SUNX	Japan
4	Touch screen	Schneider	Schneider	France
5	Servo system	Schneider	Schneider	France
6	Low power a-c dynamo	Panasonic	Panasonic	Japan
7	Low power electric appliance	Schneider	Schneider	France
8	Bearing	NSK	NSK	Japan
9	Synchronous belt	GATES	GATES	American
10	Frame	SUS304 (food class stainless steel)	Korean posco	Zhangjiagang

Tool box list

NO	Name	Specification	Quantity
1	Open wrench	14、12、8、10 (totally four)	1set
2	Movement wrench	250 * 30	1
3	Inner hexagonal wrench	Totally seven	1set
4	Open screwdriver	6 * 100mm、3*75mm	1set
5	Clubs screwdriver	6 * 100mm、3*75mm	1set

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2. Drying machine

Summary:

CG-1 drying machine use air fan resource, wind frame, draught can modified, three side dryer on total. To make sure the surface of the bottle no sweat. Easy to labeler, code sprayer, package so on process.

Technical parameter:

Capacity :	12000B/H
Air length:	1200mm
Pip size:	40*40mm (δ=1.5mm)
Power :	5.5 kW
Dimension:	1500×350×1400mm



3. Light checker

This machine is bottle test after liquid filling equipment, inspection of the bottle to be tested in a row, white light behind the bottle through photos, enlarge the magnifying glad in front of the bottle. It can easily be visual.

Technical parameters:

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Capacity : 60-400B/min

Test type: White light is visual measurement. Enlarged is double.

Power supply: 240v 50hz

Power: 0.5kw

Size: 1400×580×1200 mm



4. Ink Jet Printer (France)

It is France brand. For the details, I will give you another PDF details.



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5. Automatic PE shrink packing machine

CHARACTER

1. Specially designed for packaging production line of beer, beverage, pure water, fruit juice, dairy products, etc.
2. With full automatic functions of bottle transfer and arrange, membrane packing, sealing and cut, shrinkage, cooling and shaping, etc.
3. Using advanced constant temperature membrane heat binding technology in the world with clear and secure seal.
4. The quick seal cooling structure guarantee that the seal has a higher strength even if under high speed production condition.
5. Adopt with PLC automatic program circulation control with stable and reliable performance.
6. The original imported guide bar cylinder guarantee correct operation and durable.
7. The inductive switch controls the membrane transfer system to reliably adjust and control the membrane transfer length with less loss.
8. All the transfer system is controlled by frequency changing devices With stable and smooth transfer speed.
9. Unique thermal passage with 2 sets of centrifugal thermal air circulation system that has an equal heat distribution with beautiful and secure shrinkage effect.
10. 3 layers of heat insulation treatment with good insulating property, quick temperature rise and energy saving.
11. The enhanced cooling shaping passage can quickly turn the packaging membrane into high strength status that is conveniently stored and transported.
12. It is easy to change the packaging combination and bottle type to integrate the multi-function into one machine.

SPECIFICATION:

Dimension For The Whole Unit	L6500mm×W3200mm×H2100mm
Thermal Shrinkage Passage Dimension	L1800mm×W650mm×H400mm
Max Package Dimension	L600mm×W400mm×H350mm

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Packaging Speed	10-12Pcs/minute
Transfer Belt Width	304mm
Sealing And Cutting Time/Temperature	about 0.5-1.5s 140oC-160oC
Operating Power Supply/Power	three-phase-five-line 380V 24KW
Operating Air Pressure	0.6-0.8Mpa



D. Other equipments

1. Oil-free compressor

It is like normal air compressor, but it is without oil.



2. Inter connecting pipe 304 to connect all machines

They are SUS 304 pipes and valves. We will try our best to prepare all the pipes and valves according the layout. But maybe we will lost some. If we lost some, the client should buy the lot ones in the local market.

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PART IV INSTALLATION, DEBUG, TRAINING AND AFTER SALES

1. Installation and debug

After equipments reached the workshop of customer, place the equipments according to plane layout we offered. We will arrange send technician for equipments installation, debug and test production at the same time make the equipments reach the rated producing capacity of the line. Time for installation and debug is 15-20 days.

2. Training

Our company offer technology training to customer. The content of training is structure and maintenance of equipments, control and operation of equipments. Training is in the workshop of customer. Seasoned technician will guide and establish training outline. After training, the technician of buyer could master the operation and maintenance, could adjust the process and treat different failures.

3. Quality guarantee

We promise that our goods are all new and not used. They're made of suitable material, adopt new design. The quality, specification and function all meet the demand of contract. We promise that the products of this line could storage for one year without adding any aseptic.

4. After sales

- A. after checking, we offer 12 months as quality guarantee, free offer wearing parts and offer other parts at the lowest price. In quality guarantee, the technician of buyers should operate and maintain the equipments according to seller's demand, debug some failures. If you could not solve the problems, we will guide you by phone; if the problems are still can not solve, we will arrange technician to your factory solving the problems. The cost of technician arrangement you could see the cost treatment method of technician.
- B. after quality guarantee, we offer technology support and after sales service. Offer wearing parts and other spare parts at favorable price; after quality guarantee, the technician of buyers should operate and maintain the equipments according to seller's demand, debug some failures. If you could not solve the problems, we will guide you by phone; if the problems are still cannot solve, we will arrange technician to your factory solving the problems. The cost of technician arrangement you could see the cost treatment method of technician.

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PART V CHECK & ACCEPT OF EQUIPMENTS

(Equipments supplied by our company, we will offer products quality guarantee and test report)

1. Check & accept standard (bottles and caps should be eligible)

- (1) working efficiency of the whole line $\geq 85\%$;
- (2) The quantity of waster of the whole line $\leq 0.2\%$
 - 1) Bottle leakage: invert the bottle and press by hand come forth water leakage
 - 2) Without cap, crooked cap or cap with damage
 - 3) Clip bottle bad or damage the bottle seriously
- (3).the whole line will run continuously for 8 hours, stable quantity of the average acceptable-end products $\geq 99\%$
- (4).the distance between the material inside the bottle and the top of bottle neck is less than 8mm (full after cooling)
- (5).the liquid reflux $< 10\%$
- (6).the sanitation of the product meets the standard of beverage industry.
- (7).about the checking and accepting of animalcule will carry sample and check according to the standard of nation beverage industry, the result of checking will according to the request of industry standard.

2. Check & accept procedure

- (1) After debugging the machine in seller's factory, after checking out and signature of two sides, then we can shipping the machine.
- (2) finish installation and debugging the machine, after checking out, Running the whole production line to show the line function, after certification then final checking. Meanwhile training for operation, maintenance and so on, then make a signature of two sides to become effective.



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PART VI SUPPLY, INSTALLATION, DEBUG TIME

1. time of equipments production: 45 days.
2. time of installation and debug: 15-20 days.



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PART VII PACKAGE AND TRANSPORT

As usual, we adopt wooden case as package type. It's suitable for long-distance transport. According to customers' special demand, we could adopt sheet iron case and so on.