

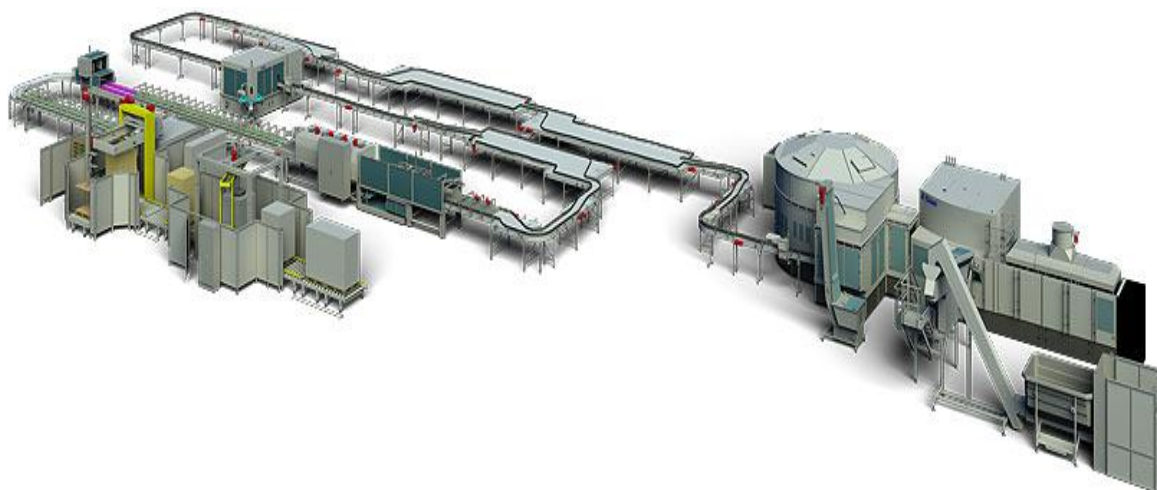
ZHANGJIAGANG COMARK MACHINERY CO.,LTD



Address: No.212 Jingxiu road JingFeng Town ZhangJiaGang
City JiangSu Province China
Name : gvain Tel: 0086-15850395866

Quotation of 6000BPH for 500ml water complete line

3000 BPH for 500 ml lemon juice alumuium bottle complete line



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Part 2 6000BPH 500ml water complete line

Basic data of the production line

- 1) Project name: **water Filling Line**
 - 2) Filling products: **water**
 - 3) Filling temperature: **normal**
 - 4) Workshop humidity: **No condensation**
 - 5) Final capacity: **6000 Bottles per Hour**
 - 6) Bottle: **Roundly PET Bottle with 28mm neck**
 - 7) Volume: **500ML**
 - 8) Label: **Shrink label**
 - 9) Bottle packing type: **Shrink packing**
- Voltage: **according to customer**

The technical parameter and pictures

1. Technical introduction of Blow Molding Machine ECO-6L

Economic, Convenient, Fast

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2.1 Specification of ECO-6L

Machine Model		ECO-6L
THEORETICAL OUTPUT		6000BPH
Mold		6 cavities
Bottle Spec.	Neck size	18-38mm
	Max. Bottle Size	2000 ml
	Max. Bottle Diameter	105 mm
	Max. Bottle Height	330 mm
Power Spec.	Lamp qty.	48pcs
	Heating area	6
	Heating Consumption	120 KW
	Total Power	126 KW
High Pressure Air Consumption		3.3 m ³ /min
Machine	Main Machine	5900 * 2100 * 2400 mm

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Dimensions	Preform Auto-loader	1900 * 1200 * 2300 mm
Machine	Main Machine	6500 KG
Weight	Preform Auto-loader	300 KG

2.2 Configuration of Blow Molding Machine

No.	Description	Brand & Origin
1	PLC	Mitsubishi (Japan)
2	Operating Panel	Mitsubishi (Japan)
5	High Pressure Blowing Valve	Parker (USA)
6	Cylinder	FESTO (GERMAN)
7	Low pressure Valve	FESTO(GERMAN)
8	Contact and Break	Schneider (France)
9	Sensor	OMRON (Japan)

Standard Spare Parts List of ECO-6L

SN.	Description	Specification	Qty.	Unit	Note
1	Hex wrench	φ14	1	piece	
2	Solid wrench		1	piece	
3	Monkey Wrench	Φ 50	1	piece	
4	Cross Screwdriver		1	piece	
5	Slotted Screwdriver		1	piece	
6	Slotted Screwdriver	3MM	2	piece	
7	Combination Wrenches		8	piece	
8	Tool kit		1	piece	
9	Quick Connector	Φ6-M5	10	piece	

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	(Non-adjustable)	$\phi 10-1/2$	2	piece	
		$\Phi 8-1/4$	6	piece	
		$\Phi 10-1/4$	6	piece	
		$\phi 16-1/2$	6	piece	
10	T-junction	$\phi 6$	6	piece	
		$\phi 8$	2	piece	
		$\phi 8$	4	piece	
11	Quick Connector (straight)	$\Phi 8-\Phi 6$	6	piece	
13	Elbow Connector (Adjustable)	$\Phi 8-1/8$	10	piece	
		$\Phi 8-1/4$	4	piece	
		($\Phi 6-M5$)	6	piece	
14	Elbow Connector (Non-Adjustable)	$\Phi 10-3/8$	2	piece	
		$\Phi 10-1/4$	6	piece	
		$\Phi 16-1/2$	4	piece	
15	PU Pipe	$\phi 6 \times 2$ meter	1	piece	
		$\phi 8 \times 6$ meter	1	piece	
		$\phi 16 \times 2$ meter	1	piece	
		$\phi 10 \times 4$ meter	1	piece	
16	Sealing parts		6	piece	
17	Heat Lamps		20	piece	New type
18	(Cylinder) magnetic switch		7	piece	
19	Optoelectronic switch		2	piece	
20	Approach switch		6	piece	
21	Servo Proximity switch		6	piece	
22	Supercharge screw (with O ring)		6	piece	
23	High pressure pipe (1 inch 3 Meter / containing two high pressure joints)		2	piece	
24	Supercharge sealing parts		4	piece	
25	Buffer rubber of Stretching rod		4	piece	

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26	Buffer rubber of Stretching rod	4	piece	
27	Perform holder	8	piece	
28	Φ8 Clamp spring (Outside)	10	piece	
29	Chain	12	piece	
30	Clamp spring of perform holder (Inner)	12	piece	
31	Machine feet Φ165	8	piece	
32	Tools	1	SET	Complete set

3.High Pressure Air Compressor



Model	CWM-4.8/30
Motor Power	60kw

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Air Discharge	4.8m ³ /min
Discharge Pressure	3.0 Mpa
Package Size	3200×1700×2000 mm
Weight	1800 kg

4.Low Pressure Air Compressor CW-2.0/12



Model	CW-2.0/12
Motor Power	15kw / 20HP
Air Discharge	2.0 m ³ /min
Discharge Pressure	1.0 Mpa
Tank	360 L
Package Size	2000×1050×1900 mm
Weight	780 kg

5.Air Dryer + 4 filters + Air Tank

Including:

- ✓ 1 set of Air Dryer 5.0m³/30 bar

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- ✓ 4 sets of Precision Filters
- ✓ High Pressure Air Tank 1m³/30 bar



6. Water Chiller



Model	NTS-5F
Compressor Power	5HP

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Refrigerant	8800 kcal/h
Total Power	5.3KW
Control	Micro-computer controller with digital temperature display
Outlet Temperature	5-20°C
Chilled Water Pump Power	0.37KW
Chilled Water Flow	2.9T/h
Water Pipe	DN25
Fan Power	2 X 120KW
Package Size	1300×850×1250MM
Weight	350 kg

2. 4 ton Water treatment

#1. WATER TREATMENT SYSTEM



1. Water Pump

Water pump are recommended for pumping clean water and chemically non-aggressive liquid. They have compact size and are extremely reliable, very simple to use, efficient and almost maintenance-free.

- 1)Material: High quality stainless steel 304
- 2)Modle :CHL-8-40
- 3)Brand :southern pump

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4)Flow length: 40m/H

5)Power:1.5 KW



2. Sand-medium Filter



Usage and Features:

Multi-medium filter is one of the main equipments which are used in the water treatment of drink water. After the filtering of this equipment, feculent organic matter and sexton in the untreated water can be wiped off.

This equipment has simple structure and is easy to operate, which is the ideal equipment used to purify water in medicine, drink, electron, chemical, water treatment and other trades.

Main Technical Data:

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- 1) Height: 2000mm
- 2) Mode :SYS-8
- 3) Diameter: 800mm
- 4) Material: Stainless steel (Food grade) —made in China
- 5) Component: Water sender, water collector, pressure gauge, filtration material, Valves, etc.
- 6) Filter media: Quartz sand
- 7) Usage: Mainly used to remove the algae, suspended solids, colloid, etc
- 8) Filter volume :6 ton/H

3. Active Carbon Filter



Usage and Function:

Active Carbon Filter is one of the main equipments which are used in the water treatment of drink water. The filter can not only weed out heterochrosis, peculiar smell, Cl_2 . It can get rid of and kill the bacilli, Escherichia coli, and other carcinogen. It is necessary filter of medicine, drink, electron, chemical, water treatment and other trades.

Main Technical Parameters

- 1) Model : HML-8
- 2) Height: 2000mm
- 3) Diameter: 600mm
- 4) Material: Stainless steel (food grade) mirror polishing — made in China
- 5) Component: Water sender, water collector, pressure gauge, filtration material, Valves, etc.
- 6) Media: Active carbon

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- 7) Usage: Mainly used to remove water odor, residual chlorine, chloride and heavy metals, reduce color and optimize water quality.
- 8) Processing capacity: 6m³/h

4. Sodium ion exchange

- 1) Model :SN2-8
- 2) material: SUS304
- 3) Overall dimensions: D800×H2000(mm)
- 4) filtration medium: good Sodium ion
- 5) thickness:3 mm
- 6) Size :800*2000 mm
- 7) Weight:250kg



5.Precision Filter

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Application:

JML series precision filter adopts micro porous membrane which is made of high polymer as its filtering medium. It is one of effective methods, which solves the problem of separating materials. It is modern advanced precision filtering equipment. It has advantages of high filtering efficiency, good quality, easy operation, low production cost and others. Its application range is wide. It is necessary filter of medicine, drink, electron, chemical, water treatment and other trades

- 1) Model: JML-8
- 2) Height: 1200mm
- 3) Diameter: 300mm
- 4) Treating volume: 6m³/h
- 5) Filter precision: 5μm
- 6) Usage: It is mainly used to remove the tiny impurity.
- 7) Material: SUS304 stainless steel (Food grade)—Made in china
- 8) Notice: Open the filter to remove the impurity.

6. 4T/H RO

Model: FSJ-4(1st grade)

1. Usage: This device is used to remove the germs, the harmful inorganic ion, and organic ion; remove heavy metals and salt; rearrange water structure. It is the ideal equipment to make high standard pure drink water.
2. Main design data:
 - Recycle rate: 65-70%
 - R=97%
3. Component:
 - 1). American HYDRANAUTCS company's ESPAI high technology80'×40' compound film

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- 2). Stainless steel high pressure film shell
- 3). Reverse osmosis high pressure pump two sets-NAN FANG pump
- 4). First grade: capacity3 m³/H
- 5). All kinds of capacity indicator, pressure indicator, electricity magnetic valve, balance device and pipe valve system
- 6). Online type pressure auto self-protection device
- 7). Online type electricity indicator (with stable compensation)
- 8). System safe protecting and alarm system
- 9). System frame
- 10). Working process demonstrator

5.Feature

- 1). High rejection thin film RO membranes
- 2). 304stainless Stainless steel machine frames
- 3). Durable & Efficient 304Stainless Steel Pressure source water Pump and Booster Pump & motors
- 4). Electronic control pan
- 5). Level controls (on/off)
- 6). Panel Mount Flow Meters (product water & concentrate)
- 7). Pressure regulator valves
- 8). Oil-filled pressure gauges for inlet and concentrate
- 9). 304 Stainless steel membrane housings
- 10). RO membrane auto wash and manual wash
- 11). Pure water height water level auto stop, low water lever auto run
- 12). Multi-levels pump no water protect
- 13). Low pressure shut-off and restarts
- 14). No power, poor power, short circuit, over burden electric current, creep age protects.

New water output (T/h)	4
PH	2-13
Working temperature(°C)	5-45
Working pressure(Mpa)	≤0.15

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7.Ozone generator

Food beverage factory processing water,sterilization ,disinfection

- 1)Capacity: 20g
- 2)Overall dimensions:350mm×260mm×500mm
- 3)Material: Carbon Steel
- 4)Weight:80kg



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8.Ozone mixing



9.UV sterlizer



- 1) Model: ZM-500
- 2) Material: SUS304 stainless steel—Made in china
- 3) Usage: It is mainly used to kill germs



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10 Pure water pump

Model: CHL-4

Brand: Nangfang Pump

Pipe : 304 stainless steel 1set

Weight:20kg

11. Water tank

Material :SUS 304

Volume :5 ton

Size :D1800*H3000 mm



3.CGF18-18-6 washing-filling -capping 3 in 1 machine .

1、 3-in-1 water filling machine

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1. Bottle infeed



Bottle infeed by combination of infeed starwheels.
Equipped with bottle jam protection device.

2. Rinser

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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.

Rinsing machine adopts comark original overturn and double-opened bottle clip. Bottle clip lock the bottleneck, the material of bottle clip is SUS304, which is hygienic and durable.

Bottle clip equipped with efficient spray on nozzle. The extrusive droplet with 15° angle ensures to wash all side of the bottle, and can save the water. Less 5% of water waste

3. Transfer starwheel

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Made of stainless steel of superior quality.
Equipped with bottle jam protection device.

4. Filler



The design of filling structure is reasonable and hygiene dead angle, the run of equipment is stable, it can control the material from the bottleneck, the control accuracy is within $\pm 2\text{mm}$ (subject to bottle design). The filling valve material is SUS304. The filling

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system has liquid level automatic control. Filling valve lift is controlled by the valve elevator, after filling valve contact the bottleneck, it start to fill. Bottle is conveying by the wheel in the filling part.

5. Capper



Screw capping machine is most precision part in the 3-1 machine, it has a big influence to the goods stability and defective rate. our screw capping has following feature.

1) Comark import of advanced technology of screw capping, improve the stability and reliability of the screw capping machine. 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.

2) In the screw capping part. it installed photoelectrical control , when it has no cap ,or the cap is bad, the machine will stop automatically.

Output bottle star wheel part

Nylon wheel and conveyor belt cooperate output the bottle.

Output bottle conveyor belt part

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Conveyor motor use frequency control of motor speed, which keep pace with the 3-1 machine. Prevent overturned bottle

Rack part

Rack is welded by high quality carbon steel, Antirust processing and spray surface. The surface is covered by the SUS304.

Electronic control system part

The electronic components like PLC and transducer are from Mitsubishi, Omron, etc., The pneumatic devices are also from international famous brand.

4. Equipment structure

- Base
- Rotary rinser
- Rotary filler
- Rotary capper
- Bottle infeed and outfeed system
- Control

NO.	Model	GCF18-18-6
1	Capacity	6000 B /H(500ml)
2	Filling Accuracy	≤±5MM
3	Filling Pressure	<0.4
4	PET bottle size (mm)	Bottle dimension Φ40-Φ110 bottle height Φ130-320
5	Cap-shaped	Plastic screw cap
6	washing bottle of water pressure	0.18Mpa
7	Volume of washing bottle	800kg/h
8	spraying position	6
9	dripping bottle position	5
10	Consumption	0.3m ³ /min
11	Total power	5.03kw
12	Total weight	3000kg
13	dimensions	2450×1800×1900mm

configuration

item	name	Brand
1	Touch screen	TAIWAN XINJIE
2	Transducer	Mitsubishi Japan

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3	Main electric	Delixi
4	PLC	JAPAN Mitsubishi
5	Approach switch	Korea AUTONICS
6	Light Fiber switch	Korea AUTONICS
7	Reducer	HANGZHOUJIE BRAND
8	Motor	ShangHai
9	Pneumatic elements	TAIWAN AIRTAC

4.Auto Shrink sleeve labeling machine



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Specification:

1. Size: 2000L*1000W*2000H(mm)
2. Weight: about 300KG
3. Bottle neck ;Ø25 --- Ø55, Ø55--- Ø 90, Ø 90--- Ø110(mm); chose any one of them, specially one need design according.
4. Label length: 30---190(mm)
5. Internal diameter: 5"---10"free adjustable
6. Speed: Max250B/M (Label height: 55mm speed 0-15000B/H);
The Label longer and the speed will lower.
7. Label thickness: 0.035---0.13(mm)
8. Label materials: PVC, PET, OPS
9. Conveyor frame: 2.40M stainless steel frame

Electricity part:

1. Voltage: 3 Phase 380V AC±5% 50/60HZ
2. Power: 3.5KW
3. Ground protection: Effective grounding more than 2 Square
4. Power line: 3X4C 4 square meters electric cable
5. Protection switch: 380V-3P 25A

Machine size:

1. Label machine: 2000L*900W*2000H (mm)
2. Steam tunnel: steam qty: 30KG/H
Steam pressure: ≤0.2Mpa
Steam tunnel dimension: 1200L*500W*600H (mm)

Configurations:

Name	Electrical part name	Model	Qty/unit	Manufactures	Original
insert motor	Low-power AC motor	4IK25A-C	2	STS/TWT	Taiwan
Feed material motor	Low-power AC motor	5IK60RGN(5GN7.5K)	1	STS/TWT	Twain
	Photoelectric sensors	HP-100	1	Yamatake	Japan
Belt motor	Low-power AC motor	5IK60GN-YF	2	STS/TWT	Taiwan
	Inverters	BFV00022DK	1	Panasonic	Japan
Sub-bottle motor	Low-power AC motor	5IK120GU-YF	1	STS/TWT	Taiwan
	Inverters	BFV00022DK	1	Panasonic	Japan
Brush motor	Low-power AC motor	4IK25A-C	2	STS	Taiwan
Cutter	Servo motor	MHMD042P1U(400W)	1	Panasonic	Japan

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head motor	cutter				
	Cutter Servo disk drive	MBDDT2210003(400W)	1	Panasonic	Japan
	Cutter origin sensor	EESX-671	1	OMRON	Japan
Dive	Drive Servo Motor	MHDDT082P1U(750W)	1	Panasonic	Japan
	Drive Servo drive	MCDDT3520003(750W)	1	Panasonic	Japan
Electric Eye motor	Photoelectric sensors	WL9-170	1	SICK	Germany
Cursor for shining bottle	Photoelectric sensors	HP-100P	1	Yamatake	Japan
Conveyor	Inverters	BFV0007GK	1	Panasonic	Japan
Program mable Logic Controller	PLC	FPX -C60T	1	Panasonic	Japan
Touch Screen	Touch Screen	HITECH	1	HITECH	Taiwan
Contactora		SE-03	7	Schneider	France

5.AUTO PE film packing machine

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Technical Specification:

1. Packing form: 4×6 for 250ml
2. Packing speed: 0~10pcs/min
3. Applicable container shape: circular container、quadrate container.
4. Total power charge: 19kw three-phase-five-line 380v/50Hz.
5. Machine size: L×W×H=6500×3200×2100mm (Include 1meter no-power rear transfer frame).
6. Operating air pressure: 0.6~0.8Mpa.
7. Air consumption: 0.4m³/min.
8. Conveyor belt extreme breadth: 304mm, conveyor height: according to fills

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production line(Adjusting scope 150mm).

Main performance features:

1. Compact & artistic shape. The frame is novel, unique.
2. Electronic induction feeding film, action is balanced and quickly replacing film.
3. Isothermal sealing cutter .The seal intensity is above cooling sealing cutter 3 times, the seal is even and the life is above cooling sealing cutter 80 times.
4. Transport system with speed regulation by frequency variation, the transmission action is precise and synchro.
5. The shrinkage chamber uses centrifugal thermal air circulation system, configuration is logical, heat insulation heat preservation, thermostat precision is high and the packing effect is better.

Main parts:

6535Part Disposition	Technology	Brand
Isothermal sealing cutter	TEFLON coat	USA DUPONT
PLC controller (core part)	Japan	OMRON
Transducer	TAWAI	TAIAN
All cylinder	Korea	UNIQUC
Motor protector	Germany	SIEMENS
Adjustor for pressure	Taiwan	JINQI
Approaches switch	Korea	AUTONICS
Contactore	Germany	SIEMENS
Meshy belt	USA	DUPONT TEFLON FIBRE

6.14-12-5 juice aluminum bottle filling machine

General description

3-in-1 filling monoblock, combined with rinsing, filling and capping. It is innovated and designed in the requirement of still pure water and mineral water, on the bases of introducing, digesting and absorbing advanced technology from Germany and Italy.

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Main features

1. Bottle infeed

Bottle infeed by combination of infeed starwheels.
Equipped with bottle jam protection device.

2. Rinser



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.

Rinsing machine adopts COMARK I original overturn and double-opened bottle clip. Bottle clip lock the bottleneck, the material of bottle clip is SUS304, which is hygienic and durable.

Bottle clip equipped with efficient spray on nozzle. The extrusive droplet with 15° angle

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ensures to wash all side of the bottle, and can save the water.

3. Transfer starwheel



Made of stainless steel of superior quality.
Equipped with bottle jam protection device.

4. Filler

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The design of filling structure is reasonable and hygiene dead angle, the run of equipment is stable, it can control the material from the bottleneck, the control accuracy is within $\pm 2\text{mm}$ (subject to bottle design). The filling valve material is SUS304. The filling system has liquid level automatic control. Filling valve lift is controlled by the valve elevator, after filling valve contact the bottleneck, it start to fill. Bottle is conveying by the wheel in the filling part.

5. Capper

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Screw capping machine is most precision part in the 3-1 machine, it has a big influence to the goods stability and defective rate. our screw capping has following feature.

1) comark import of advanced technology of screw capping, improve the stability and reliability of the screw capping machine. 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.

2) In the screw capping part. it installed photoelectrical control , when it has no cap ,or the cap is bad, the machine will stop automatically.

Output bottle star wheel part

Nylon wheel and conveyor belt cooperate output the bottle.

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Output bottle conveyor belt part

Conveyor motor use frequency control of motor speed, which keep pace with the 3-1 machine. Prevent overturned bottle

Rack part

Rack is welded by high quality carbon steel, Antirust processing and spray surface. The surface is covered by the SUS304.

Electronic control system part

The electronic components like PLC and transducer are from Mitsubishi, Omron, etc., The pneumatic devices are also from international famous brand.

Recycle tank

4. Equipment structure

- Base
- Rotary rinser
- Rotary filler
- Rotary capper
- Bottle infeed and outfeed system
- Control

Cap loader

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Model	14-12-5
Production capacity	3000 BPH for juice
Filling precision	$\leq \pm 5\text{MM}$ (liquid level)
Filling pressure (MPA)	<0.4
Polyester bottle standard (mm)	Diameter:640-90 bottle height :120-350 mm
Suitable cap shape	Plastic screw cap

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Water pressure of washing bottle (MPA)	0.18-0.25
Water consumption for water bottle (kg/h)	1300
Spraying postion	5
Dripping bottle position	3
Gas consumption (m3/min)	0.3
Total power (KW)	3.27
Total weight(KG)	1500
Dimension (L*W*H) mm	2200*1800*2200

configuration

item	name	Brand
1	Touch screen	TAIWAN
2	Transducer	Mitsubishi Japan
3	Main electric	Delixi
4	PLC	JAPAN Mitsubishi
5	Approach switch	Korea AUTONICS
6	Light Fiber switch	Korea AUTONICS
7	Reducer	HANGZHOUJIE BRAND
8	Motor	ShangHai
9	Pneumatic elements	TAIWAN AIRTAC

7.Cooling tunnel

Product use

PLJ cooling tunnel machine is a new design of cooling machine which absorbs advanced technique of the similar domestic and foreign equipment. It adopts the treatment of three-stage circulating cooling water and is used for the cooling of drinks which does not contain gas, such as tea drinks, fruit juice, soy sauce, etc. The cooling time depends on users' speed regulation. The machine is fabricated of stainless steel (304) and has an aesthetic appearance, whose system is safe and reliable.

This machine has the following characteristics.

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a. The conveying appliance is reliable, and the speed change system is flexible and convenient.

The conveyor belt used to convey bottles adopts high-strength plastic chain mesh, which has high strength and wears resistance. Main transmission adopts speed-stepless motors which makes it easy to change the conveyor speed.

b. Efficient spray system

On the chain board of this machine there are atomizing nozzles arranged in an organized and uncluttered manner. This machine can spray every parts of the bottles uniformly and make full use of spray water in a large spray area.

c. Product variety and production capacity

	Kind of liquid	Tomato sauce
Production condition	Treatment methods	cooling water
	Inlet temperature	85°C
	Outlet temperature	35°C
Production capacity	PET bottle	3000 bottles per hour

d. Main points of delivery rate

The main transmission of this machine adopts speed-stepless motors. The transmission shaft of the main transmission connects with the reducer directly, so the delivery rate can be controlled by adjusting the speed of the speed-stepless motors of the main motor, then the actual processing time can be controlled.

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Technical parameters

1. Structure

- a. The machine has a water tank which divides into two parts.
- b. Main transmission adopts speed-stepless motors. The conveying is by plastic chain mesh.
- c. Type of cooling: cooling tower
- d. Treatment manner: Use compulsive spray to cool drinks

2. Production capacity

Glass bottle: 3000 Bottles/h

3. Cooling time

Total processing time: 15-20 minutes

4. Suitable bottle types: diameter: $\varnothing 50 - \varnothing 110$, height: $\leq H370\text{mm}$

5. Effective processing area: 3.5m^2

6. Power consumption: 6.5kw

Main motor: 1.5kw

Bottle input and output motor: $2 \times 0.75\text{kw} = 1.5\text{kw}$

7. Starting water consumption: 3T

Operating consumption 30kg/H

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The cooling capacity of cooling tower 30m³/h

Dimension

length × width × height= 5000×1200×(1600-1650)

Work height: H= 1100mm

Weight: 2.5T

Operating conditions

Both the water pressure and supply voltage must be stable in production.

- a. Sterile water need cleaning, and the pressure is 0.3MPa±0.1MPa
- b. Tap water need cleaning and is neutral, and the pressure is 0.3MPa±0.1MPa.
- c. Supply voltage is 380V±10%,and rate is 50Hz

Operation principles and machine structure

a. Operation principles

Cooling tunnel machine use circuit plastic chain board to transmit water to the spray area in the sealed bottle, then it accomplishes the cooling process to make the bottle temperature drop to a certain temperature according to users' control.

The spray area divides into three parts, and the first tank of the water tank(The water tank divides into 2 parts) provides water for the first area. Water temperature can be controlled by users. If the water temperature is higher than the setting temperature, open the cooling duct of the first tank to cool the water in the tank(open the solenoid valve).After spray cooling, the water flows into the first tank for recycling. The spray of the second area -----circulating pump draws the water of the second tank and throw the water into the cooling tower.(Users should

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prepare a big water box whose volume is larger than 3m^3 , and the water of the cooling tower flows into the water box), then the water enters into the cooling pump for spray cooling through delivery pump(This pump should be provided by users). After cooling, the water flows into the second tank of the water box and the water is delivered into the cooling system by the circulating pump, then recycle the water. The spray of the third area-----users provide sterile water spray in order to make the appearance of the cooling bottles leave no water traces after drying. The water flows into the second tank of the water box after cooling.

The machine adopts a water box which divides into 2 parts. When the water level of the first tank is higher, the water flows into the second tank. Vice versa. If the water levels are high on the whole, the water flows out from overflow gate.

b. Structure

This device consists of motor, transmission part, spray system and electrical control part, etc.

a. The machine is made of stainless steel according to requirements. It consists of manhole, control base, water box, etc

b. conveyor device

The drive source of this device is the motor which has a reducer. Circuit plastic mesh is installed on the drive shaft of the bottle input side and the driven side of the bottle output

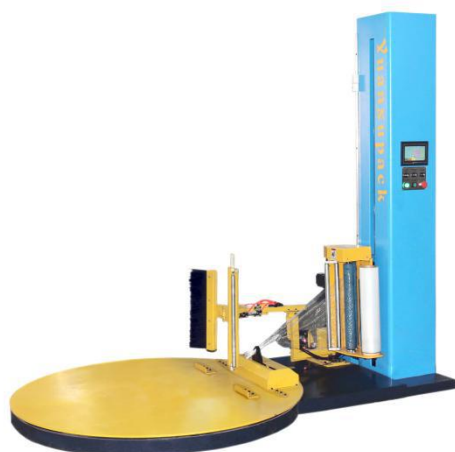
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8.Auto PALLET STRECHT GRAPPING MACHINE YK2000FZ



I. Basic Customer Information (Main Technical Requirements)

1. Packaging specifications: L1250mm *W 1250mm *H 2600mm

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2. Packaging process: except for the replacement of film coil, all automatic operation.

2. YK2000FZ (Incidental Automatic Upper Break and Fusion Membrane System)

Diameter of turntable: 2000mm

Table height: 110 mm

Turntable motor power: 0.75 kw

Lift motor power: 0.37 kw

Pre-pull motor power: 0.23KW

Air pressure: 0.4-0.7MP

Power supply voltage 220 V 3 phase 60 Hz

Weight: 700 kg

Packaging efficiency: 10-25 pieces per hour

Membrane parameters: Membrane width 500 mm, film diameter less than 220 mm, film thickness 20-30 um, core diameter 76mm

Turntable Load: <1500KG

Photoelectric Automatic Height Sensing and Movable Limiting Block Limit Packing Height Arbitrary Selection

Turntable and up-down frequency conversion speed regulation, manual adjustment of the speed of the turntable, can adjust the rising and falling speed of the membrane frame, respectively.

Manual adjustment of film output tension

Pre-stretching film frame, theoretical stretching ratio 1:2.5

Set top circle number 1-9

Set the bottom circle number 1-9

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Pneumatic Automatic Upper and Lower Membrane Mechanism

_Main Performance

Control system

PLC programmable control, winding layers and times can be changed

Automatic Sensing of Cargo Height by Photoelectric Switch

Automatic Control of Touching Process of Upper and Broken Membranes

Turntable drive

Turntable chain drive, slow start, slow stop, automatic reset;

The speed of turntable is 0-12 RPM variable frequency speed regulation.

Thin film system

Open door type diaphragm rack, more convenient to wear diaphragm;

The dynamic frequency conversion pre-stretching mechanism of the diaphragm frame can reach 250% pre-stretching.

The lifting mechanism of the diaphragm frame is driven by double chains, and the walking device is closed and self-lubricated.

The rising and falling speed of the membrane rack are regulated by frequency conversion respectively, and the film feeding speed can be adjusted indefinitely.

The number of top and bottom windings can be adjusted separately.

Film servo system, active film feeding;

III. Working steps

After the rotating disc decelerates, the cylinder is clamped, the splint is erected, and the winding film wraps the splint and the pallet together.

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When the rotating disc stops rotating, the swing arm cylinder moves, and the swing arm cylinder is in place, the magnetic switch sends out a signal, clamps the cylinder action, the splint is erected, the winding film is clamped, and then the film cylinder moves. Through the sponge tube on the rocker arm, the winding film is pressed on the cargo, while the heating wire is electrified, and the winding film is cut off.

The swing arm turns back to its original position, the magnetic switch of the swing arm cylinder sends out a signal, the diaphragm cylinder moves, and the rocker arm returns to its original position.

The new cargo tray is fed into the turntable, the turntable rotates, and after winding 2-3 circles, the splint board and the splint 2 return to their original position at the same time. Release the wrapping film that has been clamped. Repeat the above actions after the pallet packing is completed.

2. Main Components (Selection of Electronic Control System)

PLC (Siemens) (Germany)

Touch Screen (Siemens) (Germany)

Lift Inverter (Siemens) (Germany)

Turntable Inverter (Siemens) (Germany)

Pre-pull Inverter (Siemens) (Germany)

Relay (Omron) (Japan)

SCHNEIDER (Schneider) (France)

SCHNEIDER (Schneider) (France)

Photoelectric Switch (Double Fortune) (Germany)

Proximity switch (Yangming) (Taiwan)

Membrane Pre-tension Motor (CUHK) (China)

Turntable Reducer (CUHK) (China)