



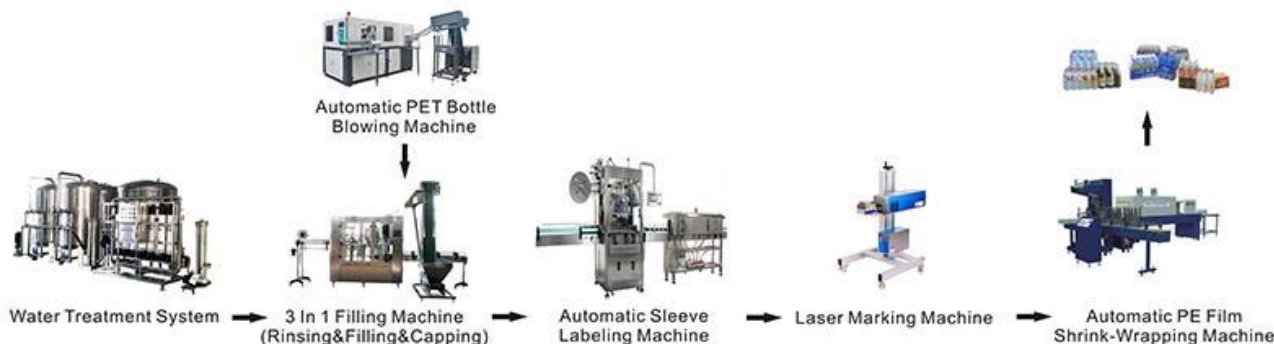
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## Automatic Bottle Water Production Line

(Output: 8000-10000B/H based on 500ml)



## Part II Specification for each items:

### 6000L/H R.O. Water Purification System



#### 1 Design basis and treated water standard:

1.1 Produced water's application: Pure drinking water

1.2 The capacity of produced water: 6000L /H

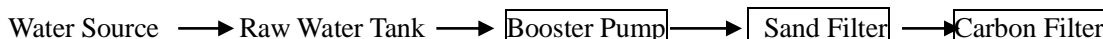
1.3 System Configuration: Pretreatment + One Stage Reverse Osmosis Desalination System.

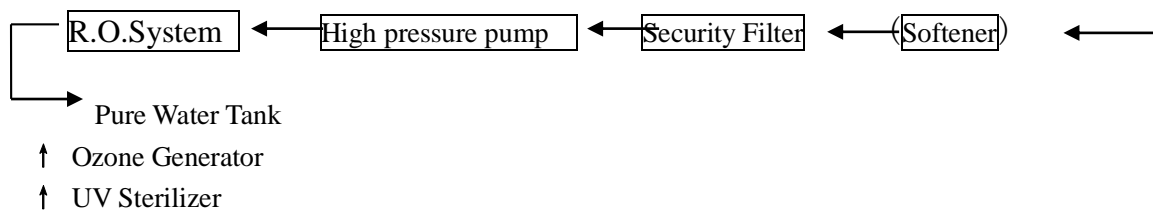
1.4 Designed recovery: 50-65%.

1.5 Rejection rate:  $\geq 97\%$

1.6 Voltage: 3 phases, 380V, 50Hz; Power: 9KW (Can be customized at your country's voltage, please tell us about it when ordering)

#### 2. Process:





### 3. Features of Electric Control:

1) Inlet low pressure protection switch of high-pressure pump:

Linkage with the high-pressure pump, pressure below the set value, high-pressure pump will stop running.

2) The membrane inlet high pressure protection switch:

Linkage with the high-pressure pump, if operated high pressure too high, the membrane will be easy get blocked, even penetrated. When the membrane system operating pressure exceeds the setting value, the high-pressure pump will stop running.

3) The reverse osmosis unit equipped with low pressure automatic flush valve:

Linkage with the high-pressure pump, set by the time relay, when the reverse osmosis unit start to work, the system auto startup, washing the film surface with large-flow, so the sediments on membrane surface washed away in time, to ensure the normal operation of membrane.

4) Raw water tank / pure water tank high and low level control switch

The raw water pump / high pressure pump linkage, the raw water tank at low level, the raw pump automatic shutdown for protection, when pure water tank full, high-pressure pump to stop.

### Main Components List:

Basic Configuration	Item	Description	Remark
Pretreatment part	Feed pump	CNP CDL8-40	
	Sand filter	Φ900×2050mm (filter 1000kg)	SS304
	Active Carbon filter	Φ900×2050mm (filter 275kg)	SS304
	Micron filter	dia 330 x 500mm x 1.5mm (40" X 7 micron filter)	SS304
RO Part	Pressure pump	CNP CDL8-190	
	RO membrane	FILMTEC BW30-365 x 6pcs	
	Membrane vessel	8"x 2m FRP VESSEL 3 SETS	
	Pressure controller	P6E	
Piping and controlling valve	Piping and valves	U-PVC piping & Valves	
	Control system & Indicator	PLC system, Water level control, Pump protecting ,Automatic electric valve control	LS PLC System
Other fittings of machine	Pressure gage	1.0MPa,2.5Mpa. 5pcs in total	
	Conductivity of the table	CM230 X 2sets	
	Main frame	Stainless steel 1set	
	motorized valve	DN40	
	Pipeline flow meter	20GMP 2sets	
Water Tank	Raw water tank and pure water tank(prepare by buyer)		



Ozone System	15G Integrated O3 mixer Iset, DN32 mixing unit Iset and CHL2-40 O3 mixing pump Iset	
UV Sterilizer	FS-55	

## 7. Picture (Only for reference):



**Automatic Bottle Blow Molding Machine Model: HY-6000**



## DESCRIPTION :

HY-6000 is the fastest liner blow molding machine in mainland of China by now. HY-6000 reaches around 4500BPH for 1500ML bottle. Its baking tunnel is separated from the blow station so that time for mold opening is shortened with a result of speedy blowing and high output, damage to machine is lessened so as to keep reliable performance and prolong service life, as well as machine runs more smoothly and steadily.

HY-6000 is controlled by PLC. The whole process from preform feeding to bottle discharging is completed automatically with advantages of labor saving and no pollution. HY-6000 consists of three main parts: preform loading system, Heater channel & blow station.

### MACHINE FEATURES:

1. Machine use of advanced PLC control system , stable in performance, automatic preform feeding .
2. Strong penetrability and good and swift distribution of the heat by letting the bottles rotate by itself and revolute in the rails simultaneously in the infrared preheater
3. High adjustability to enable the preheater to preheat preforms in shapes by adjusting the light tube and the length of the reflecting board in the preheating area, and eternal temperature in the preheater with an automatic thermostatic apparatus.
4. High safeties with security automatic-locking apparatus in each mechanical action, which will make the procedures turn into a state of safety in case of a breakdown in certain procedure.
5. No contamination and low noise with the air cylinder to drive the action instead of the oil pump.
6. Air route design is divide into two parts ,
7. Ideal effect of the chilling with the chilling system
8. Low rejection rate: less than 0.3percent

<b>Container</b>	<b>Max Volume</b>	<b>L</b>	<b>2</b>
	<b>Max Neck Diameter</b>	<b>mm</b>	<b>38</b>
	<b>Max Container Diameter</b>	<b>mm</b>	<b>105</b>
	<b>Max Container Diameter</b>	<b>mm</b>	<b>335</b>
	<b>Cavity</b>		<b>6</b>
	<b>Theoretical Output</b>	<b>bph</b>	<b>5000(*)</b>
<b>Electrical</b>	<b>Total Power</b>	<b>KW</b>	<b>47</b>



	Heating Power	KW	44
	Max Heating Power	KW	60
Air Compressor	Operating Pressure	Mpa	0.7
	Low Pressure Consuming	L/min	1400
	Blowing Pressure	Mpa	3.5
	High Pressure Consuming	L/min	3000-5000(**)
Chiller	Pressure	Mpa	0.3-0.5
	Temperature	°C	10-12
	Flow Rate	L/min	30
Machine	Machine Size	m	4.8x2.3x2.03
	Machine Weight	Kg	4500
(**) Depending on bottle size, shape and weight.			
(*) Depending on bottle size and operation conditions.			

## Main supplier of components

PNEUMATIC PARTS		
NAME	BRAND	ORIGIN
CLAMPING CYLINDER	FESTO	GEMANY
STRETCHING CYLINDER	FESTO	GEMANY
MOVING CYLINDER	FESTO	GEMANY
REVOLVE CYLINDER	SMC	JAPAN
PREFORM FEEDING CYLINDER	FESTO	GEMANY
SOLENOIDVALVE	FESTO	GEMANY
HIGH PRESSURE BLOWING VALVE	PARKER	AMERICAN
AIR THROTTLE VALVE	PARKER	AMERICAN
LOW PRESSURE PIPE	FESTO	GEMANY
AIR PIPE FITTING	SMC	JAPAN
ELECTRICAL PARTS		
PLC	mitsubishi	JAPAN
LOW VOLTAGE APPARATUS	SCHNEIDER	FRANCH
TEMPERATURE MODULE	mitsubishi	JAPAN
VOLTAGE ADJUSTOR MODULE	mitsubishi	JAPAN
PHOTOELECTRIC SWITCH	OMRON	JAPAN
PROXIMITY SWITCH	OMRON	JAPAN
INVERTER	ELTA	FAMOUS BRAND IN CHINA
CONTACTOR	SCHNEIDER	FRANCH
ROTATING MOTOR	TUNGLEE	TAIWAN

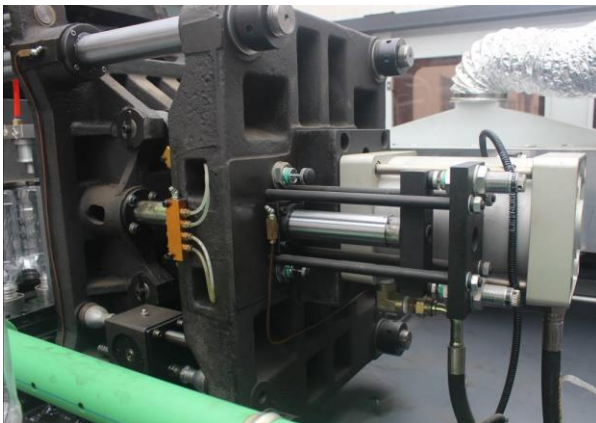
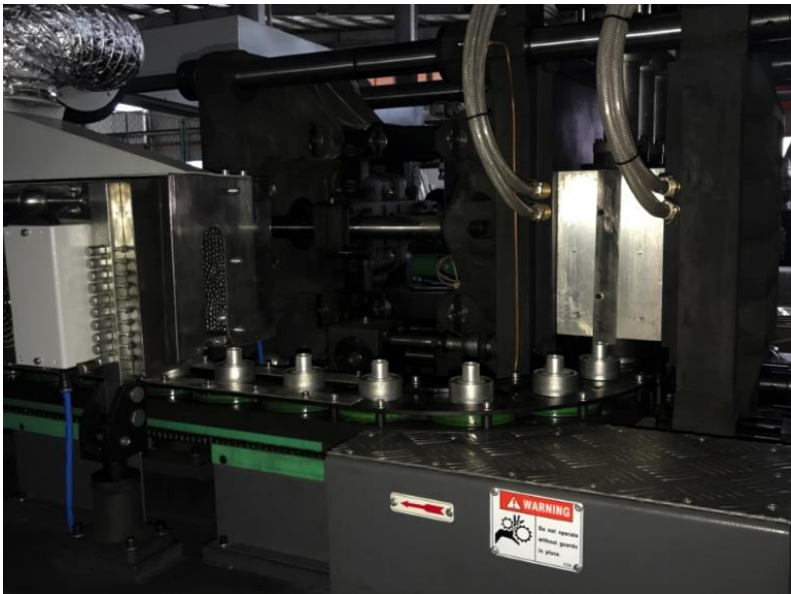


HEATING LAMP

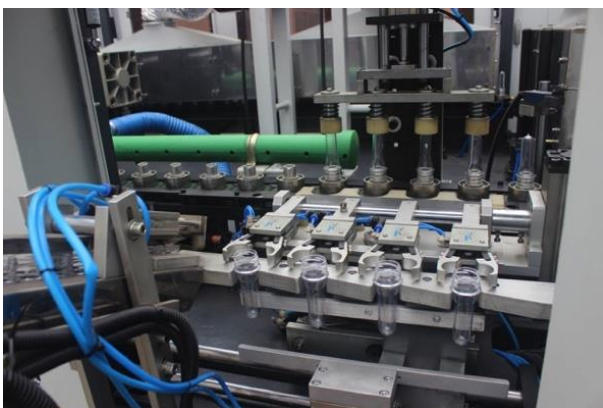
HAICHUANG

FAMOUS BRAND IN CHINA

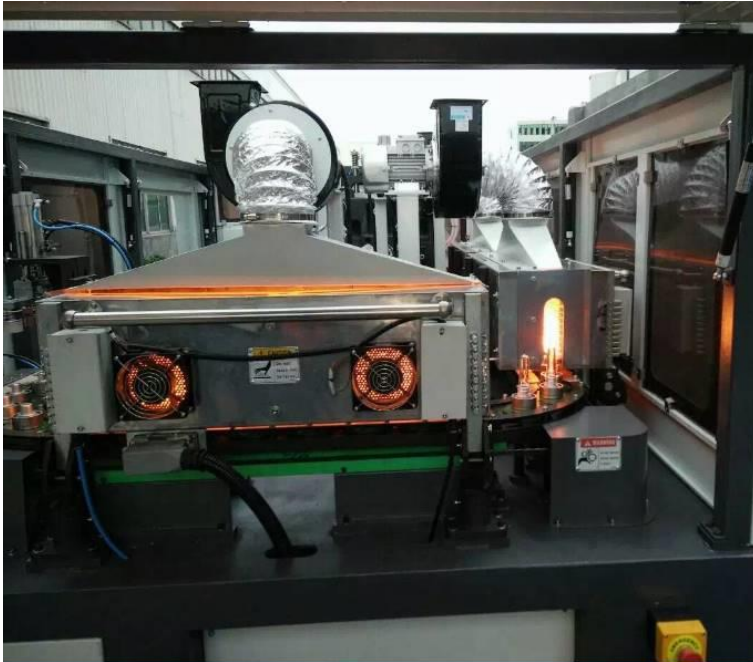
## Blowing part :



## CLAMPLING SYSTEM



## Heating System



## CONFIGURATION



## Equipment List:

	Model	Product name	QTY
HY-4000 (4 cavity)	HY-6000	Main machine	1SET
	HY-6000	Auto-loader machine	1 SET
	4.8m <sup>3</sup> /30Bar	High pressure compressor	1SET
	2.0m <sup>3</sup> /12.5Bar	Low pressure compressor	1SET
	3HP	Water chiller	1 SET
	2.0m <sup>3</sup> /30Bar	Air cold dryer	1 SET
	1.0 m <sup>3</sup> /30 Bar	Air filter	3 SETS
	0.6 m <sup>3</sup> /30Ba	Air tank	1 SET
	6 cavity	Between 300ml-2L Bottle molds	1 SET



	(7075 Aluminum)	
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## Automatic 3 in 1 Bottle Washing, Filling and Capping Machine

Model: CGF24-24-8



### Main Feature:

**CGF24-24-8 PET bottle Washing / filling / capping machine is a three-in-one combination of our advanced technology of atmospheric pressure filling technique, and it is the application of independent research and development, it will be the same with pure water and mineral water advanced bottling models. This machine adopts conveying way for clip bottles' lips, only need to replace very few parts, it can be applied to a variety of bottle type, smooth delivery. Filling method is Atmospheric pressure filling.**

★The main frame adopts structural steel, 304 stainless steel exterior layer, 304 stainless steel frame, adjustable feet.

★Conveying system adopts star wheel, smooth transmission, stainless steel chain, it will be a smaller deformation.

★Number of washing clips is 24, 304 stainless steel chassis Rinse water pipeline, rinse water filtration system.

★Number of filling valve is 24, and parts contacted with product are 304L stainless steel. Inner surface is dealt with polishing. There is stainless steel returning tube, no dead space.

★Number of capping head is 8, screw head using magnetic torque device to facilitate torque adjustment, it can be set the size of the first torque of capping in accordance with the actual production needs.

### Power system

★Main Motor and Gearbox with frequency controller, transmission for sports bodies are gears, run smooth, all-round star bottle components are engineering plastics, with security agencies.

★PLC, transducer, relay, photoelectric switch, sensor switch relay components, touch screen





operation panel, imported pneumatic components.

### Main Technical Parameters:

Capacity: 8000-10000bottles/hour (500ml)
Bottle DiameterΦ50~95mm
Bottle height: 150~320mm
Cap specification: Standard plastic rib caps
Bottle washing pressure: 0.18~0.25Mpa
Water consumption of bottle washing: 1200kg/h (can be adjusted)
Spraying working position: 10
Gas source pressure : 0.4Mpa
Air consumption: 0.5m <sup>3</sup> /min
Total Power: 5.65KW
Weight: 3500Kg
Overall Size: 2800×2200 ×2200 (mm)

### Configuration List

No.	Name	Original
1	Touch screen	Japan Mitsubishi
2	PLC	Japan Mitsubishi
3	Transducer	Japan Mitsubishi
4	Module	Japan Mitsubishi
5	AC contactor	Schneider
6	Thermal relay	Schneider
7	Circuit breaker	Schneider
8	Circuit breaker	Schneider
9	Emergency stop switch	Schneider
10	Communication cable	Domestic
11	Converter cable	Domestic
12	Connector bar	Schneider
13	Connector bar	Schneider
14	Photoelectric switch	AUTONICS



15	Photoelectric switch	AUTONICS
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### Main components of this machine

3 in 1 washing filling and capping machine	1
Cap dosing system	1
Air Conveying System	3 meters
Belt conveying system	4 meters



## LT-150B Automatic Sleeve Labeling Machine



Sequence	Product Name	Amount	Unit
1	LT-150B Type Trapping Label Machine	1	set
2	LT-2000 Steam Heating Shrinking Oven	1	set
3	LT-18KW Steam Generator	1	set
4	Conveyor	7	meter

### 1. Features:

This serial of equipments serves in full auto smart packaging line integrating the functions of delivering bottles, classifying bottles, label sleeving and label shrinking. High speed, precise positioning, saving labor and perfect package are the design tenet of this serial of equipments.

1) Unique cutter head around China, suitable to  $\varnothing 30\text{mm}$ ~ $\varnothing 130\text{mm}$  containers, the cutter head is completely free of replacement and adjustment, unique touch man-machine interface, namely automatic positioning after searching out origin which is safe and convenient, and is leading the like products.

2) Label feeding part: dynamic-force synchronous tension controls label feeding, feeding capability: 90m/min., volume label feeding tray:  $\varnothing 500\text{mm}$ , applicable internal diameter of paper tube: 4', 8', 10', stable tension of label feeding part ensures the precise of the length of label, stable and fast feeding, and the precise of delivering label and casting label.

3) Special hot-wind shrinking oven: High-pressure blower, special hot wind circulating flue helps save energy. The shrinking effect is unmatched, flatten shrinking effect over curve bottles, traditional shrinking ovens are unsatisfactory in shrinking over curve bottles.

### 2. Technical Parameters:

#### Technical Parameters:

##### 1. LT-150B Technical Parameters:

Input Power	3.0KW
Input Voltage	Single phase/220V AC
Production Efficiency	150 bottles/min
Size of Host Machine	2100L×850W×2000H



Applicable Diameter of Bottle Body	35mm~95mm
Applicable Length of Label	30mm~250mm
Applicable Thickness of Label	0.03mm~0.13mm



## 2. LT-2000 Steam Heating Shrinking Oven

Input Power Supply of Blower	1, 220VAC 0.75KW
Input Power Supply of Steam Generator	380V/50HZ
Working Pressure	≤0.1Mpa
Weight	230Kg
Steam Consumption	10-20Kg/h
Size of Oven Body	1800L×400W×450H
Transporting Speed	0-35m/min



## 3. LT-18KW Steam Generator

Input power of heater: 18KW

Voltage: 380V

Air pressure :0.4~0.7Mpa

Steam volume :3.8~22.8kg/h

Water Container Volume :28L

Dimension:630\*560\*1360(mm/mm/mm)



## 4. Conveyor



Material: Engineering Plastic-Steel

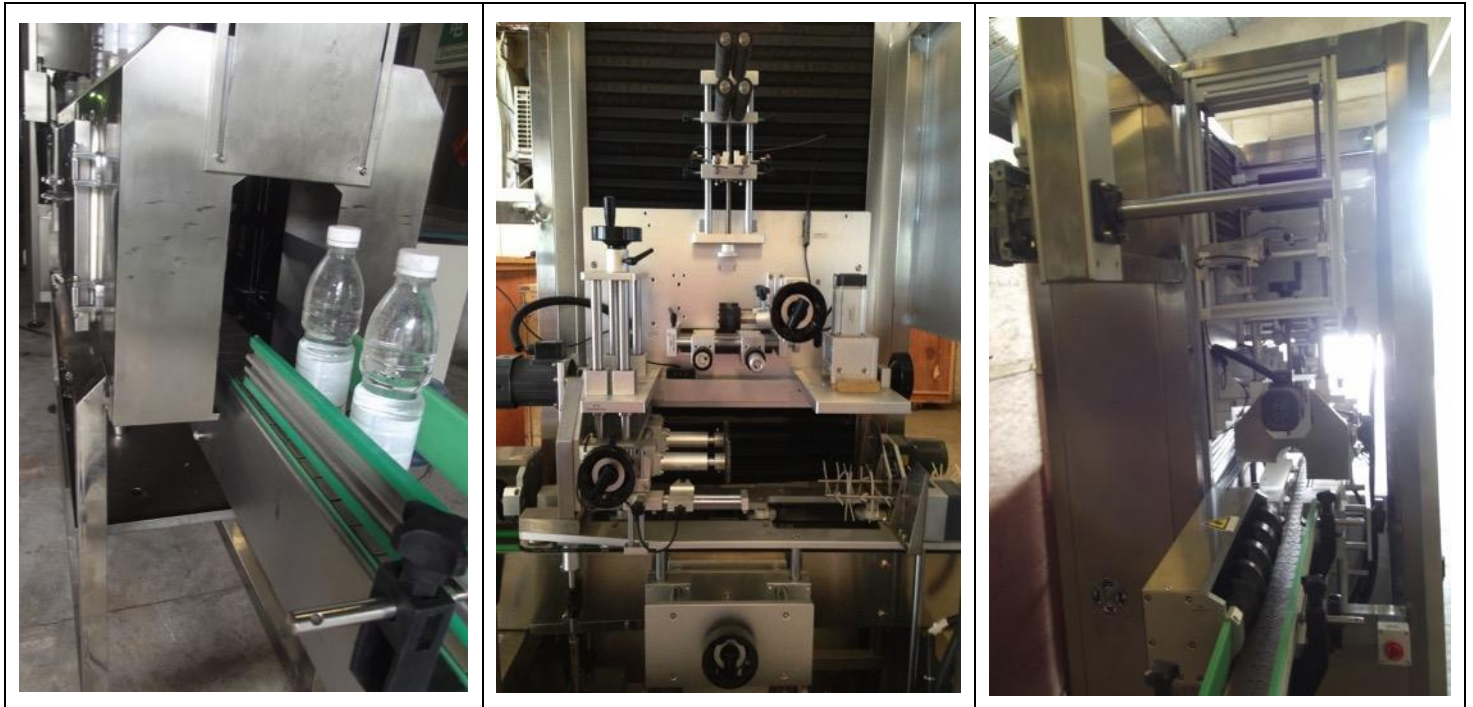
## Configuration List

Item	Model	Qty(set)	Brand	Origin
PLC	FPX-C60T	1	Panasonic	Japan
Tough Screen	MT6070IH	1	Willen	Taiwan
High-speed fiber-optic sensors	FX-301	1	SUNX	Japan
Photoelectric sensor	CX-421	1	SUNX	Japan
Photoelectric sensor	CX-442	1	SUNX	Japan
Photoelectric sensor	PM-L44	2	SUNX	Japan
Label dosing actuating motor	MHMD082P1U(400W)	1	Panasonic	Japan
Label dosing Servo Driver	MCDDT3520053 (400W)	1	Panasonic	Japan
Cutter actuating motor	MHMD042P1U(400W)	1	Panasonic	Japan
Cutter Servo Driver	MBDDT2210003 (400W)	1	Panasonic	Japan
Bottle Separating AC motor	5IK90GN-YF-5GN7.5K	1	TWT	Taiwan
Bottle Separating transducer	BFV00022DK	1	Panasonic	Japan
Bottle Conveying AC motor	5IK90GN-YFT-5GN15K	1	TWT	Taiwan
Bottle Conveying transducer	BFV00022DK	1	Panasonic	Japan
Gear motor	RV50-20-0.75KW	1	TWT	Taiwan
Conveying transducer	BFV00072GK	1	Panasonic	Japan
Label dosing motor	RV50-15K-180	1	TWT	Taiwan



Label dosing transducer	BFV00022DK	1	Panasonic	Japan
Lifting motor	5IK90GU-CF-5GU30KB	1	TWT	Taiwan
Labeling dosing motor 2	5IK120A-CFT	1	TWT	Taiwan
Brushing motor	4IK25GN-CF-4GN3K	2	TWT	Taiwan
Draught fan motor	RV50-0.75KW-20A	1	TWT	Taiwan
Switch	XB2-BD21	1	Schneider	France
Switch power source	S-50-24	1	MW	Taiwan
AC Connector	LC1-D1810M5C	2	Schneider	France
Disconnecter	D20 2P	1	Schneider	France
Extractor fan	SF11025AT	2	Luann	Shanghai
Three color indicator	LTA-205WJ	1	Shanghai	Shanghai
Socket	10A-220V	1	Shanghai	Shanghai
Single Relay	MY2NJ24VDC	5	Omron	Japan

Pictures:





## V101i Laser Printer

### 1. Machine Introduction

V101i CO2 laser marking system is the newest product from Guangzhou Sunine laser Co.Ltd. It's specially designed for the industrial product packing. It is the best succedaneum of the ink-jet printer system. The product own the following advantages:

- \* Small in size with the integrated touch screen
- \* High speed flying marking system
- \* Raster font, vector font for choosing
- \* No limiting characters in the working area
- \* Economical and low maintenance cost

Using import advanced foreign technical and parts to keep the machine's competitiveness. Such as generating laser and the lens, which can meet almost marking need. The machine is small size so it takes small space. Widely used in food& beverage ,medicine cosmetics industry and garment industry.



## 2. Technical Parameter

This machine is made of generator laser, lens, photoelectric sensor, main controller board and power.

V101i can marking under flying status, and can count it when working. Raster font, vector font for choosing. Can non-stopping working for 24 hours.

### ◆SUNINELASER-D101Main Parameter

Model		CO2 V101i
Item		
<b>Machine general machine</b>	Machine material	Aluminum structures
	Generator laser	Enclosed metal for co2 laser generator
	Output power	≥ 10W
	Laser wave length	10.6um
	Lens	High precision double d scanning system
	Marking speed	≤ 7000mm/s
	Main control system	Highly integrated motherboard, embedded 7 inch screen
	Operating system	WIN CE
<b>Laser</b>	Cooling system	wind
	Focus zoom lens	focal length 150mm
	Marking line type	Raster font, vector font for choosing
	Min.line width	0.03mm
	Repeatability Accuracy	0.01mm





<b>marking parameter</b>	Working area	90mm×90mm or other
	Positioning	Red light positioning and focusing
	Lines of marking	No limited in working area
	Speed	0~100m/min (according to the material)
<b>Supporting language</b>	Fonts	Chinese and English, Numbers, such as traditional Chinese standard repertoire
	File	BMP/DXF/HPGL/JPEG/PLT
	Code	CODE39、CODE128、CODE126、QR
<b>Other</b>	Power	220V
	Power Consumption	600W
	Net weight	17kg
	Size	740mmX160mmX180mm
<b>Working environment</b>		The external temperature 0 °C - 45 °C; Humidity of 95% or less; The condensation; No vibration

**Standards:**

GB 7247-87	Classification of laser radiation safety of the product, equipment needs and user guide
GB10320-88	The electrical safety of laser equipment and facilities
ISO 9000-3	International standard software
GB/T12123-89	Designing procedure for selling packages
IEC 536	The classification of electrical and electronic equipment protection against electric shock

**Main Configuration Parts list**

No.	Second system name	Parts name	Type	QUA./pc	Original Place
1	Laser marking head	lens	1064-3	1	US
		High speed scanning lens		1	Germany
		lens	NJ-110	1	US
2	Generator laser	Generator laser	10W	1	Sunine



3	Red light positioning system			1	
4	Computer and software control system	7 inch touch screen		1	
		Marking soft system			
5	Power	Power switch	S600-48 W	1	Taiwan
6	Holder	X, Y holder		1	Sunine
7	optoelectronic switch	Photoelectric sensor		1	US
8	Turning head			1	Sunine (optional)
9	Handholder controller			1	Sunine (optional)
10	Clearing machine			1	Sunine (optional)

## Automatic Shrink Wrapping Packing Machine

### Technical parameter:

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

### Facility basic configuration:

- Thinget: 5.7 inch touch screen, PLC controlling system
- Taiwan AIRTAC pneumatic component 1set
- Taiwan Telta frequency converter 3 set
- stainless steel wing heating tube 12 piece
- China-America cooperation Teflon convey belt.
- Shanghai Hemei electric-motor and Zhejiang Taili worm speed-regulation machine.
- South-Korea Autonics photoelectric switch, proximity.
- thermo sealing knife luminous-mould heating board, even temperature, long life, our company special production.
- Whole machine plastic-sprayed, machine rack adopt to high-quality carbon steel, main part adopt to stainless steel.
- Bottle convey machine length: 2600mm



- Carton and wrap page film pack separately.

## Product description:

- frequency converter speed adjust、two segment convey device.
- Bottle pushing, thermo sealing and cutting whole movement adopt to pneumatic fracture.
- Proximity switch control film length.
- Touch screen, PLC system greatly increase facility movement reliability.
- double-wind recycle fan machine, ensure shrinkage tunnel inside even temperature.
- super big wind-volume cooling system, ensure quickly get into shape .
- anti-high temperature teflon convey belt, convey steadily, high-strength anti-abrasion.
- frequency limitless speed adjust convey belt frame.
- convey belt height can make according client requirement, adjust range:  $\pm 50$ mm
- 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.

## Technical condition and requirement:

### 1、 package type:

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

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

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

### 2、 package speed: 8—15bag / min

### 3、 meet with pre-treatment filling speed of filling machine.

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

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

### 4、 package material: PE thermo shrinkage film width (200—600mm) , thickness (0.08—0.12mm)

## Solution:

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



efficiency,

## Production procedure:

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

## Criterion collocation function: (three part)

- 1、 WD-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、 WD-150A automatic film wrappage fracture, cam complete wrappage auto film covering and sealing, cutting function.
- 3、 WD-150A auto thermo shrinkage cooling fracture, can auto contraction and cooling function after film covering.





### Main component detail list

no	Name	specification	number	brand
1	board production component			
2	Plant metal component			
3	pneumatic component		1	Taiwan Airtec
4	Electric controlling component and accessory			
	Photoelectric switch		4	South Korea Autonics
	Proximity switch		2	South Korea Autonics
	PLC		1	Thinget
	Touch screen		1	Thinget
	Frequency converter		3	Taiwan Telta
	AC contactor		3	France Schneider
	Mid-relay		8	France Schneider