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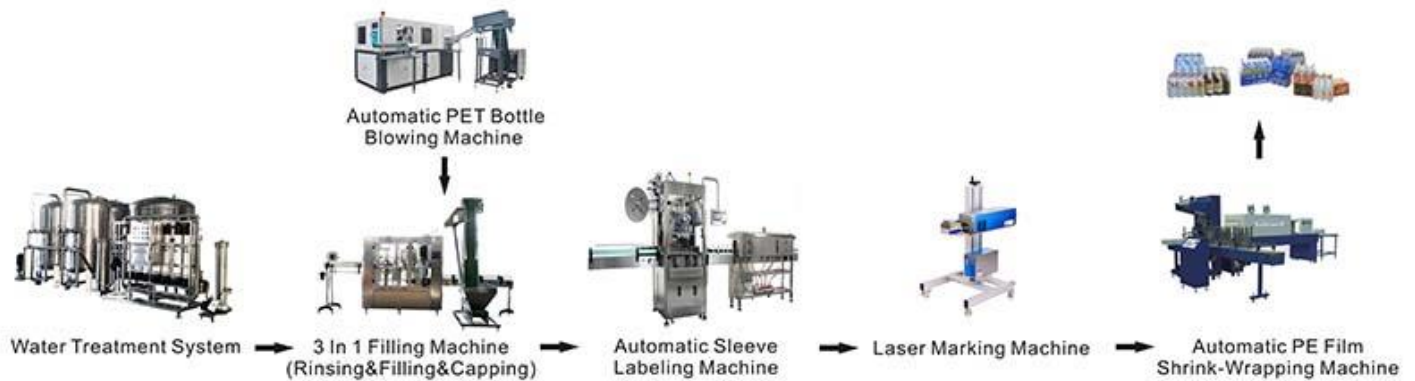
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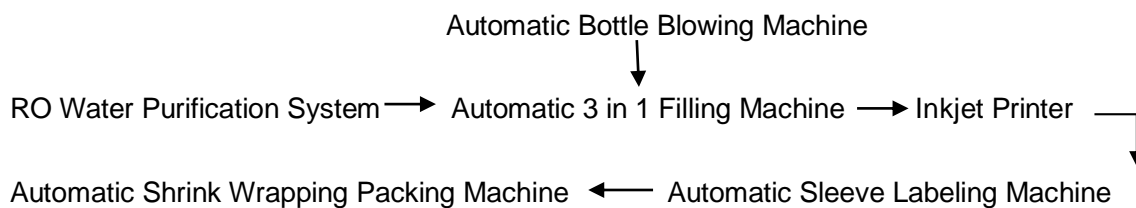
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3000-4000BPH Full Automatic Bottled Water Production Line



Specification for Each Item

Production Process:



Part One: RO Water Purification System: RO-LN (3000L/H)





1. Design Basis

1.1 Produced water's application: Bottle drinking water

1.2 The capacity of produced water: 3000L /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: 5.2 KW (Can be customized at your country's voltage, please tell us about it when ordering)

2. Working Process:

Water Source → Booster Pump → Quartz Sand Filter → Activated Carbon Filter → Precise Filter → High Pressure Pump → RO Membrane → Pure Water → Filling Machine

↑ Ozone Generator

3. Main Components Of The System

Basic Configuration	Item	Description
Pretreatment part	Raw water pump	CNP CDL4-50
	Sand filter	Φ600×1625 (filter 500kg) SUS304
	Active Carbon filter	Φ600×1625 (filter 150kg) SUS304
	Micron filter	30"×5 micron filter
RO Part	Pressure pump	CNP CDL4-220
	RO membrane	USA DOW FILM BW30-365 x 3sets
	Membrane vessel	8040*1M 3sets FRP
	Pressure Controller	P6E
Piping and controlling valve	Piping and valves	U-PVC piping & Valves
	Control system & Indicator	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	CCT3320 X 2sets
	Main frame	Stainless steel 1set
	Solenoid valve	DN20
	Pipeline flow meter	20GPM 2sets
Ozone system	OZ-10G	Integrated O3 mixer, Mixing pump CHL2-40, 6'organic glass ejector O3 mixing unit

4. Pictures of the water treatment system



Pre-treatment tanks: Feed pump + Quartz Sand Filter + Active Carbon Filter + Micron filter + RO filter + high pressure pump + Electric box/control panel + Pure water tank

Part Two: I Automatic Bottle Blow Moulding Machine (3 Cavities)

Model: HY-3000





HY-3000 is the fastest liner blow molding machine in mainland of China by now. HY-4000 reaches around 3000BPH for 350ML bottle. Its baking tunnel is separated from the blow station so that time for mold opening is shortened with a result of speedy blowing and high output, damage to machine is lessened so as to keep reliable performance and prolong service life, as well as machine runs more smoothly and steadily.

HY-4000 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-3000 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

Container	Max Volume	L	2
	Max Neck Diameter	mm	38
	Max Container Diameter	mm	105
	Max Container Height	mm	335
	Cavity		3
	Theoretical Output	bph	3000(*)
Electrical	Clamping force	KN	300
	Heating Power	Kw	32
	Max Heating Power	Kw	45
Air Compressor	Operating Pressure	Mpa	0.7
	Low Pressure Consuming	L/min	1400
	Blowing Pressure	Mpa	3.0
	High Pressure Consuming	L/min	2400-3600(**)
Chiller	Pressure	Mpa	0.3-0.5
	Temperature	°C	10-12
	Flow Rate	L/min	30
Machine	Machine Size	m	3.12x1.85x2.0 3
	Machine Weight	Kg	3500

(**) Depending on bottle size, shape and weight.

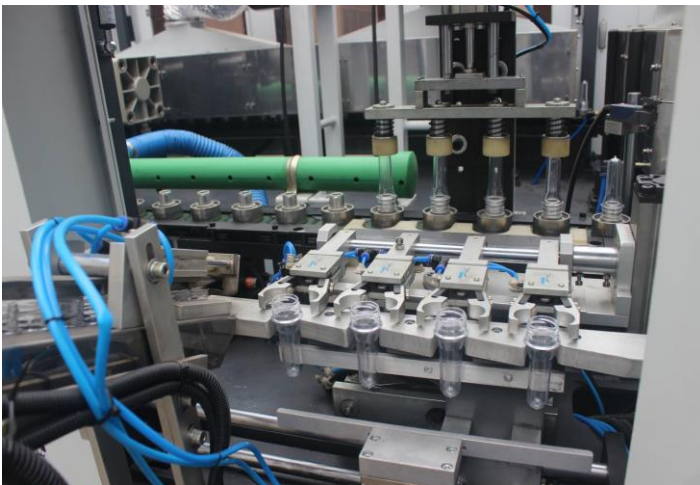
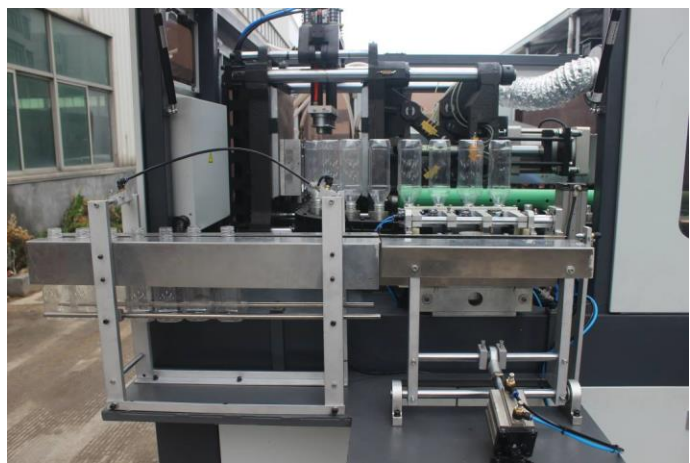
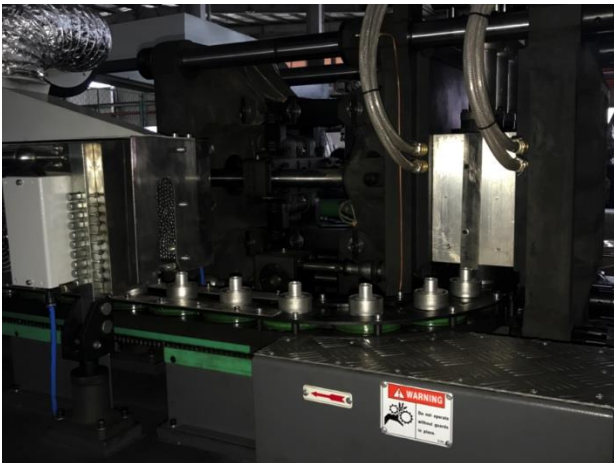
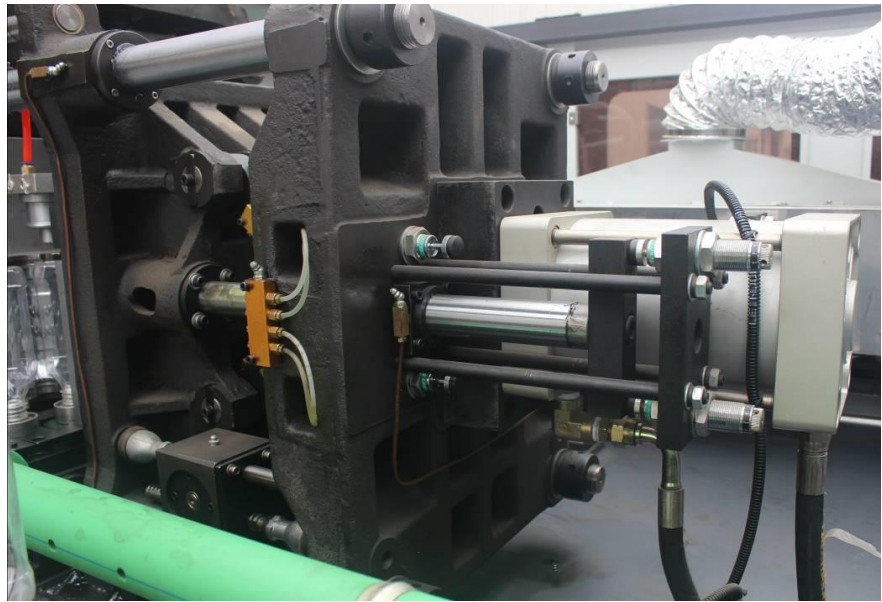
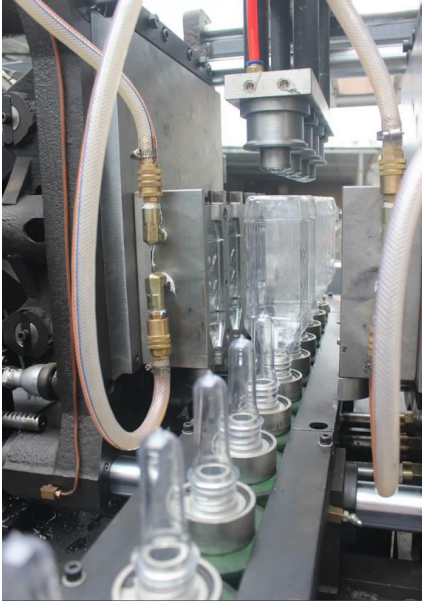


(*) Depending on bottle size and operation conditions.

Main supplier of components

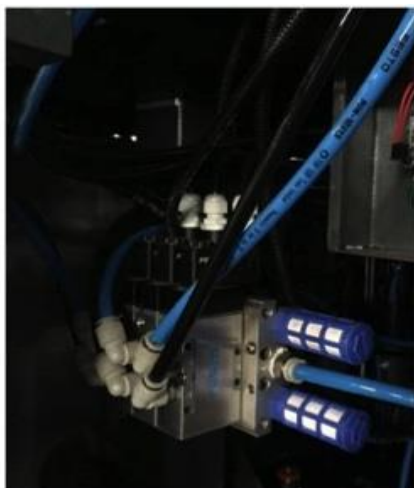
PNEUMATIC PARTS		
NAME	BRAND	ORIGIN
CLAMPING CYLINDER	FESTO	GEMANY
STRETCHING CYLINDER	FESTO	GEMANY
MOVING CYLINDER	FESTO	GEMANY
REVOLVE CYLINDER	SMC	JAPAN
PREFORM FEEDING CYLINDER	FESTO	GEMANY
SOLENOID VALVE	FESTO	GEMANY
HIGH PRESSURE BLOWING VALVE	PARKER	AMERICAN
AIR THROTTLE VALVE	PARKER	AMERICAN
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 :



Clamping system

Heating System



CONFIGURATION

Equipment List:

HY-3000 (3 cavity)	Model	Product name	QTY
	HY-3000	Main machine	1SET
	HY-3000	Auto-loader machine	1 SET
	2.4m ³ /30Bar	High pressure compressor	1SET
	2.0m ³ /10Bar	Low pressure compressor	1SET
	3HP	Water chiller	1 SET
	2.0m ³ /30Bar	Air cold dryer	1 SET
	1.0 m ³ /30 Bar	Air filter	3 SETS
	0.6 m ³ /30Ba	Air tank	1 SET
	3 cavity Mould	Between 300ml – 1.5L (Aluminum)	1 SET



Part Three: 3-In-1 Bottle Washing, Filling And Capping Machine

Model: CGF16-12-6



CGF16-12-6 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, round steel adjustable feet.

★Conveying system adopts star wheel, smooth transmission,

★Number of washing clips is 16, 304 stainless steel chassis wash pipes are heat-resistant.

★Number of filling valve is 12, 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 6, 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.



★Imported PLC, transducer, relay, photoelectric switch, sensor switch relay components, touch screen operation panel, pneumatic components imported.

Technical Parameter

Production capacity	3000-4000 b/h (500ml)
Suitable bottle sizes	300ml-1500ml
Pressure of air source	0.4~0.6Mpa
Used air	0.3 m ³ 3/min
Water pressure of washing bottles	0.2-0.25Mpa
Used water of washing bottles	0.5 T/h (Max. it can be adjusted)
Filling mode	Atmospheric pressure filling
Total capacity of motor	4.5Kw
Rating pressure	380V50Hz
Weight	2000kg
Overall dimension (mm)	2150*1550*2000
The machine includes: 2M air conveying system in front, 2M conveying system for bottles out in back, cap elevator (new type belt loading system).	

CGF16-12-6 Electric appliances adopted list:

No.	Name	Type	Producing area
1	Touch screen	MT6070IH2	Taiwan Weinview
2	PLC	FX1S-20MR	Japan Mitsubishi
3	Transducer	FR-D740E-2.2K	Japan Mitsubishi
4	Module	FX1N-485-BD	Japan Mitsubishi
5	AC contactor	CJX2-0910	DELIXI
6	Thermal relay	JRSD-25	DELIXI



7	Circuit breaker	DZ47-3P-D 20A	DELIXI
8	Circuit breaker	DZ47-1P -C6A	DELIXI
9	Communication cable	FX-50DU-CAB0-5M	Domestic
10	Converter cable	RS-485	Domestic
11	Photoelectric switch	BEN5M-MFR	AUTONICS
12	Electric appliance accessory	GB	Domestic

Pictures of the water filling machine



Washing units



Filling nozzles



Capping heads



Filling machine production line

Part Four: Automatic Sleeve Labeling Machine



The machine is consists of three parts: Main machine, Steam heating shrinking oven and steam generator.

LT-150B Automatic Sleeve Labeling Machine

No.	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:

1) LT-150B Technical Parameters:

Input Power	3.0KW
Input Voltage	3,380/220VAC
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
Applicable Internal Diameter of Paper Tube	5"~10"Free adjustment



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:3KW/18KW

Voltage :220V/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



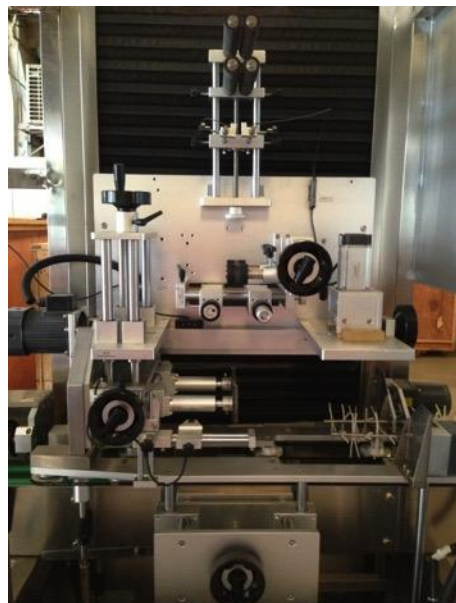
Material: Engineering Plastic-Steel

3. 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

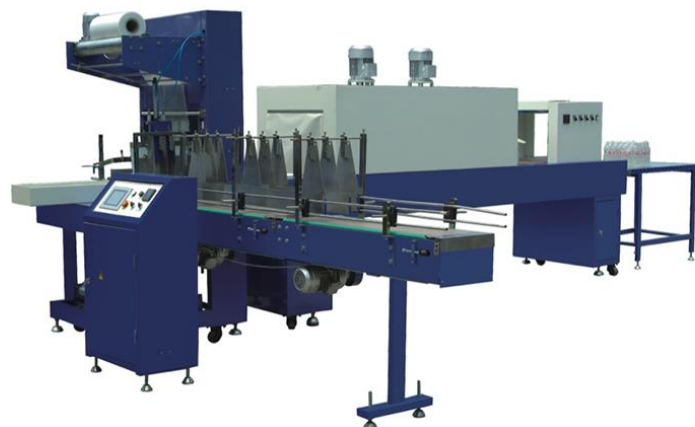


Label dosing actuating motor	MHMD082P1U(400W)	1	Panasonic	Japan
Label dosing Servo Driver	MCDDT3520053 (400W)	1	Panasonic	Japan
Cutter actuating motor	MHMD042P1U(400W)	1	Panasonic	Japan
Cutter Servo Driver	MBDDT2210003 (400W)	1	Panasonic	Japan
Bottle Separating AC motor	5IK90GN-YF-5GN7.5K	1	TWT	Taiwan
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





Part Five: 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:±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.

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, can 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 Autoni

	Proximity switch		2	South Korea Autoni
	PLC		1	Thinget
	Touch screen		1	Thinget
	Frequency converter		3	Taiwan Telta
	AC contactor		3	France Schneider
	Mid-relay		8	France Schneider

Part Six: Small Charter Ink Jet Printer (Model: WDD 43S plus)

Advanced performance

- ❖ Unique ink viscosity and liquid level detection technique guarantees the superior printing of high clarity, but also allows for the higher suitability to anti-mobility ink and yellow ink than like inkjet printers.
- ❖ The dissectible nozzle completely overcomes nozzle clogging that has constantly existed in the industry, thus significantly reducing the use cost of users.
- ❖ Magnetically controlled non-contact high voltage switch successfully prevents the machine malfunction caused by the poor contact after a long time of running.
- ❖ Specially upgraded double electric eye triggered printing, variable database information transmission, round-trip jet printing and up 50000 times repeat print technological function, enable the machine meet more application demands.
- ❖ Transit and switch off of high voltage controlled by particular software completely avoid the hardware malfunction caused by all the switch design.
- ❖ The circuit system and ink system is separated to avoid the accidental damage to the printer in maintenance and use.
- ❖ Drawer type ink system makes the maintenance more convenient.
- ❖ It is easier to judge and find the machine fault and prevent unnecessary maintenance expenses by directly controlling the close/open of any valves and pumps in the ink system separately via the menu.




Line speed capability

- ❖ Max number of lines of text up to 4
- ❖ Max line speed up to 210 m/min (Based upon single line, 10 character per inch)
- ❖ **Font matrix configuration**
- ❖ Single-line: 5x5, 5x7, 7x9, 9x12, 11x16, 17x24
- ❖ Twin-line: 5x5, 5x7, 7x9, 9x12, 11x16
- ❖ Tri-line: 5x5, 5x7, 7x9
- ❖ Quad-line: 5x5, 5x7
- ❖ **Nominal character height**
- ❖ Selectable from 2mm to 18mm depending on font
- ❖ **Throw distance**
- ❖ Optimal: 10mm



❖ Range: 5mm-15mm

WDD 43S plus Standard printing performance

Font	Printing Sample
5*5 single line	1 234567 5X5
5*7 single line	1234567 5X7
7*9 single line	1234567 7X9
11*16 single line	1234 11X16
17*24 single line	17X24
5*7 double line	1234567 1234567 5X7
7*9 double line	1234567 1234567 7X9
11*16 double line	1234 1234 11X16
5*7 triplex line	1234567 1234567 1234567 5X7
Word and pattern	 品質保証

Detail Pictures of the machine:

