



### Zhangjiagang Winmark Machinery Co., Ltd

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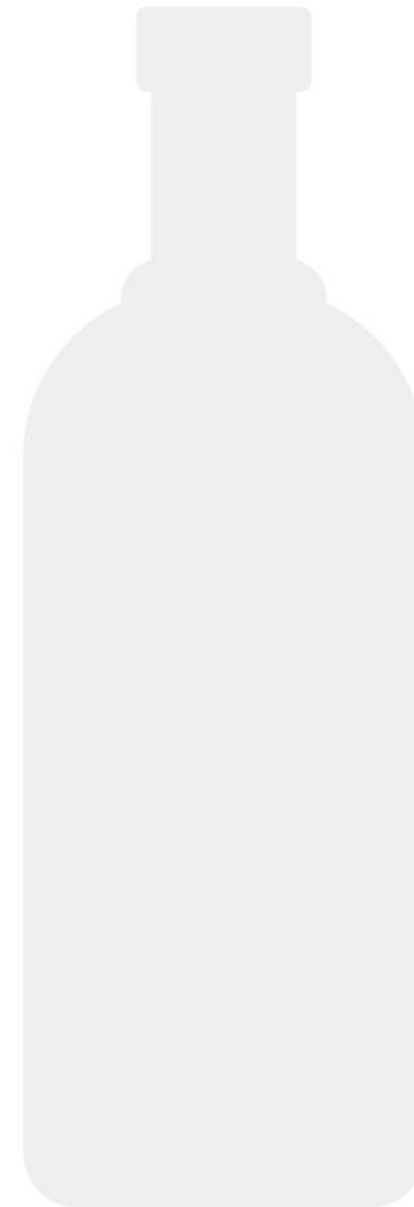
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*Professional Mechanical Engineering Company*

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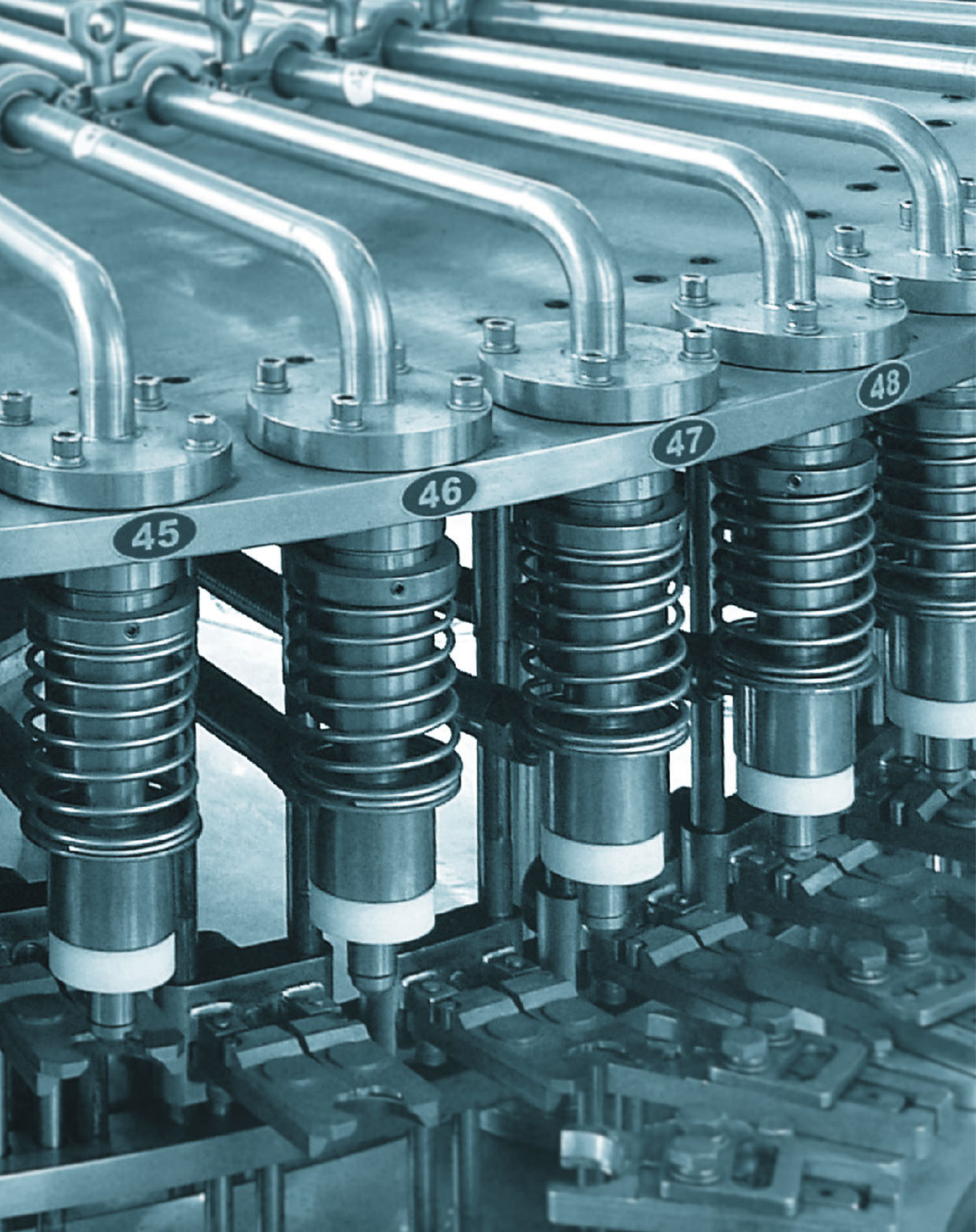


**Zhangjiagang Winmark Machinery Co., Ltd**

**WINMARK**

*Provides Total Solutions of  
Liquid Packaging for You*





Customer's need and satisfaction is what we are constantly creating and pursuing.

Zhangjiagang Winmark Machinery Co., Ltd as an enterprise that specializes in manufacture of drink machines, has 15 years' experience in design and many special techniques. Our products sell well in every province and region in China and have been exported to more than 30 countries and regions in the world, such as America, England, France, Japan, Malaysia and Russia, so that we have large international market and yearly increase value of exports. Our company has integrated advanced manufacture technology and rich experience for the whole-factory design and provides sound and swift service in project operation and latter implementation.

Technology is the resource of innovation, and innovation is the drive of development. Our operation concept is "systemization, specialization, economies of scale, standardization, internationalization". Depending on the sensitive touch to market and generous operative spirit, we provide technical guarantee and all-round supporting for you to produce perfect product.

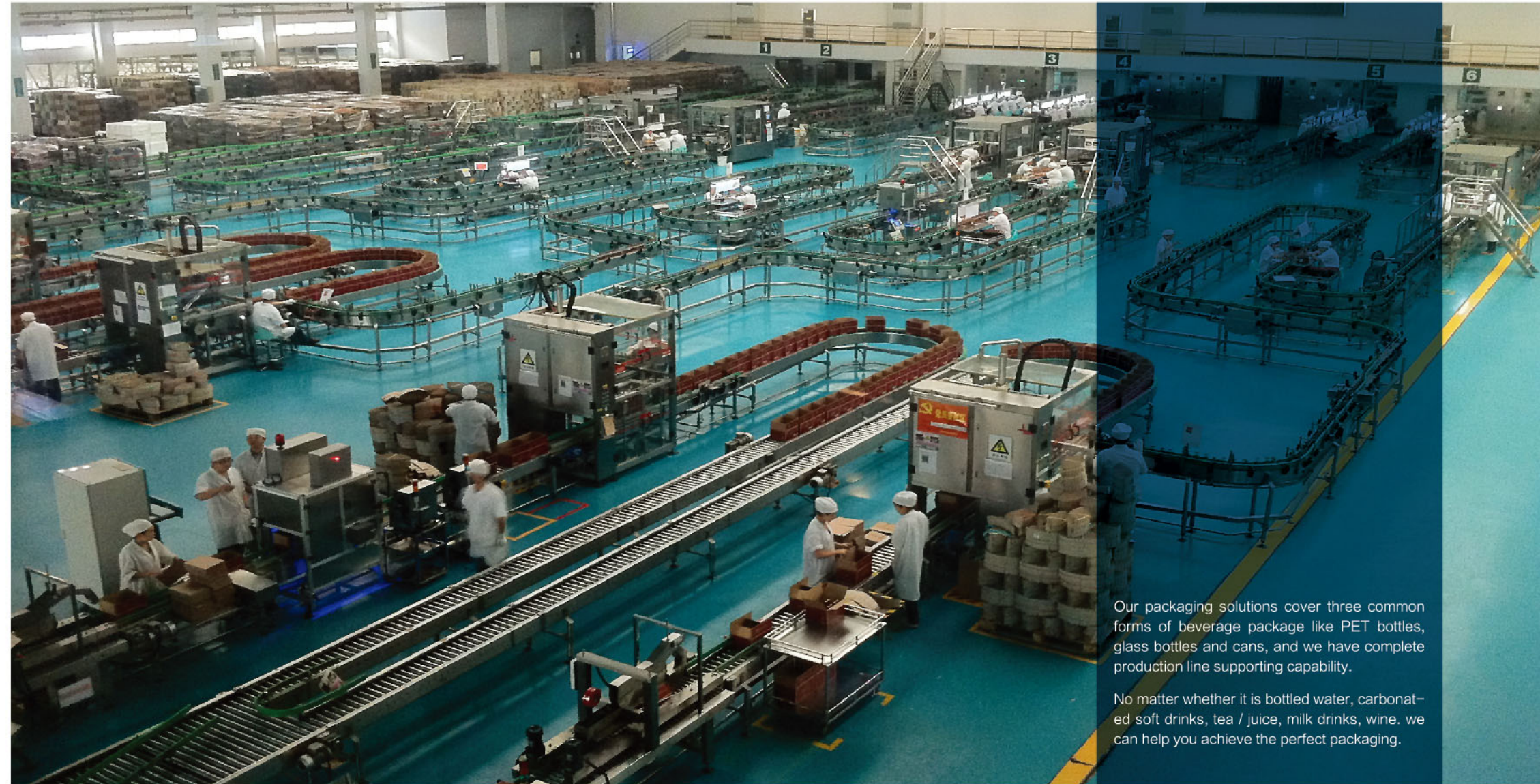
Our company is located in Jinfeng Economic Development Zone, Zhangjiagang City, which is in the Yangtze River delta. It is east to Shanghai, one of the international metropolises, and west to Nanjing, the ancient capital of China. The water and land transportations here are very convenient.

We sincerely welcome friends from all over the world to visit our company, to negotiate and cooperate with us. We are looking forward to establishing good relationship with you and make progress together!

## Whole Plant Design

As a beverage equipment supplier, except the quality, performance and price, we focus more on the "delivery".

WINMARK is committed to be a strategic partner of the beverage manufacturers. We'd like to help you build leading technology, excellent performance and most efficient production line with our professional equipment solutions.



Our packaging solutions cover three common forms of beverage package like PET bottles, glass bottles and cans, and we have complete production line supporting capability.

No matter whether it is bottled water, carbonated soft drinks, tea / juice, milk drinks, wine, we can help you achieve the perfect packaging.

Zhangjiagang Winmark Machinery Co., Ltd

### Product solution

We will give you advice according to your product features and market position; we will provide professional evaluation for your product packaging forms, production capacity and investment plan.

### Technical flowchart and equipment selection

We will help you choose the best technical flowchart, assess the risks and benefits, provide the best single equipment and auxiliary equipment selection, seek the optimum match of the whole line equipment, and get the best return investment rate.

### Engineering design and installation

Whole plant engineering design concept, accumulated engineering experience; excellent engineering design team, professional, efficient, and long tested installation team.

### Training and after-sale service

Through professional training, help your equipment staff upgrade their skills, to ensure the proper operation and maintenance. Adequate supply of spare parts, and rapid response after-sales service.

## CGF Series Water Filling Machine

washing filling capping 3-In-1



### Product Recommendation

The machine is mainly used for washing, filling sealing Non-Aerated carbon dioxide drink such as mineral water, pure water, non-gas wine drink and so on, The machine design is shorten the time for the drink material contact with outside, Increase the sanitation condition throughout economy benefit.

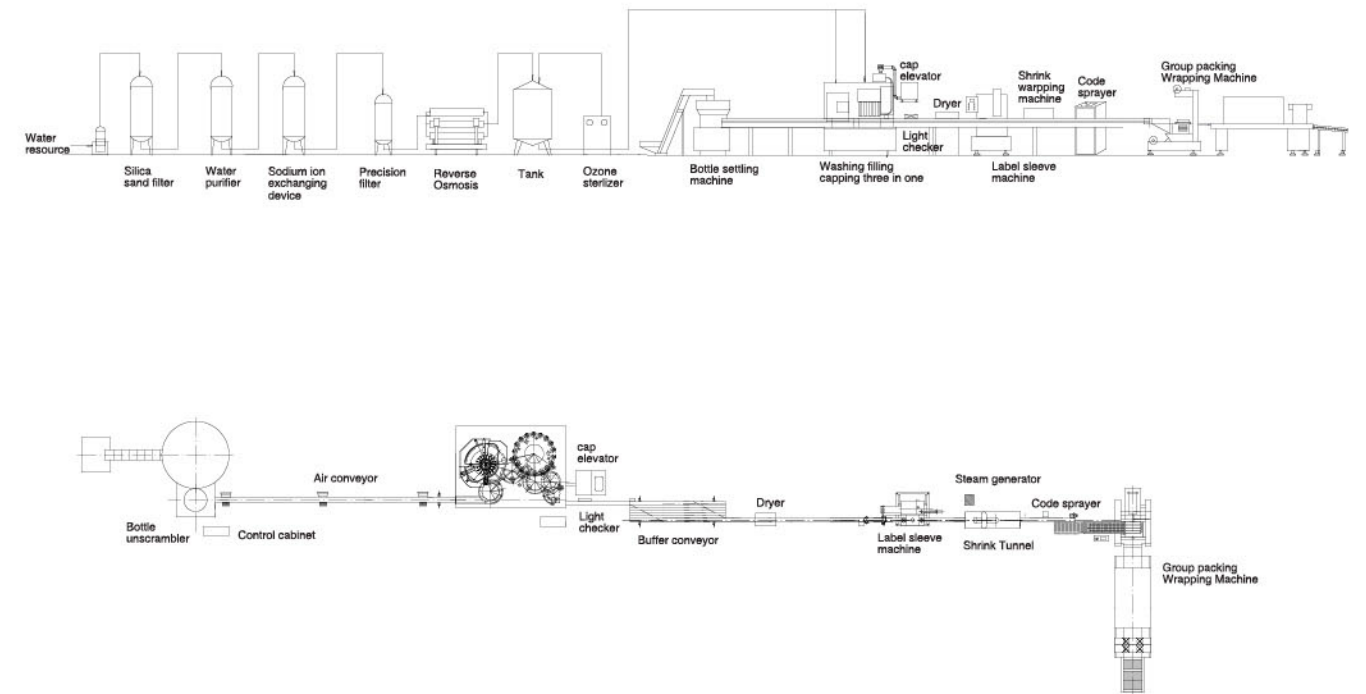
### Capability Character

It adopts hanging type conveying-bottle structure to make changing bottle model more convenient, faster and easier. The main machine adopts advanced PLC control technology. The key electric elements adopt international famous products.

### Technical Parameter

Model:	CGF14-12-4	CGF16-16-5	CGF18-18-6	CGF24-24-8	CGF32-32-10	CGF40-40-12	CGF50-50-12
Capacity(500/ml/bottle/h)	3000-4000	4000-6000	6000-8000	8000-12000	13000-15000	16000-18000	20000-24000
Suitable bottle shape	PET circular or square						
Bottle diameter(mm)	Φ50-Φ115						
Bottle height(mm)	160-320						
Compressed air pressure(MPa)	0.3-0.7						
Washing medium	aseptic water						
Washing water's pressure(MPa)	> 0.06Mpa ≤0.2Mpa						
Total Power (KW)	4.4	4.4	4.4	5.2	6.2	7.8	10
Overall dimensions(mm)	2500x1880x2300	2600x1900x2300	2800x2150x2300	3100x2450x2300	3880x2800x2500	4100x3000x2500	4500x3300x2350
Weight (kg)	3200	4000	4500	6500	7500	8500	9000

## The Production Line of Water



## 3-10L Bottle Washing-filling-capping 3-in-1

This series machine is combined by Bottle Rinsing, filling and capping. It's mainly used for 3-10L bottled Water, Alcohol drinks, oil etc. non-carbonated drinks. It adopts gravity filling technology, automatic cap pickup, magnetic force capping, and the capping force adjustable. It is advanced technology in China.



### Technical Parameter

Model	CGF 12/12/1	CGF 15/15/5	CGF 24/24/8
Production Capacity(500ml)(b/h)	1000-1500	1500-2000	2500-3000
Total Power(KW)	2.2	3	4

## Economy Type Water Washing Filling Capping Machine

### Usage Characteristic:

The production line includes ZPC auto washer, GFP auto filler, YQX auto capper, SC conveyor etc. The key parts for washing, filling and sealing are made of high quality stainless steel, with the features of advanced technology, completed system, reliable performance, easy operation, etc.



### Technical Parameter

Model:	ZPC-12 GFP-12 YQX-3	ZPC-18 GFP-16 YQX-4	ZPC-24 GFP-24 YQX-6
Production b/h	1000-2000	2000-4000	3000-8000
Bottle Height (mm)	160-300	160-320	160-340
Motor Power kw	3.05	4.07	4.82

## 3 Gallon, 5 Gallon Water Line

It is used for 3 Gallon, 5 Gallon water production; with optional capacity from 100b/h to 2000b/h. Customized service includes automatic decapper, internal and external barrel scrubber, cap elevator and heat shrinker, etc.



QGF-600

Leakiness inspector

External brusher

Internal brusher

Decapper

## DCGF Series Carbonated Drink 3-in-1 Filling Machine



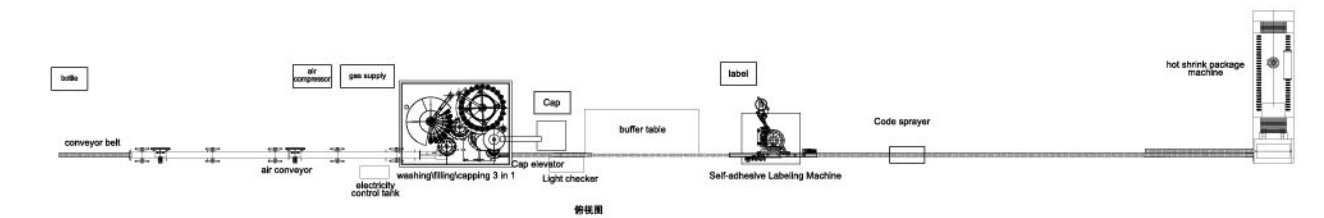
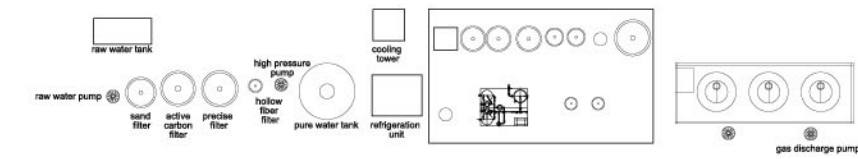
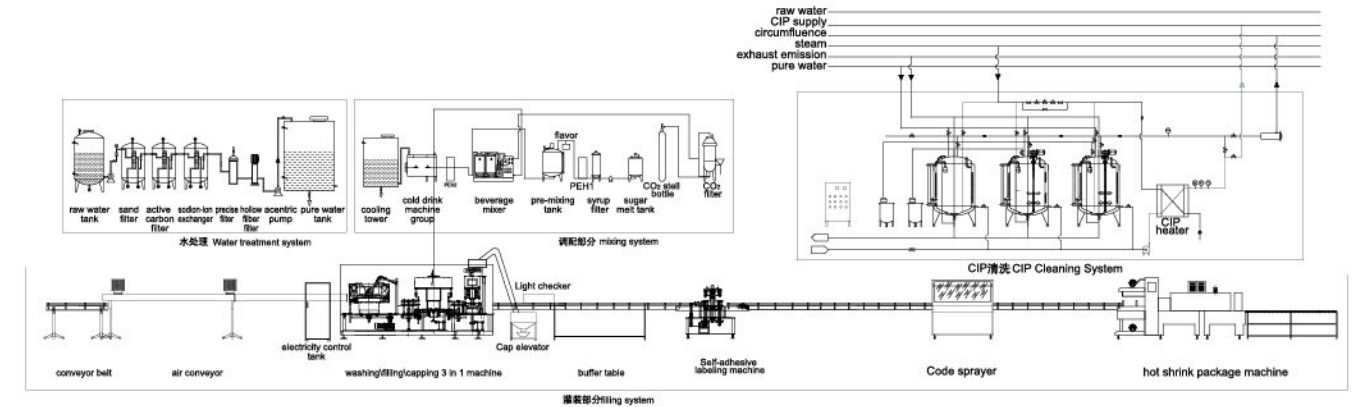
### Usage Characteristic:

The series equipment is used in production gas containing water of PET polyester bottle-packing carbonated beverage, such as Coca cola, Pepsi-cola, Spirit drink etc. It carries out washing bottle, filling and capping on one machine. The whole machine designing is reasonable. The appearance is beautiful and the maintenance is convenient. It adopts bottle handing technology to make changing bottle more convenient, faster and easier. The main machine adopts advanced PLC control, touch screen and no-bottle, no-cap system. The key electric elements are from famous international brand.

### Technical Parameter

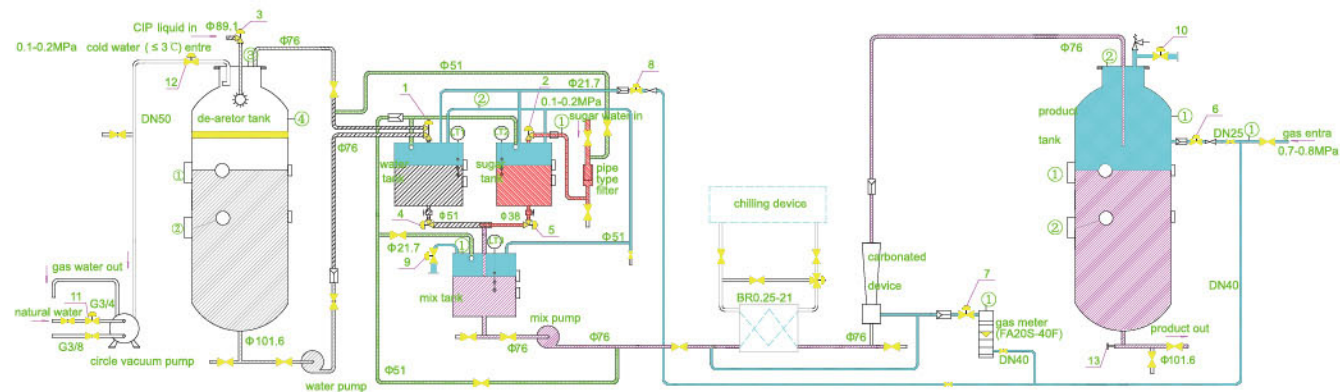
Model:	DCGF14-12-4	DCGF18-18-6	DCGF24-24-8	DCGF32-32-10	DCGF40-40-12	DCGF50-50-15	DCGF60-60-15
Production capacity	2000-3000	3000-5000	5000-7000	7000-10000	10000-15000	16000-20000	20000-24000
Filling precision	≤+5mm(Liquid Level)						
Filling pressure (MPa)	≤0.4						
PET bottle specification(mm)	(Bottle Diameter): Φ50-Φ115; (Height):160-320						
Suitable cap Shape	Plastic Screw Cap or crown cap						
Total power (kw)	4.4	5.2	6.2	6.2	7.5	11	15
Weight (kg)	2500	3500	4500	6000	7200	10000	115000
Overall dimensions(mm)	2250x1650x2250	2600x1965x2250	2980x2200x2250	3880x2200x2250	4000x2250x2500	5500x3500x2500	6500x5500x2550

## The Production Line of Carbonated Drink



## Carbonated Beverage Mixer

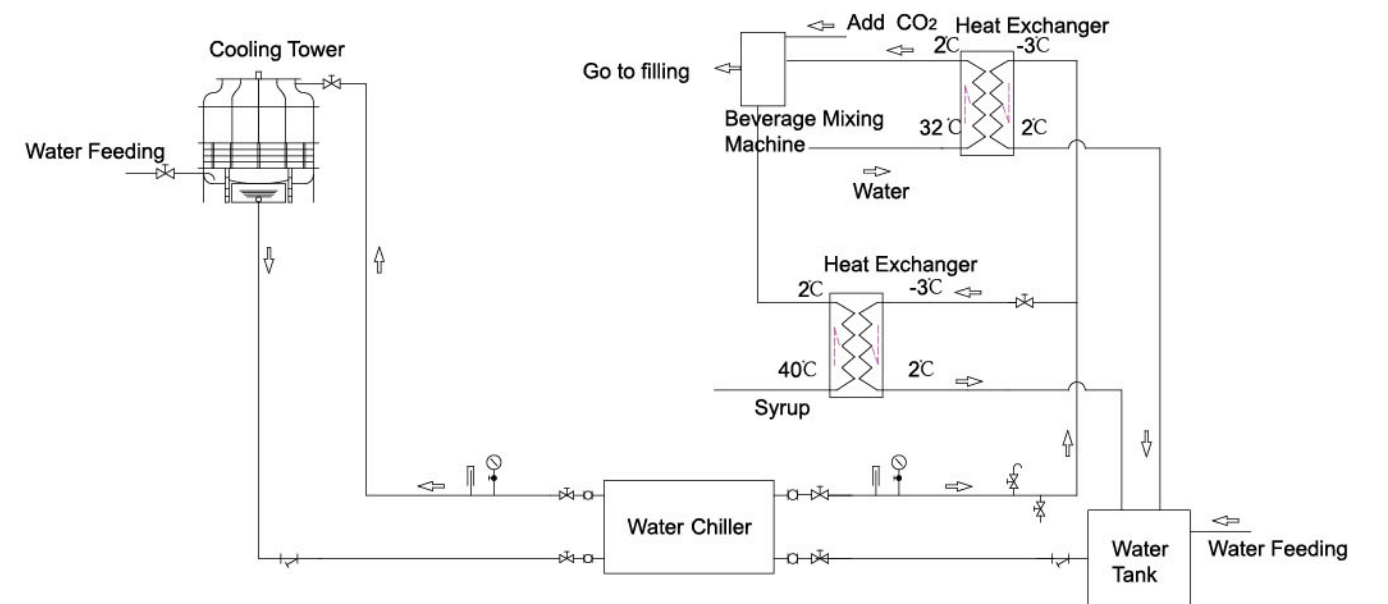
Carbonated drink mixer adopts special mixed gas and liquid ejector and the technique of vacuum deoxidation. The mixing precision is high and the CO<sub>2</sub> is fully mixed. The mixing proportion between water and syrup is seriously controlled by micro metering device. It is equipped with CO<sub>2</sub> accuracy pressure control, so that the liquid level is always stable. The alarm device for low pressure and low liquid level ensures the quality of its production. The machine obtains advantages of high reliability, high efficiency, high grade of automation and easy operation, etc.



## Carbonated Drink Preparation System



## Carbonated Drink Preparation Layout





## Juice/Tea Hot Filling Machine

washing filling capping 3-in-1



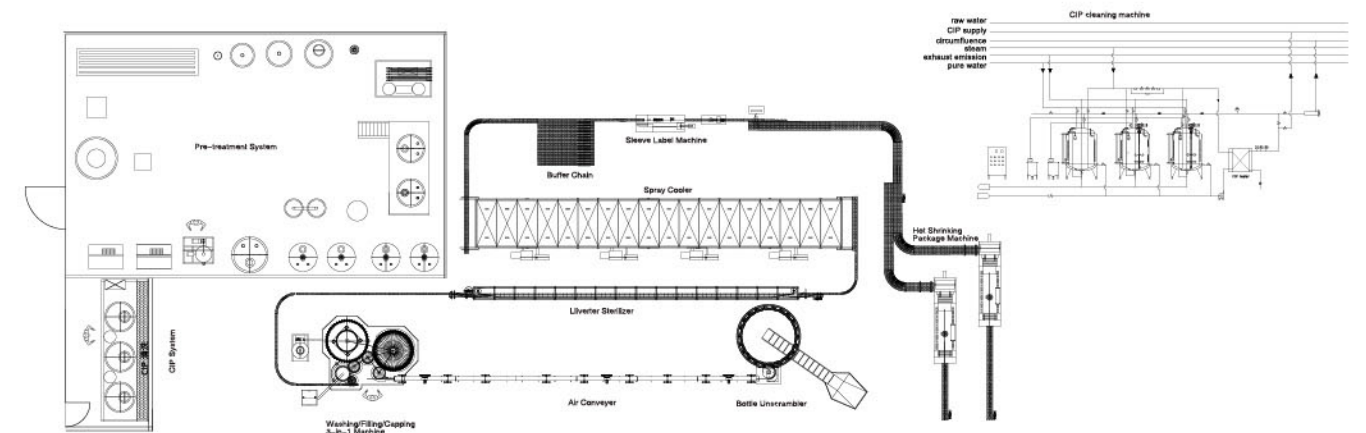
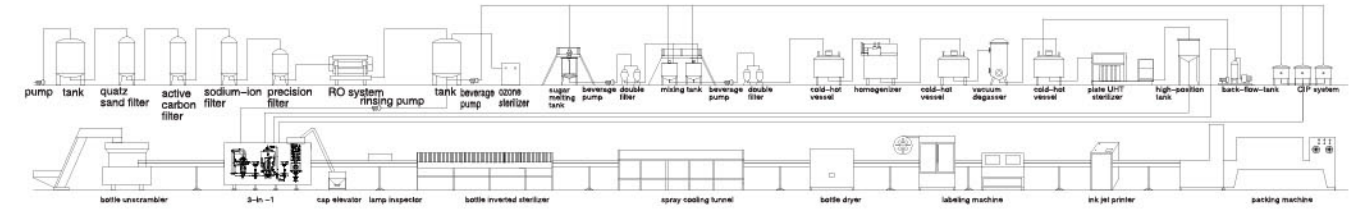
RCGF series three-in-one set of machine is mainly used in the beverage filling process. The machine combines washing, filling and capping with complete automation, suitable for filling juice and tea beverage. With temperature controller, it can also conduct thermal filling. It is used for all kinds of bottles. The bottle neck hanging technology makes the process of changing bottles easily by only adapting the height of conveyor chain. The filling process adopts hot filling technology with water-supplying system under constant pressure, which makes filling process faster and more stable. Compared with other equipment of the same kind, this machine with a better quality and thus enjoys a high ratio of function against price. The hot filling type machine works with balanced tank and vacuum system.



### Technical Parameter

Model	RCGF16-16-6	RCGF18-18-6	RCGF24-24-8	RCGF32-32-12	RCGF40-40-12
Capacity/500ml	3000	5000	8000	12000	16000
Bottle shape	round or square				
PET bottle(mm)	(Bottle Diameter): $\phi$ 50- $\phi$ 110mm (Height): 160-320mm				
Cap	PE srew cap or crown cap				
Filling precision	$\leq \pm 5\%$				
Filling pressure(Mpa)	0.15-0.35	0.15-0.35	0.15-0.35	0.15-0.35	0.15-0.35
Rinsing pressure(Mpa)	0.2-0.25	0.2-0.25	0.2-0.25	0.2-0.25	0.2-0.25
Total Power(KW)	3	4.4	5.2	6.2	7.8
Overall size(mm)	2400 × 2150 × 2300	2800 × 2150 × 2300	3100 × 2450 × 2300	3800 × 2800 × 2500	4100 × 3000 × 2500
Weight(kg)	3000	4500	6500	7500	8500

## The Production Line of Juice/Tea



## Juice Beverage auxiliary machines



**Plate UHT sterilizer**  
Mainly used for heating and sterilizing in juice, tea beverage, fresh milk, and alcohol and other heat sensitivity liquid, also keeping warm and cooling, with the sterilization temperature at 85-135°C  
Capacity: 3T/H-15T/H.



**Pipe UHT sterilizer**  
This sterilizer is mainly used for sterilization in high viscosity products with fiber and bigger flesh, and other products with high acidity, such as fruit juice, jam, coffee beverage, sterilized milk. Sterilization temperature is at 80°C-140°C.  
Capacity: 3T/H-15T/H.



**High pressure homogenizer**  
Used for ultrafine grinding material, and forming solid and liquid dispersoid. Capacity: 1T/H-10T/H



**Vacuum Deaerating Machine**  
The deaerator is one of the necessary equipment in fruit juice or fruit tea production line. It is mainly used for deaerating the homogenized juice under vacuum condition and to prevent the juice from being oxidized and then to prolong the storing period of the juice.



**UHT instantaneous sterilizer**  
This equipment is mainly used for sterilization for fluid material, such as fresh milk, juice, beverage, alcohol, soybean milk and so on. Capacity: 1T/H-10T/H

## Juice Beverage auxiliary machines



Dissolved System



Blending Tank



Tea Extraction System



Tilting Sterilizer Chain



Pasteurized Tunnel



C.I.P System

## Red Wine/vodka Glass Bottle Filling Line



Corking Machine



Capsule Heat-shrinking Machine

Capsule heat-shrinking machine, Corking machine  
It is used for filling and sealing various kinds of glass bottles with crown type bottle mouth for Vodka, Whisky, Grape wine, non-carbonated alcoholic drinks filling production line. The machine adopts the advanced international technology. The design is scientific and reasonable, appearance is beautiful, operation and maintenance are convenient, and it's with high degree of automation. So it is the good machine for choosing by the drink filling factory.

### Technical Parameter

Model:	BCGF16-12-6	BCGF18-18-6	BCGF24-24-8	BCGF32-32-10
Washing heads	16	18	24	32
Filling heads	12	18	24	32
Capping heads	6	6	8	10
Production Capacity(b/h)	3000-4000	5000-6000	6000-8000	8000-10000
Power of main motor(kw)	3	3.8	5.5	7.5

## Beer Filling Machine



### Technical Features:

It is used for filling and sealing various kind of glass bottle with crown type bottle cap for beer filling production line.

The machine adopts advanced international technology, It's design scientific and reasonable, appearance is beautiful, operation and maintenance is convenient, and it's high degree of automatization, so it is the good machine for middle and small beer manufacturer.

### Technical Parameter

Model:	BGF12/6	BGF18/6	BGF24/8	BGF32/10
Production Capacity(500ml)(b/h)	1000-1200	2000-3000	4000-5000	6000-8000
Total Power(kw)	1.5	1.5	3.75	5.6

## Can Filling and Sealing Machine



The machine is advanced filling and capping equipment, it's designed on the basis of absorbing domestic and foreign advanced technology. It is mainly used in filling and capping carbonated beverages as soft drinks, cola, sparkling wine, etc. It has such advantages as advanced construction, stable working, convenient operation and repair & maintenance, transducer control as well as high production efficiency. It is the ideal equipment for mid-scale & small-scale beverage factory.

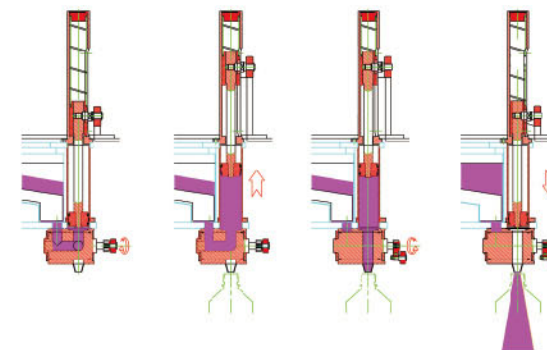
### Technical Parameter

Model	GDF12-1	GDF18-6	GDF24-6
Production capacity(b/h)	1000-2000	3000-6000	4000-9000
Power(kw)	0.75	3.7	3.7
Overall dimensions (mm)	1750 × 1140 × 1950	2320 × 1400 × 1900	2580 × 1675 × 1900
Weight (kg)	1800	2500	3000

## Piston Filling Machiner For High-viscosity Liquid



High-Viscosity Filling Monobloc is the fully automatic rotary volumetric filling-capping monobloc. The entire machine applies rotary structure: bottle bottom support conveying, electromagnetic flowmeter volumetric filling, pneumatic manipulator for cap chucking etc. High-Viscosity Filling Monobloc can be used for various PET bottles, HDPE bottles and glass bottles, which mainly used for daily chemical products and high viscosity liquid (<20,000 cps).



## Milk Filling Machine

The equipment is mainly used for milk filling; it can conduct the filling process into different kinds of bottles on one machine and can also be used for the other beverage.



## Cup Filling Machine

This machine can be used for packing various liquids, such as water, soybean milk, fruit juice, beverage, ice drink, soy sauce, vinegar, wine etc, into cups. It is an automatic system, which integrates cup loading, filling, UV sterilizing, date printing, sealing and cutting into one machine. It is made of stainless steel, and complies with international sanitary standard.



## Automatic oil filling machine

This type machine is suitable for filling viscous, inviscid and corrosive liquid. It's widely applied in plant oil, chemical liquid, and daily chemical industry. It adopts linear type filling, electromechanical & instrumental integration controlling. It's simple and rapid for changing the varieties with unique design and superior capability. It's appearance accords with the international machinery concept. Germany SIEMENS PLC and touch screen control make it intelligentize protection function. Vacuum anti-dropping device ensures no leaking situation in production. Electronic adjusting for volume system, frequency control and photoelectric detecting system (Germany TURCK brand) are applied in this machine.

### Technical Parameter

Parameter	Unit	SNYG Series				
No. of heads	Pcs	12	10	8	6	4
Filling volume	ml	200-1000, 500-3000, 1000-5000, 1500-6000				
Productivity	bph	1600-4000	1400-3200	1200-2600	1000-1900	720-1300
Filling tolerance	%	<0.5%				
Voltage	V	According customer country's standard				
Power	Kw	1.5	1.5	1.5	1.2	1.0
Gas pressure	Mpa	0.55-0.8Mpa				
Gas consumption	M <sup>3</sup> /min	0.6	0.4	1.2	1.0	0.8



## Liquid Bag Filling Sealing Machines

This series is widely used in the film packing of milk, soy milk, all kinds of drinks, soy, vinegar, yellow wine etc. All packing procedures: ultraviolet ray sterilization, molding of bags, print of dates, filling with fixed quantity, sealing and cutting and numeration. All components are made of stainless steels and are designed to meet state hygienic standard. A and B model adopt single-layer polyethylene film while C model employ composite films. Among them, B model is twin type designed so it can fill two types of liquid of different colors and flavor in one package; C model are categorized as middle sealing, side sealing and photo-electric detection.

### Technical Parameter

Model:	SJY-1000A	SJY-1000B	SJY-1000C
Speeding of Production	1500-2100 bags/hour	1500bags/hour	1000-1800bags/hour
Packing Capacity	100-500ml	100-500ml	100-1000ml
Packing Size	L30-150 × W120-160mm	L30-190 × W84-120mm	L30-240 × W120-160mm
Power of Machine	1.2Kw 220VAC/380VAG	1.2Kw 220VAC/380VAG	1.2Kw 220VAC/380VAG
Weight of Machine	270kg	320kg	330kg
Overall Dimensions	850 × 800 × 1800mm	950 × 850 × 1900mm	1050 × 850 × 1850mm



## Capping Machine

We supply different types of capping machines, which are applicable for various plastic caps, aluminum screw caps, ultrahigh aluminum caps, crown caps, sport caps, corks and other special caps



## Water Treatment System



**Silica sand filter:**

It can remove the suspended solids and gluten particles in the water, thus reduce the turbidity of water.

**Active carbon filter:**

It can remove the pigment, smell and a large number of biological organisms in the water.

**Sodium ion exchanger:**

It can remove calcium and magnesium ions in the water, so as to soften the water.

**Precision filter:**

It can ensure that the granularity of the water into reverse osmosis membrane is less than 0.1 um.

**Reverse Osmosis:**

The Reverse Osmosis Device is an equipment to purify the saline water with the action of pressure difference of semi-permeable membrane. It is called reverse osmosis, as it is counter to natural penetration direction. Different materials have different osmotic pressures.

The reverse osmosis can remove more than 97% of the soluble salt and above 99% of the colloid, microorganism, particles and organic materials, becoming the best first-choice equipment in the engineering of modern purified water, highly purified water and space water (super-purified water). The most highlighted features are low energy consumption, no pollution, simple technique, high-quality water and convenient operation and maintenance.

**UV sterilize:**

It uses the UV to kill some bacteria that may also pass through the reverse osmosis system.

**Ozone sterilizer:**

Some bacteria may not be killed by the UV, the sterilizer uses ozone to kill those bacteria.

**Hollow-fibre Ultrafilter** This ultrafilter adopts dissymmetrical semipermeable film which is made from macromolecule material with special process. The raw liquid flows under pressure, inside or outside the film. The macromolecule substance and colloid particles in the raw liquid are clogged at the film surface and are brought away by circulating raw liquid. Then the raw liquid becomes inspissated, furthermore, the substance in liquid is separated, concentrated.

According to customer's water source analysis report and the final water standard required, we will suggest customer to choose the suitable water treatment plants.

## Bottle Unscrambler

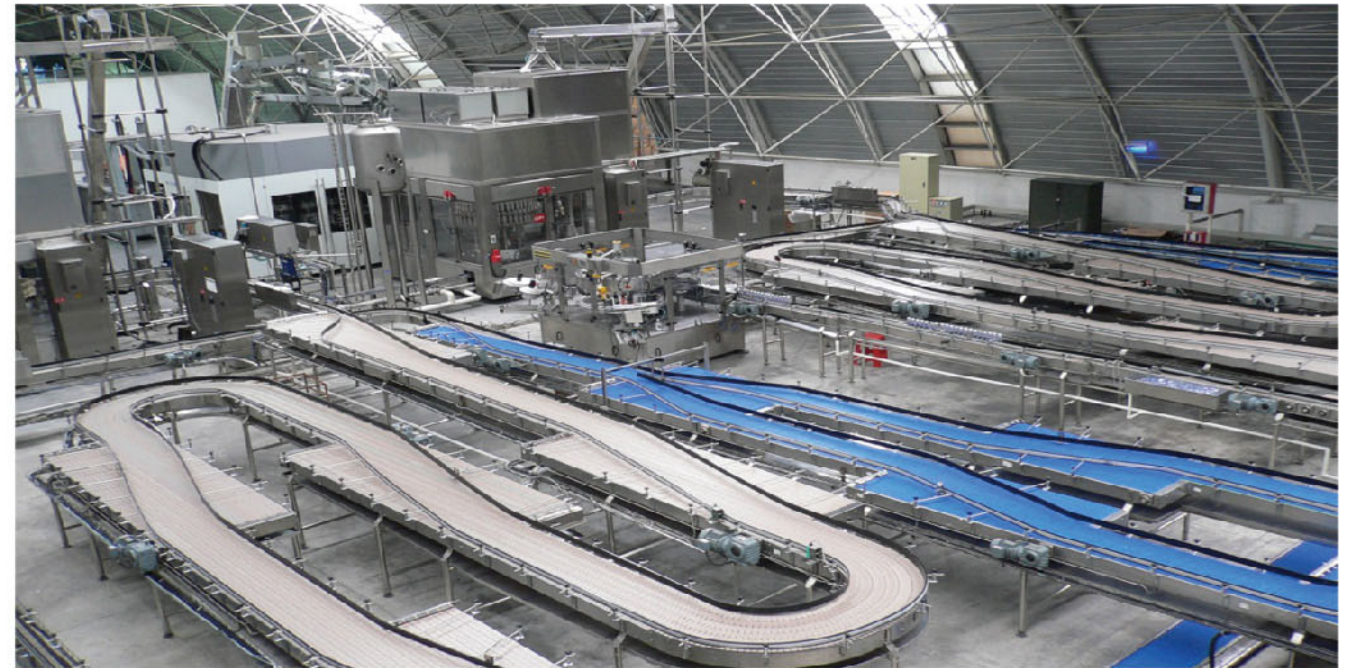


The machine is used in ordering disordered polyester bottles. The disordered bottles are carried into the storing bottle section of the ordering bottle machine. With the help of the pushing force of the rotating disk, the bottles enter their position. With the function of the turning bottle device and the air-flow, the bottles are ordered into bottle mouth-up-position and are carried into the next process with the air-transferring type conveying bottle system.

## Code Printer



## Belt Chain Conveyor System



## Empty Bottle Air Conveyor



## Automatic Sleeve Labeling Machine

### Usage Characteristic:

This machine adopts international advanced technology; cover the circle label on the PET bottle. And then hot shrinking to fix on the position which bottle body designated.

This machine's structure is compact, and suitable for the production line of different direction and different height.

The machinery part adopts combination designing of modularization, and makes the machine reasonable. The height adjustment adopts motor fluctuating; it is convenient to replace the material. The special cutter head designing, make the film-rolling cut more exactly and reliably.



### Technical Parameter

Model	SPC-150B	SPC-250B
Input power	1.5KW	3.0KW
Input Voltage	Φ3380/220VAC	Φ3380/220VAC
Production Efficiency	150Bottle/min	250Bottle/min
Size of Host Machine	2100L × 850KW × 2000H	2100L × 850KW × 2000H
Applicable Diameter of Bottle Body	Φ28mm-Φ125mm	Φ28mm-Φ125mm
Applicable Thickness of Label	30mm-250mm	30mm-250mm
Applicable Length of Lable	0.03mm-0.13mm	0.03mm-0.13mm
Applicable Internal Diameter of Paper Tube	5" -10" (Adjustable)	5" -10" (Adjustable)



## OPP Hot Melt Glue Labeling Machine

This machine is suitable for sticking the continuous roll labels, using gluing methods in small glue consumption, low running capital, the fastest labeling speed could reach 45,000bottles per hour.

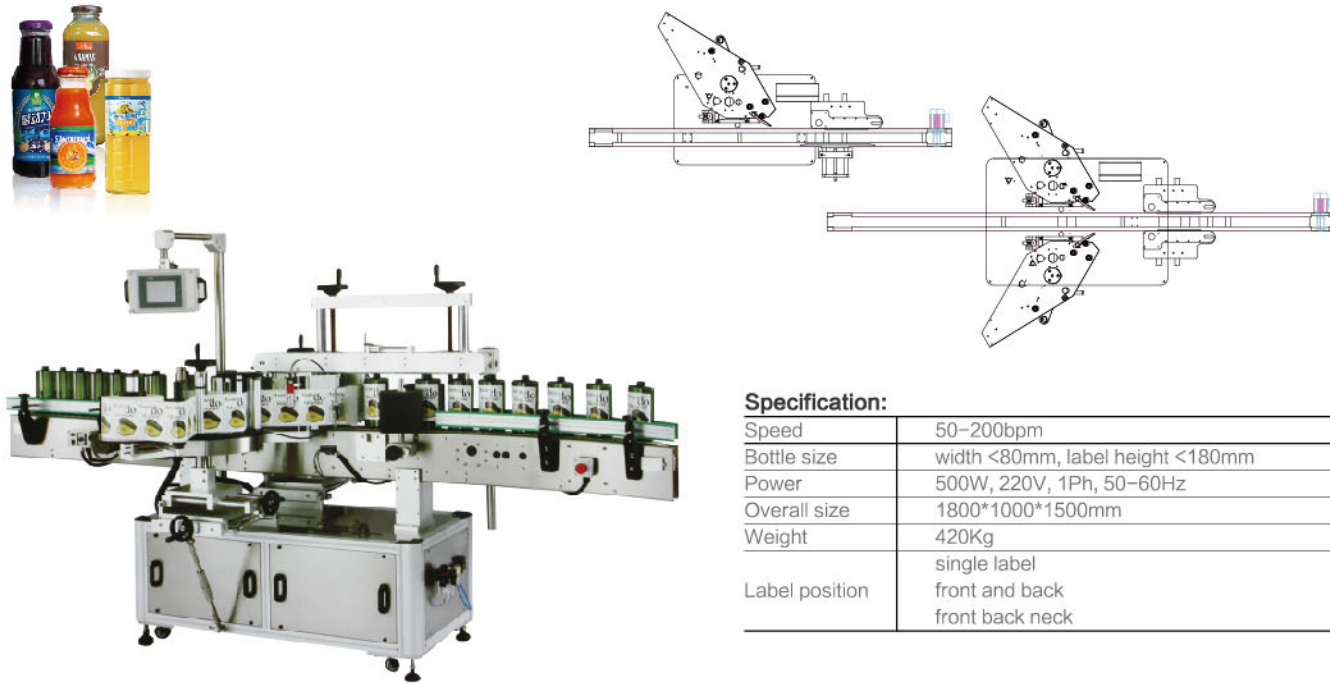


### Specification:

Model	Liner type	Rotary type
Capacity	6000-18000 Bottle/Hour	10000-45000 Bottle/Hour
Suitable bottle type	Diameter: 35mm-120mm Only for round bottle	Diameter: 35mm-120mm Round bottle and Square bottle
Label type	Max height: 650mm	Max height: 220mm



## Automatic Self-adhesive Labeling Machine



Specification:	
Speed	50-200bpm
Bottle size	width <80mm, label height <180mm
Power	500W, 220V, 1Ph, 50-60Hz
Overall size	1800*1000*1500mm
Weight	420Kg
Label position	single label front and back front back neck

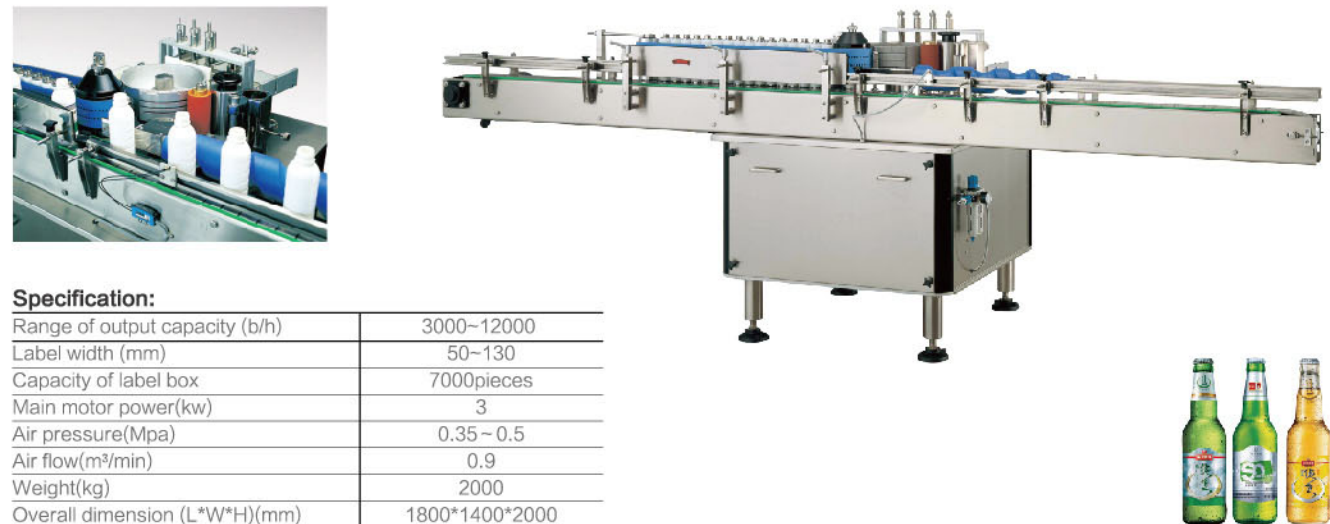
## Automatic Shrink Packing Machine(Non Tray)



**Applications:**  
The machine is developed especially for mineral water, beverage, wine, beer, product and so on infusion medicine bottle combination packaging, with stable function, and the packed articles tight and orderly. It can be handled as a single pushing machine when high speed demanded.



## Automatic Cold Glue Labeling Machine



Specification:	
Range of output capacity (b/h)	3000-12000
Label width (mm)	50-130
Capacity of label box	7000pieces
Main motor power(kw)	3
Air pressure(Mpa)	0.35-0.5
Air flow(m <sup>3</sup> /min)	0.9
Weight(kg)	2000
Overall dimension (L*W*H)(mm)	1800*1400*2000

## Semi Automatic PE Film Shrink Wrapping Machine



Technical Parameter	
Model	BZJ-5038B
Max. packing dimension	L450 × W270 × H330mm
Min. packing dimension	L250 × W60 × H140mm
Power	220-240V, 50-60HZ, 1.6KW
Packing speed	0-8pcs/minute
Load of pushing board	20kg
Film thickness	0.03-0.25mm
Dimension	L1020 × W830 × H1980mm
Machine Weight	170kgs
Film Thickness	0.03-0.25mm

## Linear type Automatic PE Film Shrink Wrapping Machine



### Technical Parameter

Power	28KW	PE film	thickness: 0.03-0.10mm ,width : ≤600mm
Air consumption	25m <sup>3</sup> /H、≥0.6MPa	Weight	1.5ton
Speed	20-25bag/minute.	Dimension	L12000 × W1100 × H2100mm
Bottle diameter	Φ60-90Φmm, height ≤330mm	Wrappage max size	L2400 × W650 × H450mm

## Carton Packing System

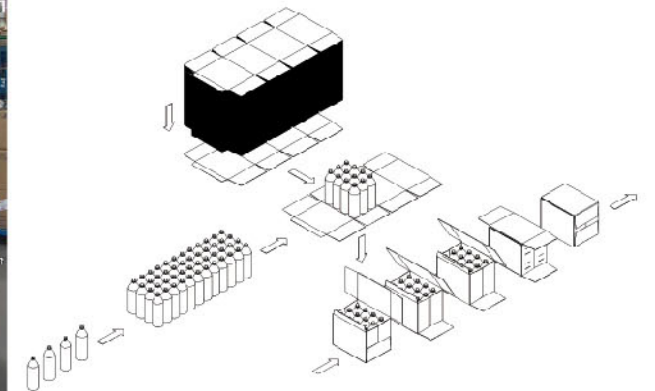


## High-speed Wrapping Machine

Specially designed for bundle packing of beer, drinks and beverage, fruit juice, bottle water, dairy, condiment and so on with or without bottom support. Unique film layoff mechanism and constant tension film conveyor are adopted, featuring instantaneous film cutting, automatic film connecting and wrapping and higher strength after shrinking packing.



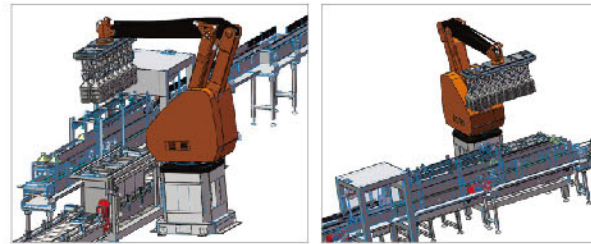
## Wrap Around Case Packing Machine



## Robot Packer & Robot Palletizer



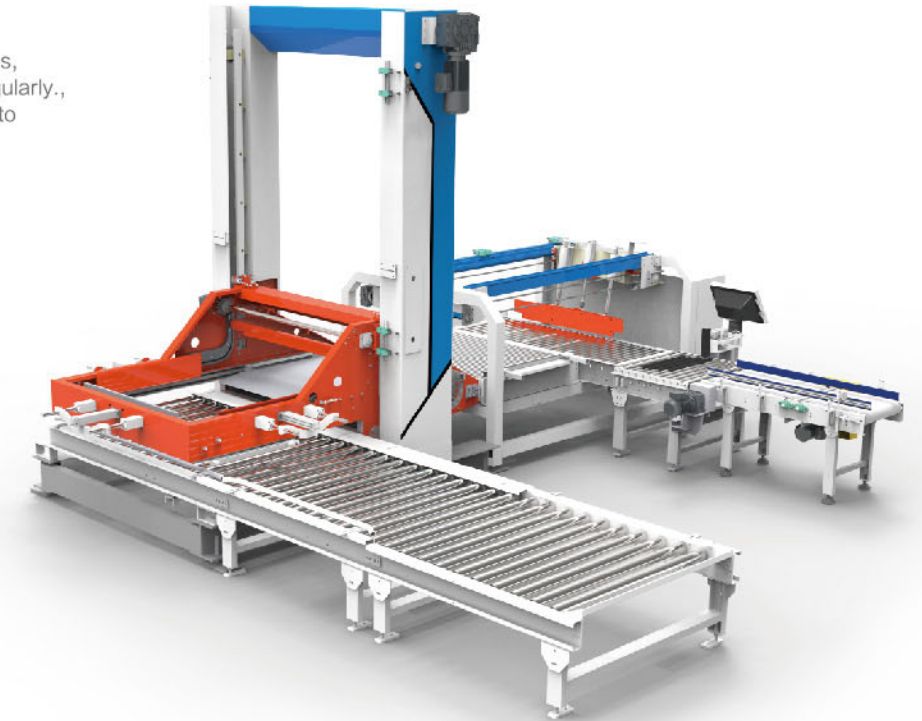
TPR series of palletizing robot, which is widely used in beverage, dairy, food, beer, petrochemical, medicine, etc., can satisfy different packaging production line of all kinds of product palletizing requirements. There are a large number of professional R&D designers who provide reasonable robot palletizing project for customers. The turnkey palletizing solution contains production input, pallet output, robot choosing and hand holding design. Meanwhile, we supplies perfect technical training, technical support and spare parts support. Rich experience after-sales service team provides reliable and comprehensive quality services.



Item	Specification	
Model	TPR-200	
Controlled axis	4 axes (A,B,C,D)	
Installation	Floor mount	
Motion Range	A(right, left)	3300
	B(up, down)	2000mm
	C(front, back)	1300mm
	D(tongs)	3500
Max load capacity	200kg	
Handing capacity	Max 1000 times/H	
Drive method	Electric servo drive by AC servo motor	
Repeatability	± 0.5mm	
Tongs	Power source	Compressed air
	Air pressure	0.5Mpa
	Air consumption	280NL/min
Power	6.5KW	
Weight	1100kg	

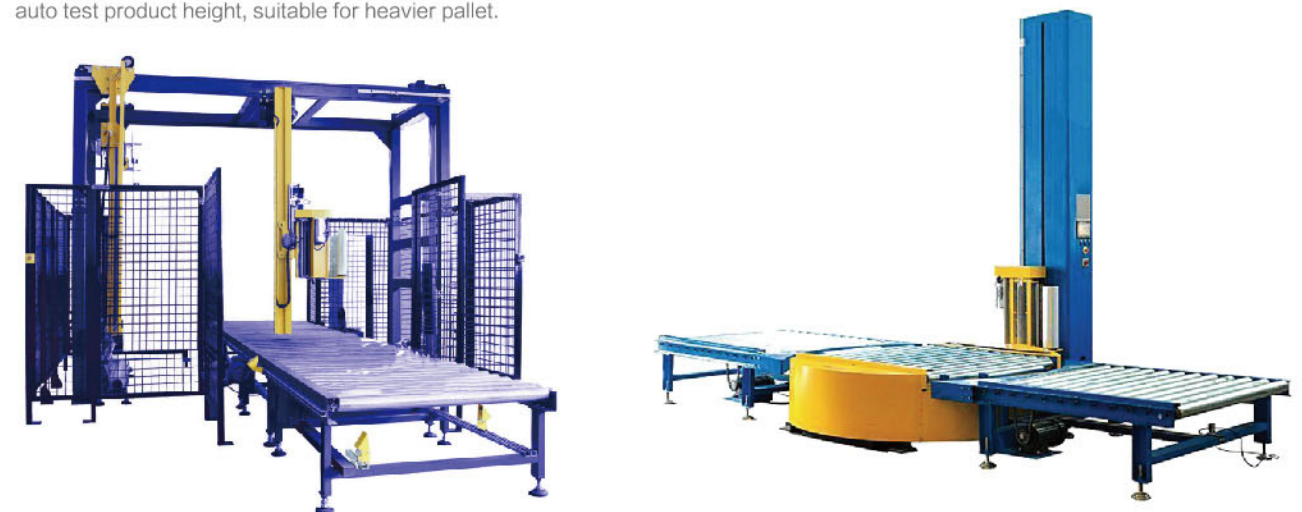
## Automatic Palletizer

Palletizer is used for arrange the boxes, bags, case, etc filled with products regularly., then output, it is convenient for forklift to conveyor the products to warehouse.



## Pull Film Wrapping Machine

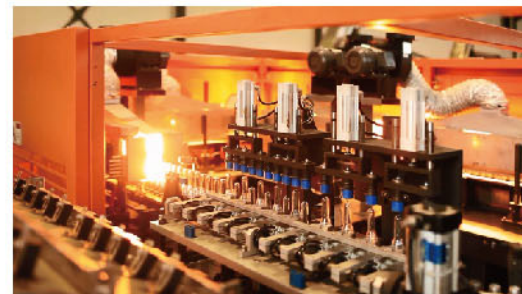
It is automatic reset table, ensure the pallet enter and exit correctly. Adopts programmed inventor control, performance reliable, operating easily, auto test product height, suitable for heavier pallet.



## Blow Moulding Machine



CYA series is one kind of two-step automatic PET bottle blow moulding machine, which is suitable for blowing any shape of PET bottles such as carbonated water bottles, water bottles, juice bottles, oil bottles, cosmetic containers, etc.



1. The machine adopts human-computer interface to control the whole working procedures, auto-loading, auto Wowing, auto dropping. Action cylinders are all assembled with magnetic induction switches. Connect with PLC to control every step and test each cylinder. Next action will continue after the former step done, if former step is not finished, alarm automatically and stop working. PLC displays problem position.
2. Fast speed, accurate position, smooth action.
3. According to special demand, adopt cross double crank pressed clamping, with strong clamping force. Mould open can be adjustable according to the bottle size to save the time.
4. Far infrared heater lamps have strong penetrations, performs are heated uniformly while rotating, PLC or electronic pressure adjustor controls each group of temperature separately.
5. Particular pre-heater design makes perform dose while heating Change space, shorten heating tunnel and reduce energy consumption according to the bottle size while Wowing.
6. The air supply system consists of slight blow, high pressure blow, low pressure actions, to supply enough air for different products.
7. Special recyding installation for high pressure air reduce the energy consumption.
8. Operation consists of manual and automatic procedure, manual operation for assembly and test, automatic operation for production.
9. Production workmanship process is fully automatic to make best quality and pollution-free. It holds less investment, high efficiency, easy operation, simple repair, safety etc.



Item			CYA-3	CYA-4	CYA-6	CYA-3-5
Product	Theoretical output	Pcs/h	3300	4500	6500	1800
	Volume	L	1.5	1.5	1.5	5.0
	Max. height	mm	360	360	360	360
	Max. diameter	mm	105	105	105	195
Mould	Number of cavities	/	3	4	6	3
	Mould plate dimension(LxH)	mm	430x360	600x360	820x360	820x360
	Mould thickness	mm	190	190	190	280
	Mould opening stroke	mm	110	110	110	200
Electrical	Power	/	220-380V/50-60Hz	220-380V/50-60Hz	220-380V/50-60Hz	220-380V/50-60Hz
	Total power	KW	18	25	35	30
	Heating power	KW	15	22	32	27
AIR System	Operation pressure	Mpa	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0
	Action Air Consuming	m³/min	≥1.6	≥1.6	≥1.6	≥1.6
	Blowing Pressure	Mpa	2.6-3.0	2.6-3.0	2.6-3.0	2.6-3.0
	Blowing Air Consuming	m³/min	≥2.4	≥3.2	≥4.8	≥3.2
Machine	Main body dimension(LxWxH)	m	2.7x1.45x2.0	3.4x1.9x2.0	4.4x1.9x2.0	4.4x1.9x2.0
	Main body weight	Kg	2000	2600	3200	3200
	Pre-heater(LxWxH)	m	1.6x0.85x2.2	1.6x0.85x2.2	1.6x0.85x2.2	1.6x0.85x2.2
	Pre-heater weight	Kg	200	200	200	200

The above technical parameters are subject to continual update, please take the real product as the base. Machines can be customized for special products.

## Semi-auto Blow Moulding Machine



1. Adopt special electronic controlling circuit for heating; high efficiency in simultaneous controlling one lamp or more; lower power consumption.
2. Adopt the theory of heat transfer and feedback while designing the shape and thickness of perform.
3. The preform will be heated evenly, not be influenced by outside environment.
4. Cooling system with cold air cycle ensures same heat exposure of internal and external surface of the bottles.
5. The air exhaust system designed by CAD can guarantee the deviation of heating furnace temperature +/-1degree.
6. Air circuit system consists of movement and blowing so as to meet the demand of different air pressure, also to provide stable high pressure for blowing different shapes of big capacity bottles.
7. The system is equipped with silencer, connecting rod and articulated refueling devices.
8. Two modes of operation: semi-automatic mode and automatic mode.
9. Small size, low investment. One person enough to operate, simple and safe.



Item			CYM-1	CYM-2	CYM-3	CYM-1-20
Product	Theoretical output	Pcs/h	500	900	1800	90
	Volume	L	5.0	2.0	2.0	20
	Max. height	mm	360	360	360	550
	Max. diameter	mm	120	105	105	300
Mould	Number of cavities	/	1	2	4	1
	Mould plate dimension(LxH)	mm	490x470	490x405	490x405	620x620
	Mould thickness	mm	250	220	220	380
	Mould opening stroke	mm	220	180	180	380
Electrical	Power	/	220-380V/50-60Hz	220-380V/50-60Hz	220-380V/50-60Hz	220-380V/50-60Hz
	Total power	KW	11	11	21	36
	Heating power	KW	10	10	20	37
Machine	Main body dimension(LxWxH)	m	1.5x0.65x2.0	1.5x0.65x2.0	1.5x0.65x2.0	2.1x0.75x1.6
	Main body weight	Kg	600	550	550	900
	Pre-heater(LxWxH)	m	1.5x0.65x1.5	1.4x0.65x1.5	1.8x0.65x1.5	2.7x0.7x1.6
	Pre-heater weight	Kg	300	300	350	400

The above technical parameters are subject to continual update, please take the real product as the base. Machines can be customized for special products.

YC-1-20 two-step semi-automatic blow moulding machine can blow PET 5 gallon bottle and various shapes of big volume and big mouth plastic containers, and PC PMMA lamps etc.



## Injection Machine

According to the material property of PET and the molding requirements of it, our experienced engineering team designed the machine special for the application. Its mature design satisfies all our customers in PET molding production.

1. Big diameter screw design and L/D ratio.
2. High plasticization capacity.
3. Extended machine framework, enlarged space between tie bars, mold opening stroke, mold thickness, and ejection stroke.
4. Specialized screw set for PET+FB or slice PET are on request as option.
5. Four or above stages precise temperature PID control for barrel.
6. Spring nozzle for the machine below 650T, hydraulic nozzle for 650T, and meeting customers' special requirements by effectively avoiding overflow.
7. Dehumidifying dryer selected for PET resin's special demands of removing moisture.
8. Suitable for both varied pump and standard pump.



ITEM	UNIT	CY-1600A			CY-2400A			CY-4800A			CY-6500A			
Injection unit														
Screw diameter	mm	45	50	55	55	60	65	70	75	80	85	90	95	100
L/D	L/D	23.3	21	19.1	22.9	21	19.4	22.6	21	19.7	22.3	21	19.9	18.9
Shot volume	cm <sup>3</sup>	358	442	534	665	791	929	1346	1545	1758	2298	2576	2870	3181
Shot weight	g	326	402	486	605	720	845	1225	1406	1600	2091	2344	2611	2895
Injection pressure	Mpa	219	178	147	210	176	150	201	175	154	206	184	164	149
Injection rate	g/s	142	175	212	176.5	210	245	370	423	484	400	448	499	553
Plasticizing capacity	g/s	20.1	26.5	34.2	26.4	32.5	40	60.4	71.4	83.7	60	75	85	100
Screw torque	N.m	1250			2000			3490			6580			
Screw speed	r/min	200			150			150			125			
Injection stroke	mm	225			280			350			405			
Clamping unit														
Clamping force	KN	1600			2400			4800			6500			
Toggle stroke	mm	460			530			770			870			
Space between tie-bars	mm	480x480			555x555			760x760			850x850			
Mold height	mm	180-500			200-570			280-790			350-900			
Daylight	mm	960			1100			1560			1770			
Ejector stroke	KN	45.2			61.5			113.4			200			
Ejector tonnage	mm	115			135			195			260			
Ejector Number		5			9			13			17			
Others														
Motor power	KW	15			22			45			55			
Pump pressure	Mpa	16			16			16			16			
Heating power	KW	13.6			18.5			28			37.15			
Heating zone		4			5			5			6			
Overall size	m	5.3x1.35x1.9			6.2x1.6x2.1			7.5x2.1x2.45			9.3x2.3x2.7			
Net weight	t	5.6			8.0			20			32			
Oil tank capacity	L	420			440			850			1200			

