

Bottled Drink Plant



Allbest Creative Development Ltd. (ALLBEST)

Technology Portfolio

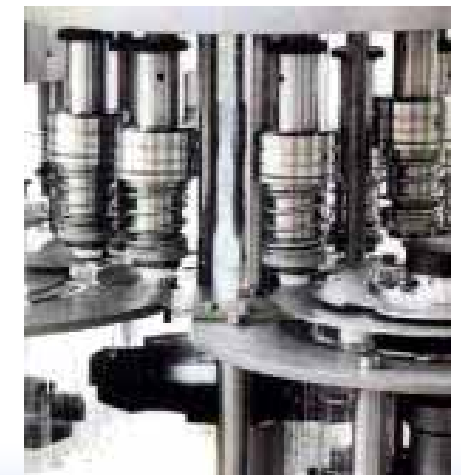
- THE PRODUCTION LINE FOR FILLING NON-SPARKING LIQUID FOR BOTTLE
- FILLING LINE MANUFACTURING FOR FRUIT JUICES
- THE PRODUCTION LINE FOR FILLING SPARKLING LIQUID FOR BOTTLE
- OPEN-EASY CAN FILLING PRODUCTION LINE
- BLOWING MACHINE
- AIR CLEANING SYSTEM
- MACHINE FOR BACTERIA-FREE SOFT BAG MAKING, FILLING AND BAG SEALING
- ROTARY COMBINATION OF ELECTONIC SCALE, FILLER AND SCREW CAPPER

**THE PRODUCTION LINE FOR FILLING
NON-SPARKING LIQUID FOR BOTTLE
(2,000-36,000 B/H)**



Brief Introduction

The production line is suitable for filling soft drinks such as mineral water, pure water, ice water, fruit juice and tea drinks into plastic bottles. It consists of bottle elevator, bottle unscrambler, air conveyor, washer-filler-capper monoblock, cap elevator, labeller, ink-jet printer and case packer. The capacity with 2000-36000b/h can meet different production requirements.





Bottled Non-Sparking Liquid

FEATURES OF DGY SERIES OF WASHER-FILLER-CAPPER MONOBLOCK

- Imported advanced technology from Europe to design and manufacture the washer-filler-capper monoblock. It can apply to multi-type bottles.
- Manufacturing & assembly are up to the national standard. All parts contacting with the liquid material are made of sanitary material, which meet the requirements of food hygiene, and its surface is smooth-easy for washing.
- The rotary washer adopts intermittent spraying. reduced water consumption. Bottle changing and lifting is very easy.
- Adopts advanced pressure-type filling with high speed and high precision.
- Automatic capping system with magnetic clutch capping head, its torque is adjustable.
- The washer-filler-capper monoblock has compact structure, so the cost of germfree isolator is reduced by a big margin
- During operation, it adopts bottleneck grasped conveying. so bottle changing is easy
- The monoblock is controlled by PLC machine runs safety and steadily.



	主要技术参数 (Main Specifications)					
	型号 MODEL	生产能力 CAPACITY	适用瓶型 (mm) BOTTLE SIZE	装机容量 POWER (kw)	质量 WEIGHT (kg)	尺寸 DIMENSION (mm)
灌 装 机 FILLER	DGY60/60/15	36000 (500ml)	H=280-300. Φ60-88	16.2	9000	5500 × 4700 × 3050
	DGY50/55/15	24000 (500ml)	H=280-300. Φ60-88	15	11000	6000 × 2800 × 2600
	DGY30/32/8	13000~15000 (500ml)	H=280-300. Φ60-88	7.4	6700	3500 × 2500 × 2600
	DGY24/24/6	10000~12000 (500ml)	H=283-300. Φ60-88	6.2	6000	2600 × 2100 × 2500
	DGY18/18/6	6000~6000 (500ml)	H=180-300. Φ60-88	5.7	4000	2140 × 1680 × 2400
	DGY12/12/5	3000~5000 (500ml)	H=160-180. Φ60-88	3.95	3200	1830 × 1348 × 2400
理 瓶 机 PACKER	UZL260	12000 (b/h)	350-2250 (ml)	1.57	1500	3300 × 3000 × 2200
	UZL380	24000 (b/h)	350-2250 (ml)	1.77	2500	4700 × 3000 × 2200

Cap feeding with wind-power

It is a system for automatic cap-infeed with high-speed air blast, comprising cap-transfer section and air-supply purifying section.

The working principles

With the vibration of the vibrator, the caps in the magazine fall down and then are blown along the pipe by air-blaster to the infeed funnel, from which the caps slide down to the cap handler in spiral direction. There is optoelectronic sensor in the cap handler checking the amount of caps, when the caps in the cap handler are not enough, the optoelectronic sensor sends out signal to start up the air-blaster, after 2.5 seconds, the solenoid valve closes as well to start up the vibrator, then the cap-transfer start again; when the caps in the cap handler are accumulated to a given amount, the vibrator stops and the air-blaster continues to work for 1 second to blast off all the remained caps in the pipe. The cap-infeed system doesn't run when the cap-handler doesn't rotate.



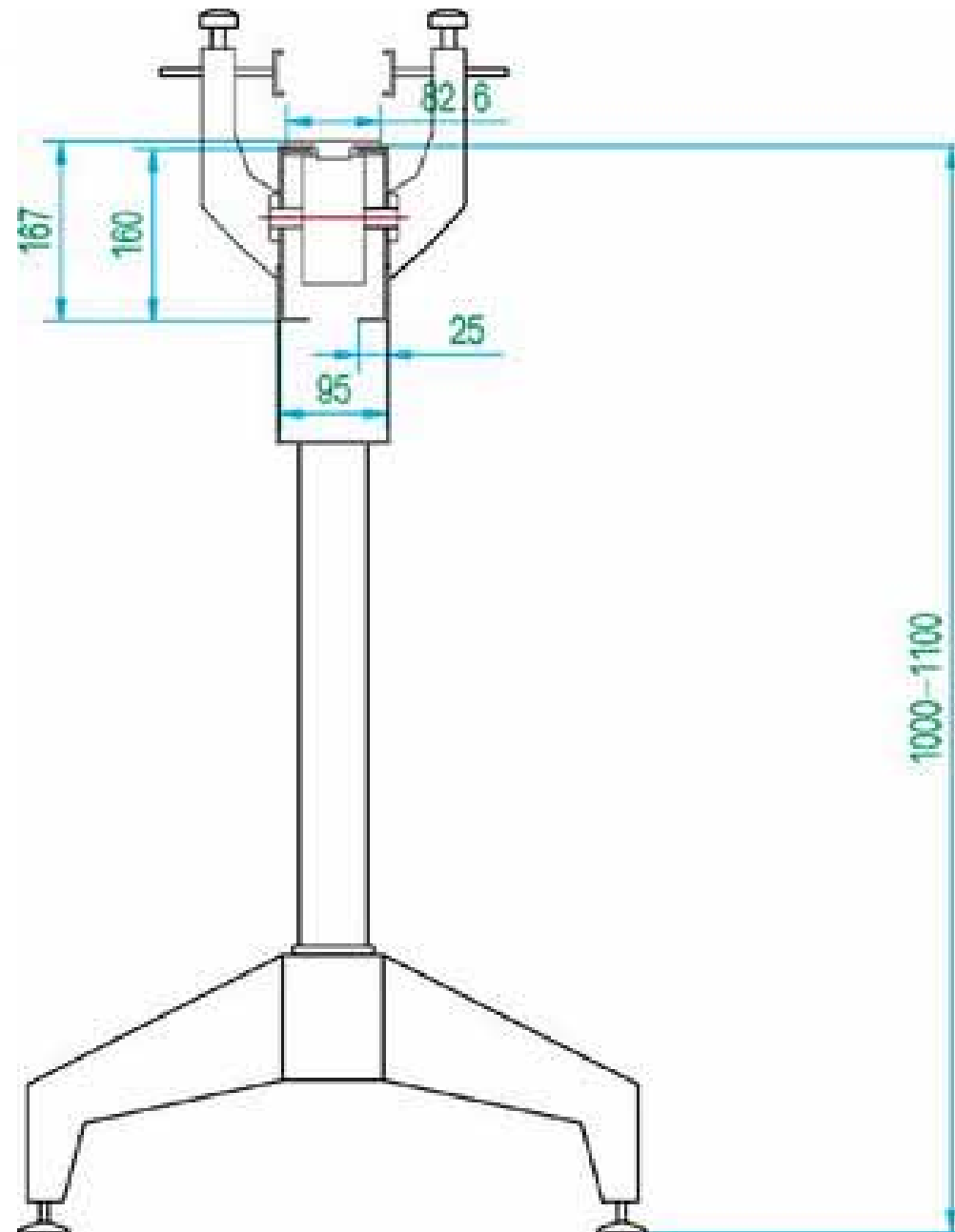
Transfer system

Power for driving: 0.75kw

Chains type: LF831-K325 for straight lane, LF880TAB-K35 for bend lane

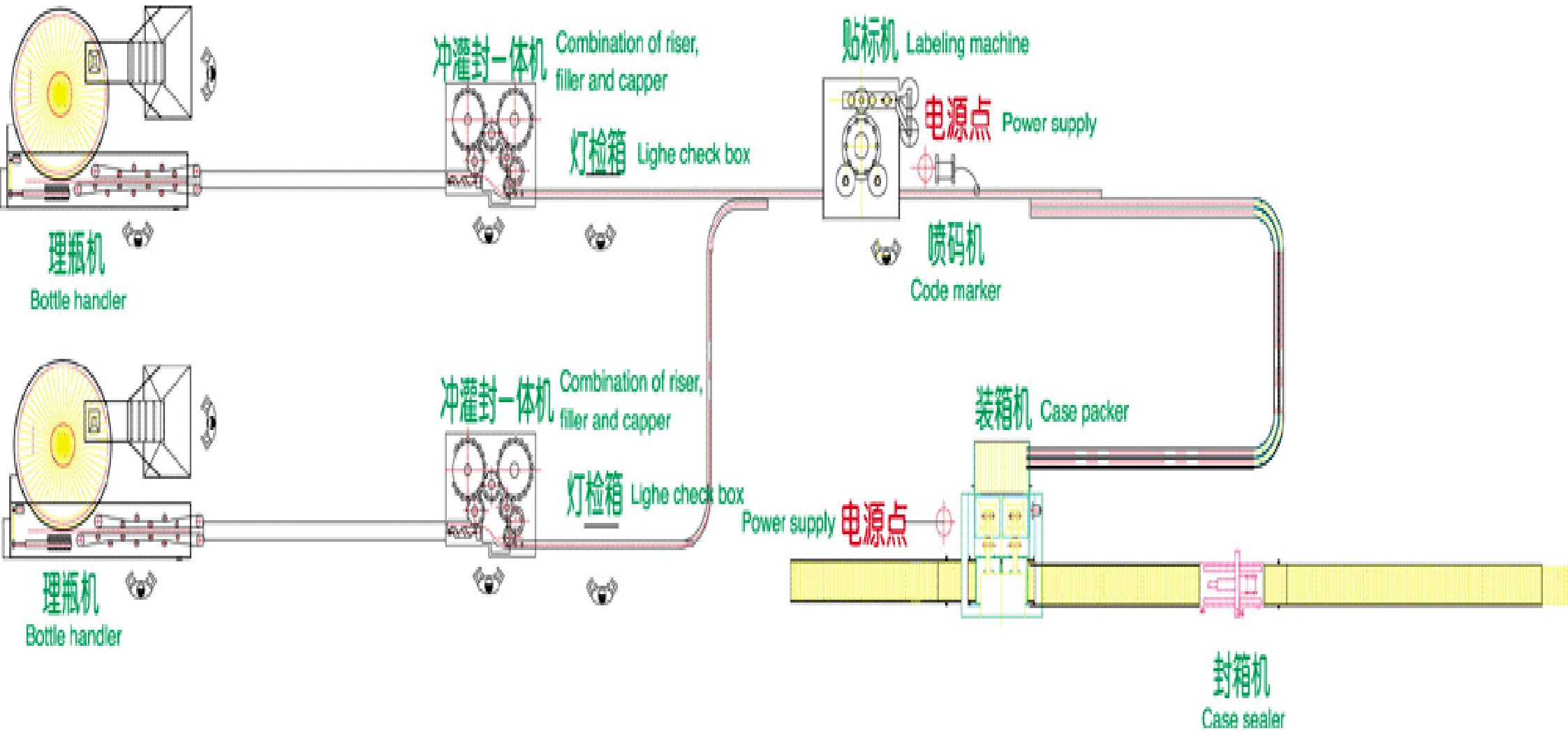
Function description: Link between sections of the machine and transfer containers, the transfer speed of each section of the chains is adjustable to meet the production capacity.





Bottled Non-Sparking Liquid

Mineral Water Process Flow Chart



Linear Filling Machine (GZH8)

Feature & Application:

- Simple structure with reliable performance
- Easy operation and maintenance
- High filling precision
- Adopted imported electrical appliance and pneumatic components
- Controlled by PLC
- Applicable for filling liquid and low viscosity liquid, such as alcohol, mineral water, spirit, fruit juice, soy vinegar and medical liquid, chemical, etc.

Main Specification:

Capacity: 2000 b/h (500ml)

Bottle type:

Diameter: 60-170 mm

Height: 180-300 mm

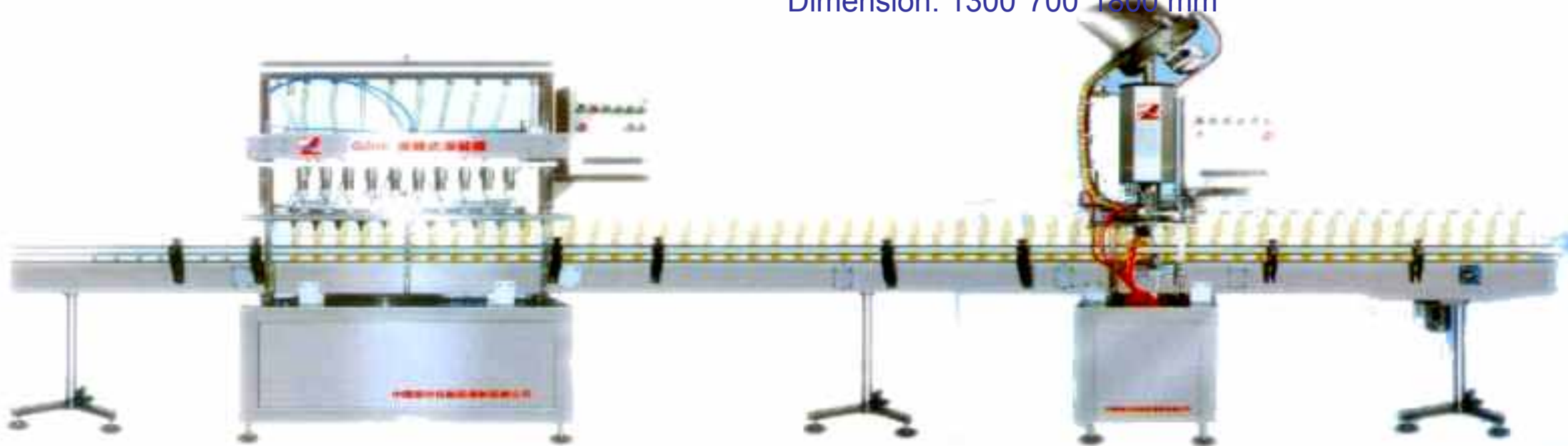
(special bottle shape will be designed as per requirement)

Air consumption: 0.2 M³/min

Motor power: 0.75 kW

Gross weight: 500 kg

Dimension: 1300*700*1800 mm





Liner pressing & Screwing Capping Machine (FZH1-Y/W)



Screwing capping machine



Pressing capping machine



**FILLING LINE MANUFACTURING
FOR FRUIT JUICES
(6,000-24,000 B/H)**



HIGH TEMPERATURE FILLING



Enclosed monnblock (rinsers, filler for hot liquid and capper) is used for filling fruit juice and tea drinks with PET bottle or glass bottle .Its production capacity is 6000-24000 bottles per hour. Filling system adopts low vacuum filling type. Production line established PLC, touch screen interface, variable-speed motor, temperature controlling system and CIP system.



DGC60/60/15RS three-in-one hot-filling machine

Perfect design that meets yours process requirements perfectly.

Through introduction of foreign state-of-the art technology upgraded by Lang Fang General Company of Packing Equipments, the newly developed DGC60/60/15RS three-in-one hot-filling machine is able to meet the hot-filling process requirements much better with reasonable machine configuration and wide range for customizing. Meanwhile, the DGC60/60/15RS three-in-one hot-filling machine is also quite flexible, reliable and simple for manipulating, reducing the machine's stop time to a minimum level. It is our commitment that we are always keen on providing our customers the best support for expertise and professional service and ensure your efficiency and profit. We believe that it is our sacred duty to provide perfect solutions and equipments tailored to your every need at every step in your filling project, and meanwhile develop the skills of your team in operation and maintenance.

技术参数 Technical parameters	
型号 Type	DGC/60/60/15RS
生产能力 Production capacity	24000瓶/小时 (bottles/h)
总功率 Total power	16.22kw
主机功率 Power of main frame	13.27kw
冲瓶耗水 Water consumption for bottle-rinsing	5000kg/h
耗气量 Air consumption	1m ³ /min
适合瓶型 Bottle types applicable	Φ=55-90 H=140-330mm
外形尺寸 Overall size	5500×4700×3050mm
重量 Weight	9000kg



UZL series high-speed rotary bottle handler

UZL series high-speed rotary bottle handler is a main equipment specially designed to work with three-in-one combination of rinser, filler and capper, with application of the imported high quality electric parts. The machine features all working processes control by PLC and speed adjustment by inverter, to ensure stable bottle output and prevent bottle from tumbling and squeezing. The exit for bottle outputs is equipped with bottle sorter to remove unqualified bottle which are tumbled or deformed, etc. At the entrance of the pneumatic conveyor is fixed with device for automatically restoring the pose of the clamped bottles, making the machine run more smoothly and reliably with high efficiency and working speed.



型号 Type	生产能力 (600ml) Production capacity	适用瓶型 Bottle types applicabte	装机容量 Installed cappacity	外形尺寸 Machine size (mmm)
UZL300	15000-18000b/h	$\Phi=50-110$ h=150-350	2.2kw	$\Phi=2570$ w=2680 h=1950
UZL400	18000-24000b/h	$\Phi=50-110$ h=150-350	3.75kw	$\Phi=2850$ w=3380 h=2210
UZL500	24000-30000b/h	$\Phi=50-110$ h=150-350	5.5kw	$\Phi=3600$ w=4700 h=2400

Automatic temperature control system

The filling temperature is on-line monitored. When the liquid material temperature is lower than the filling process requirement, the alarm will ring and the machine stops automatically, the liquid material will automatically be returned to temperature-holding tank (or return to the upstream section over UHT for heating), and then the liquid material will be heated and goes out of the holding tank with temperature set according to process requirements.



Air conveyor

After being handled, the bottles are conveyed to the filling workshop through air-blowing conveyor.



SR Series bottle-tumbling sterilizing machine

1. Brief introduction

The SR Series bottle-tumbling sterilizing machine is the special equipment for disinfecting bottle cap after the bottle are hot-filled and capped. The decelerator with built-in motor drives the conveying chains through sprocket, realizing the on-line bottle-tumbling during bottle-conveying, and after the bottle cap being disinfected for a certain time required by the processes requirement, the bottle will be turned around automatically, then the processes of bottle-tumbling, bottle cap-sterilizing and bottle-turning around are finished.

Our design can realize the bottle-tumbling at either the straight section or the bend section of the sterilizing line tailored to our customers' requirement. The SR series bottle-tumbling sterilizing machine can be customized for special designs based on the customer-required length of the sterilizing line or sterilizing time, also for motor-power configuration.

2. Technical parameters of the bottle-tumbling sterilizing machine

a. Machine type: SR

b. Sterilized tim:30S

c. Bottle types applicable: PET bottles or glass bottles (the bottle height no more than 300mm)

d. Power: AC, three-phase-four-wire system (380V, 50Hz)

e. Total power: normally 2.6Kw

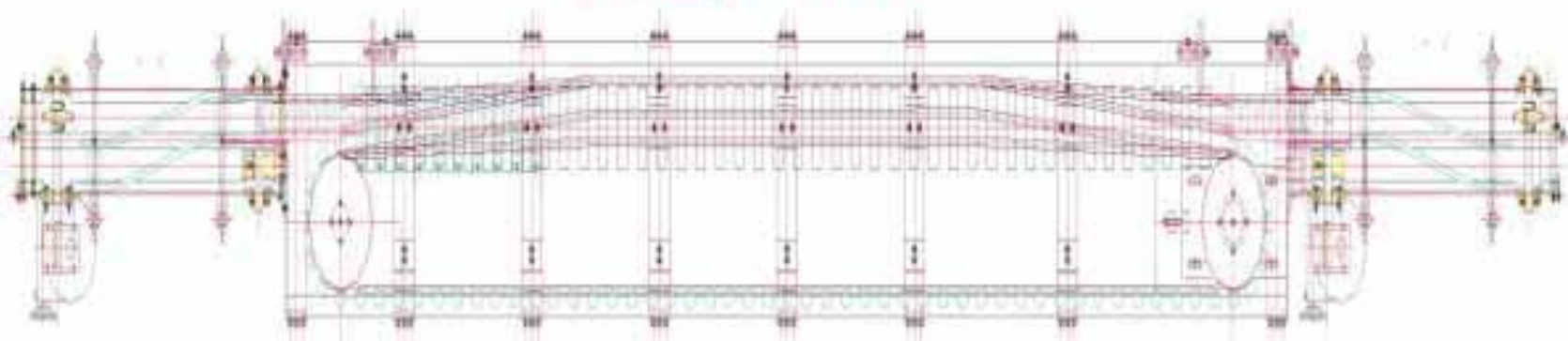
f. Machine size (L×W×H): SR100: 9,500×600×1,160 (mm); SR200: 14,000×600×1,160 (mm)

SR300: 18,500×600×1,160 (mm)



A&A-SR系列杀菌机示意图

Sterilizer diagram of A&A-SR series



Spray-cooling system

Machine type: LY30000

Production capacity: 20,000-24,000 bottles/hour

Power: 30Kw

The output bottle temperature after cooling: 35-40°C

Water consumption: Recirculated water (with water-cooling equipment)

Machine size: 18,000 × 2,400 × 1,500 mm

Machine weight: 9,000Kg

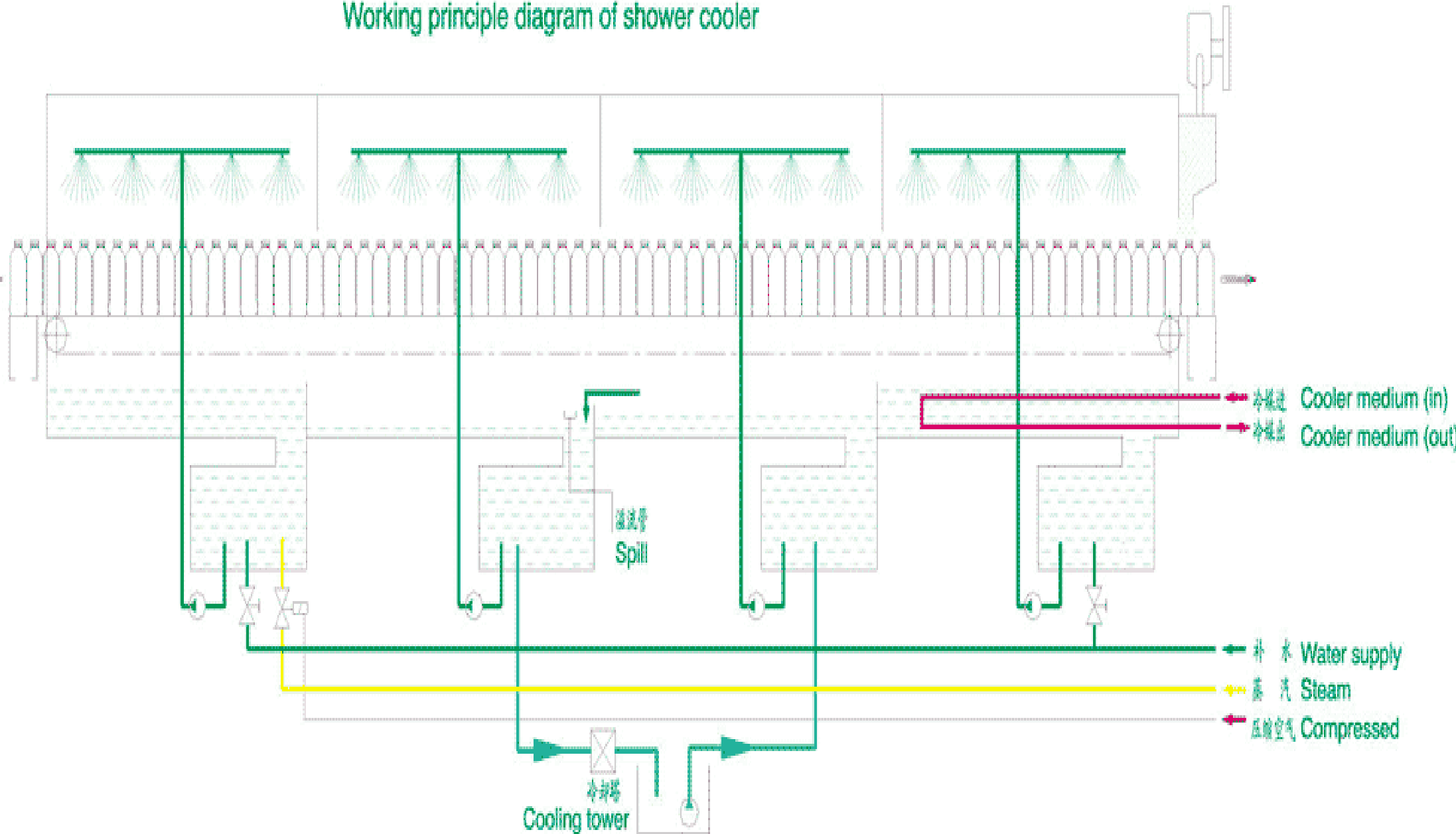
Function description

The hot-filled bottles transferred by conveying belt are arrayed at the entrance of the spray-cooling machine, and then enter the first temperature zone in turn for cooling and temperature-holding at 73°C for 3 minutes, and then in turn enter the second and third temperature zones for gradually cooling down by recirculated water connected with cooling tower equipped outside of the machine, the cooling in this two temperature zones lasts for 12 minutes; in the fourth temperature zone, the bottle temperature will go down to 35-40°C with bottle-cooling by desalted water and bottle-drying by air-blowing device, the surplus water will go to the up-stream temperature zone.



噴淋冷却机原理图

Working principle diagram of shower cooler



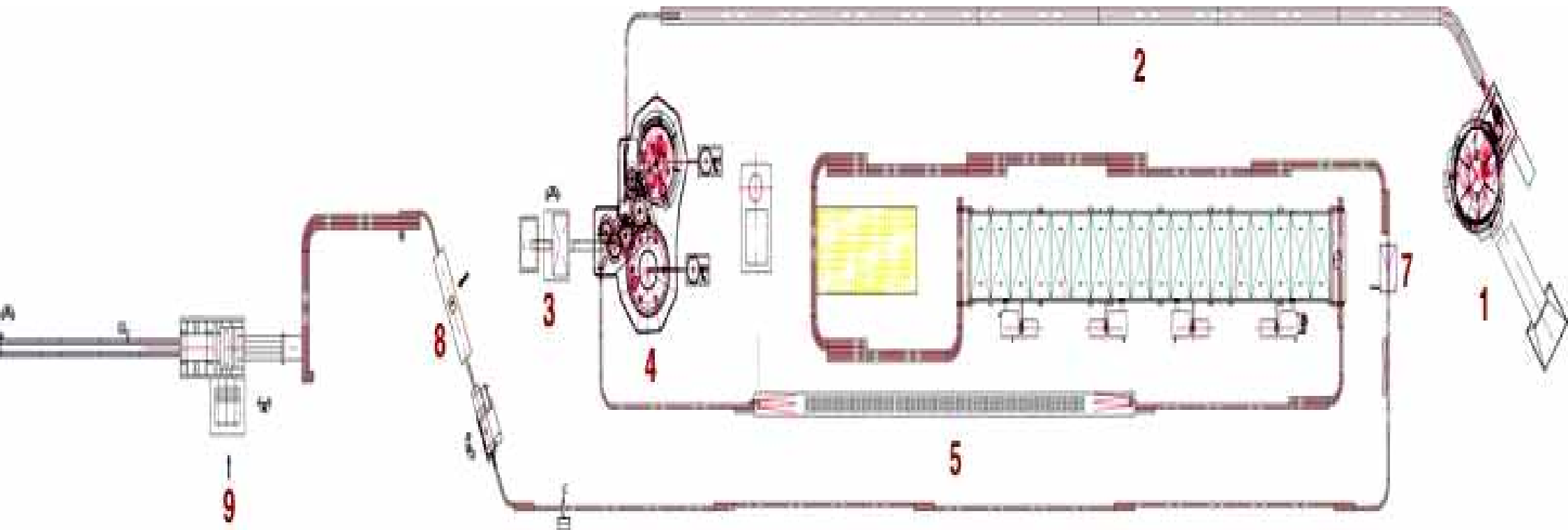
Case Packer



装箱机技术参数

型号 Type	SFA-2125-L
使用电源 Electricity	220V—440V/50Hz—60Hz
功率 Power	8kw
空气压力 Air pressure	6kg /cm 2
空气流量 Air rate	1m 3 /min
外形尺寸(长 * 宽) Dimension	4943* 2760mm
机器质量 Weight	2800KG
生产能力 Capacity	23—25 箱 / 分 (Cartons/min)
操作方式 Operation	MMI- 中英文萤屏操作显式系统 MMI-Chinese and English Display system
包装产品类型 Product	马口铁罐、 PE 瓶、 PP 瓶、 PET 瓶 Can, PE bottle, PP bottle, PET bottle
包装箱类型 Wrap	瓦楞纸 Corrugated paper
贴接方式 Sticky type	热熔胶 Glud

24,000 B/H Juice & Tea Drink Process Flow Chart



1. Bottle handler 2. Air-blowing bottle rinsing 3. Cap feeding with wind-power 4. Combination of rinser, filler and capper 5. Bottle-tumbling sterilizer 6. Shower cooler 7. Light check box 8. Label-fixing machine 9. Case sealer

DGC30/32/8R three-in-one hot-filling machine



Model	Capacity (500 ml)	Bottle Type	Cap	Power (kW)	Weight (Kg)	Dimension
DGC30/32/8R	12,000	Ø50-90 H: 163-310	plastic bur- glarproof caps	5.7	7500	3500x2600x25 00

DGC24/24/8R three-in-one hot-filling machine



Model	Capacity (500 ml)	Bottle Type	Cap	Power (kW)	Weight (Kg)	Dimension
DGC24/24/8R	8,000-10,000	Ø50-90 H: 295	plastic bur- glarproof caps	5.7	7000	3500x2100x25 00

DGC18/18/6R three-in-one hot-filling machine



Model	Capacity (500 ml)	Bottle Type	Cap	Power (kW)	Weight (Kg)	Dimension
DGC18/18/6R	8,000	Glass Ø50-90 H: 295	3-4 screw	3.92	4000	2450x1850 x2500

DGP multifunctional beverage-filling machine (1)

DGP combination of rinse, filler and capper is a new generation of full automatic multifunctional beverage-filling machine manufactured after years of development, applicable for filling gassy or non-gassy drinks, and can also meet the hot-filling process requirement for fruit juice, realizing with great versatility the high adaptability to different needs for product-structure adjustment.

Centralized lubricating system

The lubricating center periodically supplies the lubricant to the lubricating points through main oil pipe lines by means of automatically timing and constant delivery.

● Reasonable and compact bottle-conveying system

The bottles are conveyed by holding the bottle neck throughout the rinsing, filling and capping processes, that realize great adaptability to bottle deformation caused by hot-filling at high temperature, which makes the conventional bottle-driving method unable to meet the actual demand. The bottle-conveying by holding the bottle neck affectively gets rid of the influence caused by the bottle distortion, making the production to go on more smoothly and realizing the versatility for different filling requirements.

● Efficient bottle-rinsing with power-saving

The bottle cleaning and rinsing is accomplished by high-effective spraying specially designed nozzle, which can create liquid turbulence in bottle to clean the bottle thoroughly. The bottle clamp doesn't touch the bottle opening, and the clamp is periodically cleaned automatically by disinfectant with constant delivery to eliminate cross-pollution.

● Filling valve working accurately at high speed

After years of study for advanced technologies abroad and self-development, the filling valve is specially designed to meet requirements for versatility in filling many sorts of beverage at high filling speed, and secure the filling valve can open and close flexibly under condition of high or low working temperature and large pressure change. The filling valve's quick-disassembling structure facilitates the cleaning for valve body, and the filling valve has self-cleaning function.

DGP multifunctional beverage-filling machine (2)

● Safe, clean and reliable capping

After introducing advanced capping technologies of magnetic force clutch abroad, the high speed capping and product safety are well accomplished by accurate and reliable torque adjustment. The screw at the bottle neck is thoroughly washed before being capped, to eliminate the remained liquid that would spoil and create mildew during stock.

● Approach of cap-handling and cap-conveying

At the top of the capper is equipped with cap handler, which has the device for returning the caps which lay on incorrect side, the cap-handling and cap-feeding are automatically controlled, and the machine stops automatically when no cap is fed. In addition, we can provide satisfactory solution according to our customers' different requirements for cap-rinsing and disinfection. The cap-conveying is conducted by wind force, with automatic heating and temperature-holding system, to ensure the best capping result.

● CIP rinsing

The rinser and filling system are equipped with CIP fittings for cleaning and rotary cleaning nozzles, the cleaning liquid pressure is 0.3 MPa, temperature at 120°C, able to adapt well to CIP cleaning process, and facilitates the cleaning with liquid pipe's smooth inside wall that contact liquid.

● Advanced technology for automatic control

The main drive is motor with speed adjustment by frequency change, PLC+ frequency changer + man-machine interface can fulfill the speed adjustment optionally within range 2-50HZ, adapt to all sorts of production condition, and facilitate the automation for the whole filling line.



Model	Capacity (500 ml)	Power (kW)	Weight (Kg)	Dimension
DGP50/50/ 12	18,000	5.7	8000	5000X4300 X2500
DGP40/40/ 12	15,000	5.7	7500	3700X3600 X2500
DGP30/32/ 8	12,000	5	7000	3600X2800 X2800

UHT Sterilizer

This system department's scientific instantaneous ultra-temperature treatment method, make liquid food, such as liquid dairy products, the tea beverage, fruit drink, etc, reach strict sterilization. And then have no fungus to pack to change over to, it disinfects temperature is up to 135--137 C, beverage one is original and nutritious with the flavor of color and luster. This equipment has high, the structure compactness is beautiful, such characteristics as temperature control is steady for hot rate of recovery.



脱气-杀菌 Degassing -sterilizing



快速灌装 Quick wrap resolution



脱气 - 均质 Degassing-premixing



UHT Sterilizer



主要技术参数 SPECIFIC ATIONS						
名称Name	单位The unit\型号The type	BR16-UNT-13B	BR16-UNT-25B	BR26-UNT-38B	BR26-UNT-45B	BR26-UNT-54B
生产能力 Production capacity	t/h	1	2	3	4	5
换热面积 Change the hot area	m ²	13	25	38	45	54
物料进口温度 Temperature that the supplies are imported	℃	5	5	5	5	5
物料出口温度 The supplies export temperature	℃	5	5	5	5	5
杀菌温度 Disinfect temperature	℃	137	137	137	137	137
保温时间 Temperature retention time	S	4	4	4	4	4
冰水进口温度 Temperature that the frozen water os imported	℃	1	1	1	1	1
冰水倍数 Frozen water multipe		3	3	3	3	3
热水倍数 Frozen water multipe		1.2	1.2	1.2	1.2	1.2
蒸汽进口压力	Mpa					
接口尺寸Size of interface	mm	∅38	∅38	∅38	∅51	∅51
设备重量 The weight of the equipment	Kg	980	1050	1450	1680	1750
外型尺寸 Layman's size	mm长宽高	150-1500×1800	2200-2000×1800	2400-2000×2200	2600-2000×2200	2800-2000×2200

Water Treatment System

TECHNOLOGIES

Reverse Osmosis Ultra-filtration Nani-filtration ion Exchange Softening

APPLICATIONS

Beverage & Beer Bottled Mineral & Pure water Chemistry & Medicine Electric & Coating





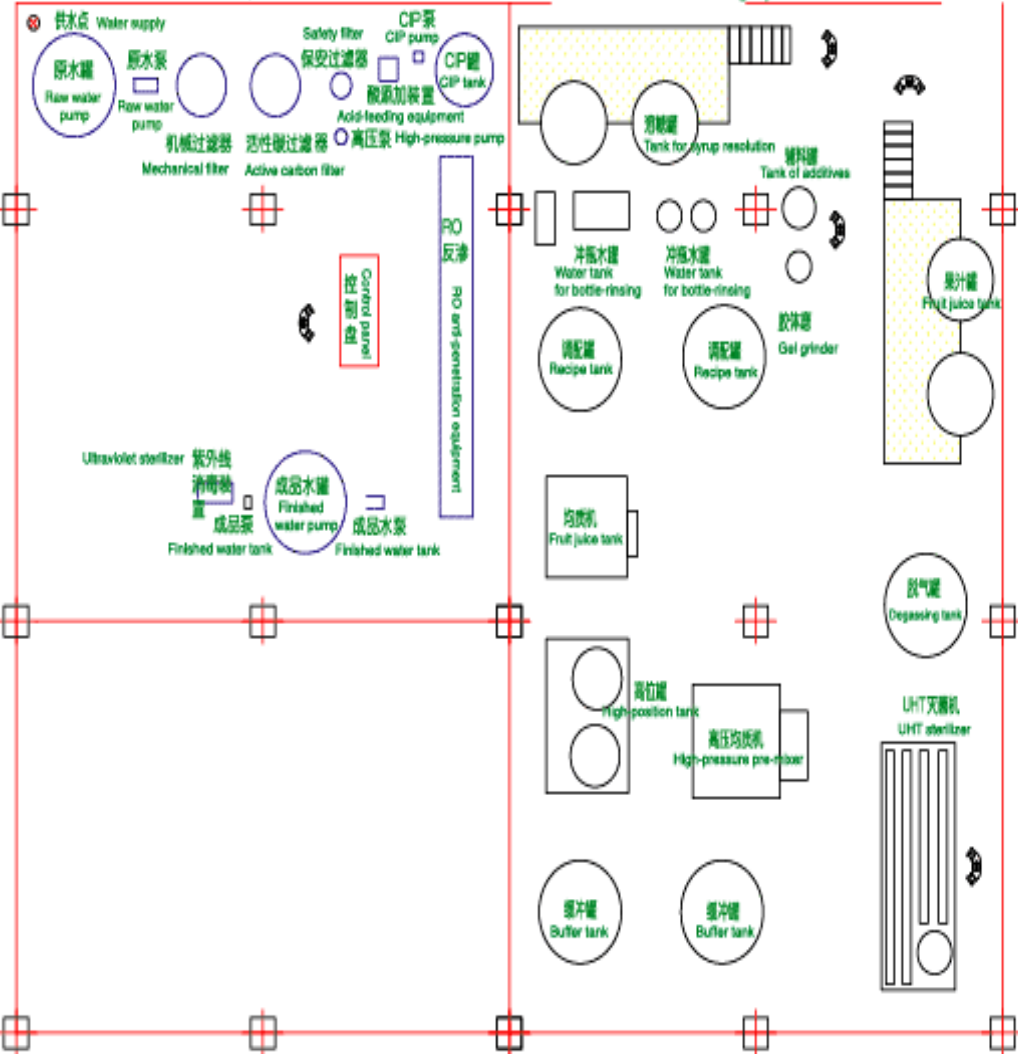
Drinks filling production line with capacity of 24,000 B/H



Typical Process Flow Chart

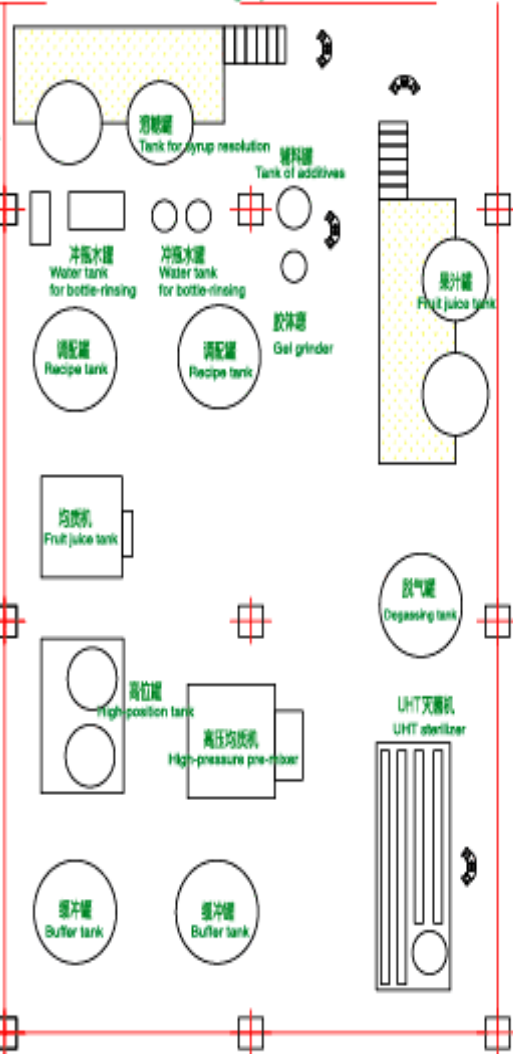
水处理部分

Water treatment department



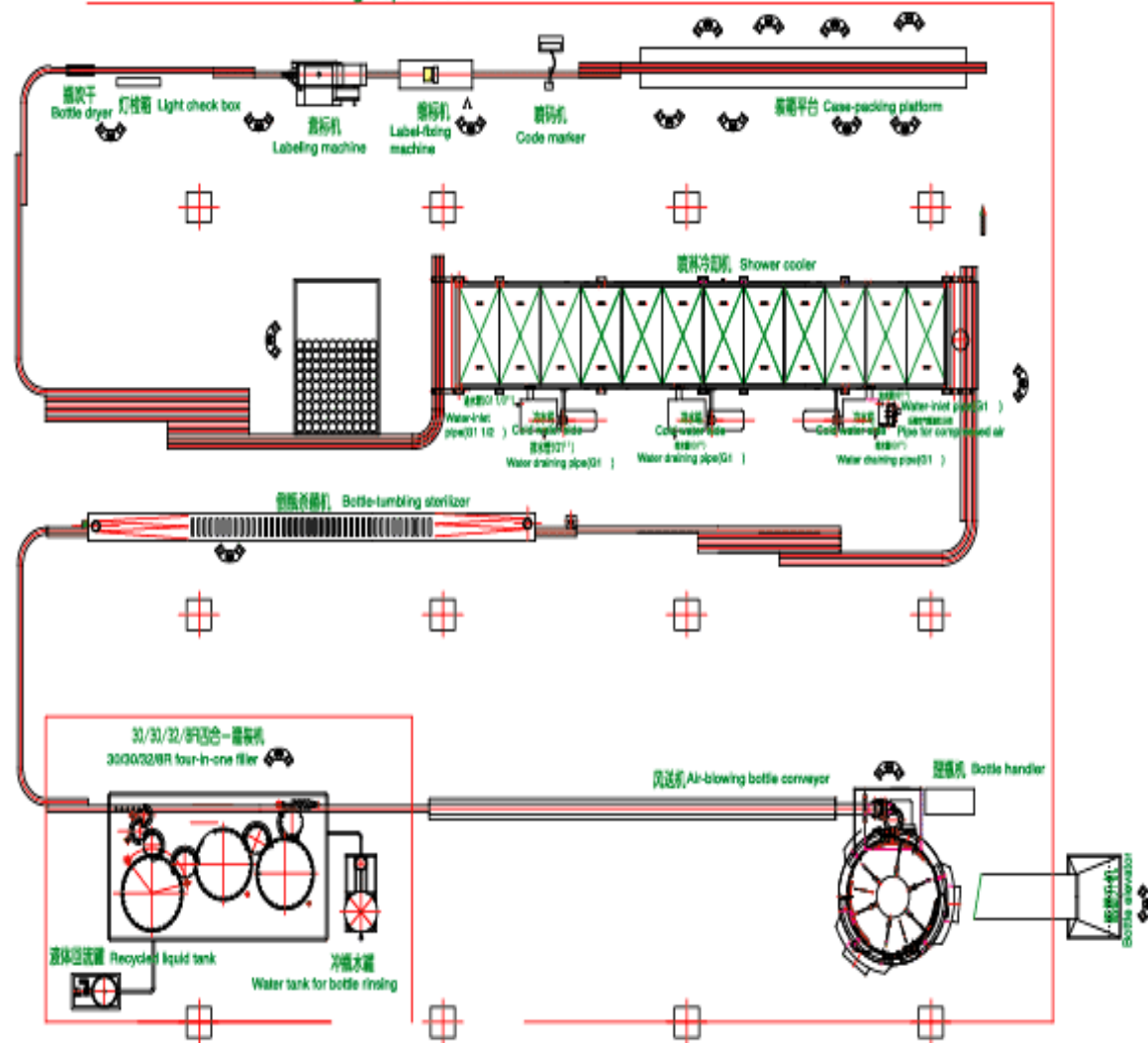
调配系统

Premixing system



包装工段

Packing department



**THE PRODUCTION LINE FOR FILLING
SPARKLING LIQUID FOR BOTTLE
(2,000-10,000 B/H)**



DGP18/18/6 WASHING,FILLING AND CAPPING MACHINE



DGP 18/18/6 washer-capper monoblock is automatic liquid packaging equipment.

This monoblock is suitable for packaging sparkling and non-sparkling liquid such as fruit juice and mineral water. etc.

Main Features:

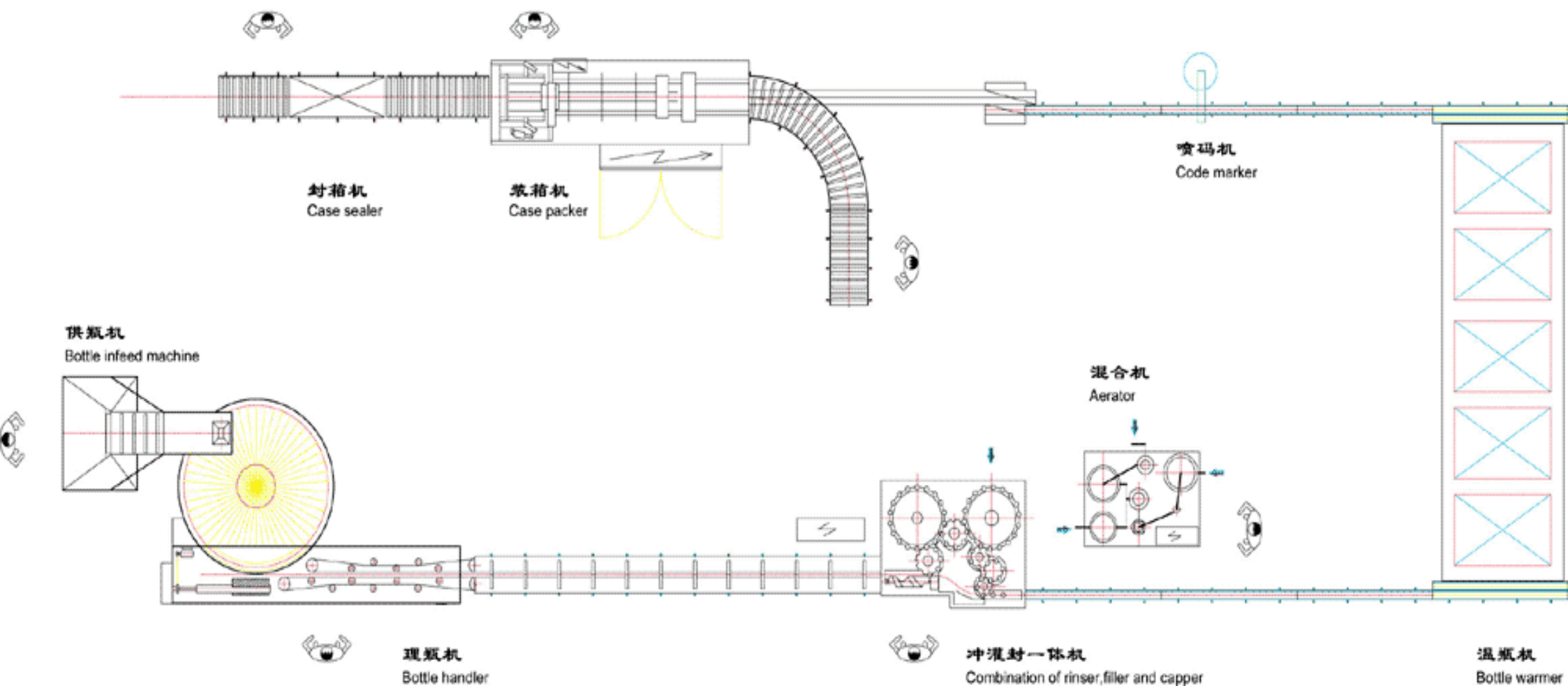
- Filling tank, filling valves and all parts contacting the liquid material are made of high-quality stainless steel or non-toxic materials, which meet the requirements of food hygiene.
- The sealing parts are made of heat-resistant rubber, meet the technology requirements of high temperature sterilization.
- Adopts PLC realized automatic control of whole operation.
- Adopts frequency control of motor speed, convenient for equipment adjustment.
- Adopts the isobaric filling principle and the popular spring filling valve to guarantee the products quality



设备型号	DGP30/32/8	DGP18/18/6
公称生产能力: (Production capacity)b/h	10000	5000-6000
适用瓶径: (Bottle diameter) (mm)	60-88	60-88
适用瓶高: (bottle height)	180-300	180-300
电机功率: (Motor Power) (KW)	4.25	2.4
整机质量: (Gross weight) (kg)	6500	4000
外形尺寸: (Dimensions) (mm)	3200×2500×2570	2190×1842×2400

碳酸饮料三位一体机生产线流程图

Flow chart of three-in-one production line for carbonated drinks



The production line is suitable for packaging sparkling & non-sparkling liquid

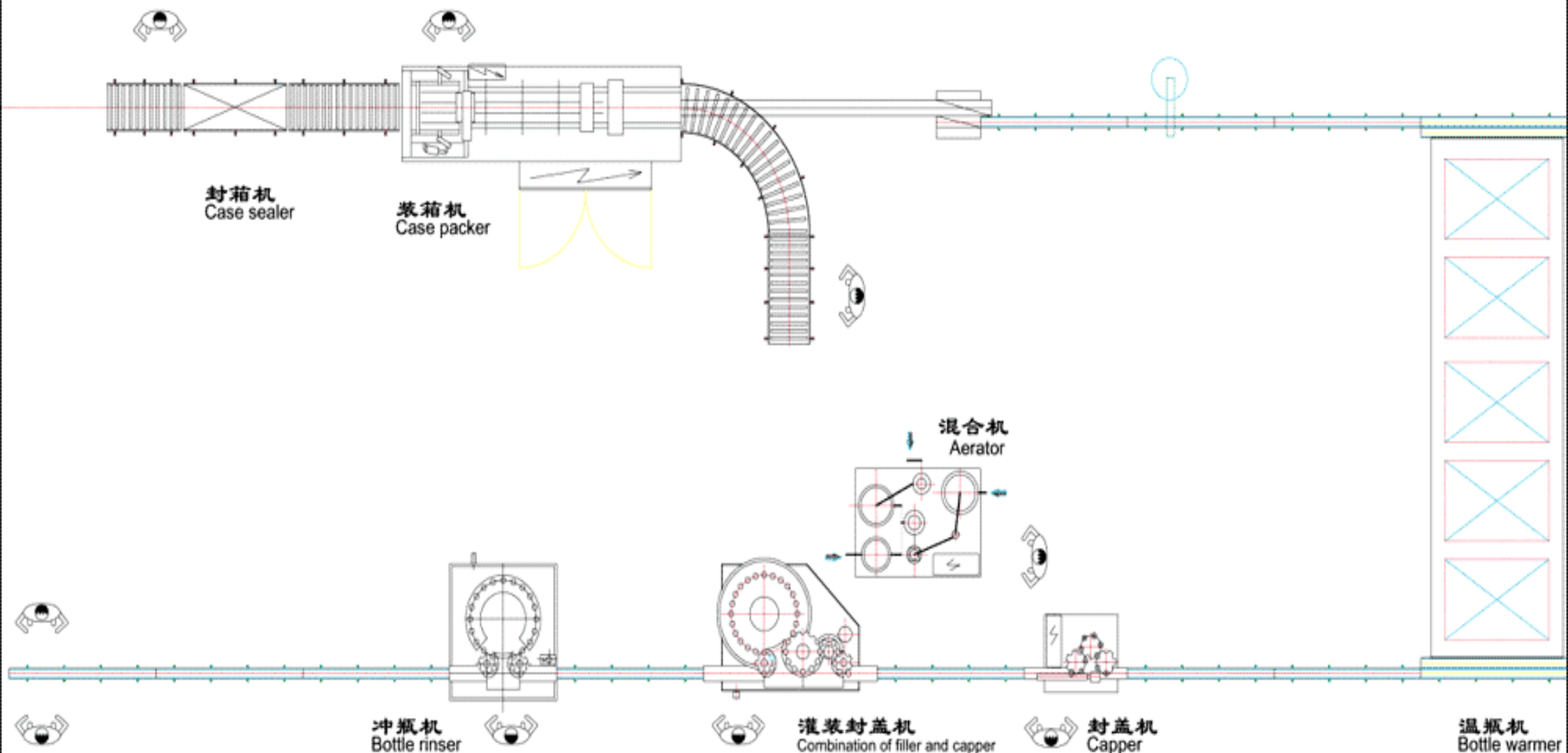
The capper can cap crown caps and plastic bur-glarproof caps. The filling valve adopts isobaric filling principle. Besides, it adopts programmable controller and frequency control of motor speed. The production line is consisted of bottle washer, filler, capper, mixer, ink-jet printer and bottle heating machine. Its nominal capacity is 2000--10,000BPM.



设备型号: (TYPE)	DGP24/6	DGP16/6	DGP12/6
公称生产能力: (Production capacity)b/h	8000	6000	4000
适用瓶径: (Bottle diameter) (mm)	60-88	60-80	60-80
适用瓶高: (Bottle height)	180-300	180-300	180-300
电机功率: (Motor Power) (KW)	2.2	1.75	1.35
整机质量: (Gross weight) (kg)	3500	2500	2000
外形尺寸: (Dimensions) (mm)	2970×1570×2620	2300×1300×2300	1970×1030×2220

碳酸饮料两位一体机（玻塑两用）生产线流程图

Flow Chart of Two-in-one production line for carbonated drinks
((PET/Glass Bottles))



QS Bottle Washer

Be used to wash polyester bottles. Make bottle spotless and sanitation.



主要技术参数 Main Specifications			
型号: (Model)	QS20	QS30	QS32
公称生产能力: (Production capacity)b/h	6000	10000	12000
适用容量: (ml)	600-1500	600-1500	600-1800
电机功率: (Motor Power) (KW)	1.1	1.7	2.0
耗水量 (t/h)Motor power	1.5	2.0	2.5
整机质量: (Gross weight) (kg)	2500	3200	3700
外形尺寸 (长×宽×高): (mm)Dimensions (L×W×H)	1450×1600×1800	1850×1900×1850	2020×2020×1850

Carbon dioxide filter

The filter is used to separate oil, oxidate, absorb and filter liquid carbon dioxide which contained in a container, to improve the purity of the liquid carbon dioxide for meeting the drink producing demands.



型号 Model	LCG-100	LCG-200	LCG-300
过滤功能: (kg/h) Filtering ability	30	60	100
过滤纯度: Filtering purity	99.8%	99.8%	99.8%
耗气功率: (kw) Motor power	2.5	2.5	2.5
整体质量: (kg) Gross weight	230	400	500
外形尺寸: (长×宽×高) (mm) Dimensions (L×W×H)	1350×750×1750	1450×800×2400	1950×800×2400

Bottle warmer



温瓶机主要技术参数

型号	LHK-3A	LHK-3B	LHK-3C	LHK-3D
生产能力 (b/h)	4000	6000	8000	18000
加热温度	37~45°C	37~45°C	37~45°C	37~45°C
网带宽度 (m)	1.22	1.22	1.5	2.0
电机功率 (KW)	3.55	5.15	7.75	10.25
耗汽量 (Kg/h)	120	150	250	350
设备净重 (Kg)	2500	3000	3500	4300
外形尺寸 (mm)	4000×2200×1700	6000×2200×1700	6000×2500×1700	8000×3000×1600

GAS, WATER AND SYRUP MIXER

Be used to produce carbonic acid drink Can mix water, syrup and Carbon at one time, Adopts programmable controller. Besides, it has the function of cleaning without movement. The machine also can be used to dilute beer and to produce gasified alcoholic drink.



型号: (TYPE)	HS12	HS6	HS3	HS2
公称生产能力: (Production capacity)b/h	12	6	3	2
糖浆与水混合比 (Mixing proportion between syrup and water)	1:3-1:10	1:3-1:10	1:3-1:10	1:3-1:10
电机功率: (Motor Power) (KW)	12	6	4.1	2.5
整机质量: (Gross weight) (kg)	1500	1750	1500	600
外形尺寸: (Dimensions) (mm)	3000×1800×2800	2300×1380×2100	1900×1350×2300	1650×1140×2060

OPEN-EASY CAN FILLING PRODUCTION LINE (4,800-18,000 CAN/H)



GDG CAN FILLER & CAPPER



GDG can filler is Used to fill drinks with gas (such as beer. Carbonic acid drinks) into two pieces aluminum can.

FEATURES

- ✚ Surface of machine & the parts contacting the foods materials are made by high-quality stainless steel, guaranteed beautiful appearance and requirements of foods hygiene.
- ✚ Passive drive guarantee filler in synchronism with capper.
- ✚ Filling valve adopts automatic spring valve.
- ✚ Using mechanism float control liquid level. Reliable operation, easy working & maintenance.
- ✚ Power put-in interface of machine can connect with various capping machine, this filler combines with imported 6 heads capper, production capacity can be adjusted through capper.



主要技术参数 (Main Specifications)		
型号 Type	GDG32	GDG18
公称生产能力 (C/h) Production capacity	15000-18000	4800
灌装阀数 Filling valve	32	18
灌装温度 (°C) Filling temperature	0-4	0-4
适用罐型 Can type	355ml	355ml
灌装压力 (Mpa) Filling pressure	0.25-0.35	0.25-0.35
压缩空气汽源压力 (Mpa) Compressed air pressure	0.6	0.6
整机质量 (Kg) Gross weight	3500	2400
外形尺寸 (mm) Dimensions	2000 × 1710 × 1600	1900 × 1360 × 1650



GT4B2A,GT4B2D Automatic vacuum capper

The GT4B series capper are used to cap the open-easy can with single capping device, the capper has vacuum system, it can aspirate the air in the can, so the material's warranty period can be prolonged. They are the better choice for medium-small factory.



主要技术参数 (Main Specifications)		
型号 Type	GDG32	GDG18
公称生产能力 (C/h) Production capacity	15000-18000	4800
灌装阀数 Filling valve	32	18
灌装温度 (°C) Filling temperature	0-4	0-4
适用罐型 Can type	355ml	355ml
灌装压力 (Mpa) Filling pressure	0.25-0.35	0.25-0.35
压缩空气汽源压力 (Mpa) Compressed air pressure	0.6	0.6
整机质量 (Kg) Gross weight	3500	2400
外形尺寸 (mm) Dimensions	2000×1710×1800	1900×1380×1850

FBG4A Capper

This capper which is used to cap both the three-pieces and two-pieces can adopt Italy technology, it has four capping devices and frequency conversion controlling. In the same variety equipment, it is the easiest one for operating, adjusting and repairing.



主要技术参数 (Main Specifications)

型号	FBG4A
生产能力 (罐/分)	30-220
封罐头数	4
使用范围: 直径	52.5-72.4mm
使用范围: 高	39-160mm
电机功率 (Kw)	4
整机质量 (Kg)	2300
外型尺寸 (mm)	1500 × 1200 × 1980

FY-380 Open-easy Can Capper Unit

This machine is used to fill non-sparkling liquid (such as fruit juice, tea drink & vegetable juice, etc.) into three-pieces metal can.

FEATURES

- Surface of machine & the parts contacting the foods materials are made by high-quality stainless steel, guaranteed to filler by capper PLC controller, guarantee filler in synchronism with capper.
- Production line has simple construction, and easy to be disassembled & rinsed.
- Frequency conversion speed regulator.



主要技术参数 (Main Specifications)		
型号	FY-380	FY-12H
生产能力 (罐/分)	300-350	800
封罐头数	36	60
适用罐高	52-300	45-200
适用罐径	53-110	49.5-65
电机功率 (kw)	由接口机输入	
整机质量 (kg)	2800	3550
外型尺寸 (mm)	1720×1860×1900	2730×1905×1800

主要技术参数 (Main Specifications)		
型号	FY-6H	FY-12H
生产能力 (罐/分)	300-350	800
封罐头数	6	60
适用罐高	52-300	45-200
适用罐径	53-110	49.5-65
电机功率 (kw)	7.5	22.5
整机质量 (kg)	3000	3700
外型尺寸 (mm)	2800×1000×2400	1450×1220×2180

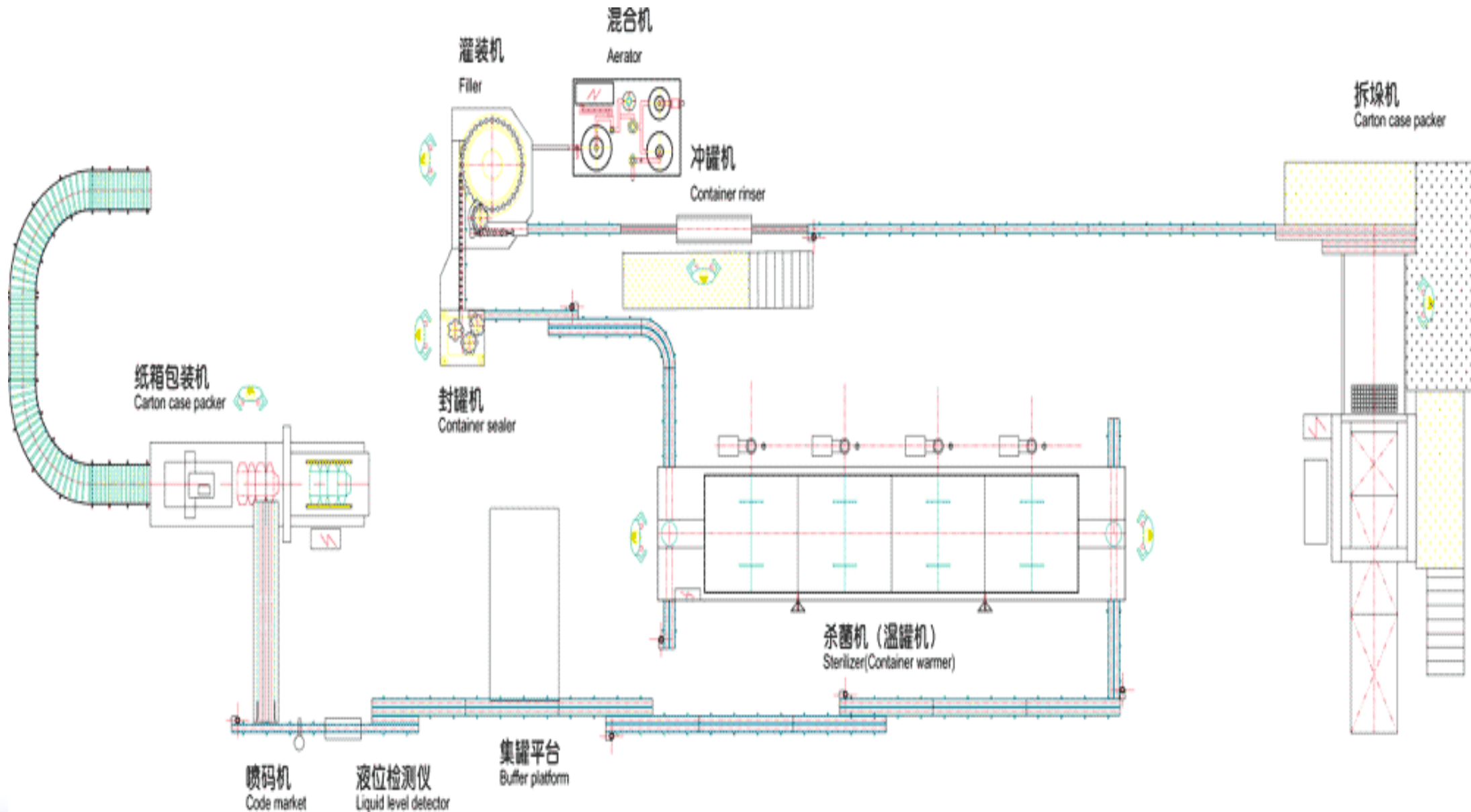
Automatic pallet unloader



主要技术参数 (Main Specifications)

型号	CD1
生产能力	200-300罐/分
适用罐型	206/211 200/202
装机容量	6kW
电源要求	380V 3N 220V
外形尺寸	6000X1800X3800mm
重量	1500kg
作用	空罐卸垛

Typical Flow Chart



BLOWING MACHINE



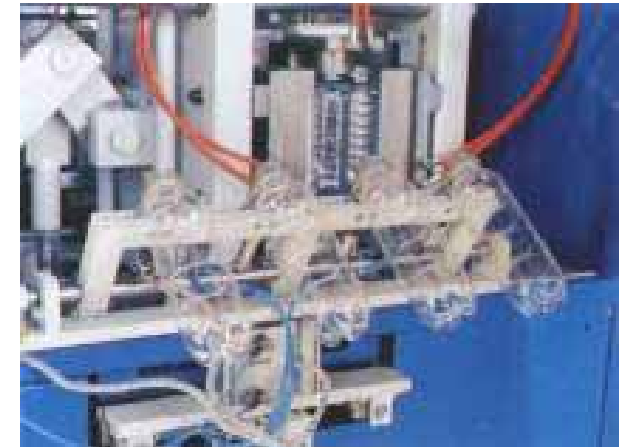
CS-8A BLOWING MACHINE

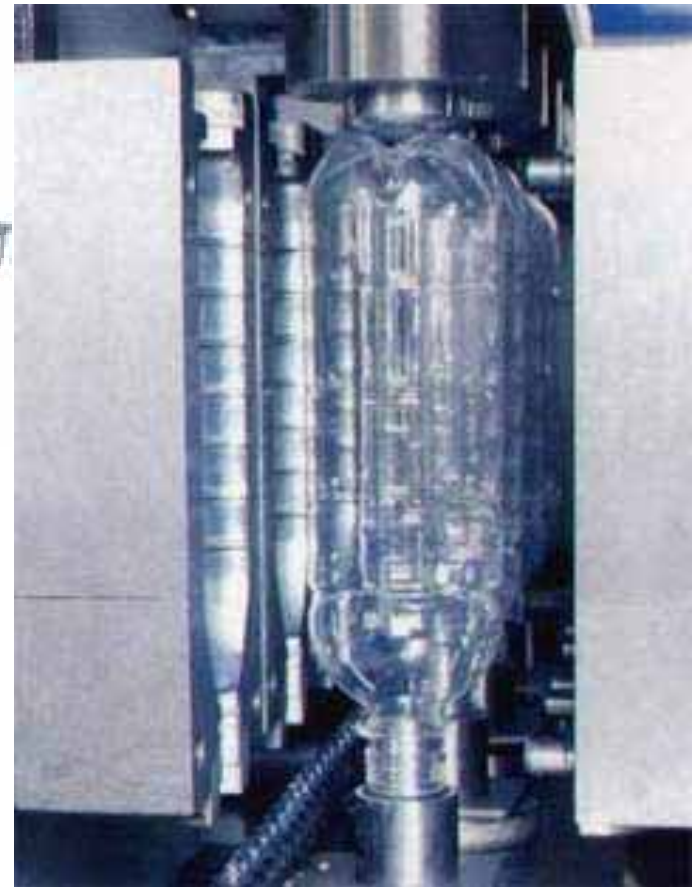


Flexible & Highly-Efficient Bottle-Making Equipment

CS-8A automatic tow-way stretching & blowing machine is used to produce High-quality PET bottles (0.2-1.5L),Cs-8A nominal capacity is 3000-6000 BPH,Cs-4A nominal capacity is 2000-4000 BPH.

This machine has linear structure and adopts advance PET processing technology. Moreover, it adopts digital temperature control unit, ensured precise heating temperature and good products quality.





Blowing Machine

Features of equipment

Reliable

It has compact & reasonable structure, safety protection system. long life and least consumption.

Advanced processing technology ensured constant & good quality.

Unique structural design guaranteed the highly-efficient production.

Automatic Operation

Control elements adopts the products of MITSUBISHI

Control panel control all operation functions, all parameters are stored in machine and can be recorded and modified at all times to improve product's quality.

Reduce the costs

Due to adopt digital temperature control system and complete stretching, so the material distribution is more optimized.

Safety

Before machine running, it will give an alarm to guarantee the worker's safety

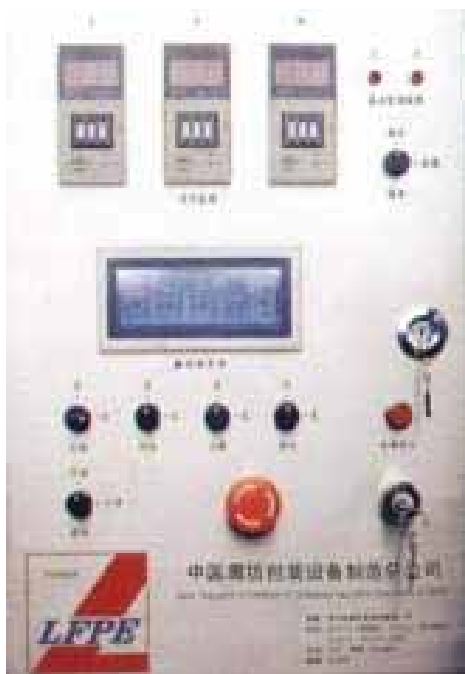


耐高温PET吹瓶机技术参数

项目\型号	CS4A One mould four Cavities	CS6A One mould six Cavities	CS8A One mould eight avities	CS12A One mould twelveavities
瓶口结晶	不限	不限	不限	不限
耐热程度	85°C-92°C	85°C-92°C	85°C-92°C	85°C-92°C
保存时间	7天	7天	7天	7天
制品容量	300-1500ml	300-1500ml	300-1500ml	300-1500ml
生产能力	1600-2400b/h	2000-3000b/h	2400-3800b/h	4000-6000b/h
瓶坯厚度	最大4.5mm	最大4.5mm	最大4.5mm	最大4.5mm
瓶坯长度	50-160mm	50-160mm	50-160mm	50-160mm
吹塑直径	35-90mm	35-90mm	35-90mm	35-90mm
吹塑高度	120-320mm	120-320mm	120-320mm	120-320mm
装机容量	30kw	38kw	48w	50w
使用功率	25-70%	25-70%	25-70%	25-70%

普通PET吹瓶机技术参数

项目\型号	CS4A One mould four Cavities	CS6A One mould six Cavities	CS8A One mould eight avities	CS12A One mould twelveavities
制品容积	300-1500ml	300-1500ml	300-1500ml	300-1500ml
生产能力	2000-3600b/h	3000-5600b/h	4000-7000b/h	6500-9600b/h
瓶坯壁厚	1.2-4mm	1.2-4mm	1.2-4mm	1.2-4mm
瓶坯长度	50-160mm	50-160mm	50-160mm	50-160mm
吹瓶直径	35-90mm	35-90mm	35-90mm	35-90mm
吹瓶高度	120-320mm	120-320mm	120-320mm	120-320mm
外形尺寸	2.3m×1.9×m3.0m	2.7m×2.5×m3.0m	3.0m×2.9×m3.0m	3.0m×3.4×m3.0m
机器重量	3500kg	4400kg	5000kg	6000kg
吹气压力	1.6-4.0mpa	1.6-4.0mpa	1.6-4.0mpa	1.6-4.0mpa
工作压力	0.8-1.0mpa	0.8-1.0mpa	0.8-1.0mpa	0.8-1.0mpa
使用电压	380v	380v	380v	380v
装机容量	24kw	30kw	36kw	24kw
使用功率	25-70%	25-70%	25-70%	25-70%
模具冷却	1p	3p	5p	8p
润滑指标	35-60#	35-60#	35-60#	35-60#
通用材料	PET	PET	PET	PET



Features of PMER6A Type fully Automatic Rotating Type Bottle Blowing Machine

Rotary type bottle blowing is of high speed, high efficiency and good quality with rate of finished product as high as above 99.5%

- SIEMENS controllers are adopted for electrical control system with high control precision and fast response.
- German air-blowing valves and cylinders are adopted for the air blowing system with steady and accurate stretching speed,
- Specially designed mold system and high-speed mold assembling device for reliable mold assembling and fast mole replacement.
- Infrared lamp tubes originally manufactured by PHILIPS Company are adopted for the heating system.
- Automatic feedback compensation control is adopted for the control of heating system to ensure the consistency to ensure the consistency of the temperature of the heating stove and the evenness and stableness of the heating up of the bottle blank.
- German SEW main motor and frequency converter to ensure stable rotating speed and working reliability.



	最大生产率	瓶子容量	瓶子高度	吹瓶(压缩空气压力)	动作(压缩空气压力)	最大耗气量	冷却水温度	冷却水流量	冷却水压力	总功率(最大)	使用功率	重量
单位	个/小时	ml	mm	kg/cm ² kg/cm ²	m ³ /min	m ³ /min	°C	m ³ /h	kg/cm ²	kg/cm ²	KW	T
PMR6A	6000-7000	≤2000	≤290	35-40	6-8	8-12	10-12	10-12	10-12	10-12	10-12	9
PMR8A	8000-9200	≤2000	≤290	35-40	6-8	12-16	8-10	12	5-6	200	90	9.5

CS Series Semi-automatic Bottle-blowing Machine

CS series semi-automatic bottle-blowing machine is the latest type launched by LFPE, which comprises two working stations and one control cabinet with simple structure and reliable properties. The perfect PET processing expertise enhances the machine's flexibility and easiness for operation. Reliable temperature adjustment makes it more accurate to set the temperature of bottle blank, and makes the material distribution more reasonable when the bottle blank is being blown, ensuring both bottle quality and cost-saving.

Features:

- ◆ Bottle blank heating---Bottle heating by simulating control for the uniform temperature distribution on bottle blank.
- ◆ Stretch air-cylinder for bottle blowing--- The air-cylinder is equipped with a guide rod, which ensures the stretching bar to move in an accurate way and positions precisely the bottom center of the finished bottle.
- ◆ Method of mold lock---Mold are locked through crank arm, the mold-locking strength of the crank arm is 17-50T with micro-adjustment for mold clearance to prevent the mold from offsetting during blowing.
- ◆ All air-cylinders in the machine are assembled with dust-proof ring to prolong the working life.
- ◆ Pneumatic components from Japanese SMC or Germany can be applied to the machine according to customer's requirements.
- ◆ Double-stretch and double blowing with independent control are applied to improve the control accuracy, bottle quality and qualification rate.
- ◆ Unique infrared rotary heating, 8-section individual adjustment, accurate control, combining with speed-adjustable rotary bottle blank, all these ensure high efficient heating and process stability.



技术参数

产量	1500瓶/小时 (一箱二机)
总功率	19.5kw
使用功率	9.6kw (普通瓶形)
吹瓶压力	1.5-2.5mpa
系统压力	0.6-0.9mpa
耗气量	1.5m ³ /min. 25-30kg
外形尺寸 (长×宽×高)	烤箱1750×610×1200mm 吹瓶机 (单机) 1230×540×1920mm
整机质量	1000kg

AIR CLEANING SYSTEM



Wind-cleaning room



Applications: The wind-cleaning room is the equipment for cleaning the outside of human bodies. It applies high-speed clean air blast to blow off the dust on the people's clothes. And meanwhile, the entrance door and exit door, which are not opened at the same time, work as the air valve to prevent the polluted air from coming into the clean room.



性能 Specification		
指标	单人风淋室FL-1	双人风淋室FL-2
喷嘴数量	12	24
喷嘴出口风速	20±2	20±2
风淋时间	0-60	0-60
外形尺寸L×W×H(mm)	1700×750×2200	1700×1500×2200

Cleanliness in the clean room

For purpose of good quality and high production yield, it is critical to create a clean working environment. The working room with standard cleanliness is called industrial clean room.



空气洁净度级别		
等级	每立方米空气中 $\geq 0.5\mu\text{m}$ 尘粒数	每立方米空气中 $\leq 5\mu\text{m}$ 尘粒数
100级	$\leq 35 \times 100$	
1000级	$\leq 35 \times 1000$	≤ 250
10000级	$\leq 35 \times 10000$	≤ 2500
100000级	$\leq 35 \times 100000$	≤ 25000

Assembled clean room

The assembled clean room's structure is established with cleaned light compound metal plates, which is designed according to a certain module, preprocessed in plant, and assembled at the site where the clean room is setup. the room features beauty, high cleanness and neatness, doesn't accumulate and generate dust, easy for cleaning-up, having good are-tightness, rust resistance, thermal insulation and water-proof.



Functions of clean room

The functions of clean room are :to prevent dust from being generated and coming into the clean room, drain out all dust effectively each time of cleaning. The air is processed through 3 grades of filtrations before coming into the clean room, i.e. primary grade, medium grade and high grade, more than 99.91% of dusts with size more than $0.3 \mu\text{m}$ are filtered off, and all the germs adhering to the filtered dusts are kept out of the clean room.



MACHINE FOR BACTERIA-FREE SOFT BAG MAKING, FILLING AND BAG SEALING



Technology Advantages



- Our machine is up to the national standard “Acceptance Standard of Liquid Food packaging Equipment” such as aseptic degree filling precision, microbiological indicator and aseptic filling chamber. (The national standard is drawn up)
- Adopts imported pneumatic diaphragm valve, which meet GMP standard.
- Pipelines that contact liquid material are welded adopting TIG welding technology is up to GMP standard.
- Filling chamber is sealed and equipped with 100 degree heating air-purifier and equipped with digital microbarograph.
- The films that for packaging is sterilized by hydrogen dioxide solution and ultraviolet rays, and then dry out the films by hot air. Through spray jet, use hydrogen dioxide solution to sterilize the filling chamber before and after filling operation.
- The heated hydrogen dioxide solution circulating system can keep solution’s temperature and certain potency.
- Optoelectronic switch detect and control packaging film’s conveying, forming, longitudinal sealing, horizontal sealing and putting together. Servomechanism can adjust packaging film automatically.
- Individual CIP system is used for sterilizing washing with aqueous alkali, acid liquor, aseptic water and high-temperature steam. There is no dead space and valves that can affect sterilization effect.
- Using PLC and variable-speed motor.

Main Specification and Service Conditions

Main Specifications:

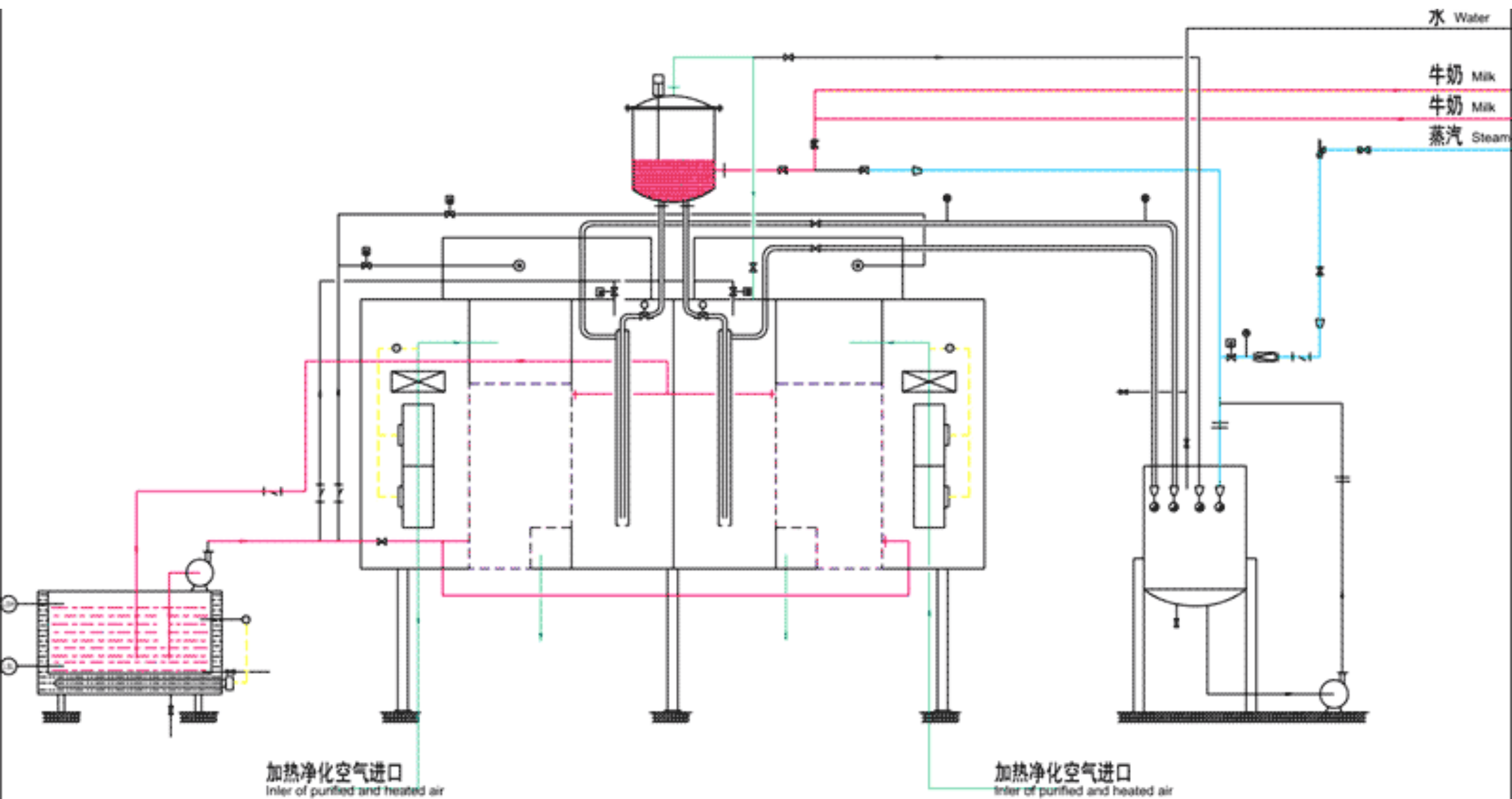
- Packaging film: 260mm or 320mm oxygen-stop and photophobic film.
- Designed production capacity: 60 ~ 80 bags per minutes.
- Total power: ~ 18kW
- Total weight: ~ 2500kg

Service Conditions:

- Liquid material must be sterilized with UHT and meet the sanitation requirements of aseptic degree filling of national standard “Acceptance Standard of Liquid Food packaging Equipment”.
 - 2 bar sterilization steam.
 - 6 ~ 7 bar dry and non-oil air.
- Equipment should be placed in 10000 degrees air-purifying room, and should fit air exhausting unit



主要技术参数	
适用包材	260mm或320mm阻氧避光膜
设计生产能力	60-80袋
总功率	18KW
总重量	2500kg



工作原理图
Working principle diagram

ROTARY COMBINATION OF ELECTRONIC SCALE, FILLER AND SCREW CAPPER



EWA 36/9 rotary combination of electronic scale, filler and screw capper



Technical features

- ◆ Hygienic product tank, valves and pipes
- ◆ All parts in direct contact with the product are built with stainless steel AISI 316
- ◆ The filler has perfect built-in CIP adaptive system
- ◆ The machine is equipped with reliable COP system to wash off foam
- ◆ The filling and capping section is enclosed in the positive-ventilating room, in which the air cleanliness is class 100
- ◆ Patented bacteria-free filling valve (Patent No.: 200320100017.1); the weight signal controls the solenoid to open or close the filling valve; the product falls into the empty container by force of its' gravity; there's no sharp corners in the filling valve so that the optimum flow of the product is achieved
- ◆ High accurate electronic weighing system, which carries out weighing process with independent devices; on-line weighing in each cycle, with automatically excluding empty container weight and weight reading, automatically dealing with end liquid and automatic weight correction, is not affected by air temperature, air humidity and air flow, etc.; automatic alarm for troubles in filling, and high filling accuracy with a resolution of 1 gram
- ◆ Electronics: PLC of Siemens S7--300 series, the operator's interface is represented by the Yan Hua industrial personal computer with software of Siemens STEP7V5.2 and WINCC V5.1, which can provide reports for production rate and management, set the value for automatic weighing and on-line check the working situation of each weighing cell
- ◆ The cap infeed system comprises elevator, cap-handler, cap-sterilizing system which carries out killing the bacterium on caps with disinfectant, cap-washing with bacteria-free water, cap-drying with bacteria-free air before the caps are fed to the capper
- ◆ The bottles are first fumigated, sprayed and soaked with disinfectants, then washed with bacteria-free water and then dried out before entering the filler, the bottle transfer is conducted entirely within the bacteria-free space



型号	生产能力	容器容量	灌装头数	封盖头数
EWA36/9	100瓶/分	2L-3L	36	9
EWA24/6	50瓶/分	2L-3L	24	6
EWA-8	25瓶/分	2L-3L	8	单位(1)

主要用途: 适用于灌装果汁、奶等的无菌低温灌装, EWA36/9电子称量, 灌装封盖机可灌装各种液态油、清洗剂、药液、化妆品等。

Overseas Projects



Service

- **Advanced and reliable technology & engineering**
- **Procurement, manufacture, and delivery of the goods**
- **Project management**
- **Construction, installation, and commissioning**
- **Technical service**
- **Training program**
- **Service after completion of the project**
- **Financing assistance and export credit**
- **Other services and functions upon request**

CREATE THE FUTURE



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