



# 饮料生产线解决方案

*Bottle Beverage Packaging Solutions*



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## C 公司简介 COMPANY PROFILE

张家港众冠机械有限公司地处长江三角洲地区新兴的港口工业城市——张家港市，地理位置优越，水陆交通便利。公司是集合研发，制造，销售为一体综合性饮料瓶装包装机械制造商。

公司主要产品有：饮用纯净水、矿泉水、碳酸饮料、果汁、茶饮料、奶类、酒类及液体调味品等食用液体的瓶装、罐装、桶装成套生产线和水处理设备,并承揽交钥匙工程。

公司始终坚持以市场为导向，科技为龙头，质量为主线，服务为保障，已通过ISO9001-2000质量保证体系认证以及欧盟产品安全合格CE认证。公司视质量为企业生命，我们将这一理念贯穿到生产各个环节，不断创新，努力超越来实现产品品质最优化，为客户提过卓越的设备是我们不懈努力的目标。

创新设计，精细制造

为全球客户提供优质的产品和服务

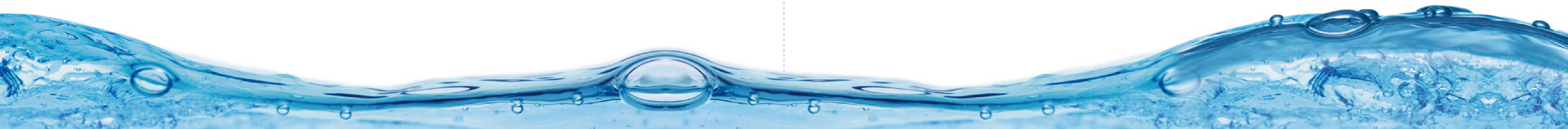
Zhongguan Machinery Co.,Ltd is located in Zhangjiagang city, one hour trip from Shanghai city. Tecomat is a professional filling & packaging solution manufacturer from China, dedicated to manufacture kinds of filling & packaging equipment & water treatment system for beverage & food field.

### Our Main Products:

- PET Bottle Drinking Water Filling Line
- PET Bottle Fruit Juice Filling Line
- PET Bottle Carbonated Soft Drink Filling Line
- Glass Bottle Beer/Spirits/Vodka/Wine Filling Line
- 3-5Gallon Barrel Drinking Water Filling Line
- RO/UF Water Treatment System
- Beverage Processing System
- PET Bottle Blow Molding Machine
- Hot Melt Glue/Shrinking/Self-adhesive Labeling Machine
- Film Shrinking/Carton Packaging Machine
- Air/Belt Chain/Roller Conveyor System

Professional & Concentration

To provide equipment and services worldwide



# XGF 瓶装饮用水灌装线

## Drinking Water Filling Line

品质  
Quality

服务  
Service

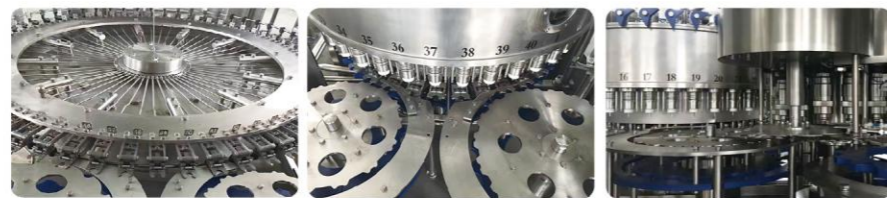
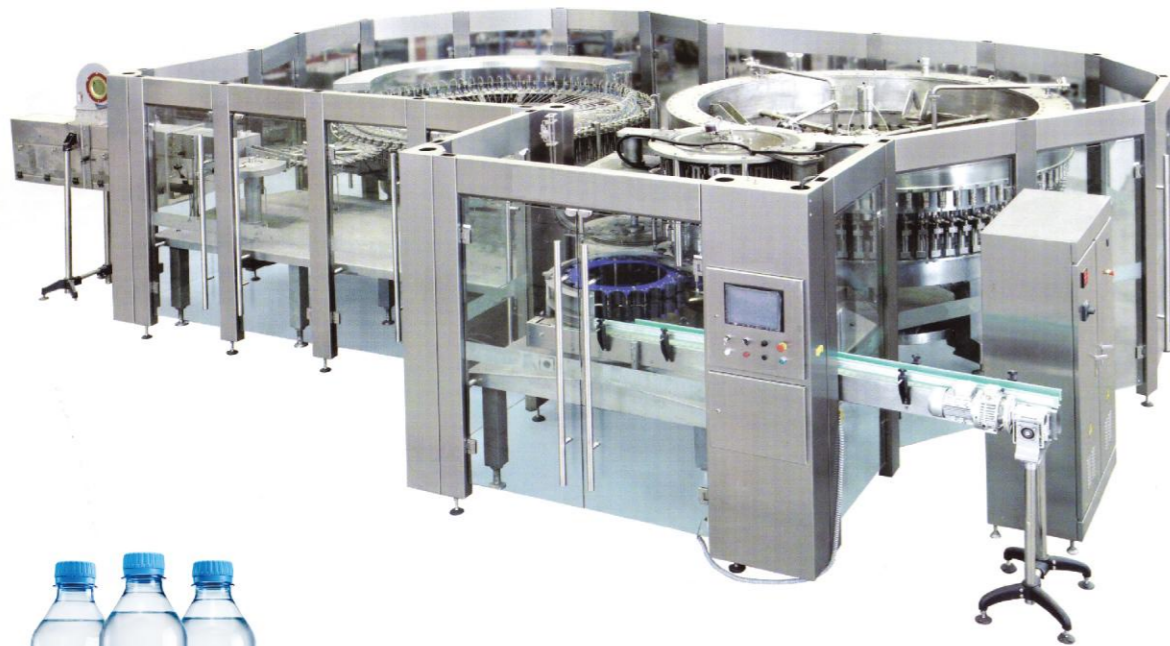
高效  
Efficiency



### 产品描述 / Product Description

用于纯净水、矿泉水等不含气饮料生产的XGF、XXGF三合一、四合一系列，产量2000-42,000瓶 / 小时，可供用户选择。

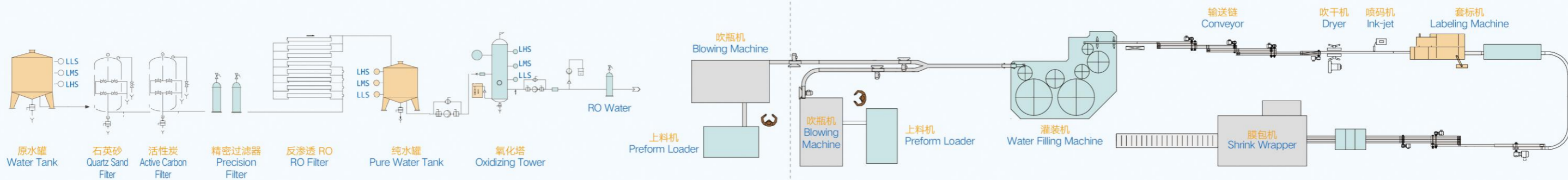
XGF, XXGF series apply to the production of non-carbonated drink as pure water and mineral water, with optional capacity from 2000 BPH to 42,000 BPH.



### 主要技术参数 / Main Technical Parameters

型号 Type	冲瓶头数 Washing Nos	灌装头数 Filling Nos	封口头数 Capping Nos	生产能力 Capacity	外形尺寸(mm) Measurement	装机容量 Power
XGF8/8/3	8	8	3	2000BPH	2000x1500x2500mm	1.5kw
XGF14/12/5	14	12	5	5500BPH	2360x1770x2700mm	2kw
XGF16/16/5	16	16	5	8000BPH	2850x2150x2750mm	2.2kw
XGF24/24/8	24	24	8	12000BPH	2880x2180x2750mm	2.2kw
XGF32/32/8	32	32	8	15000BPH	3380x2580x2750mm	3kw
XGF40/40/10	40	40	10	18000BPH	4430x3280x2750mm	7.5kw
XGF50/50/15	50	50	15	24000BPH	4720x3550x2750mm	7.5kw
XGF60/60/15	60	60	15	30000BPH	6000x5450x2750mm	11kw
XGF72/72/18	72	72	18	36000BPH	6500x4680x2750mm	15kw
XGF80/80/22	80	80	22	42000BPH	7800x6380x2750mm	19kw

### 工艺流程图 / Flow Chart



# DXGF 系列碳酸饮料灌装线

## Carbonated Soft Drink(CSD) Filling Line

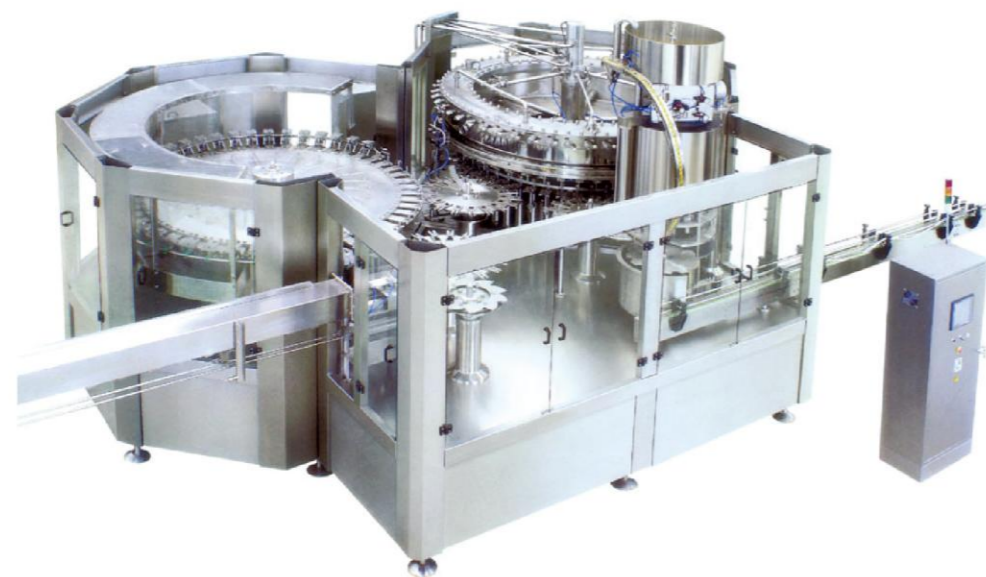
品质 Quality    服务 Service    高效 Efficiency



### 产品描述 / Product Description

用于含汽碳酸饮料生产的DXGF、DGF系列，产量2000-28000瓶/小时可供用户选择。

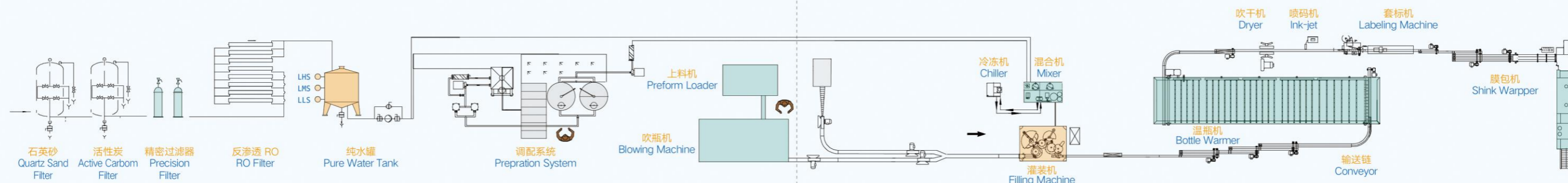
DXGF,DGF series apply to the production of carbonated soft drink,with optional capacity from 2,000 BPH to 28,000 BPH.



### 主要技术参数 / Main Technical Parameters

型号 Model	冲瓶头数 Washing Nos	灌装头数 Filling Nos	封口头数 Capping Nos	生产能力 Capacity	外形尺寸 Measurement	装机容量 Power
DXGF8/8/3	8	8	3	1000BPH	2000x1500x2500mm	1.5kw
DXGF14/12/5	14	12	5	3500BPH	2360x1770x2700mm	2kw
DXGF16/16/5	16	16	5	5000BPH	2760x2060x2700mm	2.2kw
DXGF24/24/8	24	24	8	8000BPH	2800x2230x2700mm	3kw
DXGF32/32/8	32	32	8	12000BPH	4215x2960x2700mm	4kw
DXGF40/40/10	40	40	10	15000BPH	4360x3300x2700mm	7.5kw
DXGF50/50/12	50	50	12	18000BPH	5900x3300x2700mm	7.5kw
DXGF60/60/15	60	60	15	21000BPH	5770x5288x2700mm	11kw
DXGF72/72/18	72	72	18	28000BPH	6540x4900x2700mm	11kw

### 工艺流程图 / Flow Chart



# RXGF 系列热灌装线

## Fruit Juice Hot Filling Line

品质  
Quality

服务  
Service

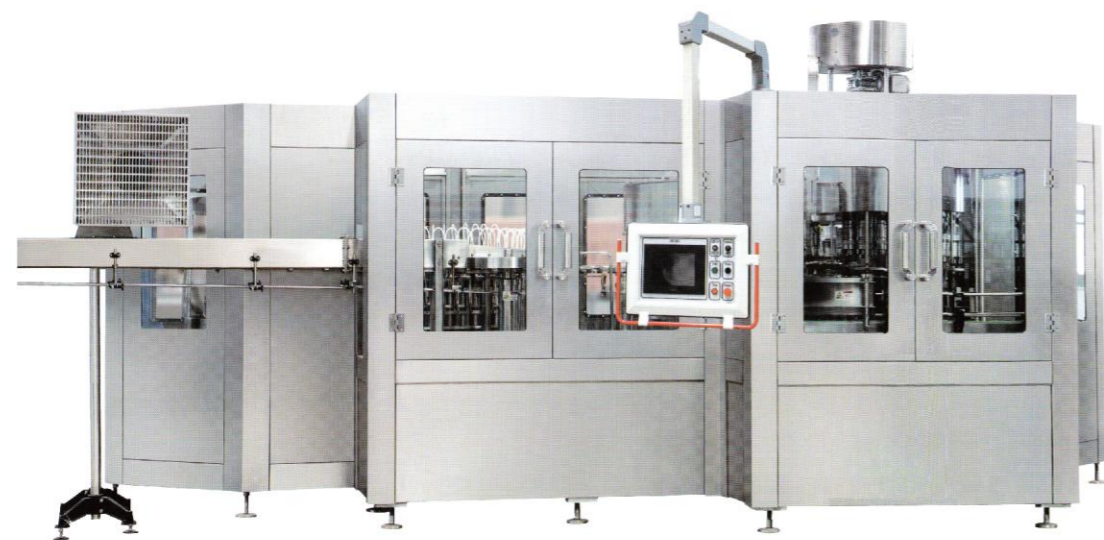
高效  
Efficiency



### 产品描述 / Product Description

用于茶、果汁饮料等生产的RXGF、RXXGF 三合一、四合一热灌装系列，产量2000-28,000瓶/小时可供用户选择。

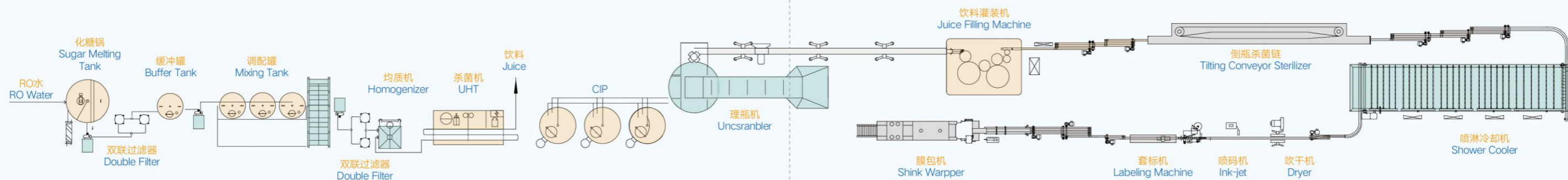
RXGF 3-in-1Unit and RXXGF 4-in-1Unit applies to the production of tea and juice, with optional capacity from 2,000 BPH to 28,000 BPH.



### 主要技术参数 / Main Technical Parameters

型号 Type	冲瓶头数 Washing Nos	灌装头数 Filling Nos	封口头数 Capping Nos	生产能力 Capacity	外形尺寸 Measurement	装机容量 Power
RXGF14/12/5	14	12	5	3500BPH	2360x1770x2700mm	2kw
RXGF16/16/5	16	16	5	5000BPH	2760x2060x2700mm	2.2kw
RXGF24/24/8	24	24	8	8000BPH	2800x2230x2700mm	3kw
RXGF32/32/8	32	32	8	12000BPH	4215x2960x2700mm	4kw
RXGF40/40/10	40	40	10	15000BPH	4360x3300x2700mm	7.5kw
RXGF50/50/12	50	50	12	18000BPH	5900x3300x2700mm	7.5kw
RXGF60/60/15	50	60	15	21000BPH	6100x5815x2700mm	11kw
RXGF72/72/18	72	72	18	28000BPH	6540x4900x2700mm	11kw

### 工艺流程图 / Flow Chart



# QGF 3加仑、5加仑桶装饮用水生产线

## 3-Gallon, 5-Gallon Water Filling Line

品质  
Quality

服务  
Service

高效  
Efficiency



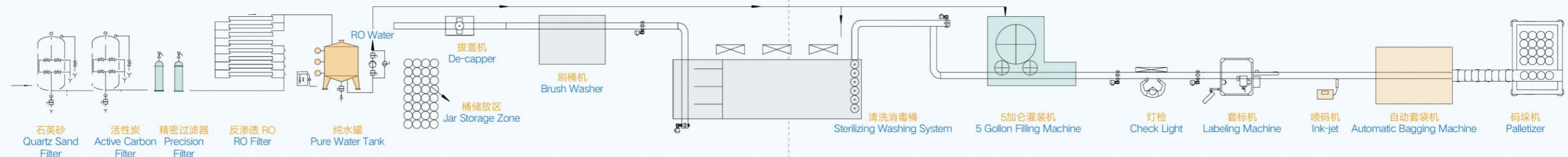
### 产品描述 / Product Description

用于5加仑、3加仑桶装饮用水生产的TXG系列，产量100-2000桶小时，可供用户选择。另可按用户需要配置自动拔盖机、自动捡漏机、内外桶刷清洗机、自动上盖机，热收缩机等。

TXG series apply to 3-Gallon, 5-Gallon water production, with optional capacity from 100b/h to 2000b/h. Customerized service includes automatic cap puller, internal and external barrel scrubber, cap elevator and heat shrinker, etc.



### 工艺流程图 / Flow Chart





### 产品描述 / Product Description

BXGF系列啤酒灌装机采用内置式机械阀，双导杆对中，具有液位精度高、两次抽真空，设计合理、简洁等特点。

Tecreat's beer filling machine has convenient operation, maintenance and high degree of autoimmunization realized by PLC, it adopts internal mechanical valve centered by double guide rod, high fill level accuracy, double vacuumizing, it is the ideal machine for beer brewery.



### 主要技术参数 / Main Technical Parameters

型号 / Type	BXGF12	BXGF24	BXGF32	BXGF40
生产能力 / Capacity: 600ml	3000BPH	6000BPH	8000BPH	12000BPH
特点 / Features	真空激泡系统 / Equipped with vacuum& foaming system			
瓶身尺寸 / Glass Bottle: (mm)	(Bottle Diameter): φ50-φ110mm (Height): 150-340mm			
瓶盖 / Cap	金属瓶盖 / Metal crown cap			
灌装形式 / Filling Form	等压 (二次抽真空) / Fsoaric ( Double Evacuation )			
功率 / Main Power (KW)	12kw	15kw	18kw	21kw
尺寸 / Overall size	2450*1800*2350mm	2780*2200*2350mm	3600*2650*2350mm	3800*2950*2400mm
重量 / Weight	4500kg	6000kg	8500kg	10500kg

# WXGF 5L、10L PET瓶灌装生产线

5L / 10L Drinking Water Filling Line

- 品质 Quality
- 服务 Service
- 高效 Efficiency

## 产品描述 / Product Description

本机为5L-10L 瓶装水定制，产量1000-3000瓶/小时。

This machine is special made for bottles between 5L-10L PET bottles, with capacity from 1000-3000BPH.



# DXGF(T) 系列玻璃瓶碳酸饮料灌装线

Carbonated Glass Bottle Drink Filling Line

- 品质 Quality
- 服务 Service
- 高效 Efficiency

## 产品描述 / Product Description

用于含汽碳酸饮料生产的DXGF(T)系列，产量3000-30000瓶/小时可供用户选择。

DXGF(T) series apply to filling carbonated beverage. It realizes the functions of rinsing, filling, capping of aluminum caps or crown caps.





# GF 系列高精度定量灌装线

## High Precision Volumetric Filling Line

品质  
Quality

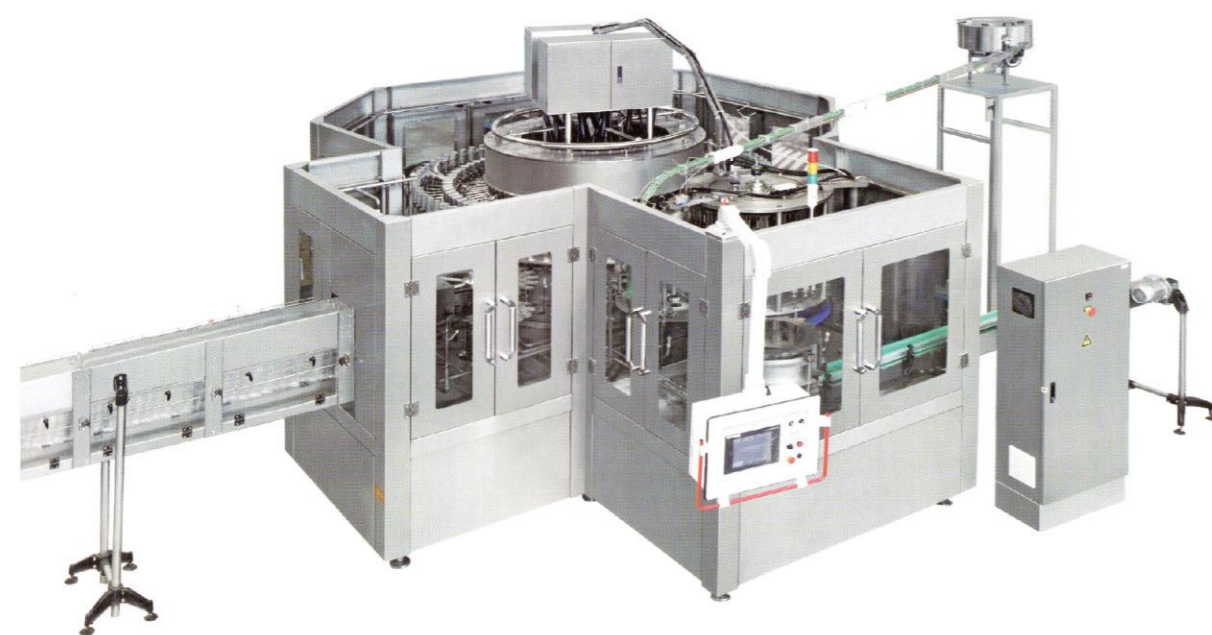
服务  
Service

高效  
Efficiency

### 产品描述 / Product Description

GF系列二合一灌装机集全自动灌装、封盖于一身，适用于各种食用油、果汁、调味品等产品。产量由3000到40000瓶/小时可供用户选择。

GF Series 2-in-1 filling machine is automatic filling and capping. Capacity varies from 3,000 BPH to 40,000 BPH.



# WJG 易拉罐灌装线

## POP Can Drink Filling Line

品质  
Quality

服务  
Service

高效  
Efficient

### 产品描述 / Product Description

用于生产各种饮料，如果汁、茶、含气饮料、啤酒等。产量100-500罐/小时可供客户选择。

This machine is used to produce different kinds of beverage, such as tea, juice, carbonated soft drink, beer, etc. Capacity from 100 BPM to 500 BPM.



# DPL 倒瓶杀菌机

## Bottle Inverse Sterilizer Machine

品质 Quality 服务 Service 高效 Efficiency

### 产品描述 / Product Description

倒瓶杀菌机主要用于PET聚酯瓶包装的果汁、茶等饮料热灌装后对瓶口瓶盖内壁未经杀菌或高温处理的部分进行杀菌。机身采用SUA304材料制作美观大方、使用方便。产量5000-36000瓶/小时，杀菌时间15-40秒可供用户选择。

It is mainly used in sterilizing PET bottle mouth and inside surface of caps. In which haven't been disinfected by thermal tea, Fruit juice which having been filled in PET bottle. The machine is fully made of SUS304 stainless steel, more convenient in operation. Productivity: 5000-36000 bottles/hour, sterilizing time: about 15-40 seconds.



# 输送系列

## Conveyor System

品质 Quality 服务 Service 高效 Efficiency

### 产品描述 / Product Description

链板输送、滚筒输送、滚珠输送、网带输送、皮带输送

#### 产品特点:

输送系统是一条生产线重要组成部分，而控制点和控制时间设定恰当，与各主机之间通信联络合理，使其自动化程度更高，运行更平稳，对提高单机和整线效率提供了有力保障。

- 模块化设计
- 输送平稳可靠
- 电器控制先进
- 高效平面设计理念

Conveyor system include: chain conveyor, roller conveyor, ball conveyor belt conveyor.

#### Features:

- Modular design
- Stable & reliable
- High-Grade automation
- High efficiency



# PLJ 喷淋冷却隧道

## Spray Cooling Tunnel

品质 Quality 服务 Service 高效 Efficiency

### 产品描述 / Product Description

本机用于耐热聚酯瓶茶饮料、热灌装、聚酯瓶碳酸饮料灌装生产线，可使高温灌装的茶饮料降温至36-40℃。产量5000-36000瓶/小时，喷淋时间约15-20分钟。

This machine can reduce the temperature of hot filling drinks to 36°C-40°C, or increase the temperature of cold filling carbonic acid drinks to 36°C-40°C. It is used in PE bottles hot tea drinks and carbonic acid drinks hot filling production line. Productivity: 5000-36000 bottles/hour, spray time: about 15-20 minutes.



# 风送系列

## Air Conveyor System

品质 Quality 服务 Service 高效 Efficiency

### 产品描述 / Product Description

风送系统是将吹瓶机后的PET空瓶送入到灌装机。

#### 特点:

- 模块化设计，高自动化性能。
- 所有风机带防尘罩。
- 防震调节器可以将噪音调到≤70 db
- 主材料304不锈钢，护栏用耐磨型高分子材料。

Air Conveyor System is used to convey the empty PET bottles to the filling line.

#### Features:

- Modular Design with high automation.
- Air blower is settled with primary air filter to prevent the dust coming into the bottle.
- The blast regulator guarantees stable transmitting, noise ≤70 db (one meter away)
- Main Frame SUS304, The guardrail is supra polymer wear rib to prevent the damage.



# TBL 系列直线式吹瓶机

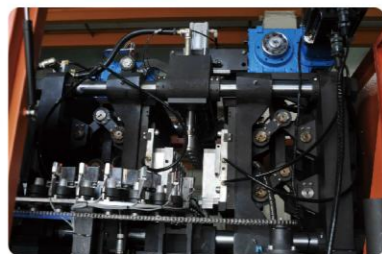
## Linear Type Blow Moulding Machine

品质 Quality    服务 Service    高效 Efficiency

### 产品描述 / Product Description

全自动PET饮料瓶吹瓶设备，产量1000-12,000瓶/小时，故障率低，能耗低，效率高，维修保养方便，节省占地空间。

Automatic PET Bottle Blow Moulding Machine with Capacity 1000-12,000BPH.



# 套标机 / 贴标机

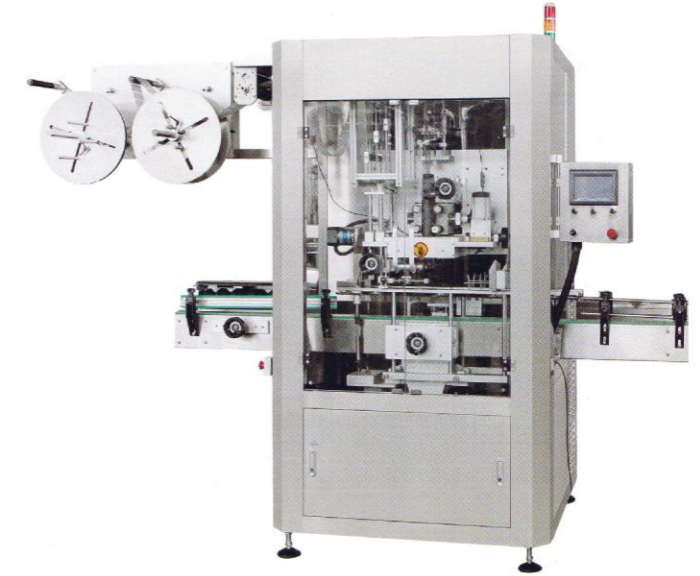
## Label Sleeving Machine & OPP Labeling Machine

品质 Quality    服务 Service    高效 Efficiency

### 产品描述 / Product Description

适用于各种瓶型的果汁、茶饮科、乳制品、纯净水、调味品、啤酒、运动饮料等食品饮料行业。产量6000—48000BPM.

It also employs internationally advanced technology of the same kind. It applies to food & beverage industries as fruit juices, tea drink, dairy products, pure water, condiments, beer and sports drink and all kinds of other bottle types.



# 全自动回转式热熔胶贴标机

## Automatic Hot Melt Glue Labeling Machine

品质 Quality    服务 Service    高效 Efficiency

### 产品描述 / Product Description

该机适用于连续卷标的粘贴，采用局部涂胶方式，胶消耗量小，运行成本低，生产能力可以达到30000瓶/小时。

This machine is suitable for sticking the continuous rolled labels, using part gluing methods in small glue consumption and low running costs, and production capacity can reach 36,000 bottles / hour .



# BS 系列全自动热收缩包装机

Full Auto Hot Shrink Packaging Machine

品质  
Quality

服务  
Service

高效  
Efficiency

## 产品描述 / Product Description

专为饮品(纯净水, 饮料, 果汁, 乳制品)提供PE收缩膜包装设备。

Specially designed and manufactured for the packing requirements of drinks (pure water, beverage, fruit juice, and milk product).



## 机器人装箱、码垛

Robot (Packing, Palletizing)



# UHT 全自动杀菌机系列

Automatic Pasteurizer Series

品质  
Quality

服务  
Service

高效  
Efficiency

## 管式 / UHT Tubular-type

全自动多管式超高温瞬时杀菌系统为全自动化PLC控制, 产量有3-20吨/小时可供选择。该机分四个自控单元: 预杀菌自控单元、正常生产单元、水循环自控单元、CIP清洗自控单元。针对低酸性产品灌装工艺要求和水的温差控制, 系统配有封闭的过热水预杀菌系统, 杀菌高效可靠, 生产前后的CIP和SIP系统设计, 满足生产设备的清洗和杀菌要求。

本套全自动管式超高温瞬时杀菌系统关键部件均选用世界著名厂商:ALFALAVAL, APV, SPIRAX, SARCO, SIEMENS, FESTO等产品。



Pipe-type UHT is PLC controlled,with optional capacity from 3t/hr to 20t/hr. The whole system is automatically controlled in four units,pre-sterilization, normal production, water recycling and CIP. With technical requirement for acidic products and temperature control for water, sealed pre-sterilization system for ultra-high temperature water is equipped to ensure high efficiency. CIP and SIP are designed for the demand of cleaning and sterilization.

Main components are from world famous suppliers as Alfa Laval, APV, SPIRAX, SIMENS, FESTO, etc.

## 板式 / UHT Plate-type

板式超高温瞬时杀菌系统为智能化PLC自动控制, 产量有3-20吨, 小时可供选择。系统将板片工作段分为无菌工作段和针对饮料低温、中温、高温、热灌装的工艺要求, 选用七段换热机组的工艺设计, 有效的利用热源, 将能耗降到最低, 完善一般工作段, 的CIP和SIP系统设计, 满足生产设备的清洗和杀菌要求。物料杀菌升温加热和灌装出口温度的调整, 均采用过热水作介质, 温控精度高。

本套自动板式超高温瞬时杀菌系统, 关键部件均选用世界著名厂商: ALFALAVAL, APV, SPIRAX, SARCO, SIEMENS, FESTO 等产品。



Plate-type UHT is PLC controlled, with optional capacity from 3t/hr to 20t/hr. The system works in aseptic section and normal section, for the technical requirements of filling at low temperature, normal temperature and high temperature. The seven-section heat exchanger ensures minimum consumption of energy, and perfect design of CIP and SIP satisfies the demand of cleaning and sterilization. Ultra-high temperature water is employed as the media for the heating of materials and temperature adjustment of filling exit, featuring high accuracy.

Main components are from world famous suppliers as Alfa Laval, APV, SPIRAX, SIMENS, FESTO, etc.

## 产品描述 / Product Description

用于含汽碳酸饮料混合的WYH系列，产量2-15吨小时可供用户选择，二氧化碳含气倍数:3.8-4.5

WYH series apply to the mixing of carbonated drink, with optional capacity from 2t/hr to 15t/hr, CO<sub>2</sub> content: 7.6-9g/lit



## 主要技术参数 / Main Technical Parameters

生产能力 (范围) Capacity(range)	水、糖浆的混合比范围 Mixing ratio range for water and syrup	产品含气量 (范围) Air content of product(range)	成品温度 Product temperature
3-25 t/h	3:1-10:1	2.5-4.5倍	4-7℃

设置工作条件 (标准供给):  
Equipment working conditions(standard supply)

饮用水 (净化水) Drinking Water (purified water)	糖浆 (或果汁等) Syrup (or fruit juice, etc.)	碳酸气 (CO <sub>2</sub> ) Carbon dioxide (CO <sub>2</sub> )	压缩空气 Air Compression	冷媒 (冷水) Refrigerant(ice)
0.20-0.25MPa 常温 (Normal Temperature)	0.10-0.15MPa 常温 (Normal Temperature)	0.8-1.0MPa	0.60-0.8MPa	0.20-0.30MPa -1℃-0℃

## 产品描述 / Product Description

众冠为食品饮料工业用水、饮用纯净水、矿泉水、饮料、啤酒、白酒、保健品等用水厂商提供全面、可靠的水处理设备。

- 1、多介质预滤过滤器 (石英砂过滤器、活性炭过滤器、精密保安过滤器) (1--200吨/小时)
- 2、软水器 (1--200吨/小时)
- 3、反渗透纯水设备 (1--100吨/小时)
- 4、超滤矿泉水处理设备 (1--200吨/小时)

### Water Treatment Equipment

Zhongguan manufactures the comprehensive and reliable water treatment equipments for the beverage plant, bottled water plant, beer, wine, suppliers.

1. Multi-media pre-filter (PP sediment Filter, Activated Carbon Filter, PP Sediment High Precision Filter) (Capacity: 1—200M3/Hour)
2. Water Softener (Capacity: 1—200M3/Hour)
3. Reverse Osmosis (RO) Pure Water Equipment(Capacity: 1—100M3/Hour)
4. UF Mineral Water Equipment(Capacity: 1—200M3/Hour)



## 产品描述 / Product Description

饮料前处理系统主要应用于热灌装、含气饮料灌装的前处理成套设备。主要包括热水系统、溶糖系统、辅料系统、调配系统、CIP系统、萃取系统、各类储罐、阀门、管件、UHT系统（板式/管式）、混比机（手动/自动）。

Beverage Processing System is used for hot filling, CSD beverage filling. It contain professional design of processing flow, qualified sanitary pipe and fittings, precise gauges, and electrical components.

System include:

Hot water system, sugar dissolving system (simple syrup system), concentrate system, blending system (final syrup system), CIP system, extraction system, kinds of storage tank/ valves/ pipe/fittings, UHT system (plate/ tubular type), and Co2 mixer (manual/ automatic).



## 成功案例

Customer Cases

