

Product Description

Filling Machine



SHANGHAI QINGJI BEVERAGE MACHINERY CO.,LTD.

Focus on fruit and dairy processing



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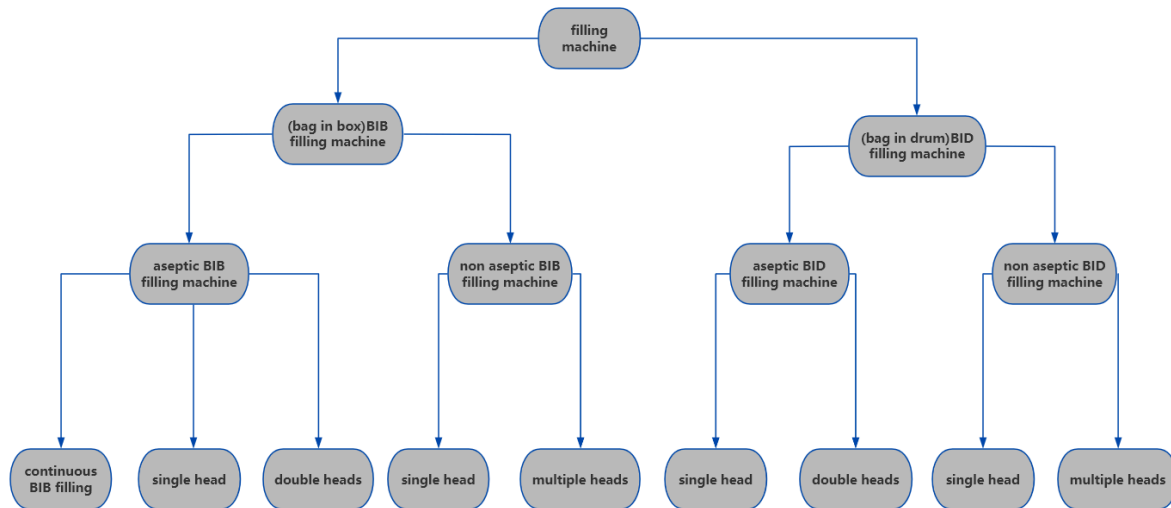
SHANGHAI QINGJI BEVERAGE MACHINERY CO.,LTD

上海轻技饮料机械有限公司

Fruit / Dairy Processing Machinery

果蔬乳品加工设备

▶▶▶ How to choose a filling machine



▶ Main Categories:

- Aseptic filling and non-sterile filling
- Semi-automatic and fully automatic
- continuous bags and single bag

▶ Selection Basis:

- Processing capacity and filling volume
- Material viscosity and pH
- Bag materials and valve tips
- filling temperature and storage conditions
- On-site sterilization equipment

▶ Selection and Parameters:

Name	Model	Capacity	Bag volume	Size
Aseptic filler	YGT-AF-1	500-3000L/h	2-220L/1400L	2500*2200*2500mm ³
(Bag in drum)	YGT-AF-2	1000-6000L/h	2-220L/1400L	4200*2200*2500mm ³
Aseptic filler (Bag in box)	YGT-AF-BIB1	500-2000L/h	1-25L	1200*1000*1900mm ³
	YGT-AF-BIB2	1000-5000L/h	1-25L	2500*1000*1900mm ³
	YGT-AF-BIBC	200-360bag/h (10L)	1-25L	4100*1200*2300mm ³
BIB filling machine (Bag in box)	YGT-BIB-1	80-200bag/h (10L)	1-25L	800*960*1600mm ³
	YGT-BIB-2	100-250bag/h (10L)	1-25L	2000*960*1600mm ³

► Model Structure Difference

Model structure	Feature	illustration
<p>YGT-BID-1</p> <p>Non-aseptic BID filling</p>	<ol style="list-style-type: none"> 1.non-sterile chamber 2.No temperature control system 3.Simple pipe connection 4.The filling head has a lifting function to achieve filling of 1-220l 	
<p>YGT-BIB-1</p> <p>Non-aseptic BIB filling machine</p>	<ol style="list-style-type: none"> 1.Compared with the previous two models, it not only does not have a sterile warehouse, but also does not have functions such as automatic bag supply and bag separation. Generally, single-bag packaging materials require manual bag supply to complete the entire process of filling, sealing, and output. 2.non-sterile chamber 3.No temperature control system 4.Simple pipe connection 	
<p>YGT-AF-1</p> <p>Single head aseptic filling machine 1-220L big bag</p>	<ol style="list-style-type: none"> 1.Mostly used in factories to produce export products. 2.The use of roller sliding makes it easier to transport and handle products. 3.The filling method mostly adopts the flow meter measurement method. 4.Sterility is achieved through a sterile warehouse, and bags are manually delivered to complete the entire process of filling, sealing, and output. 	
<p>YGT-AF-2</p> <p>Double-head aseptic filling machine 1-220L big bag</p>	<ol style="list-style-type: none"> 1.The extra filling head speeds up liquid filling to a great extent. 2.Both heads work simultaneously to prevent material backflow. 	

Model structure	Feature	illustration
<p data-bbox="87 497 287 533">YGT-AF-BIB1</p> <p data-bbox="87 577 454 667">Single head BIB aseptic filling machine</p>	<ol data-bbox="566 212 1013 952" style="list-style-type: none"> 1.The essential filling principle remains unchanged, and continuous steam sterilization is achieved through the sterile warehouse to ensure aseptic filling. 2.The use of single-bag packaging materials requires manual bag supply to complete the entire process of filling, sealing, and output. 3.Can withstand the frequency of pouch filling. The unique cavity design makes it easy to quickly repair filling parts, and enables convenient switching between online production and cip. 4.The whole set of actions only takes 4 seconds, which is more efficient. 	
<p data-bbox="87 1160 287 1196">YGT-AF-BIB2</p> <p data-bbox="87 1240 470 1330">Double-head bib aseptic filling machine</p>	<ol data-bbox="566 1164 1013 1321" style="list-style-type: none"> 1.The extra filling head speeds up liquid filling to a great extent. 2.Both heads work simultaneously to prevent material backflow. 	
<p data-bbox="87 1713 287 1749">YGT-AF-BIBC</p> <p data-bbox="87 1794 518 1883">Fully automatic continuous aseptic filling machine</p>	<ol data-bbox="566 1523 1013 2072" style="list-style-type: none"> 1.It occupies a large area, is suitable for large-scale production, and can maintain precise aseptic filling in high-speed operations. 2.Using continuous bag packaging materials, continuous filling is achieved through automatic bag feeding structure. 3.It has a high degree of automation and can automatically complete the entire process of bag delivery, filling, sealing, bagging and output, etc., improving production efficiency and reducing labor intensity. 	

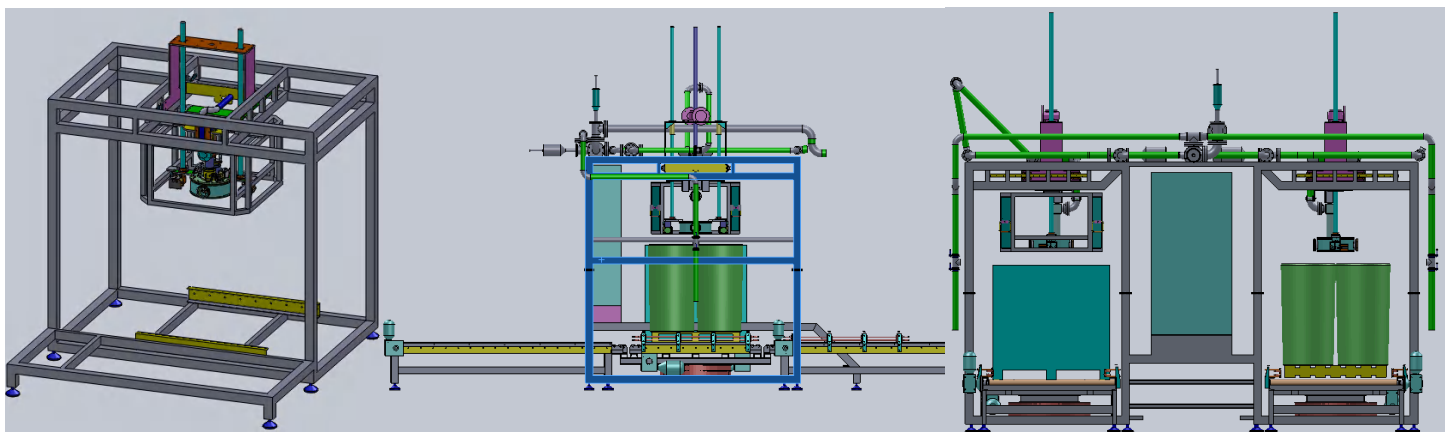
► Configuration

No	Name	Aseptic	Non aseptic
1	PLC	SIEMENS	
2	Touch screen	SIEMENS	
3	Metering Unit	Flowmeter :E+H or Weight scale: METTLER TOLEDO	CHINA
4	Low voltage device	SCHNEIDER	
5	Aseptic Filling chamber	With steam protect	/
6	Temperature sensor	JUMO	/
7	Steam reducing valve	SPIRAX SARCO	/
8	Steam filter	CHINA	/
9	Steam trap	CHINA	/
10	pneumatic solenoid valve	AIRTAC	
11	pneumatic actuator	AIRTAC	
12	Magnetic position sensor	AIRTAC	
13	Detector switch	AIRTAC	
14	pneumatic angle seat valve	CHINA	
15	High pressure sanitary hose	Meet FDA Standard	
16	cabinet box	YGT	
17	Material	SUS304	
18	Transfer pump	/	Optional

►►► 1-220L Filling Machine

► Introduction:

Aseptic filler mainly used in the food and beverage industry to fill products into sterile containers in a way that maintains their sterility. The process involves sterilizing the product, the container, and the filling environment to prevent contamination. This is important for products like fruit juices, dairy products, and tomato paste, where maintaining sterility is essential to ensure safety, extend shelf life, and avoid refrigeration.



► Applications:

Dairy Products: Milk, yogurt, and cream.

Beverages: Fruit juices, flavored water, and isotonic drinks.

Food Products: Tomato paste, purees, and sauces.



► Technical Parameters:

Filling machine for bag in drums , range of 2-220lts.The machine can handle aseptic bag (1" ELPO fitment) with press-on caps.Designed to fill also aseptic bags for 2L sampling purpose.Only air, steam and water are used,no additional chemical product nor sterile gas.

The machine includes the following components:

- Filling heads: SUS304 stainless steel with close filling chamber
- Flowchart for filling action: bag opening- cap remove—filling— cap back for sealing as well as the related sensors to monitor the work stages
- Set of aseptic valves on product infeed side: made of SUS304 stainless steel
- Filling heads lift units: air cylinder/ drive motor
- Washing and sterilization systems matching the aseptic sterilizer SIP & CIP system
- Pressure relief valves for compressed air and steam
- Flowmeter systems by famous brand, to control the filling volume/ or weight sensor
- Temperature monitoring
- Roller conveyor to feed the drums: 750mm wide and apro. X4000m long as per pallet
- Operator' s platform: main frame made of SUS304 stainless steel complete with walking plane, handrail and access ladder
- Electricity cabinet with PLC control for full system

Control system point:

- Pushbuttons for motor start/stop
- Emergency pushbutton
- Cap sensor for detect
- Flow / temperature alarm
- No filling, no steam injection to prevent air into bag
- 2D filling head display, Friendly touch screen for operator

▶ Aseptic Factor:

- **Sterilization of the Product:** The product is sterilized using techniques like UHT (Ultra-High Temperature) treatment before it enters the aseptic filler.
- **Sterilization of Packaging Materials:** The containers, typically like aseptic bag(2-200l), are sterilized using methods such as hydrogen peroxide or irradiation light.
- **Filling Environment:** The filling operation occurs in a sterile environment, often maintained by steam chamber and positive pressure to prevent contaminants from entering and sealed in a way that maintains sterility.

▶▶▶ 1-30L Filling Machine

▶ Introduction:

BIB Filling Machine mainly used in the food and beverage industry for filling liquids into 1-30L containers. The bag has a spout or valve for dispensing the liquid. "Bag-in-Box" packaging consists of a flexible bag housed within a corrugated cardboard box, are commonly used for products like wine, juices, syrups, dairy products, and other liquid foods.

▶ Advantages:

Efficient Storage and Transport: Bag-in-Box packaging is space-efficient and reduces shipping costs.

Reduced Waste: The flexible bags collapse as the product is dispensed, bigger volume reducing leftover product and packaging waste.

▶ Applications:

Beverages: Wine, fruit juices, water, tea, soft drinks.

Dairy: Milk, cream, and liquid dairy products.

Food Products: Syrups, sauces, liquid eggs, and edible oils.



► Different Types:



Semi-Automatic:

Requires labor feed bag and discharge bag, then load into carton box.



Fully Automatic:

Save labor for operation and match with automatically box loading and robot stacking.

► Different Structures:

To Non aseptic Filling:

Filling Head: can be designed for manual or automatic operation to the bag's spout.

Metering: by flowmeter or weight scale to get precisely controls the volume to ensure consistency.

Capping/Sealing: The spout is sealed or capped after filling, ensuring the bag is airtight and leak-proof.

Clamp fitment: with more design to fit different spout like EPLO, VITOP,HOFFER etc for change.

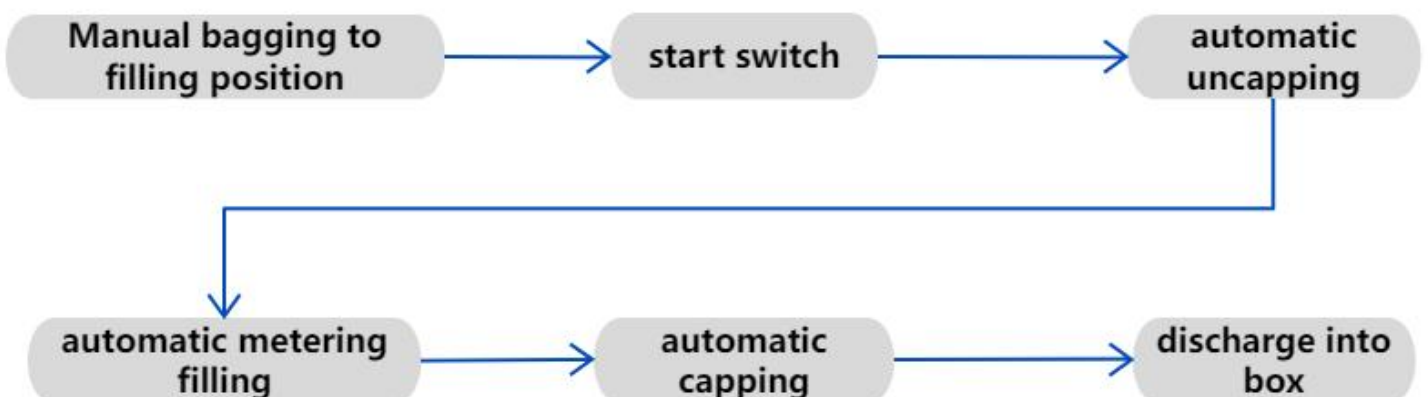
With CIP cleaning function.

Optional with vacuum and nitrogen protect function.

To Aseptic Bib Filling:

Designed for filling sterile products, often equipped with sterilization machine and aseptic bag to extended shelf life without refrigeration. With steam chamber and aseptic system.

► Operation Process:



▶▶▶ Company Profile:

Shanghai QingJi Beverage Machinery Co., Ltd. established in 2006, is a professional technology developing enterprise which mainly engaged in food&beverage machinery fields. Combined with research and development, craft flow chart design service, turnkey project, equipment manufacturing, installation, commissioning and training, our company is specialized in


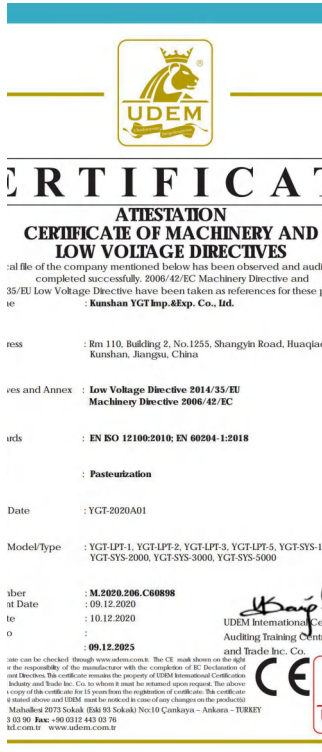


1. Key machine

- (1)UHT Sterilizer (2)Plate Pasteurizer (3)CIP system and kinds of tanks
- (4)aseptic or non-aseptic filling machine etc.

2.Whole production line of dairy milk, beverage juice, fruit and vegetable processing, food sauce etc.

Adhering to the business principle of mutual benefits, we have had a reliable reputation among our customers because of our professional services, quality products and competitive prices. We warmly welcome customers from at home and abroad to cooperate with us for common success.

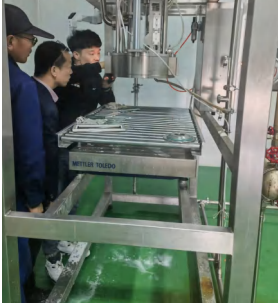
▶ Certificates obtained:

 <p>Certificate No.: USA144 This is to certify that the Quality Management System of HANGHAI QINGJI DRINK MACHINERY Unified Social Credit Code: 91310117787813798B Registered Address: Room 111, 1F, Building 7, No. 655, Cuijiahuang Road, Do Songjiang District, Shanghai, China Production Office Address: No.100, Shiji Road (E), Baoshan District, Shangh Has been audited to conform to the following Quality Management Sy ISO 9001:2008 This Quality Management System is valid for the Manufacture of drink machinery</p> <p>Initial issued date: Oct. 09, 2011 Date of issue: Sep. 01, 2014 Revision date: Jul. 21, 2016 Date of expiry: Sep. 02, 2017</p> <p>Issued by: <i>Wei Fengye</i> Beijing East Alltech Certification Co. Ltd.</p> <p>EACF ISO 9001 IAF AN CONFORMING EACF M.D.Y. No. 51484 CONFORMING EACF M.D.Y. No. 51484</p>	 <p>UDEM CERTIFICATE ATTESTATION CERTIFICATE OF MACHINERY AND LOW VOLTAGE DIRECTIVES</p> <p>all file of the company mentioned below has been observed and aud completed successfully. 2006/42/EC Machinery Directive and 35/EU Low Voltage Directive have been taken as references for these p te : Kunshan YGT Imp.&Exp. Co., Ltd.</p> <p>ress : Rm 110, Building Z, No.1255, Shangyin Road, Huaqiao Kunshan, Jiangsu, China</p> <p>ves and Annex : Low Voltage Directive 2014/35/EU Machinery Directive 2006/42/EC</p> <p>utls : EN ISO 12100:2010; EN 60204-1:2018</p> <p>: Pasteurization</p> <p>Date : YGT-2020A01</p> <p>Model/Type : YGF-LPT-1, YGF-LPT-2, YGF-LPT-3, YGF-LPT-5, YGT-SYS-1, YGT-SYS-2000, YGT-SYS-3000, YGT-SYS-5000</p> <p>ber at Date : M.2020.206.C60888 at Date : 09.12.2020 te : 10.12.2020 o : 09.12.2025</p> <p>Site can be checked through www.udem.com.tr. The CE mark shows on the right is the responsibility of the manufacturer with the completion of EC Declaration of and Directives. This certificate reserves the property of UDEM International Certification Industry and Trade Inc. Co. to whom it must be returned upon request. The above copy of the certificate is valid for 12 years from the registration of certificate. This certificate if stated above and UDEM must be notified in case of any changes on the product(s) Mahallesi 2073 Sokak (556 05 Sokak) No:10 Çankaya - Ankara - TÜRKİYE 3 03 90 Fax: +90 0312 443 03 76 ki.com.tr www.udem.com.tr</p> <p>UDEM International Certification and Training Center and Trade Inc. Co.</p>	 <p>Alibaba.com Intertek .com Verified Supplier Verified</p> <p>Assessment Report Presented to Qingji Beverage Machinery Co., Ltd. 海轻技饮料机械有限公司</p> <p>Assessment Report</p> <table border="1"> <tr> <td>_P+T</td> <td>Assessment Type</td> <td>Proc</td> </tr> <tr> <td>-2024-07-26</td> <td>Assessor's Name</td> <td>Zad</td> </tr> <tr> <td></td> <td>Reviewed by</td> <td>Mac</td> </tr> </table> <p>w.intertek.com.cn/ASV me/IndexCN</p>	_P+T	Assessment Type	Proc	-2024-07-26	Assessor's Name	Zad		Reviewed by	Mac	 <p>3382 号 实用新型专利证书</p> <p>一种杀菌机 杨真敏</p> <p>ZL 2020 2 1994470.1 2020年09月11日 上海轻技饮料机械有限公司 201908 上海市宝山区市一路199号1楼1076A</p> <p>2021年11月19日 授权公告号: CN 214758970 1 权局依照中华人民共和国专利法经过初步审查, 决定授予专利 在专利登记簿上予以登记。专利权自授权公告之日起生效。专 权专利权的法律状况, 专利权的转移、质押、无效、终 名称、国籍、地址变更等事项记载在专利登记簿上。</p> <p>知识产权局 2021年11月19日</p>
_P+T	Assessment Type	Proc										
-2024-07-26	Assessor's Name	Zad										
	Reviewed by	Mac										

► Cooperating Customers:

► Project Cases:

Project	Milk process	Egg liquid process	Fruit paste process	Concentrated juice process
Live picture				

► Auxiliary Equipment:

UHT sterilizer	Storage tank	Aseptic bag
		

► Related Accessories:

Gasket	Solenoid valve	Soft pipe
		

► Service Process:

