领先的,不仅仅是技术…… WE FIND WAYS...



合肥中辰轻工机械有限公司

公司地址

邮编:230601

网址:www.hfqj.com

中国销售

Domestic Sales

电话:0551-62552086 邮箱:infohfzc@163.com

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Hefei Zhongchen Light Industrial Machinery Co., Ltd.

Company Address

安徽省合肥经济技术开发区锦绣大道206号 No. 206 Jinxiu Rd., Economic and Technological Development Zone, Hefei City 230601, Anhui Province, China Website: www.hfqj.com

海外销售

International Sales

(Central International Machinery Co., Ltd.)

Tel: +86-551-62552070 / 62552071 / 62552083

E-mail: infohfzc@163.com

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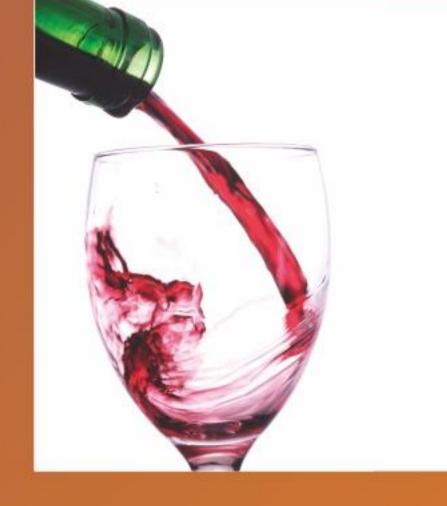


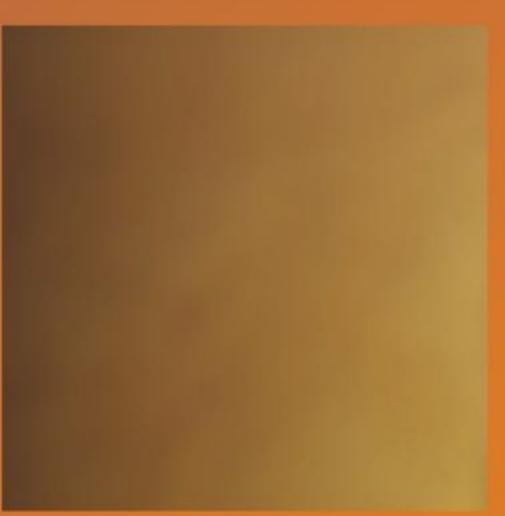










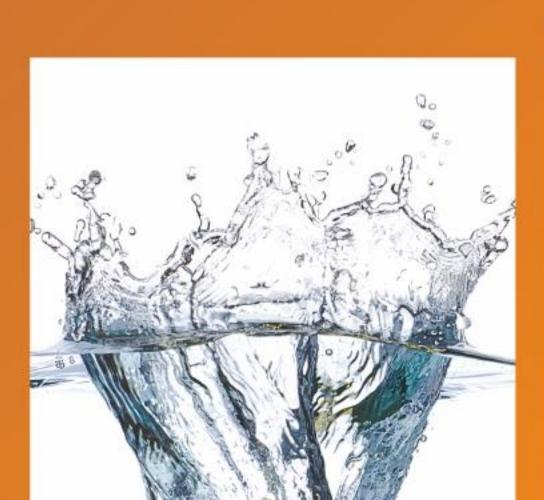


























- PRODUCT BROCHURE
- 调味品及汽酒等生产线解决方案
 BOTTLING / CANNING LINES & EQUIPMENTS FOR CONDIMENTS & (CARBONATED) ALCOHOLIC DRINKS





企业简介 Company Profile

领先的,不仅仅是技术..... WE FIND WAYS...

合肥中辰轻工机械有限公司坐落于中国安徽合肥市国家级经济技术开发区,占地总面积近10万平方米。公司从1984年开始就专业从事饮料、啤酒灌装包装自动化生产线设备的设计开发与制造,是中国酒饮料装备行业的核心骨干企业。设计资质、加工手段、产品质量以及售后服务一直处于行业领先地位。中辰轻机现有员工近500人,具有高等教育背景的各类专业技术和销售人员300多人。

中辰轻机的产品引进了欧洲著名的一流公司的技术,同时结合自身多年的自主创新,设计、生产及服务的经验,赢得了众多中高端著名的客户,是中国首屈一指的专业研发和制造适合玻璃瓶、PET瓶、易拉罐等包装容器的饮料、啤酒、调味品、汽酒等成套生产线设备和工程的高新技术企业。公司产品远销60多个国家和地区,并在全球多地设立了办事处和本土服务中心。

中辰轻机同时拥有ISO9001:2015质量体系国际认证、CE认证、SGS国际认证、SA8000国际认证等,公司的主导产品连续获得多次专利技术认证、国家重点新产品、行业优秀供应商等殊荣,公司参与并起草了多部国家级液态饮品的生产线行业标准规范。

中辰轻机在全球化、信息化的背景下,将奉行"忠诚、务实、高效、创新"的理念与世界先进同行在国际舞台上同场竞技,我们还愿意与一切有共同理念的企业合作,共同创造双赢;为中外饮料、啤酒、调味品、汽酒等液态饮品行业提供最佳的解决方案和高品质的技术装备、售后服务,是中辰轻机永恒的宗旨和追求。

——在饮料行业,成功地为可口可乐、百事可乐、娃哈哈、健力宝、王老吉、康师傅等国内外知名企业提供了多条先进生产线设备;

——在啤酒行业,成功地为百威英博、嘉士伯、燕京啤酒、喜力啤酒、华润雪花啤酒、青岛啤酒等国内外知名企业提供了多条先进生产线设备;

——在调味品行业,成功地为王致和、恒顺陈醋、东湖老陈醋、海神黄酒等国内外知名企业提供多条先进生产线设备;

——在汽酒行业,成功地为帝亚吉欧、百加得、巴克斯、黑牛、查理斯堡等国内外知名企业提供多条先进生产线设备。







Company Profile

Hefei Zhongchen Light Industrial Machinery Co., Ltd., a first-class company in Chinese liquid filling and packaging equipment industry, has been engaged in the design, R&D and manufacturing of complete equipment sets for various liquid drinks automatic bottling/canning line since 1984, and has taken the lead in the industry in terms of design qualification, processing capability, product quality, and after-sales service. It is located in National Economic and Technological Development Zone of Hefei City, in the Province of Anhui, which covers an area of 100,000m. It now has 500 employees, among which more than 300 are technical professionals, engineering and sales consultants with high education background

With its initial technologies introduced from renowned European companies, Hefei Zhongchen Co. now manufactures high quality products based on the integration of years of experience & innovations in design, engineering, fabrication, installation and service, which has won a number of famous high-end customers. After years of steady development, it has become a leading National High and New Tech Enterprise specialized in R&D.

and manufacturing of complete equipment sets for liquid drinks (beverage, beer, condiments, (carbonated) alcoholic drinks, etc.) bottling / canning lines and equipment turnkey projects. The products have been exported to more than 60 countries and regions, and local offices and service centers have been setting up all over the world.

- In the beverage industry, Coca-Cola, Pepsi-Cola,
 Wahaha, Jianlibao, Wanglaoji, Master Kong, etc.
 are using Hefei Zhongchen equipments;
- AB InBev, Carlsberg, Yanjing Beer, Heineken,
 China Resources Snow Breweries, Tsingtao Beer,
 etc. are using Hefei Zhongchen equipments;
- In the condiments industry, Wangzhihe,
 Hengshun Mature Vinegar, Donghu Vinegar,
 Haishen Rice Wine, etc. are using Hefei Zhongchen equipments;
- In the (carbonated) alcoholic drinks industry,
 Diageo, Bacardi, Bacchus, Blackcow, Charlesbo,
 etc. are using Hefei Zhongchen equipments.

Hefei Zhongchen Co. obtains international quality certifications of ISO9001:2015, CE, SGS, SA8000, etc. The leading products have been awarded honors of patents technology certification, National Key & New Products, Excellent Industrial Supplier, etc. It has participated in drafting a number of national industry standards in liquid drinks bottling / canning lines.

In the context of globalization and informatization, Hefei Zhongchen Co. abides by the concept of "Loyalty, Practice, Efficiency, Innovation", and competes & cooperates with other excellent players on the global market. We are willing to cooperate with any enterprise with a common philosophy as ours to achieve win-win. Its foremost objective is to provide the best solutions, high-quality equipments and after-sales service for liquid drinks (beverage, beer, condiment, (carbonated) alcoholic drinks, etc.) industry domestically and internationally.



调味品灌装包装生产线

Condiments Bottling Line

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汽酒灌装包装生产线整厂工程设备

(Carbonated) Alcoholic Drinks Equipments Turn-key Project

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白酒等其它酒类灌装包装生产线

Spirits & Other Alcoholic Drinks Bottling Line

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调配品、汽酒等生产线通用包装设备

Common Equipments for Condiments & (Carbonated) Alcoholic Drinks Line, etc.

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生产线通用设备

Common Equipments on Production Line

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我们与客户 Together We Are Strong





调味品灌装包装生产线

Condiments Bottling Line

醋灌装包装生产线 Vinegar Bottling Line



新一代高速醋灌装压盖机:

- 高速电子气动型醋灌装阀流速快,无卫生死角易清洗,轻松实现二次灌装,有效解决醋的泡沫问题。传统的醋负压灌装技术,灌装后醋的泡沫很难消除干净,而且在冬天气温低的时候,必须加热到一定温度以上才能灌装。中辰轻机采用新型的专利设计,可以高效处理醋灌装气泡的问题,灌装后瓶内无泡沫,而且不受环境温度限制,冬天室温灌装即可,既节约蒸汽耗量,又节能环保。
- 灌装系统配置有平面轴承支托灌装缸,缸体运转平稳;灌装系统玻璃瓶采用托瓶底灌装,对中准确,不损害瓶口,保证瓶口与灌装阀口准确密封;灌装缸升降自如,更换瓶种时,可不用任何工具,很方便的拆换有关零件;和物料接触的部位全部采用优质不锈钢和密封材料,耐腐蚀。
- 本机集灌装、压盖于一体,采用变频调速PLC控制,操作方便,易于维护,性能稳定。
- 前道配置中辰轻机的高速回转式冲瓶机或洗瓶机,在灌装之前确保瓶子彻底洁净。

New Generation of High-speed Vinegar Filler-Capper:

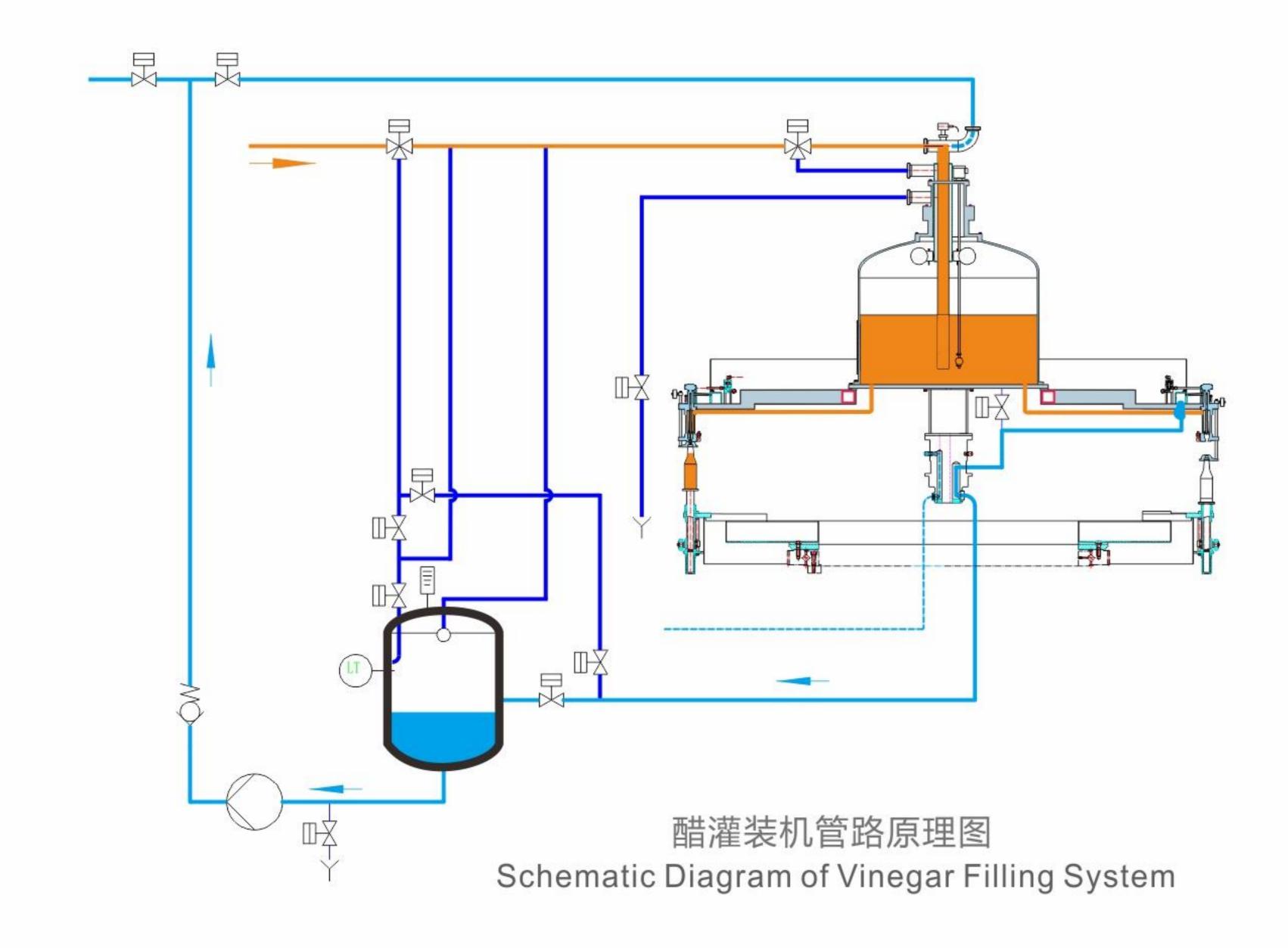
- High-speed pneumatic electro-filling valve has features of fast filling speed, no dead angle, easy to clean, and double-step filling, which effectively solves the foaming issue of vinegar bottling. In traditional negative pressure vinegar bottling design, the vinegar foam is very difficult to remove thoroughly, and at low temperature in winter, it only can be filled after heated to a certain temperature above. Based on above observation, Hefei Zhongchen adopts the new patent design to efficiently deal with the issue of air bubble for vinegar bottling, no foaming remained in bottle. In addition, the new design is not restricted by the environment temperature, so filling at ambient temperature in winter is available with steam & thermal energy saving, and environmental protection.
- Filling system is configured with a horizontal bearing to support smooth operation of filling bowl; Glass bottling adopts bottle bottom holder to guarantee accurate centering, no harm on the bottle and accurate sealing between bottle mouth and filling valve; Filling bowl can lift freely when changeover, it's very convenient to change related parts without any tools; Any part contacts vinegar is made of high quality stainless steel and seal materials, with corrosion resistance.
- Filler-capper block, frequency control with advanced PLC system, convenient operation, easy maintenance, stable performance.
- High-speed rotary rinser or bottle washer prior to filling ensures glass bottles are clean thoroughly.



调味品灌装包装生产线

Condiments Bottling Line

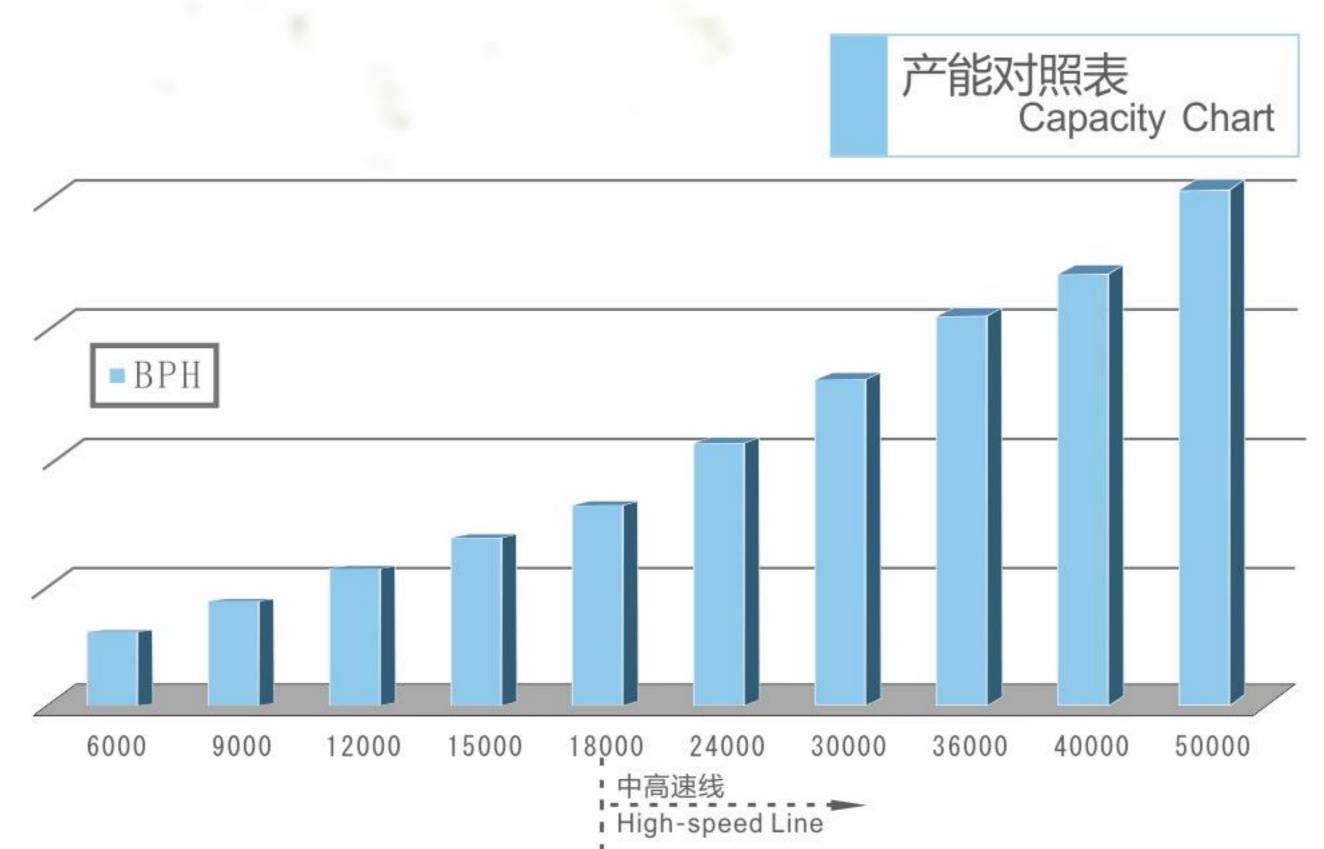
醋灌装包装生产线 **Vinegar Bottling Line**









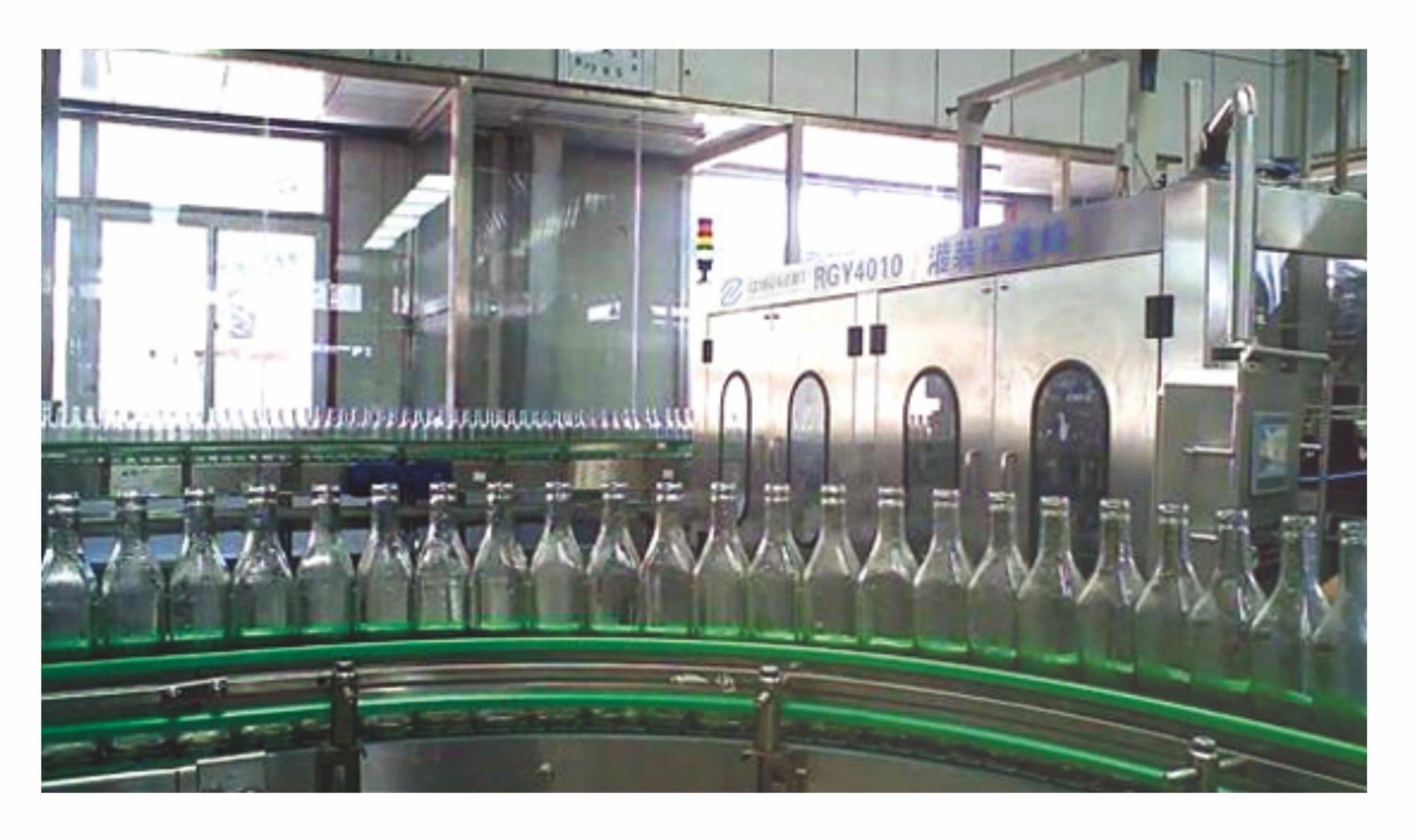




调味品灌装包装生产线

Condiments Bottling Line

黄酒灌装包装生产线 **Rice Wine Bottling Line**



对于黄酒灌装,通过中辰轻机高速回转冲瓶机或高速洗瓶机设备,将洗净的瓶子通过预热通道将瓶子温度升高到50℃以上,经过 进瓶螺杆、星轮进入灌装机,托瓶装置将瓶子抬升,顶开灌装阀开始灌装。瓶内的气体经过回气管回到灌装缸。灌装量会稍多于额 定容量,再经过负压液位校正使瓶内的液位精确一致;也适合异型瓶子的灌装。

The cleaned bottles from high speed rotary rinser or bottle washer will be heated up to 50°C above by the steam pre-heater. Bottles enter into the filler by infeed screw and star wheel. Bottle holder lifts the bottle bottom to open the filling valve, and filling starts. Gas inside the bottle returns back the filling bowl via vent tube. Filling capacity will be slightly more than the rated volume, and then the filling level is corrected by negative pressure. The filling system is also suitable for irregular shaped bottles.







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调味品灌装包装生产线

Condiments Bottling Line

黄酒灌装包装生产线 **Rice Wine Bottling Line**

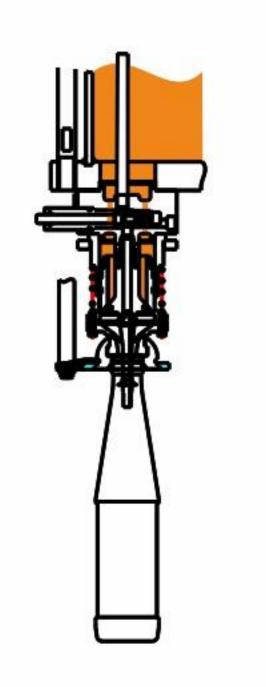


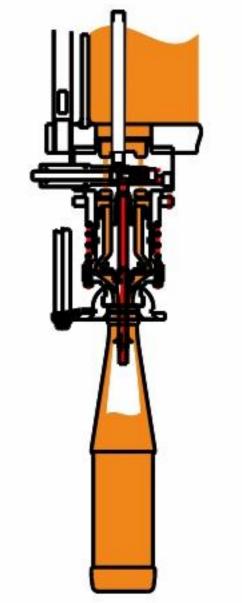
新一代高速黄酒灌装压盖机:

- 灌装机采用保洁台板,便于清洗和 清理。跟物料接触的地方采用优 质316L不锈钢,在灌装空间合理 布置喷嘴防止调味品的结晶、结 斑,在CIP状态下,对灌装空间进 行全面的清洗。
- 采用负压校正型灌装阀,灌装缸 的液位采用浮球连续式液位控 制,直接检测液位,确保灌装缸 内液位稳定,并且可以自行设定 灌装缸内液位值;灌装系统玻璃 瓶采用托瓶底灌装,对中准确, 保证瓶口与灌装阀口准确密封,
- 本机集灌装、压盖于一体,采用变频调速PLC控制,操作方便,易于维护,性能稳定;本机设计紧凑,灌装缸,压盖系 统都配有电动升降,更换瓶型,盖型方便快捷。

New Generation of High-speed Rice Wine Filler-Capper:

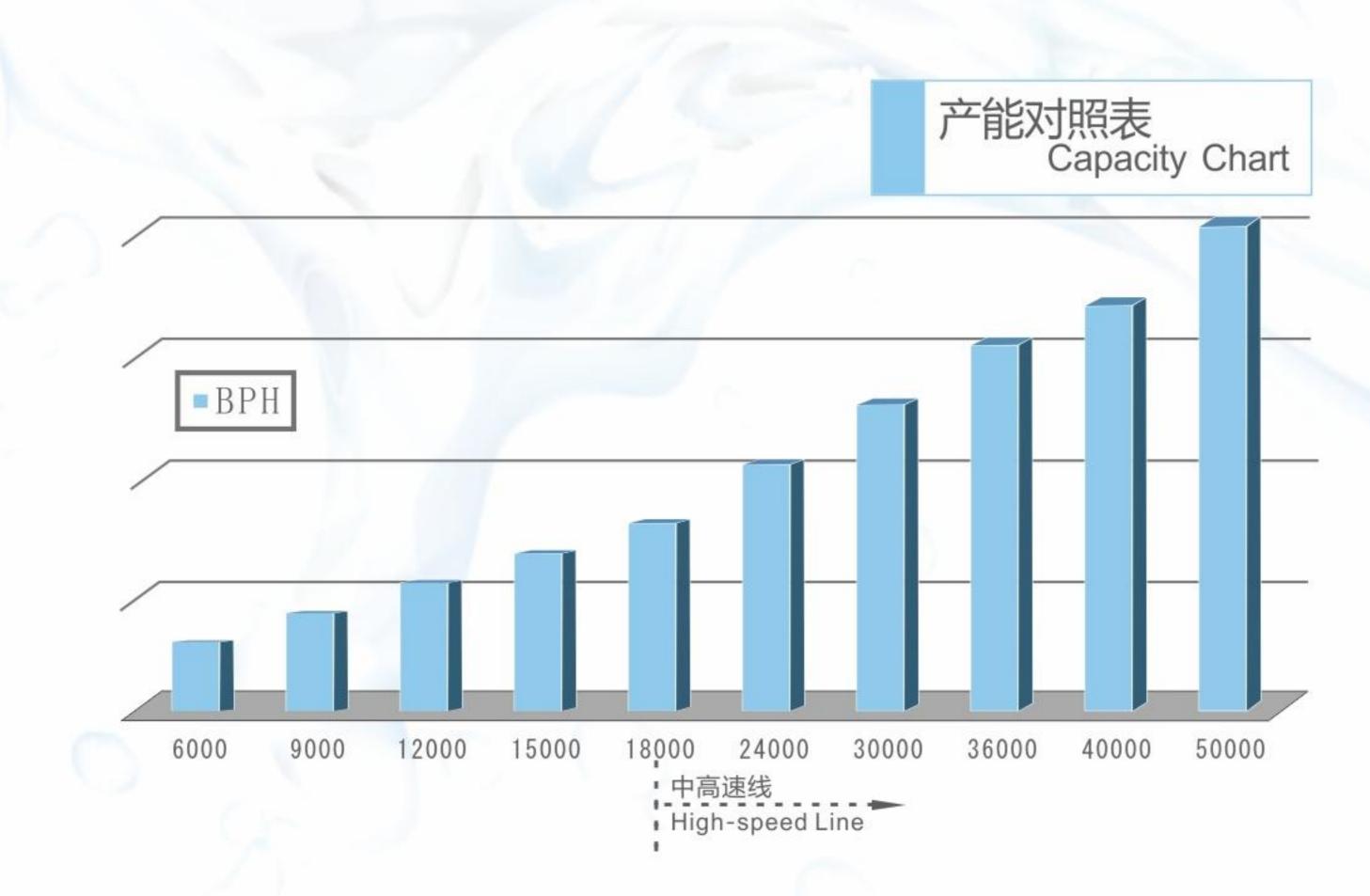
- The filler adopts sanitary bedplate, easy to clean. Any part contacts with products is made of high quality 316L stainless steel. Spray nozzles equipped inside the space of filler prevents the crystallization and spot of condiment, and thoroughly cleans the space when CIP.
- Adopting negative pressure correction type filling valve, filling bowl adopts floating ball continuous liquid level control for direct detection, to ensure stable liquid level, and the level value can be set freely; Glass bottling adopts bottle bottom holder to guarantee accurate centering, and precise sealing between bottle mouth and filling valve, no dripping.
- Filler-capper block, frequency control with advanced PLC, convenient operation, easy maintenance, stable performance. Both Filler and capper are equipped with motorized lifting for convenient changeover.







灌装步骤 Filling Steps



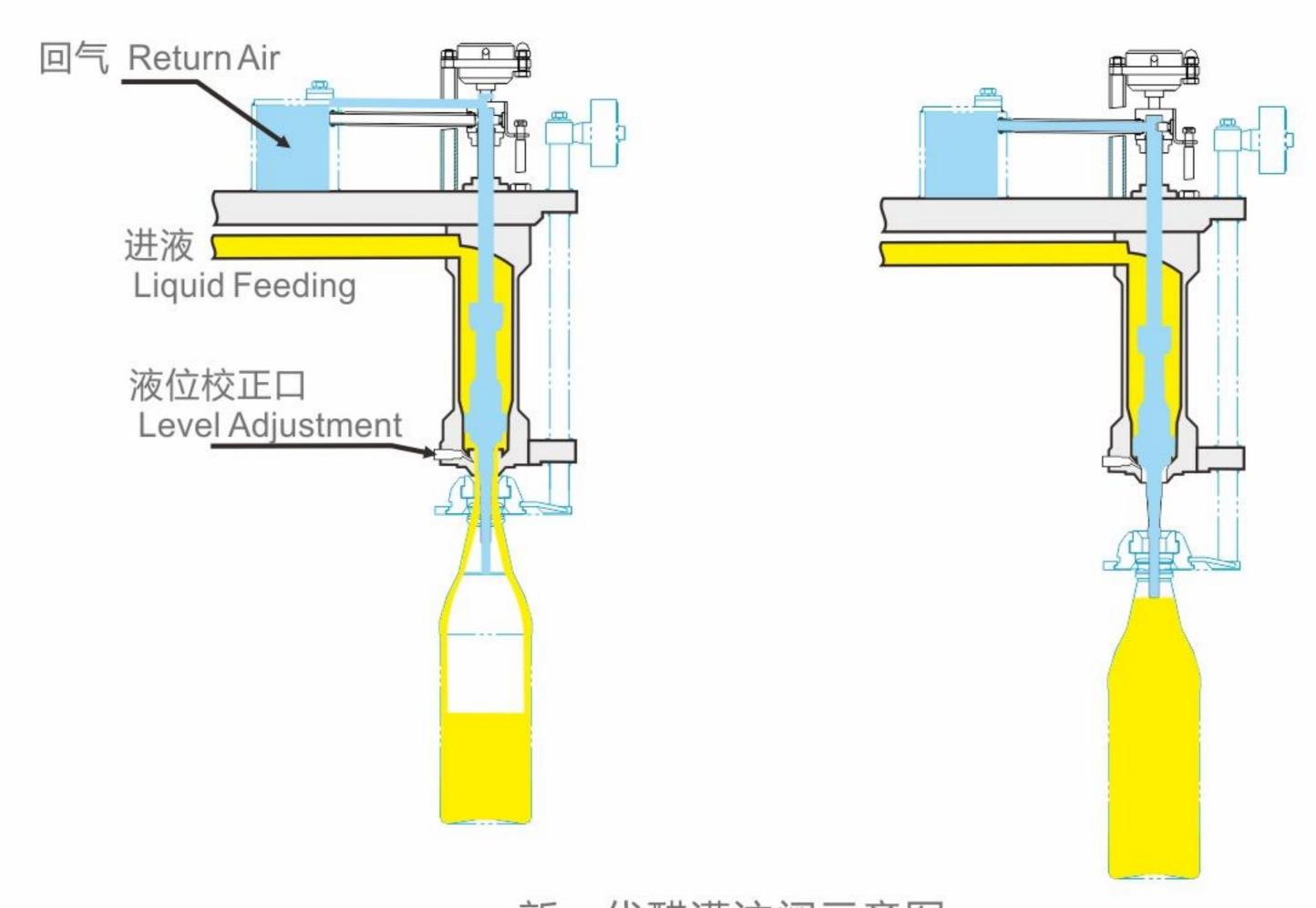


调味品灌装包装生产线

Condiments Bottling Line

酱油灌装包装生产线

Soy Sauce Bottling Line



新一代醋灌注阀示意图 New Generation of Vinegar Filling Valve

酱油是以富含蛋白质的豆类和富含淀粉的谷类为主 要原料,在微生物酶的催化作用下分解熟成,并经浸滤 提取的调味汁液。

传统酱油灌装机普遍存在灌装过程中冒泡严重、灌 装液位精度差、并且酱油含盐份高,对密封圈腐蚀性 强,针对上述情况,中辰轻机采用电子气动灌装阀用于 酱油类产品的灌装。

机器特点:

- 1. 电子气动式主动开阀。采用负压灌装,减少灌装过 程中滴漏;
- 2. 针对灌装中泡沫严重,采用2次灌装技术。灌装最 后,开启负压通道,抽走瓶颈上部的泡沫,然后再次 灌装到液位。
- 3. 阀结构中尽量减少密封圈的使用,提高密封圈的寿 命,减少更换密封圈的周期,提高工作效率。

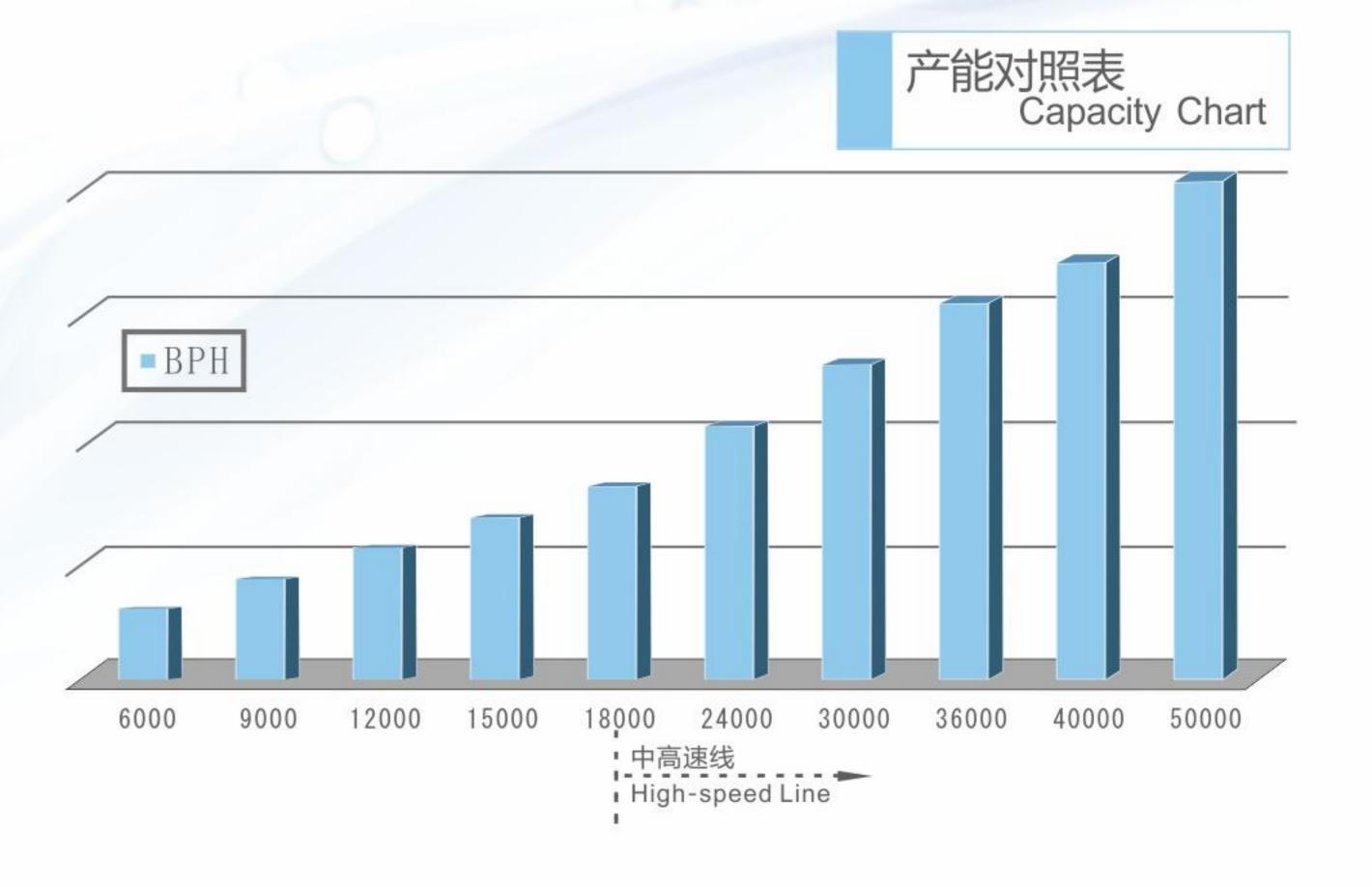
Soy sauce is made from protein-rich beans and starch-rich grains as its main raw materials, which decompose and mature under the catalysis of microbial enzyme, finally the soy sauce is extracted by leaching.

Traditional soy sauce filler in common has issues of heavy bubbling, poor filling level precision, and strong corrosion of seals due to high salinity. For this reason, Hefei Zhongchen adopts pneumatic electro-filling valve to fill the soy sauce as the latest industrial solution.

Machine Features:

- 1. Pneumatic driving electro-filling valve with negative pressure in the filling end to reduce dripping.
- 2. Adopt double-step filling to solve foaming issue. At the end of filling, negative pressure channel opens to take out the bubble from bottleneck for second step fill.
- 3. Minimize the use of valve seals with lone service life to improve work efficiency.





汽酒灌装包装生产线整厂工程设备

(Carbonated) Alcoholic Drinks Equipments Turn-key Project

玻璃瓶汽酒灌装包装生产线整厂工程设备

(Carbonated) Alcoholic Drinks Glass Bottling Line & Equipments Turn-key Project



设备组成

灌装包装线组成:卸垛机、混合机、冲瓶灌装压盖机、温瓶或巴氏杀菌机、贴标机、喷码机、纸箱装箱机、码垛机、输送系统等。

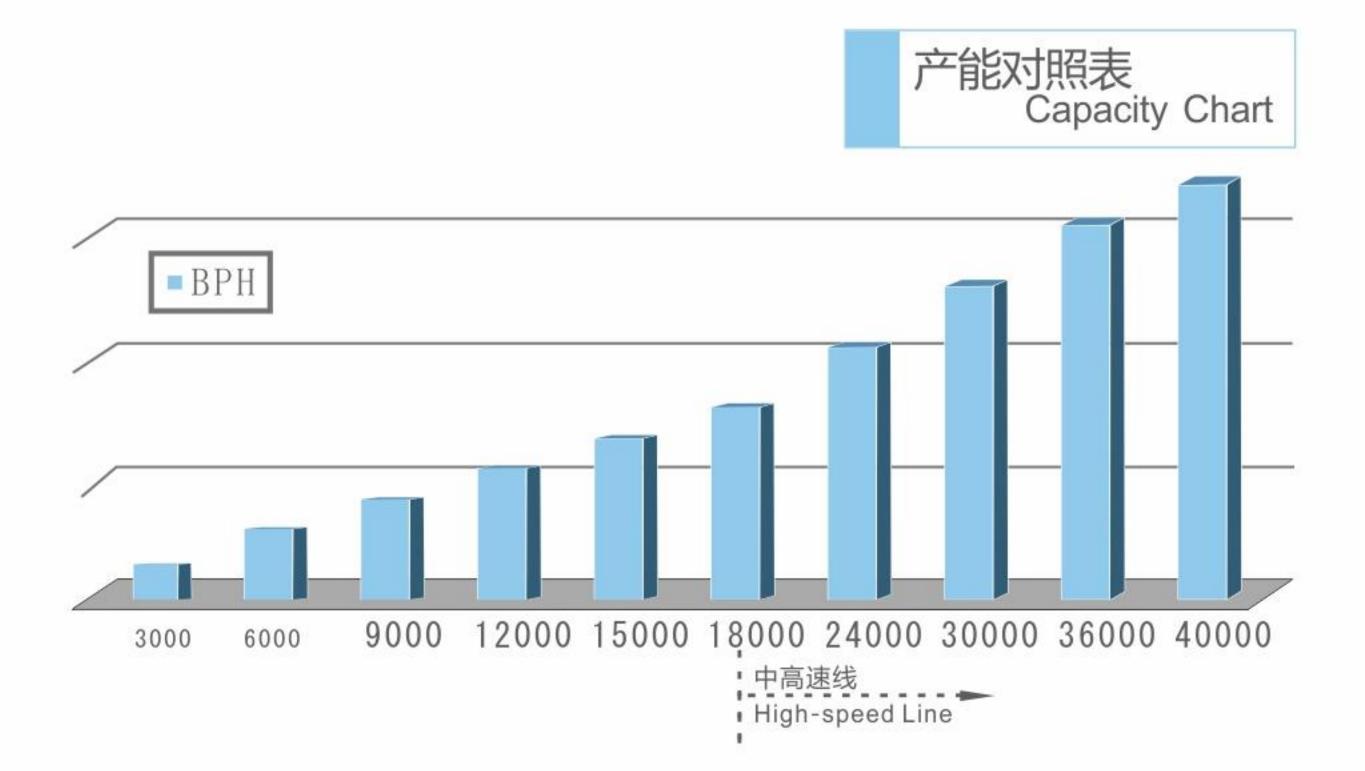
前处理设备组成:化糖系统、果葡糖浆系统、酒精系统、果汁系统、辅料系统、杀菌系统、配料系统、CIP系统、水处理系统等。

动力工程设备组成:锅炉、制冷、空压、CO2等。



混合机 Mixer





/E FIND WAY

汽酒灌装包装生产线整厂工程设备

(Carbonated) Alcoholic Drinks Equipments Turn-key Project

流量计混合机

Flowmeter Mixer

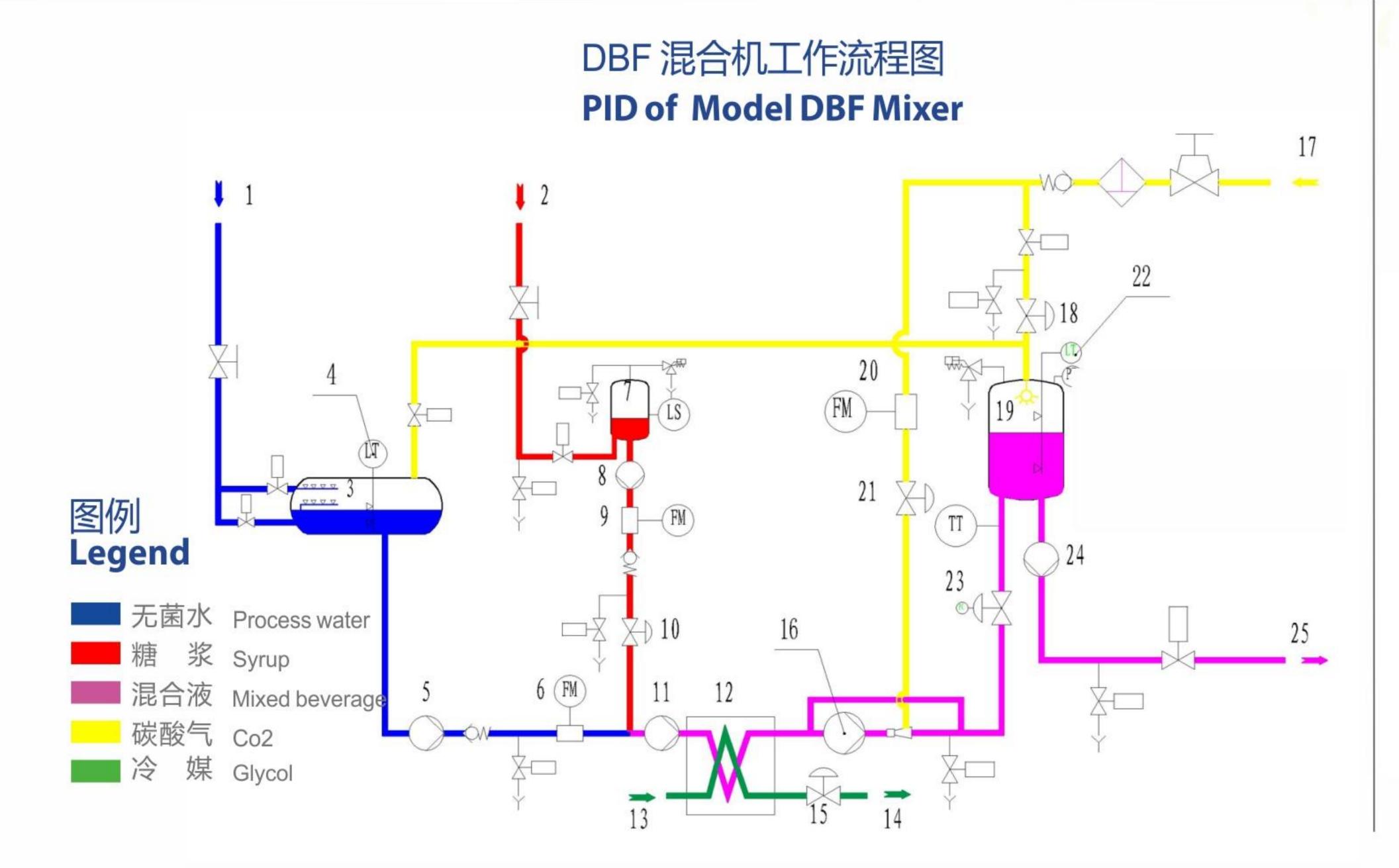


Scope of Supply

Bottling line: Depalletizer, Mixer, Rinser-Filler-Capper, Bottle Warmer or Tunnel Pasteurizer, Labeller, Ink Jet Coder, Packer for Cartons, Palletizer, Conveyor, etc.

Preprocessing Equipments: Sugar Dissolving, Fructose Corn Syrup System, Alcohol System, Fruit juice System, Ingredients System, Sterilization & Pasteurization System, Blending System, CIP System, Water Treatment System, etc.

Utilities Equipments: Boiler, Refrigeration, Air Compressor, CO2, etc.







汽酒灌装包装生产线整厂工程设备

(Carbonated) Alcoholic Drinks Equipments Turn-key Project

易拉罐汽酒灌装包装生产线

(Carbonated) Alcoholic Drinks Canning Line & Equipments Turn-key Project



设备组成

包括卸罐机、冲罐机、灌装封盖机、温罐机或巴氏杀菌机、储罐台、喷码机、液位检测机、纸箱包装机或膜包机、码垛机、输送系统等在内的一整套灌装包装生产线。





WE HIND WAYS.

汽酒灌装包装生产线整厂工程设备

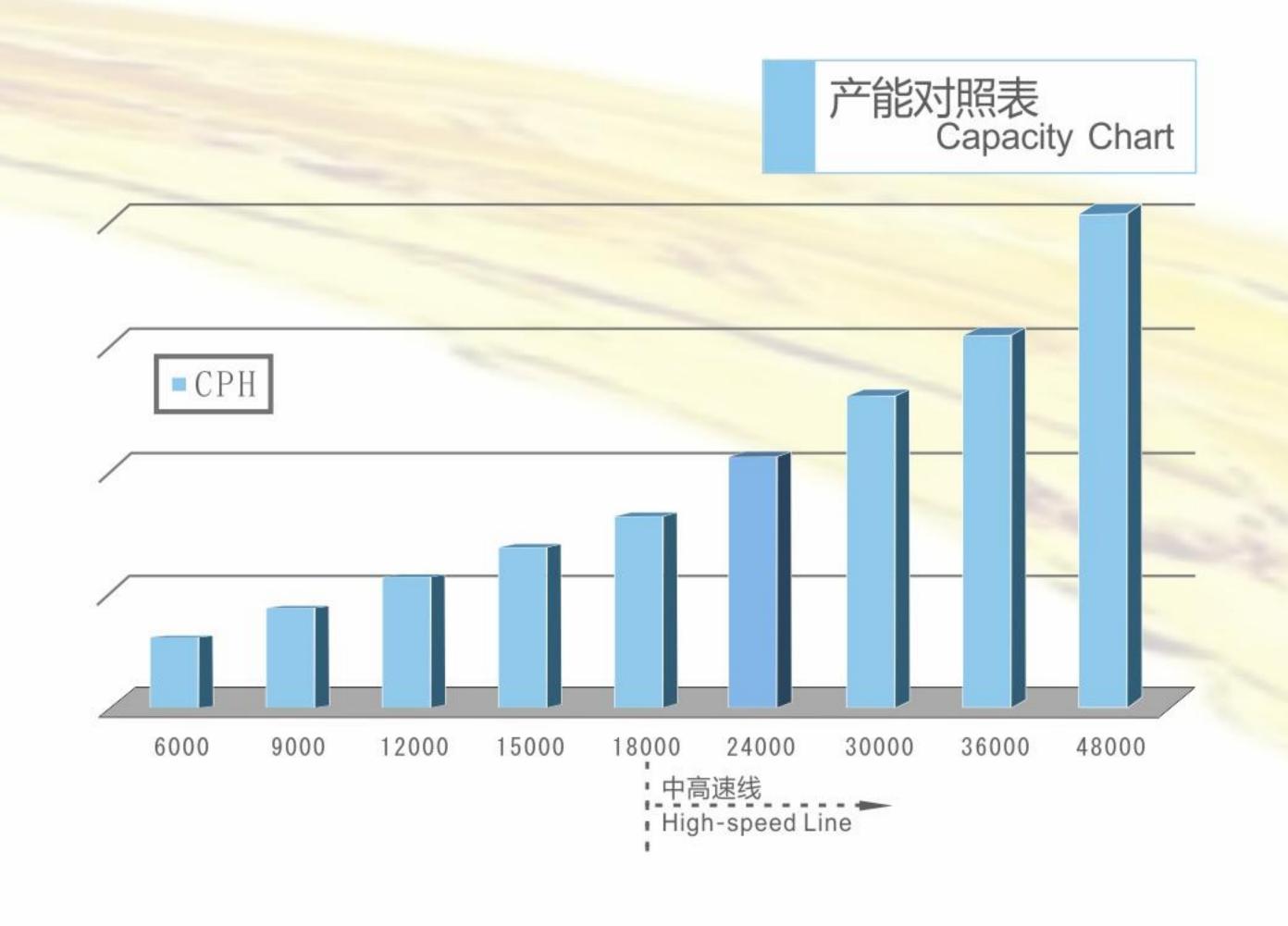
(Carbonated) Alcoholic Drinks Equipments Turn-key Project



Scope of Supply

Bulk Can Depalletizer, Can Rinser, Filler-Seamer, Can Warmer or Tunnel Pasteurizer, Buffer Table, Ink Jet Coder, Level Detector, Carton Packer or Shrink Film Packer, Palletizer, Conveyor, etc.







白酒等其它酒类灌装包装生产线

Spirits & Other Alcoholic Drinks Bottling Line

白酒灌装包装生产线 Spirits Bottling Line



适合中国白酒、洋酒、红酒等灌装包装领域。

- 白酒生产线主要由上瓶、洗瓶、冲瓶灌装封盖、吹干、检验、喷吗、贴标、装盒、装箱、码垛等工序组成。
- 冲瓶灌装封盖组合机,占地少,只需一个操作者。一般冲瓶机为电子阀双通道冲瓶,分RO水冲洗,无菌空气吹干,冲洗和吹干时间可在线设定。灌装机为机械阀或电子流量计式灌装,电子灌装机每个灌装阀可在线修正灌装容量,保证灌装精度偏差在±1.0ml以内;灌装阀防滴漏设计,灌装过程中,酒液不会滴到工作台;采用快慢灌技术,保证灌装精度;灌装缸内和阀头部位有负压抽吸装置,防止酒精气外溢。
- 封盖部分根据客户的盖型可采用自产或进口,采用水洗盖或静电除尘方法,去除吸附在盖上的灰尘和异物。

Bottling Line Suitable for Chinese Spirits, International Spirits, Red Wine, etc.

- The spirits bottling line mainly includes bottle feeding, washing, rinser-filler-capper, blow off, inspection, coder, labelling, inner packing, carton packing, palletizing, etc.
- Less space occupation and one operator needed for advanced rinser-filler-capper. E-valve rinser realizes RO water rinse & aseptic air drying before filling. The filler adopts mechanical valve or flowmeter E-valve to ensure the accurate filling within ±1.0ml; Anti-dripping design avoids product waste; Safety design with negative pressure inside filling bowl and valve head parts to prevent spirits escape.
- Imported or Hefei Zhongchen made capper with cap water wash & air dry or static dust catcher to clean the caps.

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日化品及油脂灌装包装生产线

Daily Chemicals and Oil Bottling Line



根据市场需求,本公司研制出各种日化品如洗涤液、各种食用油和润滑油等油脂自动定量灌装包装生产线。

To meet the market demand, Hefei Zhongchen developed automatic quantitative bottling lines for a variety of daily chemicals & oils such as cleaning solution, edible oil, lubricating oil, etc.

对于日化品和油脂类灌装包装生产线,首选称重式或流量计灌装系统。称重式灌装机是指在每个灌装工位上安装一个高精度动态电子秤,通过计量电子秤上重量来实现定量灌装。

Weighing or flowmeter filler is preferred for daily chemicals and oil bottling line. High precision dynamic electronic scale is installed on each filling station of weighing filler, to realize quantitative filling.



调配品、汽酒等生产线通用包装设备

Common Equipments for Condiments & (Carbonated) Alcoholic Drinks Line, etc.

冲瓶/洗瓶/温瓶/巴氏杀菌机设备

Rinser / Bottle Washer / Bottle Warmer / Tunnel Pasteurizer

调味品和汽酒生产线上一般配置高速回转式冲瓶机或 洗瓶机,对瓶子加以彻底清洗和沥干,再进入灌装机。

冲瓶机 Rotary Rinser



温瓶机通常用于冷灌装生产线的饮品在生产线之 中,灌装后在保证饮品色、香、味以及营养成分不变 的情况下用提高瓶温的方法减少饮品与室温环境的温 差,消除瓶子外表面的冷凝水,便于贴标、装箱等工 序。该产品常用于汽酒包装生产线。

Bottle warmer is mainly used in cold filling line. Based on the condition of no affect on beverage color, flavor, smell and nutrition after filling, bottle warmer will eliminate condensate water on external surface of bottle for secondary packaging. It's often used in carbonated alcoholic bottling line.

温瓶机 Bottle Warmer



High-speed rotary rinser or bottle washer is equipped on condiments and (carbonated) alcoholic drinks bottling line to thoroughly clean and drain the bottle prior to filling.

洗瓶机 Bottle Washer



巴氏隧道杀菌机主要用于对汽酒、含气果汁和茶 饮料、麦芽饮料、牛奶、啤酒等进行连续式喷淋、升 温、杀菌、冷却的杀菌设备,本机也可仅用于需要温瓶 或冷瓶的场合。

Tunnel pasteurizer is mainly used to continuously spray, warm up, pasteurize, and cool down the drinks for carbonated alcoholic bottling line, carbonated juice / tea, malt beverage, milk, beer, etc., which also can act as bottle warmer or cooler in combination lines.

杀菌机 Tunnel Pasteurizer



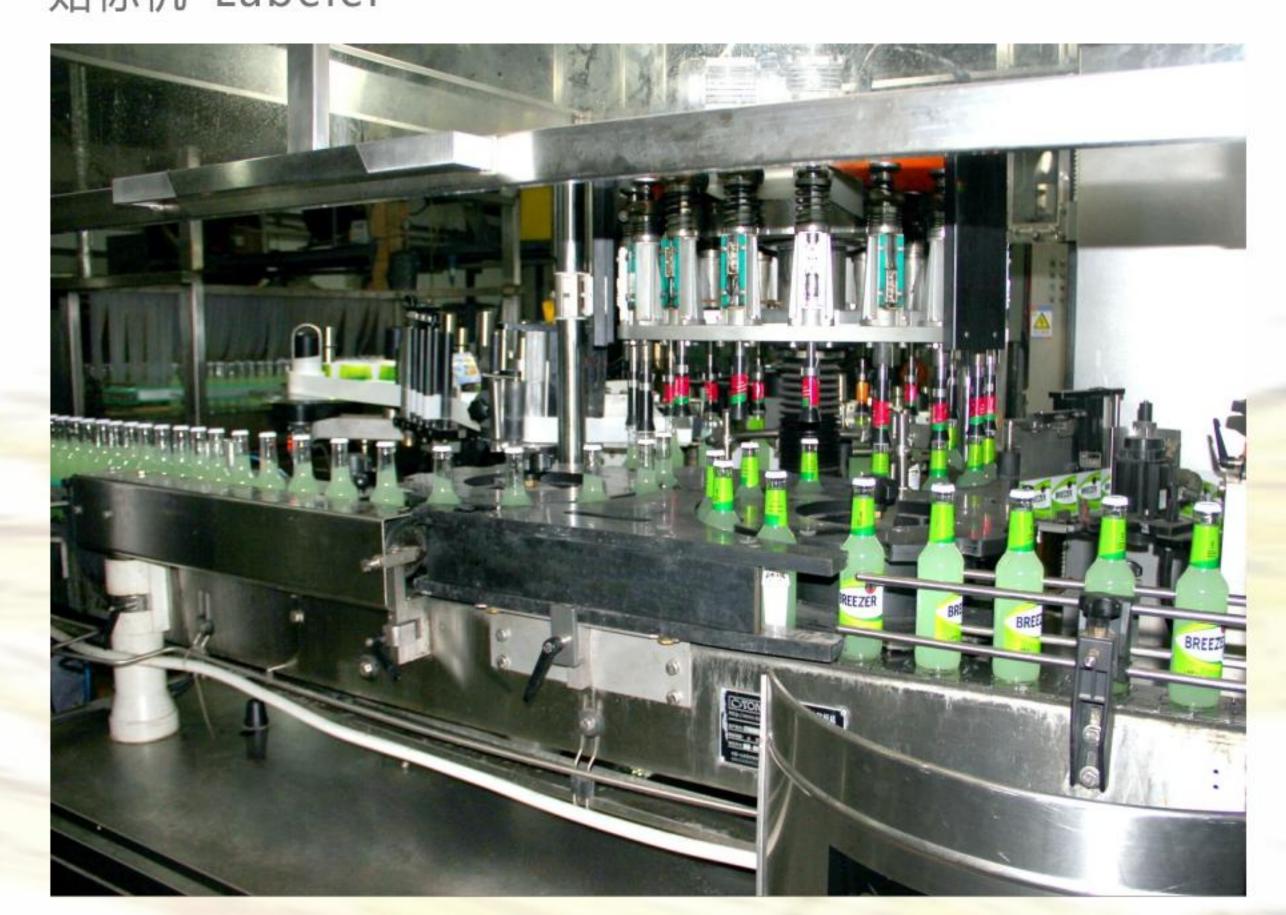
生产线通用设备

Common Equipments on Production Line

卸瓶(罐)垛机 Bulk Bottle / Can Depalletizer



贴标机 Labeler



装箱机 Packer for Cartons



输瓶系统 Conveyor



纸箱成型机 Carton Erector



全自动纸包机 Wrap Around Carton Packer





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