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套设备

For Cosmetic,
Pharmaceutical,
Food and Fine
Chemical Industries





WHY CHOOSE US

选择意凯的三大理由

品牌实力出众 Excellent Brand

自1998年创建以来,意凯始终坚持将品质作为企业的立信之本、壮大之匙。正是这执着的坚持让意凯在2016年成为央视《品质》栏目的上榜企业。现在,意凯已经成为全球知名的混合和包装设备制造商,值得您信赖。

Since it was founded in 1998, Yekey has always regarded quality as the foundation to increase customer's trust and as the key to the growth of the enterprise. It is exactly this persistence that makes Yekey one of the publicizing enterprises of CCTV's Quality program in 2016. Now, Yekey has become a world famous manufacturer of mixing and packaging equipment, which is worthy of your trust.

研发实力雄厚 Strong R&D

意凯年均正常研发投入占销售利润的10%,获得了专利授权50余项。为了更贴近客户的使用场景,意凯在2019年与江南大学共同有无建立了教学实践基地,并在此基础上修建了十万级净化实验室。实验室的成立为意凯探索行业前沿技术提供研发保障。

Yekey's annual research and development investment takes up 10% of the sales profit and has obtained more than 50 patents. In order to be closer to the customer's application environment, Yekey and Jiangnan University jointly built a teaching practice base in 2019, and built a 100000 level purification laboratory on this basis. The laboratory provides research and development guarantee for Yekey to explore the cutting-edge technology in the industry.

品质全球认同 Global Recognition of the Quality

意凯通过了ISO9001质量体系认证,并有多款产品通过了欧盟CE安全认证。如今,意凯制造的乳化设备、搅拌设备、灌装设备及整厂方案已应用在包括美国、德国、瑞士在内的全球70多个国家和地区,并获得了客户的广泛好评。

Yekey has passed the ISO9001 quality system authentication, and many products of Yekey have passed the CE safety certification of European Union. At present, the emulsification equipment, mixing equipment, filling equipment and the whole factory plan produced by Yekey have been applied in more than 70 countries and regions in the world, including the United States, Germany and Switzerland, and have been well recognized by customers.

About YeKeey

关于意凯

Wuxi YK Automation Technology Co.,Ltd (Also known as YeKeey) specializes in fine chemical equipment, pharmaceutical equipment and high-end processing equipment with research & development, design, manufacture and technical service into oneness. Since its inception, YeKeey have been adhering to the principle of customer first, service foremost, wishing for reaching a win-win result with our clients from all over the world by promoting technological progress and industrial development.

Since its establishment in 1998 for more than 20 years, YeKeey has always been committed to technology research and development and product upgrading, adhere to the annual sales profit of 10% into research and development, with undergraduates, graduate students and foreign experts as the core of the research team. As of 2020, YeKeey has obtained a total of 51 patents and 2 software programs, including "vacuum homogenizing and emulsifying machine" and "high viscosity material mixing paddle" technology has been recognized as high-tech products, YeKeey also passed the "high-tech enterprise" certification in 2018.

The relentless pursuit of reliable quality is the foundation of YeKeey and the key to YeKeey's growth. Since 2003 YeKeey fully implemented the ISO9001 quality system, the company's products have passed the EU CE safety certification, and in 2018 entered the shortlisted CCTV "QUALITY" column made in China Top Ten quality selection. Today, YeKeey's mixing equipment, emulsifying equipment, filling equipment and the whole plant output scheme has been applied in more than 70 countries and regions of more than 4000 enterprises and institutions, and well recognised by the customers.

In the future, YeKeey will, as always, adhere to the "professional, focused, dedicated service" business philosophy, and strive to build long-term partnership with customers. No matter where you are, no matter what problems you face, our products and services will help you solve problems easily and create extraordinary value.

无锡意凯自动化技术有限公司（简称意凯，英文 YeKeey）主要致力于精细化工装备、制药装备及高端食品加工装备的开发、设计、制造及技术服务。自建立以来，意凯始终坚持以客户为中心，通过创新的产品为客户创造价值；始终坚持以奋斗者为本，让有贡献者得到合理回报；始终坚持与供应商、合作伙伴、行业组织、大学、研究机构等构建共赢的生态圈，推动技术进步与产业发展。

1998 年建立至今的 20 余年间，意凯始终致力于技术研发与产品升级，坚持每年将销售利润的 10% 投入研发之中，组件了一支由本科生、研究生及外籍专家为核心的科研团队。截至 2020 年，意凯已累计获得专利授权 51 件、软件著作权 2 件，其中“真空均质乳化机”、“高黏性物料搅拌桨”技术获得了高新技术产品认定，意凯也于 2018 年通过了“高新技术企业”的认证。

对可靠品质的不懈追求，是意凯的立信之本，也是意凯的发展壮大之钥。自 2003 年意凯全面推行 ISO9001 质量体系以来，公司的多款产品通过了欧盟 CE 安全认证，并于 2016 年入围央视“品质”栏目中国制造十佳品质评选。如今，意凯制造的搅拌设备、乳化设备、灌装设备及整厂输出方案已应用在 70 多个国家及地区的 4000 余家企业及机构中，并获得了客户的广泛赞誉。

未来，意凯将会一如既往地坚持“专业、专注、全心服务”的企业理念，倾力打造与客户的长期伙伴关系。无论您身在何处，无论您面对何种难题，我们的产品与服务，都将助您轻松化解难题，创造非凡价值。



Development course

发展历程

1998

成立无锡市佳诺精细化工设备厂
Company founded as Wuxi Jianuo
Fine Chemical Equipment Factory in
Wuxi, China.


2002

第一台 PLC 控制的真空
均质乳化机试制成功
Successfully developed
vacuum emulsifying
mixer with PLC control.

2005

自主研制的 SXJ-1300 和
YLS-1300 的硅胶生产线出
口西班牙
Independent research and
development the SXJ-1300
and YLS-1300 Silicon
production line and export
to Spain.

自主研制的 ZJR-1300 真空均
质乳化机出口美国
Independent research and
development the ZJR-1300
vacuum emulsifying mixer
and export to the USA.


2008

占地二万平方米现代化
生产基地竣工
20,000 square meters
modern production
base are established.

1999

首台瞬间胶软管灌装封尾
机研制成功
Successfully developed
the glue soft tube filling
and sealing machine.


2000

首台丙烯酸 A、B 胶灌封
机下线
Successfully developed
the A,B glue filling and
sealing machine.

2003

顺利通过 ISO9001 质量
体系认证
Successfully obtained
ISO9001 quality system
certification.


2006

顺利通过欧盟CE认证
Successfully obtained the
international European
CE certification.



与加拿大合作成立无锡意
凯自动化技术有限公司
Jianuo cooperated with
Canada and established
Wuxi YK Automation
Technology Co., Ltd.
(YeKeey)

2013

高强度超能混合机试制成功
Successful trial production
of SPP mixer.


2016

被评为江苏省科技型中小企业
Company was rated as a
Jiangsu science and tech-
nology SME.



意凯成为央视《品质》栏
目上榜企业
Company became a listed
company in CCTV's "Qual-
ity" column.


2018

获得高新技术企业荣誉称号
Company won the honorary
title of high-tech enterprise.



SPA/C 系列标准化乳化系
统研制成功
SPA / C series standard-
ized emulsifying plant
was successfully devel-
oped.


2020

荣获江苏省“工业设计中心”
认定
Recognized as "Industrial
Design Center" of Jiangsu
Province.


2012

首台六头平行反应釜研制
成功并在航天某研究所正
式投入使用
The first six-head parallel
reactor was successfully
developed and officially
put into use in an aero-
space research institute.


2015

意凯生产的乳化机被评为
江苏省优质产品
The emulsifying mixer was
rated as high-quality pro-
duct in Jiangsu Province.



Mixcore 再循环乳化机研制
成功并投产
The Mixcore recirculating
emulsifier developed and
put into production

2017

成功获得《无菌乳化机》
发明专利
Patent pending "Sterile
Emulsifying Machine".


2019

150Kw 屋顶光伏发
电项目落成
150Kw rooftop
photovoltaic power
generation project
completed.

获得压力容器制造许
可资质
Obtained pressure
vessel manufactur-
ing license.



十万级净化的工艺验
证实验室落成
100, 000-level puri-
fication process
verification laborato-
ry was completed.



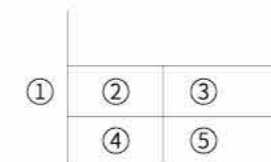
Honors & Qualifications

企业荣誉与资质



Large - Scale Production

规模化生产



- ① 乳化设备生产车间
Manufacturing workshop of emulsifying mixers.
- ② 灌装设备生产车间
④ Manufacturing workshop of filling machines.
- ③ 搅拌设备生产车间
⑤ Manufacturing workshop of mixing machines.



Quality Assurance Program

品质管理流程

意凯的品质管理理念贯穿在产品的全制造周期中。
Yekey's quality management runs through the product's entire manufacturing cycle.

设计 Design

Yekey has an experienced technical team. Professional engineers and technicians will make suitable selection recommendations according to different needs of customers, and provide customized design for special needs. Proper selection can improve the production efficiency and quality of customers' products.

意凯拥有一支经验丰富的技术团队，专业的工程技术人员会依据客户的不同需求而做出合理的选型推荐，并为特殊的需求提供量身定制的设计。合理的选型可以提高客户的生产效率和产品品质。



制造 Manufacture

Yekey's quality management starts from the warehouse entry inspection of raw materials. Only quality checked raw materials can be cut, formed, welded and polished. Automatic high-precision manufacturing equipment can guarantee of the functionality and interchangeability of the parts.

Quality parts will be assembled and checked by our assembly engineers with precise tools according to the drawings and technical requirements. We take the assembly of every set of equipment seriously.



意凯的品质管理始于原材料入库验收，只有验收合格的原材料才会进入切削、成型、焊接和抛光等工序。自动化的高精度制造设备可确保所产零件的性能和可互换性。

高品质的零部件将由我们的组装工程师使用精密的工具，按照图纸和技术要求来组装并调试。每一套设备的组装我们都认真对待。



质检 Quality inspection

The whole equipment inspection before delivery is very important. The most experienced professional engineer will carefully check and test the internal and external surfaces of the equipment and various performance parameters according to the technical requirements. Only the machine that passes all the quality inspection processes will be finally delivered to customers.

设备出厂前的全机检验至关重要。最有经验的专业工程师会依据技术要求对设备的内外表面和各项性能参数进行仔细核对和测试，只有通过了全部质检流程并全部合格的设备才会最终交付到客户手中。



分贝 Sound Level meter



超声波测厚 Ultrasonic thickness gauge



管道内窥镜 Pipeline endoscope



粗糙度 Surface roughness tester



红外测温 Laser thermometer



电导率 Conductivity meter

Green & Clean

绿色供能

2019年, 150KW屋顶分布式光伏系统竣工, 意凯以绿色供能致力于实现全公司2030年碳中和。

In 2019, with the 150KW dispersed roof photovoltaic system completed, Yekeye is dedicated to accomplishing the carbon neutralization of the whole company by 2030 with green energy supply.



Social Responsibility

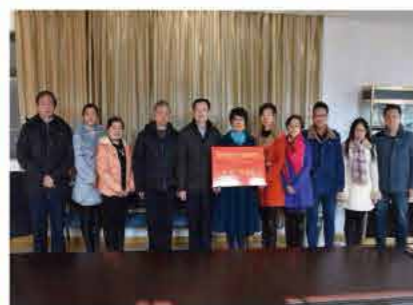
社会责任

意凯以回馈社会、共生共享的精神为指引, 不断深化企业社会责任的践行, 将可持续发展理念融入到业务运营的方方面面, 坚守企业责任之道, 在获得丰硕成果的同时, 为社会的可持续发展蓄积动力。

Guided by the spirit of contribute to the society and sharing, Yekeye continuously deepens its practice of social responsibility, and integrates the concept of sustainable development into all aspects of business operation, and at the same time of achieving fruitful results, the company also contributes for the sustainable development of the society.



2018无锡非公经济人士好榜样
2018 Non public economic good person



组织为白血病学生捐款送温暖
Organizing donations for leukaemia students



江南大学企业家辅导员
Instructor of Entrepreneur of Jiangnan University

Value Co-Creation

价值共创

为了让客户拥有更好的使用体验, 意凯正在与国内外的数百家企业合作, 通过材料、工艺、工业物联网等技术的研发与创新, 为客户提供高附加性能的产品。在与客户的合作过程中, 我们为客户提供其所需的支持, 针对客户购买、使用过程中可能提出的任何要求、疑问, 提供全方位的解决方案, 使客户的购买、使用更加便捷。

多年来我们注重企业的知识产权布局, 获得多项发明专利与实用新型专利, 并将专利技术深度应用于自身的经营当中, 促进行业专利技术的应用和转化。

To give customers better using experience, Yekeye is cooperating with hundreds of enterprises in China and abroad to provide customers with high performance products through the research, development and innovation of materials, processing techniques, industrial internet of things and other technologies. We provide customers with the support they need, and provide all-round solutions for any requirements and questions that may be asked when they purchase and use our products, to make customers Purchasing and using more conveniently.

For many years, we have paid attention to the intellectual property arrangement of our company. We got a number of patent for invention and utility models, and deeply applied these patent technologies into our business, and transformed the patent technologies into this industry.



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乳化及搅拌设备 Emulsifying & Mixing Equipment

Emulsifying Machine Series

乳化机系列

乳化机是日化、食品、制药等行业常见的一种操作单元，用于将两种不相溶的液体（其中之一几乎总是水，另一相为不溶于水的“油”）转变成均匀分布的液液分散体系（乳液）的设备。依据乳状液稳定性理论，要使形成的分散体系长期保持相对稳定状态，液滴应尽可能小，通常需要小于 10um。意凯所生产的乳化机都是基于这一原理设计，通过高速旋转的高剪切定转子系统及相应的刮壁搅拌系统所提供的机械能，使一相混入到另一相之中，通过粗液滴的变形和破裂，使粗液滴的直径不断减小以至最终完成均匀的乳化过程。

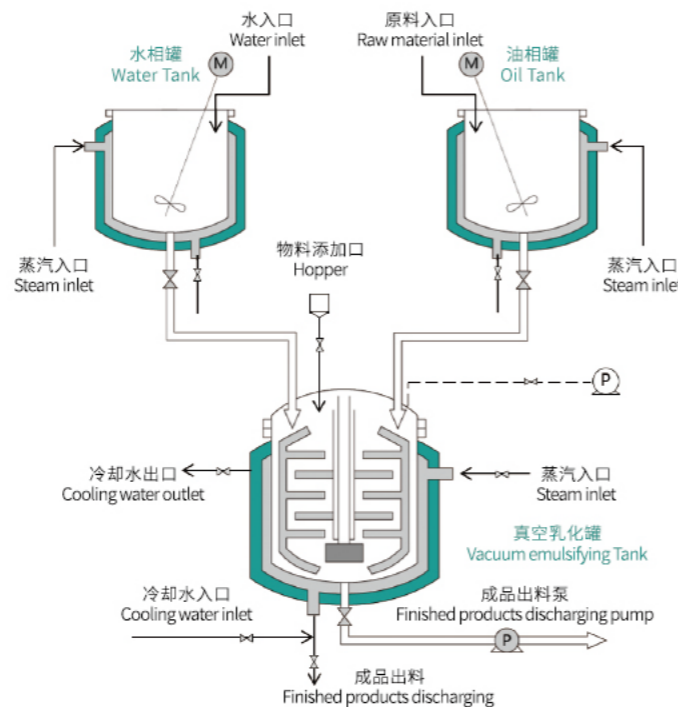
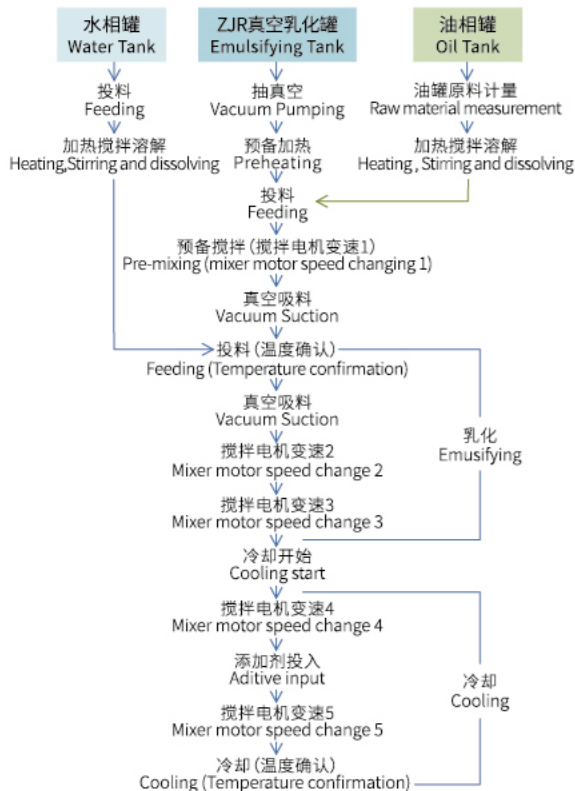
Emulsifying machine is a common operation unit in daily chemical, food, pharmaceutical and other industries. It is used to transform two immiscible liquids (one of which is almost always water and the other is an insoluble "oil"). equipment to form a uniformly distributed liquid-liquid dispersion system (emulsion). According to the emulsion stability theory, in order to keep the formed dispersion system relatively stable for a long time, the droplets should be as small as possible, usually less than 10um. Emulsifiers produced by YeKeey are designed based on this principle. One phase is mixed into the other phase through the mechanical energy provided by the high-speed rotating high-shear stationary rotor system and the corresponding scraped wall stirring system. The deformation and rupture of the liquid droplets make the diameter of the coarse liquid droplets continuously decrease, so that the uniform emulsification process is finally completed.



ZJR乳化机对转式搅拌桨及高剪切均质器

乳化机工艺流程图

Technological process of emulsifying machine



工作原理

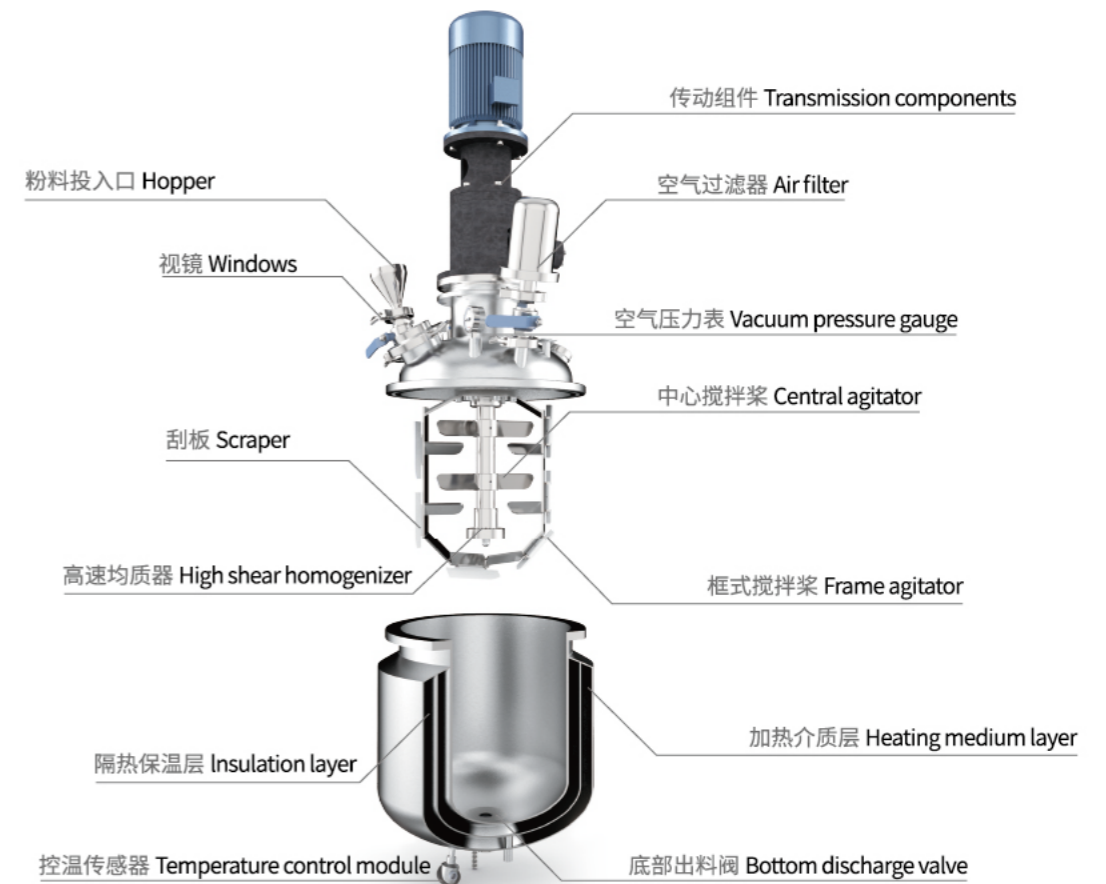
working principle

物料在预处理罐内通过加热、搅拌进行初步混合分散后，由真空泵形成的负压吸入乳化罐。物料在乳化罐内通过刮壁搅拌桨和高剪切均质器的共同作用，经历搅拌、剪切、冲击、压缩等复杂的综合过程，迅速被破碎成 120nm 至 2um 的微液滴，从而形成稳定的乳液状态。在此过程中，由聚四氟乙烯制作的刮壁板可始终贴合罐体内表面，迅速扫净壁面，使料体与罐壁不断形成新壁面，提高热交换效率的同时保证罐内高粘度料体的均一性。同时，设备所配置的高真空系统可以快速抽出制备过程中产生的空气，避免成品料体中因含有气泡而造成的氧化或污染，并且经脱泡后的料体更具光泽和延展性。

After the materials are initially mixed and dispersed in the pretreatment tank by heating and stirring, the negative pressure formed by the vacuum pump suck the material into the emulsifying tank. In the emulsification tank, the material is quickly broken into micro-droplets of 120nm to 2um through the combined effects of stirring, shearing, impacting, and compression through the combined action of a scraping wall stirring paddle and a high-shear homogenizer, then become the stable emulsion state. In this process, the scraper wall made of polytetrafluoroethylene can always adhere to the inner surface of the tank, and quickly clean the wall surface, so that the material body and the tank wall continue to form a new wall surface, which improves the heat exchange efficiency while ensuring the homogeneity of the high viscosity material body in the tank. At the same time, the equipment is equipped with a high-vacuum system that can quickly extract the air generated during the preparation process, avoid oxidation or pollution caused by bubbles in the finished material, and the material after defoaming is more shiny and ductile.

基本结构说明图

Illustration of basic structure



ZJR Series Full Function Vacuum Emulsifying Machine

ZJR 系列全能真空乳化机

基础配置 Basic Configuration

- 乳化罐罐盖为自动升降式，主罐可翻转倾倒。
- 乳化罐内配有高剪切均质器和对转式刮壁搅拌路4mm Y: 1939.08mm
- 配有水相罐和油相罐两个预处理罐。
- 预处理罐内装有高速分散系统。
- 系统配有真空系统，预处理罐内物料可通过负压吸入乳化罐。
- 罐体内外表面镜面抛光，符合卫生级要求。
- 采用夹层电加热的加热方式，传热均匀，控温精度高，系统也接入冷却水进行冷却。
- 采用按钮或PLC的控制方式，简单、明了，易上手。

- It is an automatic lifting type for the lid of emulsification tank with the main tank invertible and dumpable.
- The emulsification tank comes with a high shear homogenizer and a counter-rotating scraper.
- It includes 2 pre-treatment tanks. One is the water phase tank, the other is the oil phase tank.
- A high speed dispersion system exists inside the pre-treatment tank.
- There is a vacuum system inside the emulsifying equipment with the working materials in the pre-treatment pot able to be sucked into the emulsification tank using the negative pressure.
- They are mirror polished for both inner and outer surfaces of the tank to meet the sanitary requirements.
- It adopts the electric heating method through the jacket layer, resulting in uniform heat transfer and high accuracy of temperature control. Moreover, the system can be connected to the water supply for cooling.
- Customers can select the control mode alternatively using the PLC or button.

优势 Key Benefits

- 适应高粘度料体，最高粘度可达80,000MPa.s*。
- 乳化效果好，所形成乳液稳定，微液滴粒径通常小于5um。
- 主罐可采用倾倒或通过罐底阀的出料方式。
- 所配真空系统可使乳化罐内形成-0.093MPa真空度。
- 与物料直接接触部位采用优质316不锈钢材质。**
- 加热温度采用PID控制，加热迅速、控温精度高。
- 加热夹层外设置有隔热保温层，防止操作人员烫伤。
- 全系列配置LED罐内照明及带刮壁的观察手孔。
- 结构便于清洁及养护。
- 设备内设置有大量防呆及其他保护机构，尽可能的避免人员伤害及设备的意外损坏。
- 可接受其他的功能定制。

- Suitable for high viscosity materials with the highest viscosity up to 80,000MPa.s*.
- Good emulsification effect & stable emulsion form, the particle size of the micro-droplets is usually less than 5um.
- The main tank can be dumped and discharged through the bottom valve.
- Includes a vacuum system that can form a high vacuum value above -0.093MPa in the emulsification tank.
- The parts in direct contact with the working material are made of high quality stainless steel 316.**
- The heating temperature is controlled by PID with the features of fast heating and high accuracy of temperature control.
- A heat insulation layer is provided outside the heating jacket to prevent the operator from being burned.
- It comes with LED lighting inside tank and sight glass with scraper.
- It is easy to clean and maintain for the machine structure.
- A lot of anti-daze and other protection mechanisms are set inside the equipment to avoid personnel injury and accidental damage to the equipment as much as possible.
- Other functions can be customized.



Pilot type full function emulsifier

中试型全能乳化机



型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)	
				主罐 main tank	主罐 main tank
ZJR-30	30	25	10	1400x600x1900(2400)	1400x600x1900(2400)
ZJR-50	50	40	15	1400x600x1950(2500)	1400x600x1950(2500)
ZJR-100	100	80	30	1750x650x2150(2850)	1750x650x2150(2850)
ZJR-150	150	120	45	1900x780x2380(3000)	1900x780x2380(3000)

Production type full function emulsifier

ZJR生产型全能乳化机



型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)	
				主罐 main tank	主罐 main tank
ZJR-250	250	200	75	2600 x 1900 x 2500(3500)	
ZJR-350	350	280	100	3000 x 2750 x 2750(3850)	
ZJR-650	650	500	200	3650 x 3400 x 3300(4560)	
ZJR-850	850	700	250	3750 x 3550 x 3350(4800)	
ZJR-1300	1300	1000	400	4900 x 3300 x 3000(4600)	
ZJR-2500	2500	2000	750	4800 x 4400 x 3300(4800)	

* 需定制高粘度均质器及搅拌桨。 Need to customize high viscosity homogenizer and stirring paddle

** 可选配304材质。 SS304 is for option

ZJR-Lab Laboratory Emulsifying Machine

ZJR 系列全功能“实验型”真空乳化机



优势 Key Benefits

- 更多的设计余量,可适应各类物料的作料需求。
- 容积完全相等的两只预处理罐,可适应各种配料比例。
- 全系列采用PLC控制,智能控制,方便操作与维护。
- 超高转速的精密高剪切均质系统,可稳定运行于6000RPM。
- 带轮子的一体化机架设计,方便设备的使用和储藏要求。
- 全304不锈钢包壳,方便清理。
- 标配真空保护系统,保护真空泵的同时避免原料比例的破坏。

专利产品

Patented product

专利号

Patent No. ZL 2016 2 0741990.9

- More design margins can meet the needs of various materials.
- Two pretreatment tanks with completely equal volumes can be adapted to various proportions of ingredients.
- The entire series adopts PLC control and intelligent control for easy operation and maintenance.
- Ultra-high speed precision high-shear homogenizing system, stable operation at 6000RPM.
- The integrated rack design with wheels is convenient for equipment use and storage.
- All 304 stainless steel cladding, easy to clean.
- Equipped with a vacuum protection system as standard to protect the vacuum pump while avoiding damage to the proportion of raw materials.

型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)
ZJR-5	6	4	2.5	1400 x 600 x 1700(2000)
ZJR-10	11	8	5	1500 x 600 x 1700(2000)

SP Series External Circulation Emulsifying Machine

SP系列外循环乳化机



基础配置 Basic Configuration

- 分为SPA与SPC两大类, SPC为带升降的单机设备, SPA更适用于工程安装。
- 设备配有底装的内循环或外循环高剪切均质器。
- 乳化罐内标配带有刮壁的双向搅拌桨。
- 与ZJR系列一致的乳化效果。
- The external circulation emulsifying machine can be divided into 2 classifications SPA & SPC. SPC is the individual equipment with jacking system. Comparatively speaking, SPA is more suitable for engineering installation.
- The equipment is fitted with a high shear homogenizer with an internal or external circulation system, featuring bottom-mounted.
- The emulsifying tank comes with a two-way stirring paddle with a scraped wall as per the standards.
- Regarding the emulsifying effect, it can be the same as ZJR Series of multi-functional vacuum emulsifying machine.

优势 Key Benefits

- 可选配316不锈钢材质。
- 可选配各类操作方式。
- 罐内构造便于清洁和养护,可选装CIP清洗系统。
- 设备结构简单、可靠,性价比高。
- 各类功能均可定制。
- SS316 is optional.
- Various kinds of operation modes are optional.
- Easy to clean & maintain for the internal structure.
- Available to choose to mount CIP cleaning system.
- It is simple, reliable and cost-effective in equipment structure.
- Other functions can be customized as well.

型号 Model	设计容积 Design volume(L)	最小工作容积 Min. Useful volume (L)	最大工作容积 Max. useful volume (L)	外形尺寸 Dimensions (L x W x H mm)
SPA-650	650	110	520	1250 x 1250 x 2960
SPA-1300	1300	200	1000	1500 x 1500 x 3610
SPA-2000	2000	350	1500	1720 x 1720 x 3940
SPA-3000	3000	500	2500	1970 x 1970 x 4570
SPA-4000	4000	650	3000	2150 x 2150 x 4700
SPA-5000	5000	800	4000	2270 x 2270 x 5000
SPA-6000	6000	1000	5000	2270 x 2270 x 5220

MixCore Vacuum Homogenizing & Mixing Plant

高效再循环乳化机

Mixcore 是用于生产膏霜、乳液、软膏、凝胶、牙膏和食品酱料的理想设备。Mixcore乳化系统的核心是安装于罐体下方的定转子均质器。这种结构可以确保罐体内的所有原料在排出之前至少可以通过均质器两次，因为原料是通过运行中的均质器吸入的，并且出料也是通过均质器的输送能力泵出。均质器的输送能力也能为CIP清洗提供动力。

为了适应每个客户不同的需求，Mixcore又分为H和V两个不同的版本。H为横置安装的均质器，这种设计在提高粉体吸入效率的同时，降低机器高度；V为竖置安装的均质器，这种设计洁净程度更高，适合有高卫生要求的应用场合。

Mixcore vacuum homogenizing emulsifying mixer machine is our top pick for production of chemicals & pharmaceuticals, such as cream, lotion, ointment, gel, toothpaste and other food sauce.

The major component of it is the rotor stator homogenizer installed at the bottom of the tank. The structure of it can ensure that all the materials pass through the homogenizer twice at least before being discharged for the simple reason that the materials can be sucked into the running homogenizer that helps the materials pump out by its conveying capacity.

Moreover, the conveying capacity of the homogenizer can also provide power for CIP cleaning.

Mixcore vacuum homogenizing emulsifying mixer machine is classified into two different designs that are H & V (H symbolizes a horizontally installed homogenizer, V stands for a vertically installed homogenizer). The horizontal design is conducive to improving both the suction efficiency of powder and lowering the height of equipment. The vertical design is comparatively clean and suitable for the application requirements of high hygiene.

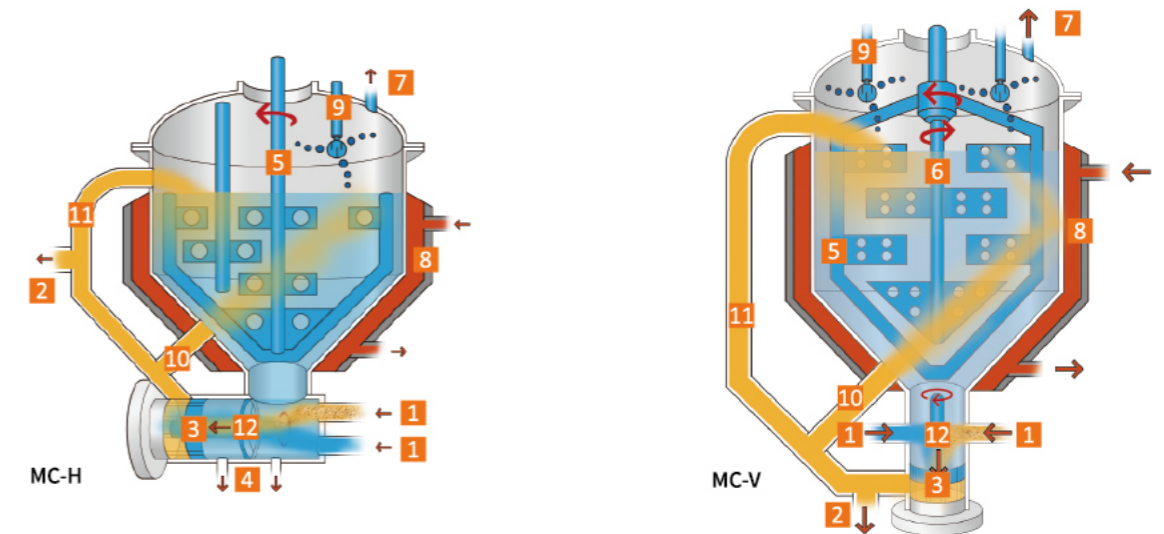


优势 Key Benefits

- 独特的高效混合和再循环均质系统。
 - 采用卫生级双端面机械密封。
 - 粉体物料可无尘吸入并快速分散。
 - 较 ZJR 系列乳化机再循环系统可减少 60% 的生产时间。
 - 均质系统自带泵效，可缩短出料时间。
 - 系统自带 CIP 功能。
 - 可定制无菌乳化系统。
 - 最高处理粘度可达 100,000MPas
 - 更合理的操作界面及人机工程学设计。
 - 最小生产量可至全容积的 20%。
- Unique and efficient mixing and recycling homogenization system
 - Adopt sanitary double face mechanical seal
 - Powder material can be inhaled without dust and quickly dispersed
 - Compared with ZJR series emulsifier, it can reduce 60% of the production time
 - The homogenization system has its own pump effect, which can shorten the discharging time
 - With CIP function
 - Sterile emulsification system can be customized
 - Highest viscosity up to 100000mpas
 - More reasonable operation interface and ergonomic design
 - The minimum production can reach 20% of the total volume

型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)
MC-H-15	15	12	3	1400 x 900 x 1600 (1650)
MC-H-50	50	40	10	1400 x 1500 x 1800 (2100)
MC-H-150	150	120	30	1600 x 1500 x 2100 (2250)
MC-H-350	350	280	70	2000 x 1750 x 2300 (2500)
MC-H-650	620	500	130	2300 x 1900 x 2700 (2900)
MC-H-1300	1300	1000	260	3000 x 2100 x 3100
MC-H-2500	2500	2000	500	3100 x 2300 x 3700

型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)
MC-V-30	30	25	6	1250 x 1050 x 1700 (2050)
MC-V-100	100	80	20	1400 x 1200 x 2200 (2700)
MC-V-250	250	200	50	1900 x 1500 x 2700 (3400)
MC-V-650	650	500	130	2400 x 1800 x 3000 (3900)
MC-V-1300	1300	1000	260	2500 x 2000 x 3600 (4800)
MC-V-2500	2500	2000	500	3000 x 2000 x 4000 (5000)



- | | | | |
|--------------------------------|-------------------------------------|-------------------------|--|
| 1 Raw materials infeed
原料进口 | 2 Product discharge
排料口 | 3 Homogenizer
高剪切均质 | 4 Residue discharge/CIP recirculation
清洗排污口 |
| 5 Scraper agitator
刮壁搅拌桨 | 6 Center rotating agitator
中心搅拌桨 | 7 Vacuum system
真空系统 | 8 Heating/cooling
加热/冷却夹层 |
| 10 Internal loop
内循环管路 | 11 External loop
外循环管路 | 12 Premix
预混合 | 9 CIP
在线清洗 |
| | | | 13 HMI
人机界面 |

Customized Emulsifying Machine

定制型乳化机

无菌型真空均质乳化系统
Sterile vacuum homogenization emulsification system
专利号 Patent No. ZL 2016 2 0741990.9



双联型真空乳化机
Double vacuum emulsifying machine



全自动真空乳化机
Automatic vacuum emulsifying machine



简易型可开盖真空乳化机
Simple type open cover vacuum emulsifying machine



平台式乳化罐
Platform type emulsifying tank



ZGJ Toothpaste Making Machine

ZGJ 制膏机系列

制膏机是牙膏生产的关键工序，该设备的工作原理就是按一定的生产工艺将各种原料依次投入制膏机内，通过强力搅拌、分散、研磨使各种原料充分分散和混合均匀，最后经真空脱气成为膏体。ZGJ 系列制膏机是我司在已有技术的基础上，优化了刮壁搅拌桨，高速分散系统、高剪切均质系统与真空系统，以提升整体设备的性能，保证生产能按设定的制膏工艺和配方制得质量合格和质量稳定的膏体。

The paste making machine is the key machine of the process of toothpaste production. The working principle of this equipment is to sequentially put various raw materials into the machine according to a certain production process, and making the all materials fully dispersed and mixed uniformly through strong stirring, dispersion, and grinding. Finally, after vacuum degassing, it becomes the paste. Based on our company's existing technology, we have optimized the scraper blades, high-speed dispersion system, high-shear homogenization system and vacuum system to improve the performance of the overall equipment and ensure that production can be set according to the settings, paste manufacturing process and formula to obtain qualified and stable paste.



平台安装型制膏机
Platform mounted
paste making machine



基础配置 Basic Configuration

- 制膏工艺在密闭的罐内在真空状态下操作。
- 罐体由优质不锈钢制造，配有夹套用于加热或冷却。
- 配有桨式搅拌和刮板，使物料不产生堆积和死角，同时活动的刮板能自动贴近内壁，将物料刮下，使温度传递均匀。
- 配有高速分散器或高剪切均质器，通过高速转动将粉料和液料混合，并在制膏锅内产生翻动，使物料均匀细腻。
- 配有双极真空泵，罐内极限真空度可达 -0.098MPa。
- 采用一步法工艺，在制膏机内完成所有的制膏操作，显著减少物料损失。
- 可配套原料输送系统、自动计量与控制系统，通过计算机操作，实现了制膏自动化。
- The paste is made in a airtight tank and operated under vacuum.
- The tank is made of high-quality stainless steel with a jacket for heating or cooling.
- Equipped with paddle-type stirring and scraper, so that the materials do not have accumulation and dead corners. At the same time, the movable scraper can automatically press close to the inner wall and scrape the material to make the temperature uniform.
- Equipped with a high-speed disperser or a high-shear homogenizer, which mixes powder and liquid materials through high-speed rotation, and generates a turn in the paste-making pot to make the material homogeneous and delicate.
- Equipped with a bipolar vacuum pump, the ultimate vacuum degree in the tank can reach -0.098MPa.
- Using a one-step process, all paste operations are completed in the paste machine, which significantly reduces material loss.
- It can be equipped with raw material conveying system, automatic metering and control system, and realizes automation of paste production through computer operation.



优势 Key Benefits

- 制膏机将制胶过程和研磨、搅拌、抽真空三个制膏过程在一个制膏锅内完成，显著减少物料损失，降低膏体污染，提高了生产的效率和清洁性。
- 一步法生产可避免由于原来敞开制膏设备所造成的脱气不完全、香精容易散发的的问题。
- 控制系统操作简单，性能稳定。
- 特别适合密度较小、触变性较好的二氧化硅型牙膏。
- The paste making machine completes the glue making process and the three paste making processes of grinding, stirring and vacuuming in one pot, which significantly reduces material loss, reduces paste pollution, and improves production efficiency and cleanliness.
- The one-step production can avoid the problems of incomplete degassing and the easy distribution of essence due to the original open paste manufacturing equipment.
- The control system is simple to operate and stable in performance.
- It is especially suitable for silica-based toothpaste with lower density and better thixotropy.



选配：高剪切均质器
Option: High shear homogenizer

型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)
ZGJ-15	15	12	5	2600 x 1900 x 2500(3500)
ZGJ-50	50	40	15	3000 x 2750 x 2750(3850)
ZGJ-100	100	80	30	3650 x 3400 x 3300(4560)
ZGJ-350	350	280	100	3750 x 3550 x 3350(4800)
ZGJ-650	650	500	200	4900 x 3300 x 3000(4600)
ZGJ-1300	1300	1000	400	4800 x 4400 x 3300(4800)

SXJ Planetary Dispersion Mixer

SXJ 行星分散搅拌机



SXJ行星分散搅拌机是我司研发的一种新型高效无死点混合设备,它具有独特、新颖的搅拌形式,釜内有两个门式或麻花式搅拌器,一个高速分散器和一个自适应刮刀,搅拌器在绕釜体轴线公转的同时,又以不同的转速绕自身轴线高速自转,使物料在釜体内作复杂的运动,受到强烈的剪切和捏合。此外设备内的自适应壁刀绕釜体轴线转动,可将粘在壁上的物料刮下参与混合,提高换热效率,并提升混合效果。釜体采用特殊密封结构,可进行抽真空搅拌,具有良好的排气除泡效果。罐体夹套可根据用户需要进行加热、冷却。出料方式为压料式,设备釜盖可液压升降,釜体可自由移动,操作十分方便。而且搅拌桨及刮刀可随横梁上升而完全脱离釜体,便于清洗。

适用范围 Application

聚合物锂离子电池液及液态锂离子电池液、电子电极浆料、粘合剂、模具胶、硅酮密封胶、聚氨酯密封胶、厌氧胶、油墨、颜料、化妆品、药膏、电子、化工、食品、制药等。

SXJ planetary dispersion mixer is a new type of high-efficiency non-dead-point mixing equipment developed by our company. It has a unique and novel stirring form. There are two door type or twist type mixers in the kettle, a high-speed disperser and an adaptive scraper. When the agitator revolves around the axis of the kettle body, it rotates at high speeds around itself axis at different speeds, so that the material makes complex movements in the kettle body, subject to strong shearing and kneading. In addition, the self-adaptive wall knife in the equipment rotates around the axis of the kettle body, which can scrape the materials stuck on the wall to participate in mixing, improve the heat exchange efficiency, and improve the mixing effect. The kettle body adopts a special sealed structure, which can be evacuated and stirred, and has a good exhaust and defoaming effect. Tank jacket can be heated and cooled according to user needs. The discharging method is press type. The kettle lid of the equipment can be lifted hydraulically, and the kettle body can move freely, which is very convenient to operate. Moreover, the stirring slurry and scraper can be completely separated from the kettle body with the beam rising which is convenient for cleaning.

Polymer lithium-ion battery liquid and liquid lithium-ion battery liquid, electronic electrode slurry, adhesives, mold glue, silicone sealant, polyurethane sealant, anaerobic adhesive, ink, pigment, cosmetics, salve, electronics, chemical industry, Food, pharmaceutical, etc.



卫生型行星搅拌机
Sanitary planetary mixer



实验室型行星搅拌机
Laboratory planetary mixer

优势 Key Benefits

- 主机采用行星齿轮设计,低噪音,机械效率高,可节省动力使用及减少设备占用空间。
- 该设备适用于多组份固-固相、固-液相、液-液相物料的混合、反应、分散、溶解、调质等工艺,如油墨、颜料、粘胶剂、密封胶、封装胶软膏、糊状物料、润滑脂、油漆、膏状化妆品、添加物等多种高粘稠物的制备。
- 设备使用粘度范围10,000-2,000,000MPas左右。
- 双行星混合机具有低转速大扭矩特点,高粘度和触变性物料可以得到充分彻底的混合分散而不产生过热现象。
- 搅拌器的形式可根据物料要求安装多层桨叶式、框式、蝴蝶式、外轮式等。
- 可选配防爆或防腐配置。
- The host adopts planetary gear design, low noise and high mechanical efficiency, which can save power usage and reduce equipment occupation space.
- This equipment is suitable for multi-component solid-solid phase, solid-liquid phase, liquid-liquid phase material mixing, reaction, dispersion, dissolution, and quenching and tempering processes, such as inks, pigments, adhesives, sealants, sealants preparation of ointments, paste materials, greases, paints, cream cosmetics, additives and other highly viscous materials.
- The viscosity range of the equipment is about 10,000~2,000,000MPas.
- The double planetary mixer has the characteristics of low speed and large torque. High viscosity and thixotropic materials can be fully and thoroughly mixed and dispersed without overheating.
- The type of agitator is installed with multi-layer paddle type, frame type, butterfly type, outer wheel type, etc. according to the requirements of the material.
- Optional explosion-proof or anti-corrosion configuration.

型号 Model	设计容积 Design volume(L)	最大工作容积 Max. useful volume (L)	最小工作容积 Min. Useful volume (L)	外形尺寸 Dimensions (L x W x H mm)
SXJ-10	10	8	1.5	990 x 910 x 2360
SXJ-50	57	40	5.5	1200 x 760 x 2100(2750)
SXJ-100	108	80	7.5	1550 x 800 x 2650(3350)
SXJ-200	200	160	11	1700 x 950 x 2760(3660)
SXJ-300	350	300	15	2000 x 1100 x 3160(4100)
SXJ-500	505	400	22	2150 x 1250 x 3380(4400)
SXJ-1000	1045	800	37	2450 x 1580 x 3860(5100)

Customized Mixer

定制型搅拌机



无菌搅拌罐
Sterile mixing vessel



移动储罐
Removable storage tank



真空储罐
Vacuum storage tank



香水搅拌机
Perfume mixing vessel



真空搅拌罐
vacuum mixing vessel

LR High Shear Homogenizer

LR 高剪切均质器



LR系列高剪切均质器是我司依据乳状液稳定性理论研发而成。该设备通过高速旋转的高剪切定转子系统所提供的机械能，使一相混入到另一相之中，通过粗液滴的变形和破裂，使粗液滴迅速被破碎成120nm至5um的微液滴*，最终完成均匀的乳化过程。

The LR series high-shear homogenizer was developed by our company based on the emulsion stability theory. This equipment uses the mechanical energy provided by the high-speed rotating high-shear stator and rotor system to mix one phase into the other. Through the deformation and rupture of the coarse droplets, the coarse droplets are quickly broken into micron 120nm to 2um. The liquid droplets finally complete a uniform emulsification process.



优势 Key Benefits

- 采用吊架的形式，可方便推至任意地点使用。
 - 操作灵活，投资小，效率高。
 - 全系列标配电动升降，减轻工作强度。
 - 可以单独使用，也可与其他设备配套使用。
 - 与物料接触部位采用优质304/316不锈钢材料。
 - 可更换不同类型定转子，满足不同的作料需求。
- The form of hanger can be easily pushed to any place for use.
 - Flexible operation, small investment and high efficiency.
 - All series are equipped with electric lift as standard to reduce work intensity.
 - Can be used alone or in conjunction with other equipment.
 - The contact part with the material is made of high-quality 304/316 stainless steel.
 - Different types of stators and rotors can be replaced to meet different material requirements.

型号 Model	推荐处理量 Capacity (L)	功率 Power (kw)	转速 Speed (rpm)
LR-05	5-10	0.75	8000
LR-50	≤50	1.5	3000
LR-150	≤150	3	3000
LR-300	≤300	5.5	3000
LR-500	≤500	7.5	3000
LR-1000	≤1000	11	3000

* 依据物料的特性不同，粒径会有所变化。



LR-05 实验室型高剪切均质器
LR-05 Lab high shear homogenizer

Colloid Mill

胶体磨

胶体磨由3级可调间隙的锥形定子和4级高速旋转的锥形转子形成研磨模块,根据生产要求,剪切研磨间隙可从0.01mm至2mm无级调节,定转子每一级上的凹槽一级比上一级精细。当物料经过的时候,形成强有力的挤压、剪切、乳化、粉碎、混合、分散均质及研磨作用。从而得到超微粒乳化的物料。锥形定子外围、出料腔及密封件部位有循环水冷却。



The colloid mill is composed of a 3-stage tapered stator with adjustable clearance and a 4-stage tapered rotor with high speed rotation. The shear grinding clearance can be adjusted from 0.01mm to 2mm steplessly according to the producing request. The flute of the rotor is more and more delicate by steps.

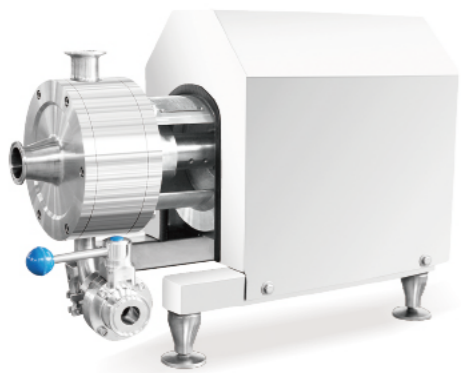
When the material goes through, it forms strong pressing, cutting, emulsifying, crushing, mixing, dispersing and grinding. Then get the delicate ultramicrosome. There is circulating water to cool surrounding of cone stator, discharging cavity and seals.



Pipelined Emulsification Pump

管线式乳化泵

管线式乳化泵是用于连续生产或循环处理精细物料的高性能设备,在狭窄空间的腔体内装有多层定转子,转子在电机的驱动下高速旋转,产生强劲的轴向吸力将物料吸入腔体。物料通过转子、定子进行逐级分散、精细、乳化,在最短的时间内对物料进行分散、剪切、乳化处理。是一种集混合、分散、破碎、均质、乳化、输送为一体的高效均质器,适用于中、大批量在线连续生产或循环处理生产工艺。



The pipeline emulsification pump is a high-performance device for continuous production or cyclic processing of fine materials. A multi-layer stator and rotor are installed in the cavity of the narrow space. The rotor rotates at high speed under the drive of the motor to generate a strong axial suction to suck the material into cavity. The materials are dispersed, refined and emulsified by the rotor and stator step by step. The materials are dispersed, sheared and emulsified in the shortest time, and the particle size distribution range is significantly narrowed. It is a high-efficiency homogenizer that integrates mixing, dispersing, crushing, homogenizing, emulsifying, and conveying. It is suitable for medium and large batch online continuous production or cyclic processing production process.



粗齿型
Rough tooth type

中齿型
Middle tooth type

细齿型
Thin tooth type

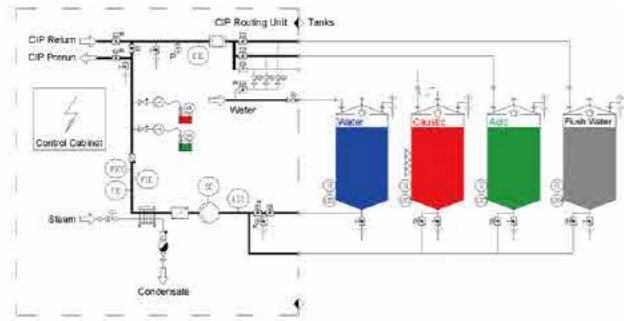


定制设备

Customized Equipment

CIP Cleaning System

CIP清洗系统



工作原理图
Working Principle

与传统的清洗方式相比, CIP清洗方式的优点主要有:

- 清洗效果可重复得到验证。
- 节约操作时间、提高效率。
- 节省劳动力, 安全可靠。
- 节省制药用水。
- 模块化生产, 可实现FAT。
- 环保节能, 便于安装和操作。

Compared with traditional cleaning methods, the advantages of CIP cleaning methods are:

- The cleaning effect can be repeatedly verified.
- Save operation time and improve efficiency.
- Save labor and safety.
- Save pharmaceutical water.
- Modular production, and can realize FAT.
- Environmental protection and energy saving, easy to install and operate.



移动式cip清洗车
Movable cip cleaning vehicle

Feed Conveyance Technology

料体输送技术



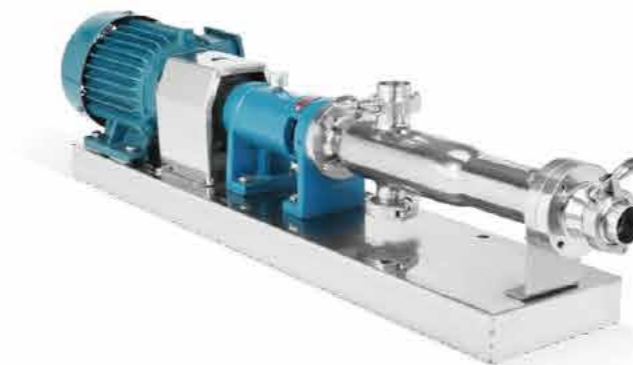
卫生级转子泵
Sanitary rotor pump

规格 Specifications:0.55KW-22KW
材质 Material: SUS304,SUS316L
转速 Rpm:200-900(rpm)



卫生级离心泵
Sanitary centrifugal pump

规格 Specifications: 1T-500T, 055KW-75KW
材质 Material: SUS304, SUS316L
转速 RPM:2900r/min 45°
出口带排放阀45°Outlet with drain valve



卫生级单螺杆泵
Sanitary single screw pump

规格 Specification:
0.5T-13T,0.37KW-5.5KW
材质 Material:
SUS304,SUS316L
转速 RPM:960-1400(rpm)

INDUSTRIAL REVERSE OSMOSIS (RO) SYSTEMS

制水设备



该设备可符合 GMP 认证要求，针对不同用户对高纯水的不同要求，采用反渗透，EDI 等新工艺，比较有针对性地设计出成套工艺，以满足制药、日化和食品工厂的纯化水制取要求。材料全部采用国际国内名牌产品制水过程高度自动化，水质长期稳定。

This equipment can meet the requirements of GMP certification. According to the different requirements of different users for high-purity water, new processes such as reverse osmosis and EDI are used to design a complete set of processes to meet the requirements of purified water production in pharmaceutical, daily chemical and food factories. All materials are made of international and domestic famous brand products. The water production process is highly automated and the water quality is stable for a long time.

一些实施案例 Some Implementation Cases



制水工艺 Water production process

1. 原水→原水加压泵→多介质过滤器→活性炭过滤器→软水器→精密过滤器→一级反渗透设备→中间水箱→中间水泵→离子交换器→纯化水箱→纯水泵→紫外线杀菌器→微孔过滤器→用水点
2. 原水→原水加压泵→多介质过滤器→活性炭过滤器→软水器→精密过滤器→一级反渗透→PH 调节→中间水箱→二级反渗透（反渗透膜表面带正电荷）→纯化水箱→纯水泵→紫外线杀菌器→微孔过滤器→用水点
3. 原水→原水加压泵→多介质过滤器→活性炭过滤器→软水器→精密过滤器→一级反渗透机→中间水箱→中间水泵→EDI 系统→纯化水箱→纯水泵→紫外线杀菌器→微孔过滤器→用水点

1. Raw water → raw water pressure pump → multi-media filter → activated carbon filter → water softener → precision filter → first-stage reverse osmosis equipment → intermediate water tank → intermediate water pump → ion exchanger → purified water tank → pure water pump → UV sterilizer → micro Hole filter → water point
2. Raw water → Raw water pressure pump → Multi-media filter → Activated carbon filter → Water softener → Precision filter → Primary reverse osmosis → PH adjustment → Intermediate water tank → Secondary reverse osmosis (the surface of the reverse osmosis membrane is positively charged) → Purified water tank → Pure water pump → UV sterilizer → Microporous filter → Water point
3. Raw water → Raw water pressure pump → Multi-media filter → Activated carbon filter → Water softener → Precision filter → Primary reverse osmosis machine → Intermediate water tank → Intermediate water pump → EDI system → Purified water tank → Pure water pump → Ultraviolet sterilizer → Micropore Filter → Water point

Some Projects

部分工程

制药中试生产线
Pharmaceutical pilot production line



树脂生产线
Resin production line



食品酱料生产线
Food sauce production line



预配系统
Pre-dosing system



高压反应生产线
High pressure reaction line



液洗生产线
Liquid washing production line



无菌配液系统
Aseptic dosing system



制药凝胶生产线
Pharmaceutical gel production line



膏霜生产线
Cream production line



称重配料系统
Weighing batching system



Manual Filling Series

手动灌装机系列

GS-1/2 电动/气动灌装机

GS-1/2 Electric/Pneumatic Filling Machine



- 本机为膏液两用灌装机。主要用于水、油、乳液、膏体状物料的定量灌装。
- 全不锈钢机身，防腐耐磨，经久耐用，干净卫生。
- 可拆卸卡扣设计，灌装食品或多种颜色味道等产品，易拆卸清洗方便，省时省力。
- 灌装量分六个系列：A 型：5-15ml、B 型：10-75ml、C 型：20-150ml、D 型：50-300ml、E 型：100-500ml、F 型：200-1000ml。
- 进料方式：普通重力式 / 自动吸料式 / 加压式任选一种。
- 压缩空气：压力 0.4-0.6Mpa 耗气量：0.3m³/min
- 生产能力：10-80 次 / 分
- 灌装精度误差：≤ 2%
- 工作合调节高度：100mm
- 料罐容积：20L、30L、40L、50L

- This machine is a dual-purpose filling machine. Mainly used for quantitative filling of water, oil, emulsion and paste-like materials.
- All stainless steel body, anti-corrosion and wear-resistant, durable and clean.
- Detachable buckle design, filling food or a variety of colors and flavors, easy to remove and clean, saving time and effort.
- Filling volume is divided into six series: Type A: 5-15ml, Type B: 10-75ml, Type C: 20-150ml, Type D: 50-300ml, Type E: 100-500ml, Type F: 200-1000ml.
- Feeding method: ordinary gravity type / automatic suction type / pressurized type.
- Compressed air: pressure 0.4-0.6Mpa Air consumption: 0.3m³/min
- Production capacity: 10-80 times / minute
- Filling accuracy error: ≤ 2%
- Working height adjustment: 100mm
- Tank volume: 20L, 30L, 40L, 50L



灌装设备 Filling Machine

CZ-G Lipstick Filling Machine (Vacuum Bubble-free Filling Machine)

唇膏灌装机(真空脱泡灌装机)



GS-3 气动灌装机
GS-3 Pneumatic Filling Machine

- 灌装量分六个系列: A 型: 10-100ml、B 型: 30-300ml、C 型: 50-500ml、D 型: 100-1000ml、E 型: 250-2500ml、F 型: 500-5000ml。
- 其余参数与 GS-2 一致。
- The filling volume is divided into six series: Type A: 10-100ml, Type B: 30-300ml, Type C: 50-500ml, Type D: 100-1000ml, Type E: 250-2500ml, Type F: 500-5000ml.
- The remaining parameters are consistent with GS-2.



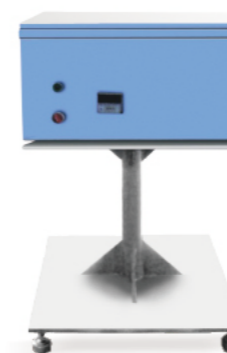
酱料搅拌灌装机
Sauce mixing and filling machine



针筒灌装机
Syringe filling machine



配套设备
Ancillary equipment



唇膏模具加热台
CZ-R Lipstick mold heating table



唇膏冷冻台
CZ-D Lipstick Freezing Table

- 工作过程: 将口红料放入锅内, 加热至一定温度后, 边搅拌均匀、边真空脱泡, 然后灌装入口红模。高速分散式搅拌桨在真空条件下搅拌, 搅拌桨转速无极可调。
- 温度调节: 锅体及灌装管外层均装有夹层外套, 供温水循环, 并保持在适当温度。温度由用户任意设定, 自动控制。
- 机器特点: 采用夹层导热油或水加热, 桨式搅拌器, 真空脱泡装置。所有接触物料的部位, 均采用优质 304 或 316L 不锈钢材料制造。
- Working process: Put the lipstick material in the pot, heat to a certain temperature, stir it evenly, vacuum to defoam and filling to the mould. The high-speed dispersing stirring blade is stirred under vacuum, and the rotation speed of the stirring blade is infinitely adjustable.
- Temperature adjustment: The tank and the outer layer of the tube are equipped with a jacket for warm water circulating and maintain at an appropriate temperature. The temperature can be set by the user and is automatically controlled.
- Features of the machine: jacket layer heating with oil or water, paddle stirrer, vacuum defoaming device. All parts in contact with materials are made of high-quality 304 or 316L stainless steel.

GFJX-3A Metallic Tube Filling & Sealing Machine

金属软管灌装封尾机

GFJX-3A 型金属软管灌装封尾机，主要用于金属软管为包装容器的物料的定量灌装、封尾。广泛应用于医药、日化、食品、化工等行业中。如：软膏、胶黏剂、AB 胶、氯丁胶、环氧胶、皮肤膏、染发剂、鞋油、牙膏等液体或膏状物料的灌装与封尾。

This machine is mainly used to fill the material into metal tube with certain quantity and sealing the tube. It is widely used for the packing of chemical, cosmetic, food, and pharmaceuticals industries. For example: ointment, gooey, AB glue, super glue, epoxy adhesive, skin cream, hair dye, shoe polish, toothpaste and other liquids and paste materials.

工作流程 Working process

人工将金属软管插入分度盘管座内（16 个工位），利用机械传动自动转位。自动检测，确认有管并插放正确，灌装系统便开始自动定量灌装，然后进行三折或双向四折封尾、打印批号，成品退出。

Manually put the metal tube(max:16 tubes) into the tube-holding base and it will rotate with the help of automatic mechanical transmission, automatic detection to confirm if the tube base have tube and then automatic filling. The final step is execute the sealing with three-fold or four-fold, print item number, finished product exit.

优势 Key Benefits

灌装速度和计量精度方便可调，调整精度高，稳定性好。更换底座可适用于各种规格的金属软管灌装封尾，封尾外形美观整齐，封合牢固。本机凡接触物料的部位，均采用优质不锈钢材料制造。该机可配各种不同规格的灌装头，满足不同黏度的灌装要求。

The filling volume and measurement accuracy is easy to adjust and convenient. The accuracy of adjustment is higher and stability is good. Replacement of the base makes it suitable for all kinds of metal tube filling and sealing and sealing figure is beautiful and trim. The sealing is tight. The materials of this machine are manufactured by high-quality stainless steel. The filling nozzles are in different specifications and are provided for materials in different viscosity.

主要技术参数

Main Technical Parameters

- 电源电压: 220V±10%50Hz
- 工作温度: 5~50°C
- 灌装量: 10-75ml/20-150ml
- 计量精度误差: <2%
- 电机功率: 1.1kw
- 生产能力: 30-50 支 / 分 (可调)
- 压缩空气: 压力 0.6-0.7Mpa
- 外形尺寸: 1000mm*600mm*1700mm
- Power: AC 220V±10% 50HZ
- Work Temp: 5~ ~ 50°C
- Filling Quantity: 10-75ml 20-150ml
- Quantity Error: <2%
- Motor Power: 1.1kw
- Capacity: 30~50 tubes/min(adjustable)
- Compressed Air: pressure 0.6 ~ 0.7Mpa
- Dimension: 1000mm*600mm*1700mm



CZG-1 Weighing Filling Machine

称重灌装机

CZG-1 称重灌装机是一种对液体进行自动定量灌装的计量设备，其功能是将大量的散装液体物料自动分成预定重量的小份载荷，进行定量包装。

CZG-1 称重灌装机靠重力或动力将输送来的液体物料自动灌装入若干标准桶中，并通过阀门的开闭，定量控制每桶中的物料量。液体灌装机自动化程度高，可以尽量避免物料溢出，最大程度地防止物料本身对环境的污染，从而对操作人员进行有效的劳动防护。其系统工作稳定可靠，操作简便，称量准确，整理数据可通过仪表输出给计算机等其他外接设备。

CZG-1 weighing filling machine is a kind of measuring equipment for automatic quantitative filling of liquids. Its function is to automatically divide a large amount of bulk liquid materials into small loads of predetermined weight for quantitative packaging.

The CZG-1 weighing and filling machine automatically fills several standard barrels of liquid material by gravity or power, and quantitatively controls the amount of material in each barrel through the opening and closing of valves. The liquid

filling machine has a high degree of automation, which can avoid material overflow as much as possible, and prevent the material itself from polluting the environment to the greatest extent, thereby providing effective labor protection for operators. The system works stably and reliably, with simple operation and accurate weighing. The collated data can be output to the computer and other external devices through the meter.

优势 Key Benefits

- 适用于对油类，化工，食品等流动性好的液态物料进行定量计量。
- 计量准确度高，性能稳定，工作可靠。
- 可用于贸易核准的各种容器，铁桶或塑料桶，在 1-15Kg 之间准确定量灌装，同时系统能在潮湿，危险或其它不良环境中使用。
- 本设备借助于高精度称重控制传感器模块来完善自动控制计量流程，再加上可编程控制器，能有效达到客户所需的精准。
- 系统操作简单明了，方便操作。

- It is suitable for quantitative measurement of liquid materials with good fluidity such as oils, chemicals and food.
- High measurement accuracy, stable performance and reliable work.
- It can be used for various approved containers, iron drums or plastic drums for accurate quantitative filling between 1-15kg, and the system can be used in humid, dangerous or other adverse environments.
- This equipment uses a high-precision weighing control sensor module to complete the automatic control and measurement process, plus a programmable controller, which can effectively achieve the accuracy required by customers.
- The system operation is simple and clear, and easy to operate.



FGF-5 Soft Tube Filling & Sealing Machine

半自动软管灌装封尾机

软管灌装封尾机采用全不锈钢制作,工作过程采用按钮控制:人工上管,8-10位自动回转、定量灌装、自动切断、加热封尾、切尾、成品退出。所有工作采用气缸全行程控制,灌装量调整方便,灌装速度可调。该机适用于各种规格的塑料和复合软管的灌装、封尾、日期打印、切尾。封尾外形美观整齐,封合牢固,计量精度高,稳定性好。根据物料不同可选配;料斗加热系统、防拉丝灌装头。

This machine is made of stainless steel. The working process is controlled by button. The process is manual-tube-feeding, 8-10 tube-position automatic turning, quantitative filling, automatic cutting, heating & sealing, cut off tail, product out. All the process is controlled by the cylinder. It is easy to adjust the filling quality. The filling speed is adjustable. This machine is used for all kinds of plastic tube and composite tube filling, sealing, date printing and tail cutting. The appearance of sealing are neat and firm, high measurement accuracy and steady. According to the different material we can choose material heating system and nozzle with the function of avoiding draw bench.



主要技术参数 Specification

- 电源: -220V±10%50Hz
- 电耗: 400w*2 (封尾外加热)
- 气源: 供气压力 0.6-0.8 (Mpa)
- 耗气量: <30 (dm³/min)
- 灌装量: 50、100、200 (ml)
- 生产能力: 20-30 (支 / 分)
- 计量精度: <2%
- 外形尺寸: 1230mm*700mm*1400mm
- 机器重量: 600 (kg)
- Voltage: AC220V±10%50Hz
- Power: 400w*2 (sealing by outside heating)
- Compressed Air pressure: 0.6-0.8Mpa
- Air Consumption: <30 dm³/min
- Filling volume: 50ml, 100ml, 200ml
- Filling Speed: 20-30 tubes/min
- Quantity Error: <2%
- Dimension: 1230mm*700mm*1400mm
- Weight: 600kg



FGF-50 Soft Tube Filling & Sealing Machine

软管灌装封尾机

控制部分采用最先进的智能型人机界面控制,大屏幕触摸屏显示 / 操作控制面板,包括温度设定,马达转速,生产速度等,直接在屏幕上显示,并可直接在屏幕上控制调整。与物料接触部分采用全不锈钢 SUS304、SUS316L 材质,机器附安全透明外罩,并附有安全开关,安全门打开,机器自动停止等功能。随机配有自动送管、上管装置,软管整理后自动插入定位模内,软管方向定位,采用光电及伺服电机控制,确保封尾准确,16-1 位自动回转,从软管供给、上管、灌装、封口至退出,全部自动化作业,同时有无管不填充设计。数字式高速灌装计量调整器装置在机器外前方,极为方便。灌装时灌嘴伸入料管底部,边灌装边退出,确保物料不会由于空气介入产生空段而溢出,影响精度。对于粘性特强易拉丝物料,另配有吹断剪切装置,确保封口不受影响。封位形式多样,客户可根据需要自行选配。

The control parts of the machine are composed of intelligent Man-computer interface, large touch screen display/operation control panel, including temperature setting, motor speed, filling speed, direct screen display and control. The components of the machine which touched the filling material are made of stainless steel SUS304 and SUS316L. Transparent cover is supplied with the machine. The machine is featured with safety switch and auto-stop function. It is equipped with automatic pipe feeding and loading device, and the hose is automatically inserted into the positioning after sorted, soft tube locate, photoelectric sealing control etc. 16-1-position automatic rotation. During the process of hose-feeding and setting, filling and sealing, the ejecting are all automatically controlled and no tube no tube no filling design. Digital count device is installed at the low front part of the machine. During filing process the filling head is put inside the material, blow-off device is installed to ensure a complete sealing. Many choices of sealing type are available to meet different need of clients.



优势 Key Benefits

- 全彩工业触摸屏,控制操作方便,机器工况一目了然。
- 可倾式管箱,装管方便,平稳可靠,更换产品时只需调整一个零件,避免产品更换麻烦。
- 机械式喂管,压管入杯,平稳可靠,更换产品时只需调整一个零件,避免产品更换麻烦。
- 随动式正压净管,负压吸尘,净管时间更长,管更清洁。
- 机械联动视觉检标,精准等级 0.2 毫米。
- 伺服调控,可在触摸屏上方便调整。
- 插入式随动注料,注料从管底部开始,排除管内空气,减小产品氧化,提高产品质量。
- 管内有三层瞬间加热器,无损管外壁纹胶膜,封尾美观。
- 快换式钳口可封直尾,圆尾,异形封尾;插入式文号更换方便。
- 快捷,可单双面打印文号。
- 光滑的机器表面,无清洁死角,物料与高质不锈钢 316L 全接触,严格符合 GMP 标准。
- Color touch screen is convenient to control and all the operation condition is clear at a glance.
- Tilted feeding box provide a convenient facility for tube filling. There is to adjust an accessory only when the product is changed for another size.
- Mechanical tube feeding, tube is pressed into the holes of working dishes. Which is stable and reliable. There is to adjust an accessory only when the product is changed for another size.
- Simultaneous positive pressure clean and negative pressure dust absorption system with longer cleaning time obtain an even through cleaning result.
- The precision rate of mechanical linking view correction system is within 0.2mm.
- Unique serve control, the filling can be adjusted freely by the touch screen.
- Plug-in type trailing feeding start from the bottom of the tube to prevent air form mixing with cream and reduce the possibility of product oxidation. Thus the quality of product can be ensured.
- It can rapid heating by three-layer jacket and film outside the tube.
- Quick-replace type multi-function nip may perform vertical, circular and abnormal end sealing. The number of batch can printing both single and double side and convenient to change.
- Fast key, single and double-sided printing of document number.
- The smooth surface of machine has no dead angle and easy for cleaning. The materials completely contact with stainless steel and comply with GMP standard.

GS-6 Automatic Filling & Screw-cap Sealing Line

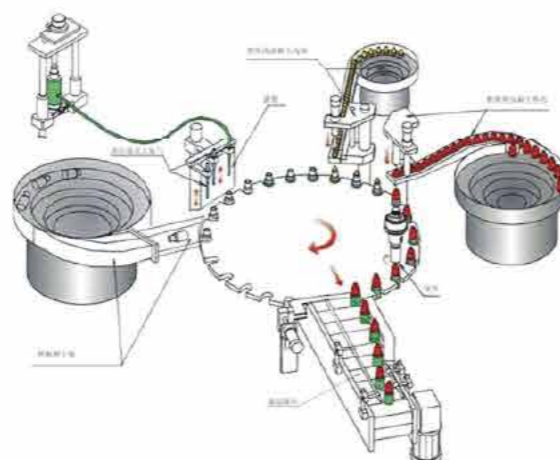
自动灌装旋转流水线



本机由理瓶送瓶机、多头灌装机、理盖上盖（塞）机、旋（封）盖机、输送机、自动控制系统组成。是具有自动理瓶、送瓶，自动定位，定量灌装，自动理盖、上盖（塞），旋（封）盖的高效率多功能灌装机。适用于医药、食品、日化、农药及精细化工等行业，是世界各地生产线上广泛使用的理想设备。

This machine is composed of bottle handling machine, multi head filling machine, capping machine, conveyor and automatic control system.

This machine have the function of automatic bottle handling, positioning, filling, capping and sealing with high efficiency, which is suitable for pharmaceutical, food, daily chemical, pesticide and fine chemical industries and other fields and is widely used in production lines all over the world.



结构及特点 Features

自动灌装机由星型盘进瓶定位，采用柱塞泵定量灌装，输送走线，进瓶，出瓶均有相应的传感器自动检测控制，当无瓶或瓶定位不准确时自动停灌并报警，以保证灌装机及成品的清洁和完好。

自动理盖上盖（塞）、旋（封）盖机为星型盘或输送机送瓶，由上盖机构自动上盖或由机械手取盖后送至封盖头，垂直于瓶口完成上盖、封盖。适用于旋盖、压盖等封盖形式。旋盖装置扭力可调整，以适应不同的瓶盖的松紧避免在旋封盖时对瓶盖的损伤。

操作简单易控。采用可编程控制(PLC)和人机界面(触摸屏)操作，可直接在触摸屏上设定灌装量、产量和速度。

检测智能可靠。采用智能检测系统和高品质的检测元件，能检测有瓶无瓶、输送堵塞和有盖（塞）倒瓶、定位不准确及其它错误的发生。保证无论在哪个环节出现错误均能可靠的停机和报警。

可按需选择组合。能单机使用也能与其它现有有机台做连机组合使用，如用户根据需要配置贴标机、喷码机，包装机等。

It uses the sensor for checking position automatically, which can realize no tube no filling and automatically stop filling, giving alarm to keep clean and efficient.

Automatic capping machine is suitable for forms like screwing and gland caps. The torque of the capping device can be adjusted to adapt to the tightness of different caps to avoid damage to the caps.

PLC and touch screen control system, operation and debugging is simple and convenient. The quantity, speed and output can be set on the touch screen directly.

The detection is intelligent and reliable, which adopts intelligent detect system and high quality detecting element so that it can find out all kinds of the errors and stop the working procession or give a alarm in a short time. Such as whether the bottle is at the position, whether conveying is normal etc.

This machine can be matched with the labeling, printing and packing machine and so on.