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providing the most suitable and professional downstream packaging solutions
for your pursuit of excellence



关于沛愉

ABOUT PEIYU

SHANGHAI PEIYU PACKAGING TECHNOLOGY CO.,LTD.



因为专业 所以更好
Professional Makes Best

[Http://shanghaispc.com](http://shanghaispc.com)

沛愉企业全资拥有：上海沛愉包装科技有限公司、安徽沛愉包装科技有限公司、上海沛愉机械制造有限公司、江苏沛愉食品饮料有限公司、江苏合愉包装材料有限公司。我们为全球的液态、固态产品企业提供整套智能装备及交钥匙工程服务，我们可提供软包装、铁罐、铝罐、PET瓶、PE瓶、玻璃瓶、屋顶包、无菌纸盒等包装形式生产线的整线解决方案。

通过长期累积机械设计制造的经验，目前我司已经有上百种成熟稳定的包装机械设备，涵盖杀菌釜系列、卸罐（瓶）机系列、全自动装卸笼系列、全自动码卸系列、套标系列、贴标系列、装箱系列、输送、风送系统等。公司产品广泛应用于各种罐（瓶）型的饮料、乳制品、纯净水、调味品、酒类、油品、化妆品、医药等相关行业，经过多年的努力，在国内已先后与伊利集团、露露集团、维维集团、河北养元智汇、王老吉集团、蒙牛集团、南方黑芝麻集团、上海宝鼎饮品、成都银鹭、洋河酒业、菏泽本草、吉林金翼、山西紫林醋业、济源优洋饮品、顶新集团、统一集团、联合利华、达能集团、亨氏集团、华鹏集团、汇源集团、杭州中亚、哈药集团、齐都药业等知名企业建立了广泛而亲密的合作，在国外产品远销北美、南美、非洲、欧洲、中东等多个国家与地区，并获得了优秀供应商的称号和口碑。

沛愉企业已在西安、上海、滁州设立技术研发中心，用最新的高新技术及前瞻的设计理念来满足国内外客户的不同需求。在安徽滁州国家级开发区新加坡（苏滁）高新产业园拥有六万平米的生产基地，现代化的厂房、研发中心、加工中心、检测中心、装配车间、备件仓库、办公楼、生活区等设施一应俱全。生产车间配备了通快激光切割机、等离子切割设备、五面体加工中心、美国哈斯加工中心、激光切管机等先进的加工设备，为我们产品的制造精度及稳定性提供了极为可靠的保障。

公司严格执行ISO9001质量体系认证标准进行设计、生产制造，并通过了德国莱茵公司（TUV）的审核，公司拥有欧洲CE安全论证，公司秉承永续服务，不断追求的经营理念，以独特的机械设计及积累多年的控制精髓造就出最有竞争力的自动化设备。

沛愉企业 愿同您携手发展，共获丰硕！

Peiyu Enterprise wholly-owned below companies: Shanghai Peiyu Packaging technology Co., Ltd, Anhui Peiyu Packaging technology Co., Ltd, Shanghai Peiyu Machinery Manufacturing Co., Ltd., Jiangsu Peiyu Food&Beverage Co., Ltd, Jiangsu Heyu Packaging Materials Co., Ltd. Since establishment, our company devotes to providing a full range of smart equipment and turn-key solutions for worldwide liquid and solid products, like tin can, PET bottle, PE bottle, glass bottle, tera pak and roof package products.

Through our long-term accumulated mechanical design and manufacturing experience, we currently have hundreds of mature and stable packaging machinery and equipment, including retorts, palletizer&depalletizer, loading&unloading machine, case packer, labeling machine, conveyor system etc. Peiyu's intelligent machinery are mainly applied to food&beverage industry, condiment industry, wine industry, pharma, medical industry. We work together with Yili Group, Lulu Group, Weiwei Group, Hebei Yangyuan Company, Wong Lo Kat Group, Mengniu Group, Southern Black Sesame Group, Baoyin Can of Baosteel, Yinlu Chengdu, Yanghe Group, Bencao Heze, Jinyi Jilin, Zilin Vinegar, Jiyeuan Youyang, Uni-President Enterprises, Ting Hsin Group, huapeng International Group Limited, Huiyuan Group, Unilever, Zhongya Hangzhou, Harbin Pharmaceutical Group, Qidu Pharmaceutical and many other famous enterprises. Also our products are exported to many foreign countries in North America, South America, Africa, Europe and the Middle East and maintain a high reputation in the market. We gain the title of "outstanding supplier" with our high quality products and services.

Peiyu establishes R&D centers in Xi'an, Shanghai, Chuzhou, continuously providing our clients with advanced technology. With the formal production of our new manufacturing base 60,000m² in Chuzhou, modern factory building, research and development center, processing center, testing center, assembly workshop, spare parts warehouse, office building, residential facilities, etc. Processing workshops is equipped Germany trulaser laser cutting machine, Plasma cutting equipment, HT Hision five surface machining center, American HAAS CNC, Laser cutting machine etc; for equipment manufacturing precision and stability provide a highly reliable guarantee.

Peiyu strictly conforms to the ISO9001 quality management system to monitor the whole production process. We have also passed T V Certificate and CE Certificate. Peiyu adheres to the sustainable services and continuously pursues new business philosophy to make the most competitive intelligent equipments.

Peiyu Enterprise, willing to work with you together and create win-win cooperation.

沛愉历程

PEIYU HISTORY

SHANGHAI PEIYU PACKAGING TECHNOLOGY CO.,LTD.

2014——2015年沛愉企业成功为宝钢集团宝翼制罐、顶新集团、南方黑芝麻、露露集团、成都银鹭、上海海融、济源优洋饮品、维维豆奶、菏泽本草、贵州茅台、新西兰纽沃特、联合利华、杭州中亚等知名企业完成了整线工程。沛愉成功开发出了关节臂机器人装箱机、新一代高速挂盖、压盖一体机设备，同期沛愉在滁州国家级开发区投资兴建的60000平米生产基地已全面竣工，设备全部搬迁至安徽沛愉工厂，并顺利投产，解开了沛愉企业发展的新篇章。

2014-2015, Peiyu successfully completed turn-key projects for Baoyin Can of Baosteel, TingHsin Group, Southern Black Sesame Group, LuLu Group, YinLu Chengdu, Hairong Shanghai, Youyang Jiyuan, Weiwei Milk, Bencao Heze, Moutai Group, New Zealand New Water, Unilever, Zhongya Hangzhou and many other famous enterprises. Peiyu successfully developed the arm robot arm packing machine, a new generation of high-speed hanging cover, cover one machine equipment, In the same period, Peiyu's 60,000m² production base invested and built in Chuzhou National Development Zone has been fully completed. All equipment has been relocated to the Peiyue Plant in Anhui Province, and it has been put into operation smoothly, unveiling a new chapter in Peiyue's corporate development.

2004——2008年，沛愉企业先后成立了上海沛愉机械制造有限公司、张家港包装机械有限公司，在此期间，公司研发并生产了100MLAD钙奶专用套标机、旋转式贴标机、中低速热缩膜包机、单、双头套标机系列，并先后于北京、郑州、广州、成都成立办事处，西安设立了研究所。

2004-2008, Peiyu enterprise established Shanghai Peiyu Machinery Manufacturing Co.,Ltd & Zhangjiagang Packaging Machinery Co.,Ltd. At this time, we successfully manufactured shrink sleeve labeling machine for 100ml AD calcium milk, rotary hot melt labeling machine, medium and low speed film packing machine, single and double head sleeve labeling machine. We also set up representative offices in Beijing, Zhengzhou, Guangzhou, Chengdu and R&D center in Xi'an.

2016-2019

2016——2019沛愉自主研发生产的杀菌釜设备成功推向市场，并成功被吉林金翼、菏泽本草、天津科技大学、承德森源、法国BONDUELLE等使用。今年又新开发了带预制纸托的包装机并顺利投产，另全自动装卸笼及旋转杀菌系统在全球最大的罐头企业法国BONDUELLE顺利投产。同期沛愉企业成功将其他诸多设备远销马来西亚、法国、印尼等国家，国内与伊利集团、维维集团等知名企业继续愉快合作。展望未来我们信心满满，我们还在努力创造沛愉的奇迹！

2016-2018, our self R&D retorts are successfully break into the market and used by Jinyi Jilin, Bencao Heze, Tianjin Technology University, Senyuan Chengde, BONDUELLE France and many other foreign customers from Indonesia, Malaysia. This year, a new packaging machine with prefabricated paper trays was newly developed and put into operation. Another fully automated loading cage and rotary sterilization system was successfully put into operation in BONDUELLE France the world's largest canned company. And long-term cooperation with well-known domestic enterprises, like Yili Group, Weiwei Group. Look to the future, we will be working hard to create more miracles for Peiyu.

2014-2015

2012-2013

2012——2013年，沛愉企业正式进军易拉罐生产线并成功与养元饮品、王老吉等知名企业合作，为易拉罐生产线翻开了新的篇章，真正意义上使易拉罐生产线实现了全自动化。公司自主研发了高速玻璃瓶码垛机并被燕京啤酒使用，由于企业发展的需要，沛愉企业凭高新技术企业资质正式入驻安徽滁州国家级开发区苏滁现代产业园。

2012-2013, Our independent R&D high speed glass bottle palletizer was used by Yanjing Beer. We expanded business to can beverage industries through cooperations with Yangyuan Company, Wang Lo Kat Group and other well-known domestic enterprises.

The line we designed for can beverage turned can beverage industries into full-automatic development stage. Due to the needs of company development, Peiyu enterprise stationed in Suchu Modern Industry Park in 2013, a national economic development zone in Chuzhou, Anhui Province.

2009-2011

2009——2011年，沛愉下属公司江苏合愉包装材料有限公司、上海沛愉包装科技有限公司先后成立，主营PVC/BOPP/PET/PE膜及标签的印刷、设计、输送线、风送道业务，公司研发了直线式热熔胶贴标机（被汇源集团使用）、纸片式热熔胶裹包机、自动进出杀菌釜系列装置、高速热缩膜包机、龙门码垛机、机器人码垛机、高低床卸罐机、全自动装卸笼、提手贴带机，沛愉企业开始正式专注整套后道包装的解决方案，并荣获“天工尊”最具影响力的十大品牌，“包装设备行业金牌供应商”

2009-2011, Peiyu's new branch Jiangsu Heyu Packaging Material Co.,Ltd and Shanghai Peiyu Packaging Technology Co.,Ltd were established, which mainly produce and design PVC/BOPP/PET/PE film, conveyor, air conveyor. At this time, we successfully designed linear hot melt labeling machine for Huiyuan Group, wrap around carton caser, automatic sterilizer retorts, high speed film packing machine, robot palletizer, low/high level depalletizer, automatic loading and unloading basket retort, handle applicator. Our company won "Gold Supplier of Labeling Equipment in China Beverage Industry" and "Tiangongzun" top 10 enterprise in packing industries depend on our professional downstream packaging solutions.

2004-2008

两片罐工程项目 Two pcs can project



三片罐工程项目 Three pcs can project



PET工程项目

PET project



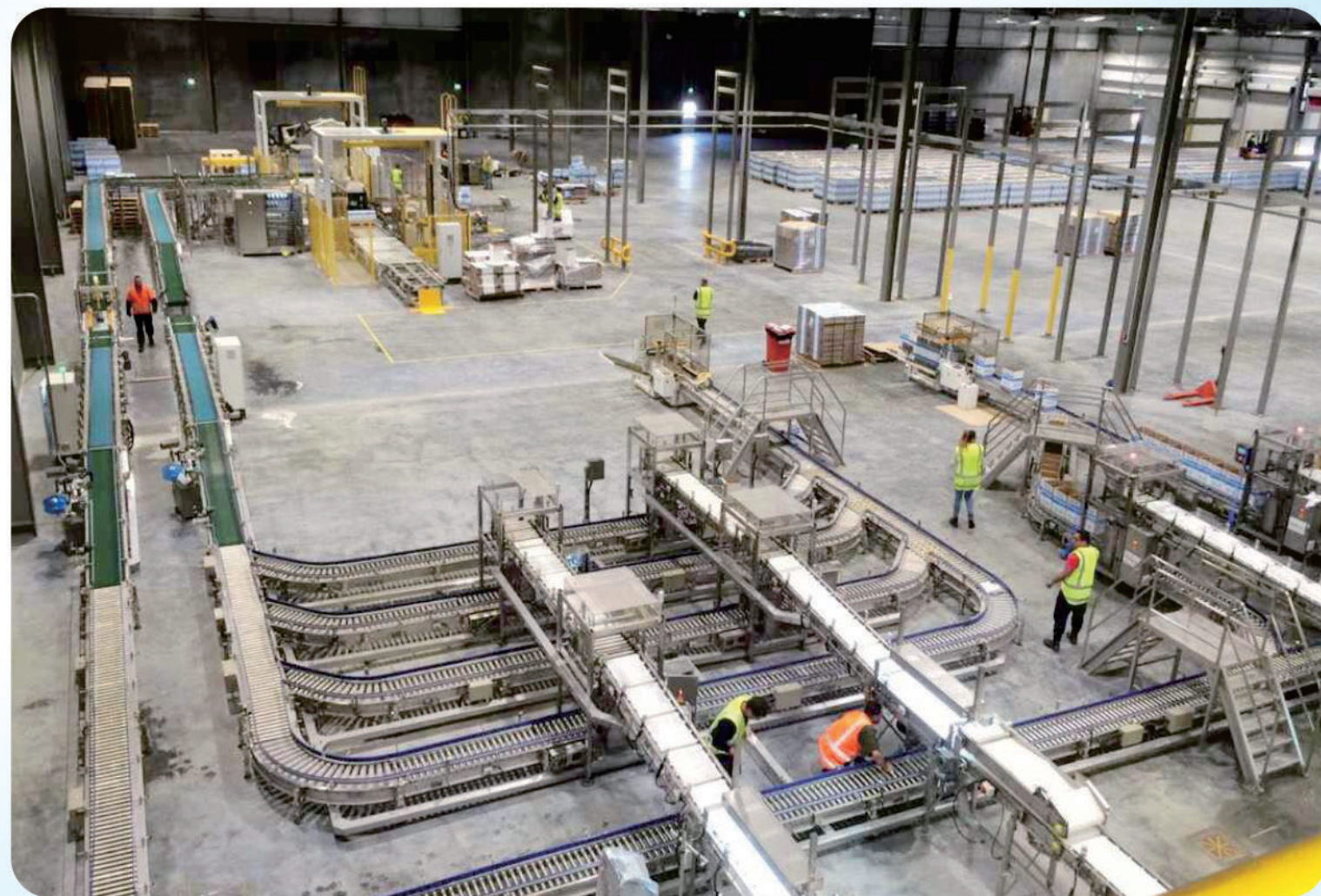
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纸包工程项目

Paper package project



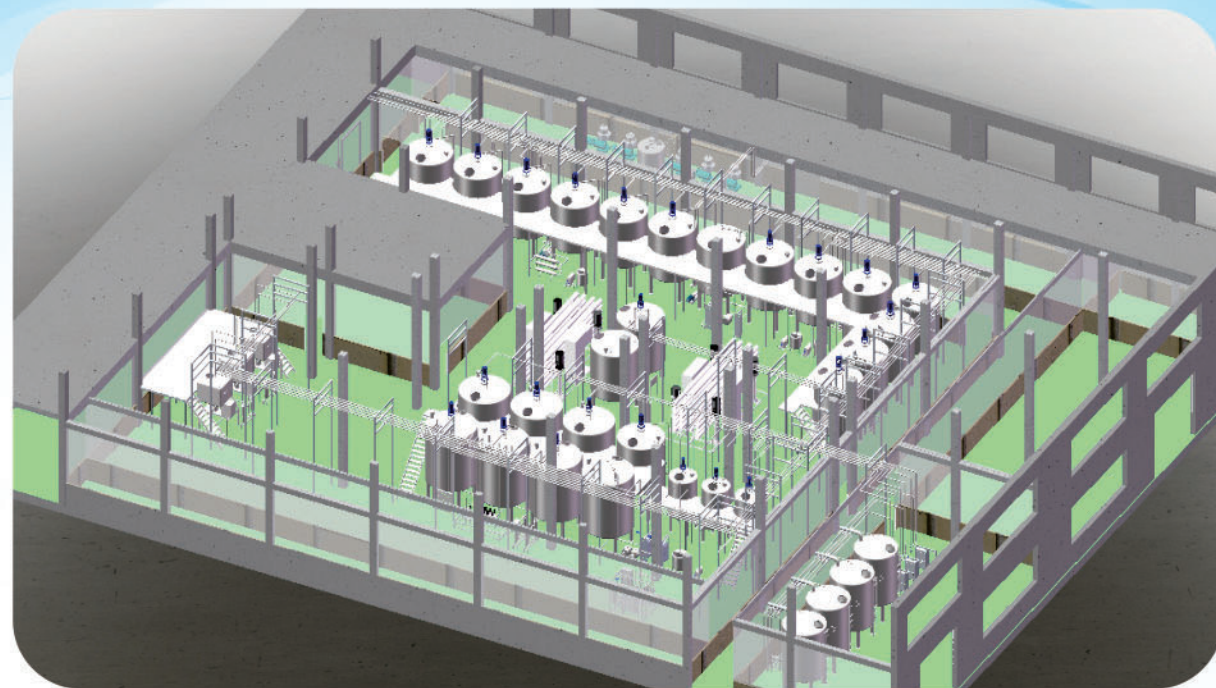
软包装工程项目 Soft bag package project



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萃取工程项目 Extraction project





前处理三维图规划
Pre-processing project planning and 3D drawing design



前处理工程
Pre-processing project equipment



前处理CIP系统
CIP equipment and system



高温蒸煮系统
High temperature stewing and cooking equipment and system

■ 杀菌釜系列

Sterilization retort



多功能试验用杀菌釜
Multi-function Laboratory Retort



全自动双罐蒸汽全水两用杀菌
Full-Automatic double water tanks water bath and steam sterilization retort

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全自动蒸汽杀菌釜
Full-Automatic steam sterilization retort



自动淋水杀菌釜
Automatic water spray sterilization retort

■ 前处理系统

Pre-treatment equipment and system

调配罐 Preparation tank (WZZT)

调配罐是饮料前调配过程中工艺要求的加热、冷却、高低速混合配料，应用于饮料物理反应的器具。是全自动液体饮料生产线的基本设备配置，可以在调配过程中客户根据需求任意组合成分，作为粗纤维食品细化处理设备。设备的容积从50升到5000升不等。

The preparation tank is a device for providing physical reactions to beverages, and it is applied to heating, cooling and mixing at high speed and low speed in the pre-deployment process.

The preparation tank is the basic equipment configuration of the fully automatic liquid beverage production line, and during the blending process the customer can arbitrarily combine the components according to the needs. The machine as a coarse fiber food refining treatment equipment which volume is ranges from 50 liters to 5000 liters.



蒸煮罐 Cooking pot

蒸煮罐是把物料加热到所需温度后并保持温度一定时间，释放物料。采用蒸汽作为加热体，蒸煮过程中的温度、压力、时间等精确控制，蒸煮有效容积任意选择。特殊配置可以携带搅拌机构。

The cooking pot is used for heat the material to the desired temperature and then maintain the required temperature for a certain period of time before release the material. Steam is used as the heating, during the cooking process the temperature, pressure, time etc. which are precisely controlled, and the effective cooking volume is arbitrarily choose. Special configuration can have a stirring mechanism.



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反应罐 The reaction pot

反应罐是饮料前调配过程中工艺要求的加热、冷却、高低速混合配料，应用于饮料物理反应的器具。属于综合反应容器，采用进料—加减速反应—出料全自动配置，反应过程中的温度、压力、搅拌等精确控制。机械搅拌采用刮板结构配置。

The reaction pot is a device for providing physical reactions to beverages, and it is applied to heating, cooling and mixing at high speed and low speed in the pre-deployment process. It is a comprehensive reaction vessel, fully automatic configuration, and accurate control on temperature, pressure and agitation during the reaction. Mechanical agitation uses a scraper structure



提取罐 Extraction tank

提取罐是食品饮料前处理中用于自然风味的物料的浸出并提取的设备。用于饮料植物综合成分的浸出提取，其罐内的轴向螺旋推进器与罐体处的转动轴盘连接，并与逆流浸出提取装置链接，整体提取效率高，节约能源。

The extraction tank is the equipment for extract natural flavors in food and beverage pretreatment. It is used for leaching extraction of beverage plants comprehensive components. The axial auger in the pot is connected with the rotating shaft plate at the pot body, and it is linked with the countercurrent leaching extraction device. The overall extraction efficiency is high, saving energy.

■ 连续立式无篮杀菌釜

The vertical continuous cageless sterilization retort system



沛愉立式杀菌釜克服了釜灭菌行业的多种工艺技术瓶颈，颠覆了传统卧式杀菌釜的工艺方式。达到自动化程度高，工艺先进灭菌效果好，灭菌后的理罐系统结构简单的功能。能够满足连续性灭菌处理和大批量生产的需求。

具有灭菌效果好，热分布均匀的效用。（达到 $\pm 0.5^{\circ}\text{C}$ ）

具有无菌准备时间短，无需等待与装篮的特点，热能损失少。

具有自动化程度高，连续的输送与连续的杀菌，简单的配制实现连续生产节约，在相同产能下可以极大地减少杀菌釜罐附加机构的反复加热与冷却，罐内温度的有效利用。

设备的安全可靠，采用双安全阀和双压力传感器控制。釜门的立式配制杜绝了安全隐患，全程压力温度控制有效避免产品的变形，由于工艺的合理配置，给食品企业带来巨大的经济效益。

Peiyu The vertical continuous cageless sterilization retort system overcomes various technology bottlenecks in the sterilization industry. It also subverts the traditional horizontal sterilization retort technique. This system achieves high automation, its advanced technique can ensure the sterilizing effect. The cans arrangement device structure after sterilization retorts is simple and can meet large capacity and continuous production demand.

It has good sterilization effect and uniform heat distribution. ($\pm 0.5^{\circ}\text{C}$)

Sterilization preparation time is short, the products do not need to be loaded and unloaded basket, and less heat loss.

It has high degree of automation, continuous conveying and continuous sterilization, simple preparation to achieve continuous production, and it can reduce the repeated heating and cooling and additional equipment of the sterilization system in limited space. The heat energy in the retort is effectively use.

The equipment is safe and reliable, with dual safety valves and dual pressure sensors. The vertical design of the retort door eliminates safety hazard. The whole process of pressure and temperature control can effective avoids the deformation of the product cans. Due to the reasonable configuration of the process, the machine can bring huge economic benefits to the food enterprises.

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■ 多用途杀菌釜

The multi-purpose sterilization retort

多用途杀菌釜的功能强大，可以用于除回转式杀菌釜工艺要求外的大部分杀菌要求产品，并且结构简单、性能可靠，操作便利、维护方便，具有较大的杀菌效果和经济效益。其节能、节水效果显著，可以节约用水30%~50%，节约蒸汽达30%。产品的传热效果好，快速流动的水与浸泡的物料进行热交换，使产品的热提升快速，热分布均匀，提升了食品杀菌工艺。

杀菌罐内正负压力控制精准，达到杀菌釜的极限。生产效率明显提升，由于循环水在各处的流动性都非常好，所以被杀菌的产品摆放就比较密集，因而同样规格同样产品的情况下装载量明显提升，杀菌效率提升达30%~50%。

本结构采用水下漏式多用途杀菌形式，是目前杀菌工艺的佼佼者。水下漏的流量可根据物料的碳水化合物容量进行调整，根据我公司多次项目的经验，通常循环流量从600公斤/分到1800公斤/分几乎包含目前的大部分产品的需求。循环水从最上面一层的产品淋水而入，在笼盘内形成一层高度的水位后通过下一层底部的开孔，快速漏到下层。层层下落，每个产品层形成一个动态高度的水位，循环水经过每一层产品后，通过笼框底部的开孔，排到杀菌釜的底部流出完成杀菌过程，在杀菌过程中得到最佳的热传递效果。

The multi-purpose sterilization retort has powerful functions. And the machine can be used for most sterilization to meet requirements which except for the rotary sterilization retort technique. The machine has the advantages of simple structure, reliable performance, convenient operation, convenient maintenance, good sterilization effect and economic benefit. Its energy saving and water saving effects are remarkable, which can save water by 30%-50% and save steam by 30%. The heat conduction effect of the product is good, and the fast-flowing water exchanges heat with the immersed material, so that the heat of the product is rapidly increased, the heat distribution is uniform, and the food sterilization technique is improved.

The positive and negative pressure control in the sterilization retort is accurate and reaches the limit of the sterilization retort. The production efficiency is obviously improved. Because the circulating water is very good in all places, the products to be sterilized are placed intensively. Therefore, the load is obviously increased under the same specifications of the same product, and the sterilization efficiency is increased by 30%-50 %.

The structure adopts a water bucket down-drain multi-purpose sterilization form, and it is a leader in the current sterilization technique. The flow rate of underwater leakage can be adjusted according to the capacity of the carbohydrate of the material. Our company according to the experience of many projects, the circulating flow rate usually ranges from 600 kg/min to 1800 kg/min, which contains demand of almost all the current product. The circulating water is poured from the product of the uppermost layer, and a layer of water is formed in the cage to pass through the opening at the bottom of the lower layer, and quickly leaks to the lower layer. The layers fall, each product layer forms a dynamic height water level. After passing through each layer of product, the circulating water passes through the opening at the bottom of the basket frame and is discharged to the bottom of the sterilization retort to complete the sterilization process, which is best in the sterilization process and heat conduction effect.

根据产品的工艺布局不同采用双开门或单开门形式。

Double-doors or single door are available depending on the process layout of the product.



单开门形式 Single door



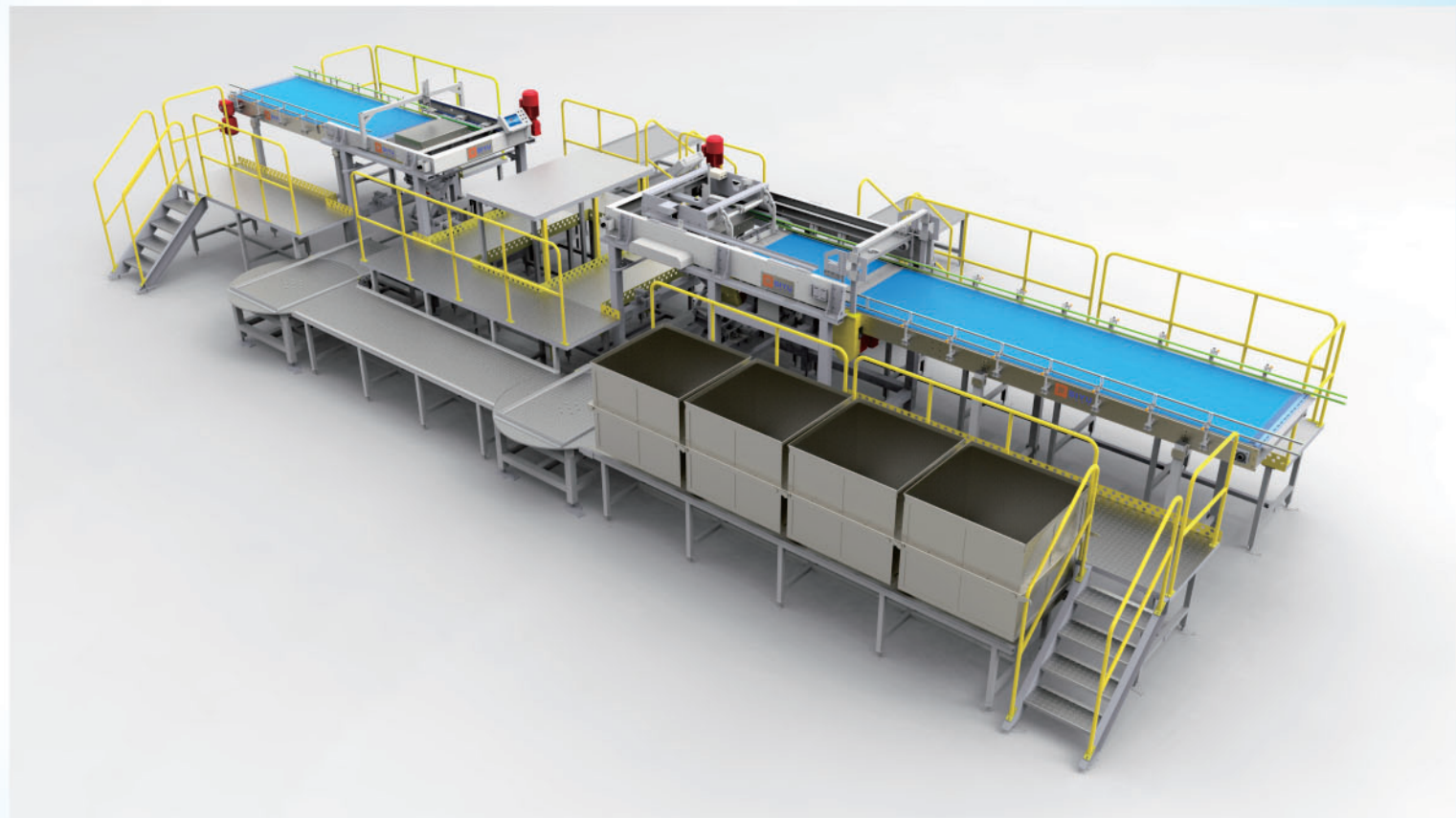
双开门形式 Double-doors

■ 装卸笼系列

Semi-automatic unloading basket machine

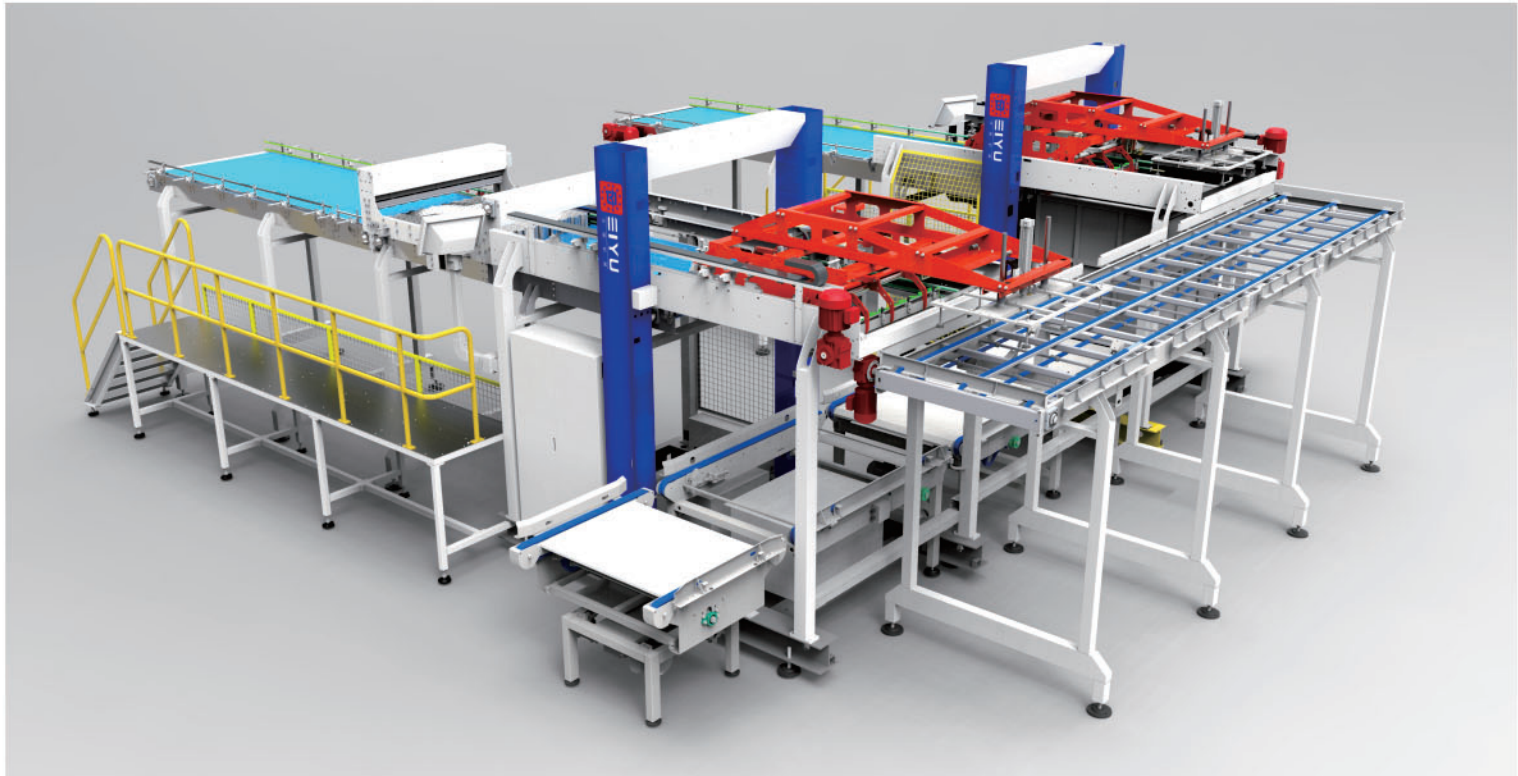
装卸笼主要用于易拉罐产品灌装杀菌前的装卸周转，和杀菌釜配套使用。设备主要由装笼系统、卸笼系统、隔板输送系统、笼筐周转系统、实罐输送系统等部分组成。

Semi-automatic unloading basket machine mainly applies to loading and unloading tin cans when sterilizing, which is matched with sterilization retort. The machinery of the device consists of loading cages system, unloading cages system, inserting plates transport system, basket cage turnaround conveying system and full cans conveyor system, etc.



半自动装卸笼
 Semi-automatic loading and unloading basket machine

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全自动装卸笼
 Fully automatic loading and unloading basket machine

装 卸 笼		技术参数：Technical parameters			
型号	Model	半自动装卸笼 Semi-automatic loading and unloading basket machine		全自动装卸笼 Fully automatic loading and unloading basket machine	
生产效率	Capacity	3-4层/分	3-4 layers / min	3-5层/分	3-5 layers / min
作业方式	Operating type	水平移栽型	Horizontal transfer type	水平移栽型	Horizontal transfer type
笼筐尺寸	Cage size	适用于直径1600mm、Suitable for use retort 1800mm的杀菌釜 diameter 1600mm, 1800mm		适用于直径1600、Suitable for use retort 1800mm的杀菌釜 diameter 1600mm, 1800mm	
处理产品	Applied product	实罐易拉罐 Full tin cans		实罐易拉罐 Full tin cans	
产品输送带高度	Conveyor height	1800-2100mm	1800-2100mm	1800-2100mm	1800-2100mm
笼框输送高度	Cage conveyor height	650-1100mm	650-1100mm	650-1100mm	650-1100mm
使用空气压力	Air pressure	6-7bar	6-7bar	6-7bar	6-7bar
耗气量	Air consumption	800L/min	800L/min	800L/min	800L/min
安装电力	Installed capacity	15KW	15KW	20kW	20KW
设备尺寸	Dimensions	11000*7200*2700mm 11000*7200*2700mm		11000*7200*3300mm 11000*7200*3300mm	
设备重量	Equipment weight	10T	10T	13T	13T

全自动礼盒装箱机

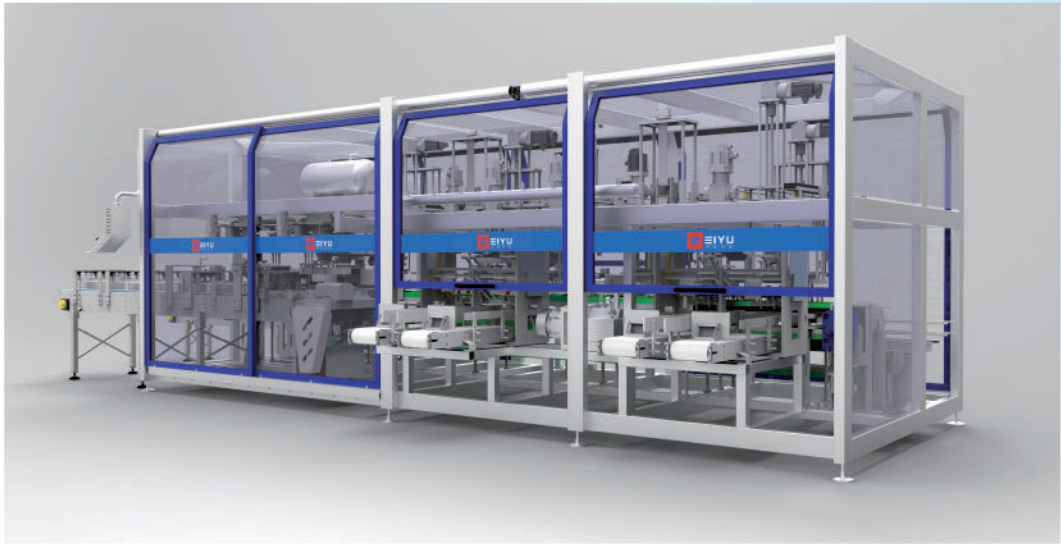
Automatic gift case packing machine

全自动礼盒装箱机主要适用于利乐砖、利乐钻等产品，将灌装好的产品放入礼盒内，在礼盒内部与产品之间放入上、下固定隔板，完成礼盒的包装。设备主要分为进包组、分包组；进箱组、装箱组、放隔板组等部分。

Automatic gift case packing machine mainly used Tetra brik and Tetra Prisma and so. This kind of machine can automatically put the products into the case, and put the paperboard to the upper and lower beside to the products in the case, and then sealing the cartons. The equipment mainly has feed package unit, dividing package unit, feed cartons unit, packing unit and putting paperboard unit five parts.

设备特点 The features

- 1.设备采用不锈钢及其他高强度材质制造，安全、美观、耐用；
The equipment is made by stainless steel and high strength material, safety, beautiful and durable.
- 2.整个装箱过程全自动连续完成，生产效率高；
The whole packing process fully automatic, continuously and has high efficiency.
- 3.整机一机多用，可适用多种礼盒装箱形式；
It is multi-usage, can be applied to a variety of gift box and packaging form.
- 4.采用高品质气缸、伺服电机驱动，动作快捷、精准；
The equipment uses high quality cylinder, servo motor, movies fast and accurate.
- 5.隔板储存空间大，具有不停机加放隔板功能；
The paperboard storage space is large, with non-stop add paperboard function.
- 6.整机采用自动润滑系统；
The equipment has automatic lubrication system.
- 7.真空气路均有真空释放气路，快速脱离防止异物堵塞吸盘；
There is vacuum release channel to snap out, it can prevent the sucking disc blocked by solid.



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SPC-R 关节臂装箱机

SPC-R Robot arm case packing machine



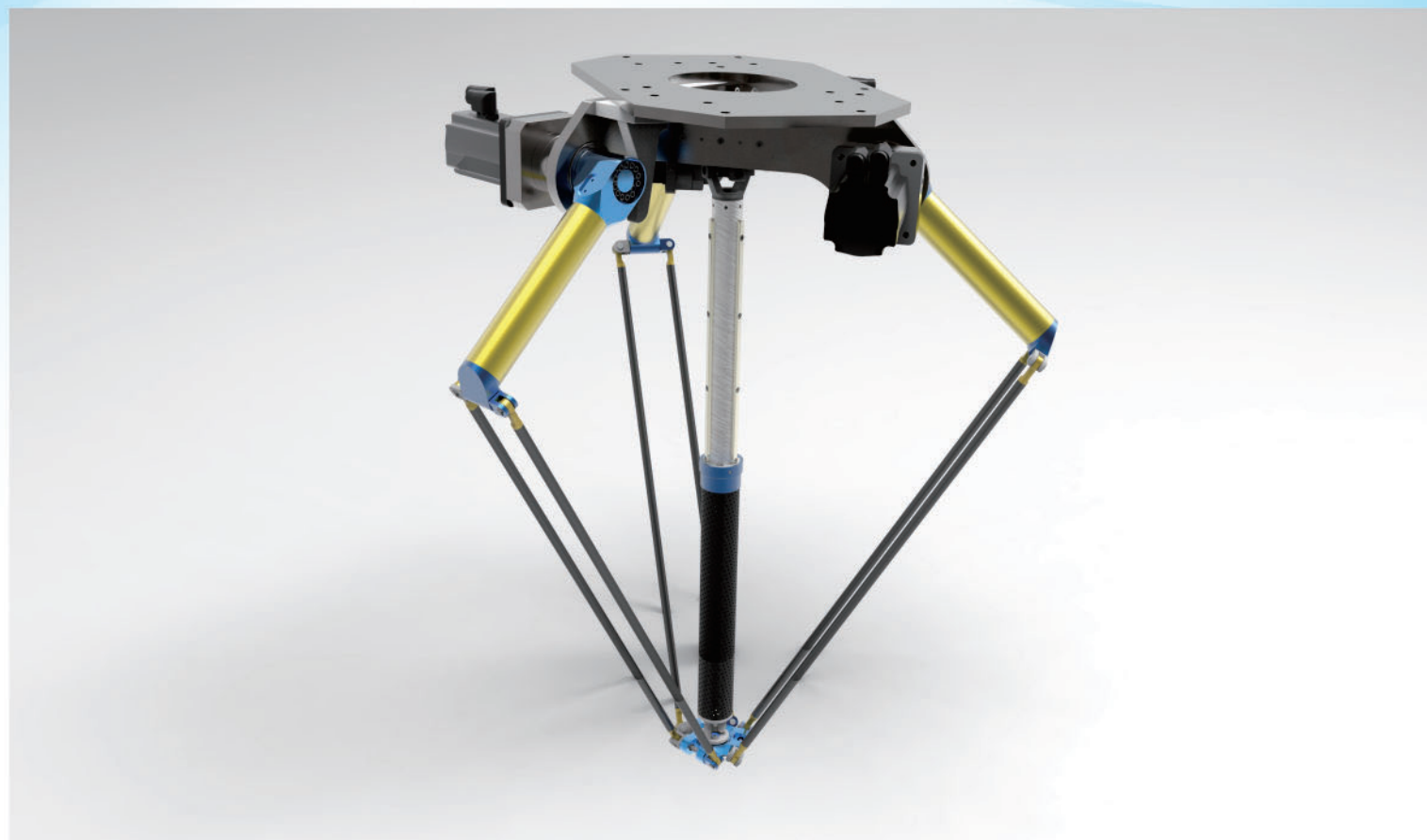
沛愉生产的SPC-R关节臂装箱机是一种智能型全自动高速装箱机，采用高速双伺服装置包装各种容器，包括玻璃瓶、塑料瓶以及各种箱式物品，装箱节奏不大于12次每分钟。本机采用PLC加触摸屏显示控制，双伺服系统能够完成任意合理的位置曲线，移动轨迹冲击小，移动速度高。设有缺瓶报警停机，无瓶不装箱安全配置，大大方便操作、减少生产管理人员和劳动强度，是全自动高速食品包装的优选机型之一。

The SPC-R robot arm case packing machine which is produced by Peiyu. It is an intelligent automatic packing machine that uses a high speed dual servo to package various containers, including glass bottles, plastic bottles and various filling items. Packing rhythm is no more than 12 times per minute. This machine adopts PLC+ touch screen control, and it has bottle shortage alarm. If the machine does not has bottles, it will be automatic shutdown, no bottle and no case safe configuration, greatly facilitates operation, reduces production worker management and labor intensity, And the machine is one of the preferred models for automatic food packaging.

装 箱 机		技术参数: Technical parameters			
适用产品	Applicable product	利乐砖、利乐钻	Tetra brik, Tetra Prisma	生产能力	Capacity
包装排列	Arrangement	3x4(单层)或2x3x2(双层)	3*4 (single layer) or 2*3*2 (double layers)	整机功率	Total power
消耗气量	Air consumption	60m³/h		技术效率	Efficiency
气源压力	Air pressure	≥0.6MPa		主机尺寸	Dimensions

■ SPC-4B80蜘蛛手

The spider claws



蜘蛛机械手属于高速、轻载的并联机器人，具有三个空间自由度和一个转动自由度。沛愉全新的蜘蛛手装盘系统是专为软袋食品的灭菌和蒸煮研发设计的，并配备工业视觉和各类末端执行器。单蜘蛛手装盘速度80次每分钟。针对软袋设计的夹具，能够适应各类软包装袋。高品质的伺服系统及高精度减速器、坚固的连接配置，使蜘蛛手的使用寿命得到充分保证。

The spider claw is a high-speed, light-load parallel robot with three spatial degrees of freedom and one rotational degree of freedom. Peiyu's new spider hands-loading system is designed for the sterilization retort and cooking of soft-bag foods, with industrial vision and end-of-line actuators. Single spider claw loading speed of 80 times per minute. The device designed for the soft bag which can be adapted to various soft-bag bags. High-quality servo system, high-precision reducer, and a sturdy connection configuration which makes the spider claws life is fully guaranteed.

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■ SPC-DR跌落式装箱机

The SPC-DR drop-type packing machine

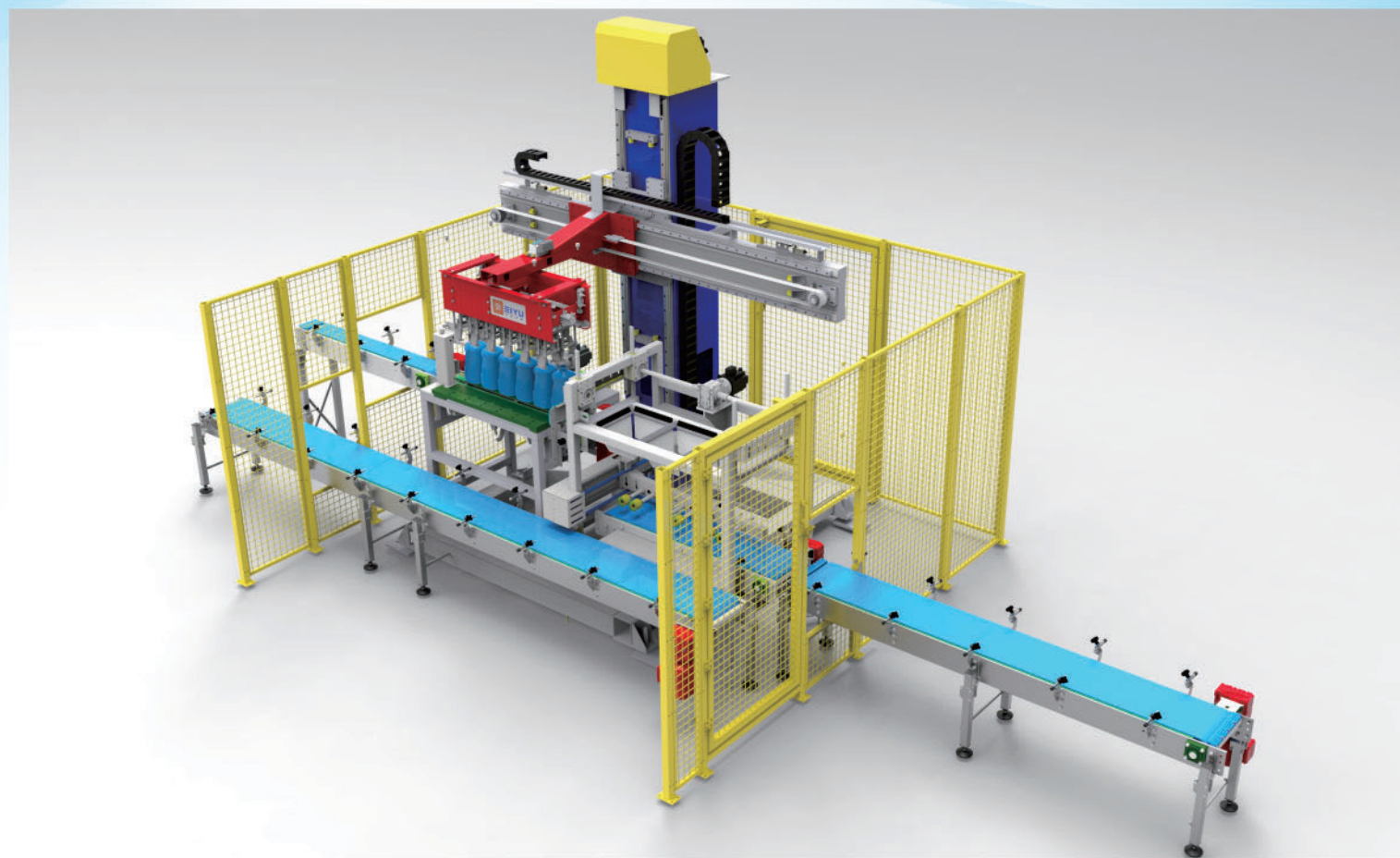


沛愉生产的SPC-DR跌落式装箱机是一种智能型全自动装箱机，采用进瓶输送顶式配置，充分节省场地。使用包括玻璃瓶、塑料瓶以及各种圆型、方瓶等规正瓶，装箱节奏不大于14次每分钟。本机采用PLC加触摸屏显示控制，采用入箱缓冲装置实现柔性入箱，移动轨迹冲击柔和，移动速度高。设有缺瓶报警停机，无瓶不装箱安全配置，大大方便操作、管理减少生产人员和劳动强度，是全自动食品包装的优选机型之一。

The SPC-DR drop-type packing machine which is produced by Peiyu is an intelligent automatic case packer machine. The machine has a top in-feed structure to save space. The machine is suitable for glass bottles, plastic bottles and a variety of round or square bottles and other regular bottles, the max packing rate is 14 times per minute. The cardboard entry uses cushioning devices to supply cardboard flexible, the moving track of cardboard is gentle and move speed high. This machine is controlled by PLC and HMI, and equipment operation and maintenance very easy. And it has bottle shortage alarm. If the machine does not has bottles, it will be automatic shutdown, no bottle and no case safe configuration, greatly facilitates operation, reduces production worker management and labor intensity, And the machine is one of the preferred models for automatic food packaging.

▪ 大桶水装箱机

Barreled water case packing machine



沛愉生产的大桶水自动装箱机适用于5升及以上的各种容器饮料（水）而设计的，可根据客户各种容器的要求自动根据产品的特点进行分层；分组排列装箱，完成后可与客户后段包装对接。也可以一站式提供后端包装。

采用高速平稳节省空间的理念，实现智能化操作管理，实现人机对话，可实现生产速度、故障原因及位置的显示。自动化程度高，可大大减少劳动力和降低劳动强度。

The Peiyu produce the large barrel water automatic packing machine which is designed for capacity 5 liters and above beverages (water). The machine can be layered according to the requirements of various customers' containers, and then the machine can automatically layered to stratified with requirements which according to the characteristics of the products. After completion the case can be docked with the customer's backend packing line. We can also provide turn key service for backend packing line.

The machine adopts high speed and space saving concept. It can realize intelligent operation management, human-computer dialogue, production speed and the cause and the location of the malfunction can be displayed, high degree of automation. The machine can reduce labor and labor intensity greatly.

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▪ SPC-RD软袋式装箱机

SPC-RD soft bag case packer

沛愉生产的SPC-RD软袋装箱机是一种智能型全自动装箱机，它适用于各种软袋装箱、占地面积小，性能可靠。本机采用PLC加触摸屏显示控制，采用入箱缓冲装置实现柔性入箱，冲击柔和，移动速度高。

本机设有缺袋报警停机，无袋不装箱安全配置，大大方便操作、减少生产管理人员和劳动强度，是全自动袋装包装的优选机型之一

Peiyu product the SPC-RD soft bag case packer is an intelligent automatic packing machine, which is suitable for packing various soft bags, with small footprint and reliable performance. This machine adopts PLC and touch screen display control, it also adopts the case buffer device to realize flexible entry into the case, the movement track has soft impact and high moving speed.

The machine has bottle shortage alarm. If the machine does not has bottles, it will be automatic shutdown, no bottle and no case safe configuration, reduces production worker management and labor intensity, and the machine is one of the preferred models for automatic food packaging.



■ SPC-L330易拉罐礼盒包装机

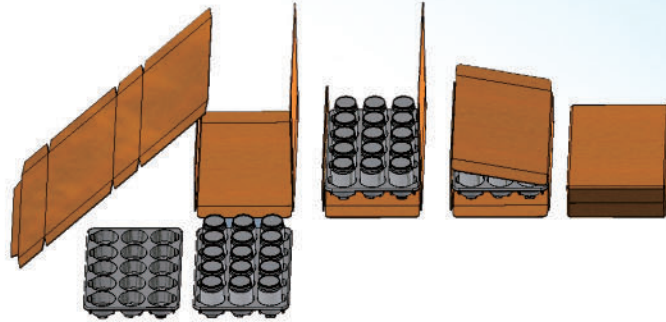
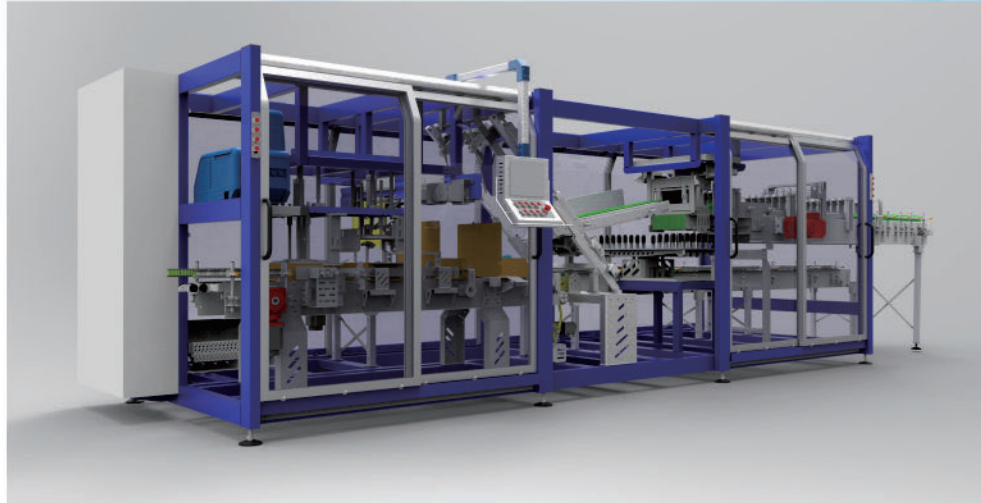
SPC-L330 Ring-pull cans gift box packing machine

易拉罐礼盒包装机是我司适应市场近期开发的，带专利的礼盒封装机，具有产能高、占地小、故障低、动作流畅等特点。

通过特殊的分罐和落罐技术，精准的将罐分间距落入纸托内，并克服罐的反弹。采用先进的吸纸箱技术使纸箱走出柔美的曲线完美成型。托入纸箱由联动控制精准自动到位，定位可靠动作合理流畅。采用乐佰得（瑞士）全自动化智能喷胶机，气缸推动前喷胶头，气缸下压带动从动凸轮完成上舌边封箱。侧压气缸推动完成侧面封箱的全自动封装过程。选用进口PLC编程控制，采用进口可靠的气动装置和先进的电控技术，具有自动到位，定位，精准落罐入托，全自动包装过程。

The gift box packing machine is developed by our company according to recent market demand. It is Peiyu patent product. The machine character is high productivity, small space, low failure rate and run smoothly.

The equipment use special cans distribution and drop down mechanism, make the cans drop into the tray and the position accuracy, the cans will not rebound. Box forming mechanism use advanced attract carton technology, carton forming smoothly and continuously. The process of tray entering carton can be accurately and automatically controlled by linkage control, reliable and reliable movement. The Robatech (Switzerland) fully automated and intelligent glue sprayer is used for this machine. The cylinder pushes the front spray head, the cylinder pressure down drives the driven cam to realize the sealing of the upper edge of the gift box. The side pressure cylinder pushes box side to finish the box seal and the whole packing process of sealing is automated. Imported PLC programming control, imported reliable pneumatic device and advanced electronic control system, automatic positioning, location, accurate drop the cans down to the tray, all packing automated.



SPC-L330

技术参数：Technical parameters

产能	Capacity	22箱/分	22 Cartons/min
气源压力	Air pressure	0.5-0.8MPa	0.5-0.8MPa
消耗量	Air consumption	500 NL/ Min	500 NL/ Min
损箱率	Carton damage rate	≤0.3%	≤0.3%
设备尺寸	Dimension	7900*2060*2080 (mm)	7900*2060*2080 (mm)
输入功率	Input power	10KW	10KW

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■ SPC-CL 链盘式装箱机

SPC-CL Chain-wheel type case packer



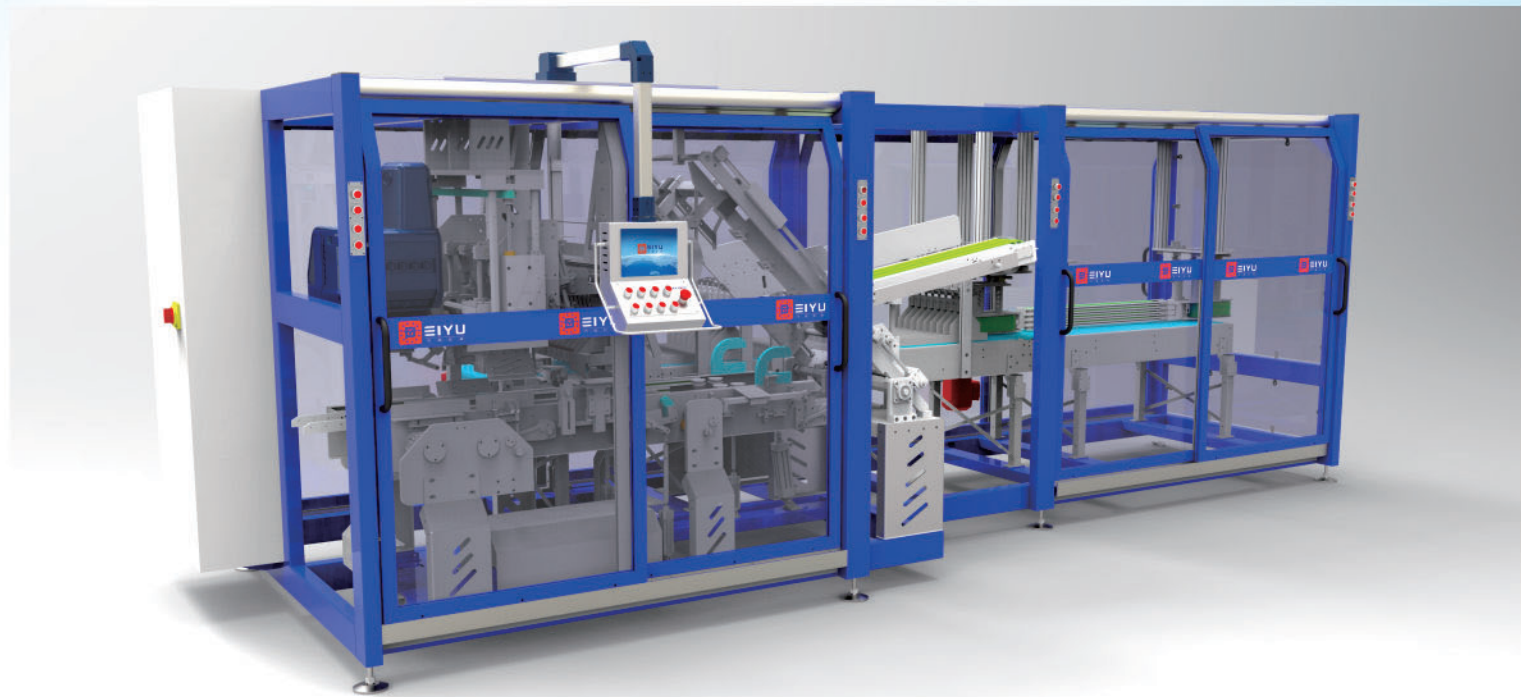
沛愉生产的SPC-CL链盘式装箱机是一种智能型全自动装箱机，采用高速分瓶装置包装各种容器，包括玻璃瓶、塑料瓶以及各种灌装物品，装箱节奏不大于5次每分钟。本机采用PLC加触摸屏显示控制，设有缺瓶报警、停机功能，无瓶不装箱安全配置，大大方便操作、减弱了劳动强度和减少了生产管理人员，是全自动食品包装的优选机型之一。

The SPC-CL chain-wheel type case packer which is produced by Peiyu. It is an intelligent automatic case packer that uses a high-speed bottle-discharging device to package various containers, including glass bottles, plastic bottles and various filling items. Packing rhythm is no more than 5 times per minute. This machine adopts PLC plus touch screen control, and it has bottle shortage alarm. If the machine does not has bottles, it will be automatic shutdown, no bottle and no case safe configuration, greatly facilitates operation, reduces production worker management and labor intensity, and the machine is one of the preferred models for automatic food packaging.

■ **侧推式裹包机**
 Side push type wrapping machine

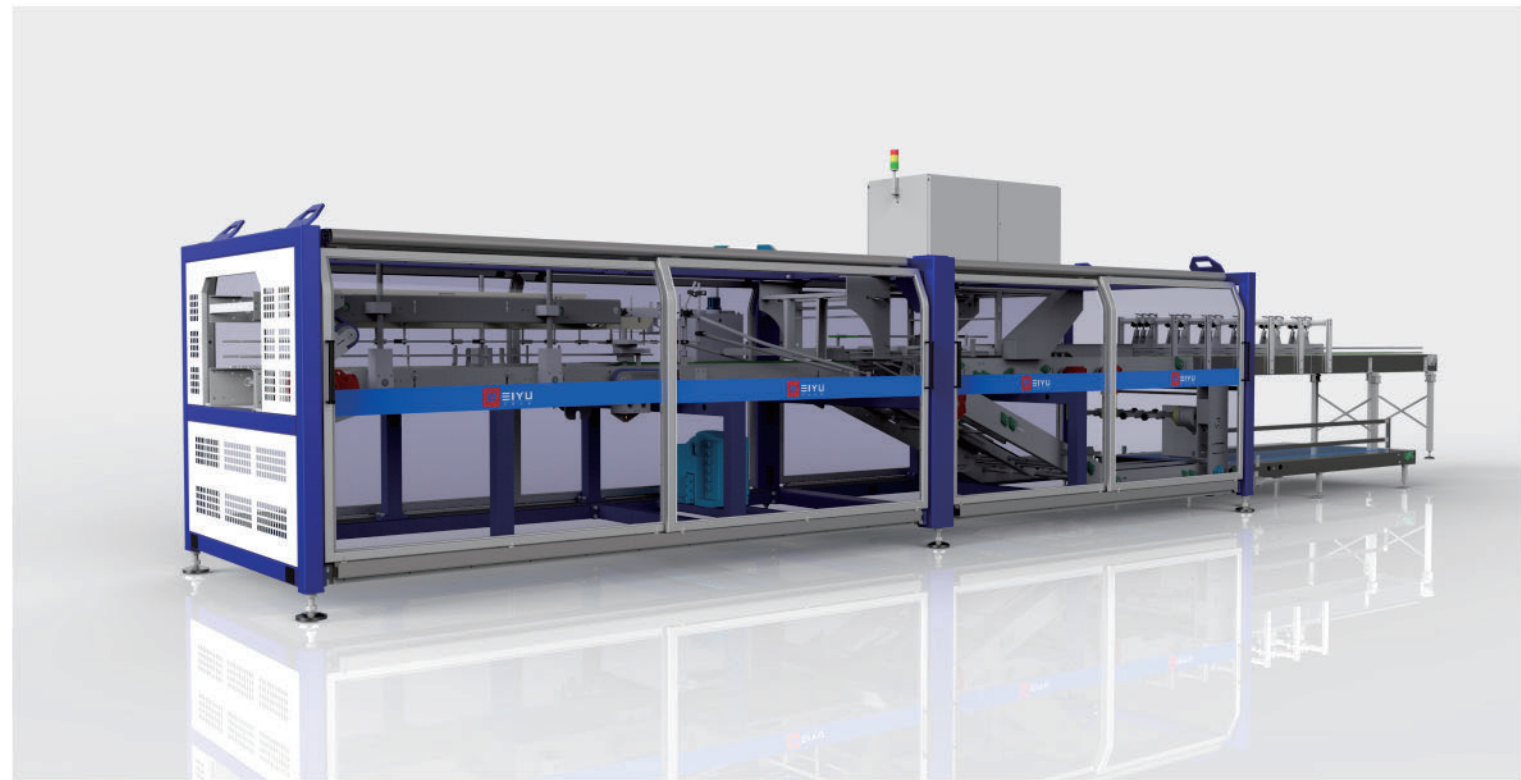
侧推式裹包机可适合屋顶包、利乐砖、利乐钻、利乐冠等各种包装形式产品，此设备是将输送过来的产品,通过高速分道机构，按照一定数量一次排列成多道，整理排列为规定形式后，供箱装置吸取纸板成型,送至装箱位,推箱装置隔离出单箱产品,推入纸箱，再输送移动至封箱位，通过热熔胶或者胶带封合自动包装的过程。

The side push type wrapping machine suits for various packages, like roof package, Tetra Brik, Tetra Prisma, Tetra Evero. This packing machine is used to separate random bottles into a certain arrangement by high speed separating mechanism. The arranged bottles will be put into carton, then sealed by hot glue or adhesive tap.



侧推式裹包机 技术参数：Technical parameters		
电源	Power	380V,3P,50Hz
电压	Voltage	220V,1P,50Hz&DC24V
气压力	Air pressure	5-7Kg/cm²
气消耗量	Air consumption	1000 L/ 分 (1000L/min)
损箱率	Carton defect rate	≤0.3
设备外形尺寸	dimension	长6200mm x 宽2450mm x 高2100mm(length6200mm x width2450mm x height2100mm)

■ **下进箱高速裹包机**
 SPC-Series of low position enter cases high speed wrap machine



将输送过来的瓶（罐）排列为规定形式后，输送到供箱网链提供过来的展开的纸箱上，纸箱前进成型，喷胶缝合成箱的自动包装过程。适用于玻璃瓶、PET瓶、易拉罐等各生产线上的多种瓶型。

After the bottles or cans are arranged in a specially designed form and are transported to the unfolded carton board which is transported by case mesh conveyer chain. The cardboard is formed along the way, and glue spray and seal automatic. Applicable to various bottles type, such as glass bottles, PET bottles and cans from production lines etc.

高速裹包机		技术参数：Technical parameters	
适用箱型	Applicable products	玻璃瓶、PET瓶、易拉罐等各生产线上的多种瓶型。	Glass bottles,PET bottles, cans and various type of bottles according to customers' needs etc.
设备生产能力	Capacity	40箱/分钟	40 cartons/min
瓶子直径	Bottle diameter	55~100mm	55~100mm
瓶子高度	Bottle height	90~300mm	90~300mm
产品规格（纸箱）	Carton specification	纸箱最小尺寸:200*190*90mm	Minimum carton size: 200*190*90mm
		纸箱最大尺寸:480*300*300mm	Maximum carton size: 480*300*300mm
整机功率	Power	18KW	18KW

■ 单通道龙门码垛机 Single channel gantry palletizer

单通道龙门码垛机是将纸箱、塑包、膜包或其它包装件，按一定排列码放在托盘（木质、塑胶）上，进行自动堆码，可堆码多层，然后自动输至实托盘工位，便于叉车运至仓库储存。本设备采用PLC+触摸屏控制，实现智能化操作管理，简便、易掌握，可大大地减少劳动力和降低劳动强度。采用高速、平稳、节省空间之理念设计。供栈采用分开式脱盘、更快速、更节省空间。适用性强,一机多用，调整迅速，可用于多种规格产品码垛。

Single channel gantry palletizer can palletize the carton、plastic case、shrink film package or other packaging pieces on the pallet(wood, plastic), automatic stacking multi-layers, then automatically out and easy to forklift transported to the warehouse. The device controlled by PLC and touch screen control pad to realize intelligent operation management, high degree of automation, simple, easy to master, and it can greatly reduce labor and reduce labor intensity. Focus on the concept of high speed, stable and save a space design. Pallet divider uses separate tray, high speed, save space. One machine multi-purpose, adjust quickly, palletizer can be used for stocking a variety of specifications products.



单通道码垛机		技术参数：Technical parameters	
作业方式	Operating mode	上下整层平移码垛	Stacking layer by layer
生产效率	Capacity	40箱/分钟	40 cases /min
处理产品	Applicable Product	纸箱、塑箱、膜包	Carton、Plastic case、Shrink film packaging
产品输送带高度	Conveyor height	750mm	750mm
托盘输送带高度	Pallet conveyor height	550mm	550mm
托盘尺寸	Pallet size	常规托盘尺寸均可 （依据客户定）	Standard pallet (as demanded)
纸箱尺寸	Case size	依据客户要求	As demanded
堆积方式	Palletizing method	依据客户要求	As demanded
托盘堆积仓	Pallet storage	15个托盘	15 pallets
总功率	Total Power	18KW	18KW
设备重量	Equipment weight	8T	8T
设备尺寸	Dimension	8500*6000*3700mm	8500*6000*3700mm

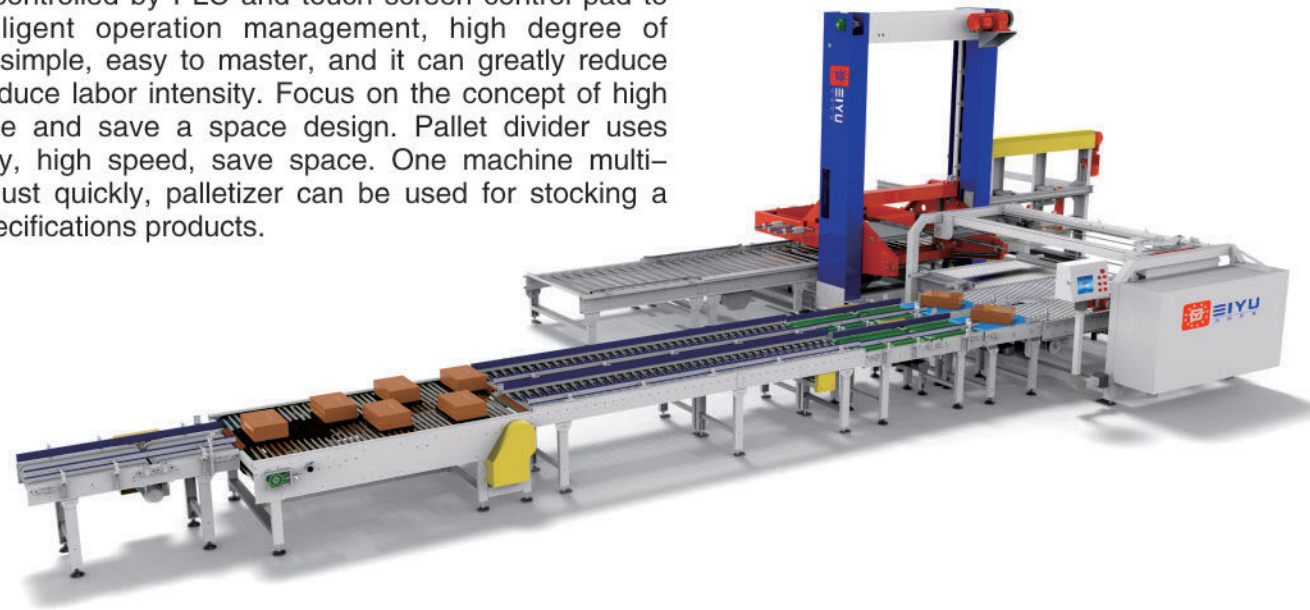
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■ 双通道龙门码垛机 Double channel gantry palletizer

双通道龙门码垛机是将纸箱、塑包、膜包或其它包装件，按一定排列码放在托盘（木质、塑胶）上，进行自动堆码，可堆码多层，然后自动输至实托盘工位，便于叉车运至仓库储存。双通道龙门码垛机通过分箱机构，将箱子分成两道进入理箱台，再由理箱台推送至升降台上，进行码垛，码垛效率更高。本设备采用PLC+触摸屏控制，实现智能化操作管理，简便、易掌握，可大大地减少劳动力和降低劳动强度。采用高速、平稳、节省空间之理念设计。供栈采用分开式脱盘、更快速、更节省空间。适用性强，一机多用，调整迅速，可用于多种规格产品码垛。

Double channel gantry palletizer can palletize the carton、plastic case、shrink film package or other packaging pieces on the pallet(wood, plastic), automatic stacking multi-layers, then automatically out and easy to forklift transported to the warehouse. It divides the cases into two lines by separation mechanism and the cases enter the case arrangement platform from these two lines. After that the cases are pushed to the lifting platform from arrangement platform, and palletizing. This kind of palletizing is more efficient.

The device controlled by PLC and touch screen control pad to realize intelligent operation management, high degree of automation, simple, easy to master, and it can greatly reduce labor and reduce labor intensity. Focus on the concept of high speed, stable and save a space design. Pallet divider uses separate tray, high speed, save space. One machine multi-purpose, adjust quickly, palletizer can be used for stocking a variety of specifications products.



双通道码垛机		技术参数：Technical parameters	
作业方式	Operating mode	上下整层平移码垛	Stacking layer by layer
生产效率	Capacity	60箱/分钟	60 cases /min
处理产品	Applicable Product	纸箱、塑箱、膜包	Carton、Plastic case、Shrink film packaging
产品输送带高度	Conveyor height	750mm	750mm
托盘输送带高度	Pallet conveyor height	550mm	550mm
托盘尺寸	Pallet size	常规托盘尺寸均可 （依据客户定）	Standard pallet (as demanded)
纸箱尺寸	Case size	依据客户要求	As demanded
堆积方式	Palletizing method	依据客户要求	As demanded
托盘堆积仓	Pallet storage	15个托盘	15 pallets
总功率	Total Power	21KW	21KW
设备重量	Equipment weight	9200KG	9200KG
设备尺寸	Dimension	14500*7000*3750mm	14500*7000*3750mm

■ 机器人码垛机

Robot palletizer

机器人码垛机应用于各种装箱成型后的箱体进行自动转移，整理，码垛作业。箱体自动传输进入差速输送线，按照要求通过旋转输送装置自动进行整理排布，由自动推箱机构推入指定位置，同时栈板通过输送线自动传输到特定位置，在机器人操作下对整理好的箱体进行自动码垛作业，完成入库前准备。本机推瓶方式可选择连续动作或单一循环动作，操作适应性高，同时适用各种饮品后段包装箱码垛作业。采用PLC可编程计算机自动控制器、光电开关、行程开关、气动控制等控制系统，机械动作的准确性高，且操作容易。码垛系统采用高精度机器人作业，动作稳定、故障少、坚固耐用。



The robot palletizer is applied to various case-shaped for automatic convey, tidy, and palletizing operations. The case body is automatically conveyed into the differential conveying line, and it is automatically arranged by the rotary conveying device according to the requirement, then it is pushed into the designated position by the automatic pushing mechanism, the pallet is automatically conveyed to the specific position through the conveying line, and the case is arranged under the robot operation. Automatic stacking of the finished cases are carried out under the operation of the robot and it is ready for storage. The machine push type can be selected as continuous action or single cycle action, the operation adaptability is high. At the same time, it is applicable to the packing operation of the package of the back section of various drinking articles. It adopts PLC programmable computer automatic controller, photoelectric switch, travel switch, pneumatic control and other control systems. The accuracy of mechanical action is high and the operation is easy. The palletizing system uses high-precision robot operation, which is stable in operation, less in failure, and durable.

机器人码垛机		技术参数：Technical parameters	
作业方式	Operating mode	抓取码垛	Grab palletizing
生产效率	Capacity	≤420次/时	≤420 times/h
处理产品	Applicable Product	纸箱、塑箱	Carton、Plastic case
产品输送带高度	Conveyor height	依据客户要求	As demanded
托盘输送带高度	Pallet conveyor height	依据客户要求	As demanded
托盘尺寸	Pallet size	常规托盘尺寸均可（依据客户定）	Standard pallet (as demanded)
纸箱尺寸	Case size	依据客户要求	As demanded
堆积方式	Palletizing method	依据客户要求	As demanded
托盘堆积仓	Pallet storage	15个托盘	15 Pallet
总功率	Total Power	27KW	27KW
设备重量	Equipment weight	11200KG	11200KG
设备尺寸	Dimension	13600*9500*4300mm	13600*9500*4300mm

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■ 单立柱码垛机

Single- column palletizer

单立柱码垛机由加速皮带、转向堆积滚筒、理箱台、托盘、立柱、横梁、供栈器和输送滚筒等机构组成，适用于纸箱、塑箱、膜包等多种包装件的堆叠。工作时，将已装入产品的纸箱，按预先设计好的排列方式在单立柱升降机构和推箱机构的共同作用下，在栈板上逐层自动堆码，堆积至指定高度后，通过滚筒输送线移至叉车位，运至仓库储存。本机采用PLC+触摸屏控制，实现自动化操作管理，简便易操作，占地空间小，码垛效率高，故障率低、维护方便。



The single-column palletizing machine is composed of an acceleration belt, a steering stacking roller, a case arrangement table, a column, a beam, a pallet divider and a roller conveyor, and it is suitable for stacking various packages such as carton、plastic case、shrink film package or other packaging pieces.

The workflow, the machine is automatically stack the cartons on the pallet layer by layer according to the pre designed stack type. Under the combined action of single column lifting mechanical structure and pushing box structure stacking to a specified height and the cartons stack is passed through the roller conveyor line moved to the forklift and transported to the warehouse for storage. This kind of machine controlled by PLC and touch screen, realize high degree of automation, simple, easy to master, small floor space, high palletizing efficiency, low failure rate and convenient maintenance.

单立柱码垛机		技术参数：Technical parameters	
作业方式	Operating mode	上下整层平移码垛	Stacking layer by layer
生产效率	Capacity	60箱/分钟	60 cases /min
处理产品	Applicable Product	纸箱、塑箱、膜包	Carton、Plastic case、Shrink film packaging
产品输送带高度	Conveyor height	750mm	750mm
托盘输送带高度	Pallet conveyor height	500mm	500mm
托盘尺寸	Pallet size	常规托盘尺寸均可（依据客户定）	Standard pallet (as demanded)
纸箱尺寸	Case size	依据客户要求	As demanded
堆积方式	Palletizing method	依据客户要求	As demanded
托盘堆积仓	Pallet storage	15个托盘	15 pallets
总功率	Total Power	22KW	22KW
设备重量	Equipment weight	8000KG	8000KG
设备尺寸	Dimension	9500*6000*3700mm	9500*6000*3700mm

■ 空瓶码垛机
 Empty bottle palletizing



空瓶码垛机主要是将生产线的输送过来的空玻璃瓶，按照规定的排列方式，码成一定高度。设备主要是由网带输送、吸隔板机构、移载机构、隔板供应机构，供栈机等部分组成。

The empty bottle palletizing machine is mainly to stock the empty glass bottles transported by the production line, and it according to the preset arrangement and prescribed height as demand. The equipment is mainly composed of the mesh belt conveyor, the vauum grip insert plate mechanism, the transplanting mechanism, the supply insert plate mechanism, the pallet divider machine etc..

空瓶码垛机		技术参数：Technical parameters	
生产能力	Production capacity	750瓶/分	750 bottles/min
外形尺寸	Equipment size	1800*7000*4500mm	1800*7000*4500mm
设备自重	Equipment weight	22T	22T
电机总功率	Total power	38KW	38KW
空气压力	Air pressure	0.5 ~ 0.7Mpa	0.5 ~ 0.7Mpa

■ 实罐码垛机
 Full cans palletizer

实罐码垛机主要用于实罐易拉罐的自动码垛。设备主要由供栈机、单立柱存隔板、吸隔板平移、进瓶网链、实罐移栽、主体架、输送线等组成。根据不同罐形产品需求，采用相应码罐方式。

- 1.主传动装置采用双排高强度链条，传动稳定、可靠
- 2.输垛输送线采用高强度链条，输送速度可变频调速，输垛位可存储2垛以上产品
- 3.整机由PLC联动控制，自动到位，定位，自动升降，自动吸放隔板，自动进罐，自动供给空栈板。操作简单，能快速处理异常问题。



The full cans palletizer system is mainly used for automatic palletizing full cans stack. The equipment is mainly composed of a pallet divider, a single column insert plate storage, a vacuum insert plate suction and translation structure, a bottle mesh chain, a full cans move load, a main frame, conveyor line etc.. According to the demand of different kinds of cans corresponding palletizing method adopted.

1. The main drive is made by double row high strength chains, and the transmission is stable and reliable.
2. The stack conveyor line use high–strength chain, the speed can be controlled by inverter, and there are more than two stacks can be storage at output area.
3. The machine is controlled by PLC. automatic positioning, location, automatic lifting, automatic vacuum grip insert plates, automatic put into the cans and automatic supply the empty pallets. It is easy to operate and can handle abnormal fault quickly.

实罐码垛机		技术参数：Technical parameters	
整机速度	Capacity	700罐/分	700 cans/min
每层最大载重	Maximum load per layer	250kg	250kg
每栈板最大载重	Maximum load per pallet	1500kg	1500kg
安装电力	Installed of power	20KW	20KW
使用空气压力	Air pressure	6bar	6bar
消耗空气量	Air consumption	800L/min	800L/min
设备尺寸	Dimension	12000*5000*3300mm	12000*5000*3300mm

■ 低位卸垛机
 Low position de-palletizer



低位卸垛适用于玻璃瓶、纸箱、塑箱、膜包等产品的整垛的拆垛，将整垛的产品拆至输送线上，以备后续工况的生产使用。设备主要由升降主体、平移小车、抱夹机构、网带输送等部分组成。如果垛层中有隔板，可为客户设计自动收集隔板系统。

The low position de-palletizer is suitable for bottles, various types of cartons, plastic cases, shrink packs and barreled products etc unloading stack. It is used for de-palletizing products layer by layer and then transport to subsequent production line. It mainly consists of auto lifter, horizontal -transferring system, carton -storage conveying device, belt conveyor, and other devices. If there is the insert plate between each layer, insert plate auto collect device can be added.

低位卸垛机		技术参数：Technical parameters	
生产效率	Capacity	40箱/分钟、400瓶/分钟	40 cases/min、400 bottles/min
处理产品	Applicable product	玻璃瓶、纸箱、塑箱、膜包等产品	Cartons,plastic cases,shrink packs etc
托盘尺寸	Pallet size	1200*1200*150mm	1200*1200*150mm
总功率	Total power	15KW	15KW
设备重量	Equipment weight	5500KG	5500KG
设备尺寸	Dimensions	5200*2300*3700mm	5200*2300*3700mm

■ 高位卸垛机
 High position de-palletizer

高位卸垛机主要用于空瓶（易拉罐、玻璃瓶等）卸垛。主要由输送线、吸隔板、卸罐机构、主体架、收栈器、出瓶网链、单立柱存隔板等构成。

- 1.进垛输送线使用链条传动，运动平稳可靠，进垛位可预存两垛以上产品
- 2.设备有夹、吸隔板装置，自动进行卸垛处理，并在卸垛完成后自动收集隔板、栈板
- 3.整机PLC联动控制，设置有触摸屏操作系统，操作简单、方便，能快速处理异常问题

High position de-palletizer are mainly used for empty bottles (tin cans, glass bottles, etc.). It mainly consists of conveying line, suction insert plate, unloading mechanism, main frame, stack receiver, bottle net chain, single column storage insert plate and etc..

1. The conveyor line is driven by chain, the movement is stable and reliable, and more than two products can be pre-stored in the position.
2. The equipment has a clip and suction insert plate device, which can make the de-palletizing treatment automaticly, and the empty can de-palletizers automatic collects the insert plate and pallet after the de-palletization is completed.
3. The whole machine is controlled by PLC linkage control, with the touch-screen operating system, it is very easy and convenient to operate, and it can handle exception problem quickly.



高位卸垛机		技术参数：Technical parameters	
机体尺寸	Equipment size	17260*13760*5380mm	17260*13760*5380mm
整机速度	Capacity	700罐/分	700 cans/min
机器重量	Equipment weight	约10T	About 10T
功率	Power	15KW	15KW
耗空气量	Air consumption	0.8 L/min	0.8 L/min
每层最大载重	Maximum load per layer	250KG	250KG
每栈板最大载重	Maximum load per pallet	1500KG	1500KG
可卸高度	Unloading stack height	2800mm	2800mm

低位卸瓶机

Low position de-palletizer for bottles



低位卸瓶机是将整垛排列整齐的空瓶一层层自动拆卸进入流水线，供后续灌装使用。液压升降台置于地面以下，进垛高度与出垛高度相比高位卸瓶均低，故称为低位卸瓶机。此机型多为半自动，成本较低，升降采用液压产品，平稳可靠，PLC及触摸屏电气控制系统，有故障报警提示等功能，使设备操作维护非常简单。

The low position de-palletizer for bottles is use for automatically unload the empty bottles from the stack layer by layer. The hydraulic lifting platform is placed below the ground, and the height of the entrance conveyor and exit height is lower than high position depalletizer.

This model is mostly semi-automatic, the price cheap. Hydraulic lifting, it is stable and reliable, the PLC and touch screen electrical control system, with the function of fault alarm, equipment operation and maintenance very easy.

低位卸瓶机		技术参数：Technical parameters
垛板尺寸	Pallet size	1200*1000*150mm
垛形尺寸	The stack size	6400*3880*2150mm
总功率	Total power	4KW
设备自重	Equipment weight	4500KG
使用空气压力	Using air pressure	0.4-0.7Mpa

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实罐码卸垛机

Full cans palletizing and depalletizing system



实罐码卸垛机适用于实罐易拉罐的码垛与卸垛机，设备主要由实罐码垛系统、实罐卸垛系统、实罐输送系统组成。升降方式为液压驱动，平移方式为同步带传动的抱夹移载。

This system is suitable for palletizing and depalletizing full cans. It is mainly composed of full cans palletizer, full cans depalletizer, full cans conveyer system. The lifting system uses hydraulic drive. The parallel shift of the cans is clamping and shifting way by synchronous belt drive.

实罐码卸垛机		技术参数：Technical parameters	
生产效率	Capacity	800瓶/分	800 cans/min
适用产品	Applicable product	实罐易拉罐	Full tin can
垛板规格	Pallet size	1100*1100/1200*1200mm	1100*1100/1200*1200mm
总功率	Total power	15KW	15KW
所需压缩空气压力	Air pressure	0.5-0.7Mpa	0.5-0.7Mpa
设备重量	Equipment weigt	10T	10T

■ SPC-550单头套标机

SPC-550 sleeve labeling machine



标签套入示意图
Work Flow Chart



SPC-550是我司新研发成功的新一代单头套标机。1.高速稳定，使用寿命长，动作配置可靠合理，独特设计为套标机的高速运作提供了保障，同时大大延长了设备的使用寿命。广泛采用伺服电机驱动各系统，使收缩膜能按固定尺寸输送、定位，收缩。2.安全性能好，在设计过程中体现人机和谐的理念，针对人为不当操作带来的安全隐患自动检查并阻断。3.更换包装物料容易，采用模块化换模设计，简单手动更换。

SPC-550 is a new generation of sleeve labeling machine which is developed by our company.

1. High speed and stability, long service life, reliable and reasonable action configuration. The unique design provides guarantee for the high-speed operation of the sleeve labeling machine, and greatly prolongs the service life of the equipment. The servo motor system is widely used to drive, so that the shrink film can be transported, positioned and shrunk in a fixed size.
2. The safety performance is good. The concept of human-machine harmony is embodied in the design process, and the safety hazards brought about by improper operation are automatically checked and blocked.
3. It is easy to replace the packaging materials, and it adopt modular design and simple manual replacement.

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■ SPC-D550双头套标机

SPC-D550 Double heads sleeve labeling machine

SPC-D550是我司新研发成功的新一代双头套标机。

1.高速稳定，使用寿命长，动作配置可靠合理，独特设计为套标机的高速运作提供了保障，同时大大延长了设备的使用寿命。广泛采用伺服电机驱动各系统，使收缩膜能按固定尺寸输送、定位，收缩。

2.安全性能好，在设计过程中体现人机和谐的理念，针对人为不当操作带来的安全隐患自动检查并阻断。

3.更换包装物料容易，采用模块化换模设计，简单手动更换。

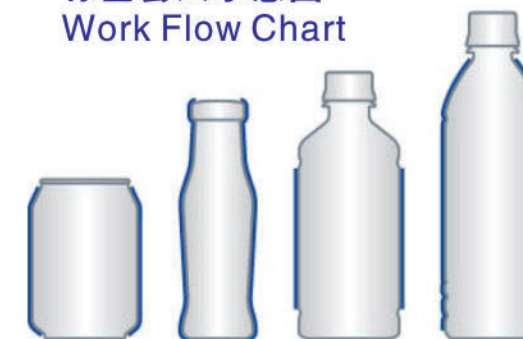
SPC-D550 is a new generation of sleeve labeling machine with two sleeve heads which is developed by our company.

1. High speed and stability, long service life, reliable and reasonable action configuration. The unique design provides guarantee for the high-speed operation of the sleeve labeling machine, and greatly prolongs the service life of the equipment. The servo motor system is widely used to drive, so that the shrink film can be transported, positioned and shrunk in a fixed size.

2. The safety performance is good. The concept of human-machine harmony is embodied in the design process, and the safety hazards brought about by improper operation are automatically checked and blocked.

3. It is easy to replace the packaging materials, and it adopt modular design and simple manual replacement.

标签套入示意图
Work Flow Chart



■ SPC-3000蒸汽收缩炉

SPC-3000 Stean shrinking tunnel

新式蒸汽收缩炉，针对不同不规则园瓶、方瓶、扁瓶等瓶型设计，各蒸汽压力、流量独立可调。本收缩炉更具有使标签收缩的特性，独特设计的高低喷嘴，宽窄根据不同瓶型来调整，外部设计的透视窗可以观察整个收缩过程，收缩分3段温区，可根据收缩需求，分别调整每段收缩区域的温度，以达到最佳收缩效果。独特的进出口设计可使蒸汽冷凝，以防蒸汽外泄。整体式的可调节抽风管道设计即可以根据每段的收缩情况来调整抽风量的大小又可在风机的作用下把蒸汽送走，有利于车间工作环境。

The new steam shrinking tunnel is designed for different irregular round bottles, square bottles and flat bottles. The steam pressure and flow rate are independently adjustable. The shrinking tunnel has the characteristics of shrinking the label, and the machine has uniquely nozzles is designed by high position and low position. The nozzles are adjusted according to different bottle types. The externally designed see-through window can observe the whole shrinking process, and the shrinking is divided into three sections of temperature zones, which can be adjusted according to the shrinking demand. The temperature of each segment of the shrinkage zone to achieve the best shrinkage effect. The unique import and export design make the steam to condense, so that it can prevent steam from leaking out. The design of the integral adjustable exhaust duct can adjust the amount of exhaust air according to the contraction of each section, and it can send the steam away under the action of the fan, which is beneficial to the working environment of the workshop.



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■ SPC-MSW45F全自动热收缩包装机

SPC-MSW45F Shrink film packing machine



我司生产的热收缩膜包机,具有操作简单,适用范围广,密封性好的特点,整体组合设计,各部件维护方便,采用全伺服电机传动,同步定位精确。整体运动方式机械设计,更换产品节省时间。可移动操作盘,采用人机接口操作,显示各种运行状况。独特的薄膜放卷和剪切装置,专利设计的薄膜恒张力输送,可简单方便地调节薄膜的长度,具有独特的彩膜定位装置。在包装底部搭接,产品包装牢固可靠,先进的电力热隧道炉具有完美有效的热收缩效果。其名称功率为70KW,消耗加热温度200℃时实际消耗小于40KW。

Our shrink film packing machine has characteristics of simple operation, wide application range and good sealing performance. With the overall combination design, easy maintenance, and drive by servo motors, can save time for changing products. Removable operation panel operated by HMI, which can show the machine information. Special film reel device and cutter device, innovative film tension transferring and buffer unit, easy adjusting film length, special color film positioning device. The film is stick at the bottom of packaged product, so that the product packaging is firm and reliable. Advanced electric heating tunnel with both excellent and effective shrinking result. Its power is 70KW, and the actual consumption is less than 40KW when the heating temperature is 200℃.



■ SPC-T20回转式热熔胶环标贴标机

SPC-T20 Rotary hot melt labeling machine

它具有设计精度高，回转式设计，结构紧凑，造型美观，加工要求严，装配细致，机器高速运行稳定性好；采用局部涂胶方式，胶消耗量小，瓶子和商标运行成本低等优点。该贴标机额定速度为40000瓶/小时，商标切断精度可以达到偏差 $\pm 1\text{mm}$ 。精心设计的标站可以完成商标恒张力输送；商标自动纠偏；主机采用上置式凸轮设计，更换瓶型简单；机头采用气动式卡紧方式，主机调高方便。自动化控制采用PLC总体控制，将伺服系统、变频系统、恒温系统及其他需要控制的点综合控制起来。过载保护、安全保护设计齐全，多点保护装置和故障声光报警确保人机安全。集中润滑系统使得机器的运转部件润滑更加简单，运行更加正常，机器寿命更有保证。机器的保养维修简单方便。

The SPC-T20 rotary hot melt labeling machine has the advantages of high design precision, rotary design, compact structure, beautiful appearance, strict processing requirements, fine assembly and good high-speed running stability of the machine;

The machine is use local gluing methods in less glue consumption. Bottles and trademarks are consumption at low cost. The labeling machine has a rated speed of 40,000 bottles per hour and the trademark cutting accuracy can reach a deviation of $\pm 1\text{mm}$.

The elaborative designed label station can convey labels in constant force, the labels can be corrected an error automatically.

The main machine adopts the upper cam design, and the replacement bottle type is simple; the machine head adopts a pneumatic clamping method, and it is convenience to adjustment the host height.

Automation control is adopted PLC control, with combination control of servo system, inverter system, temperature control systems and other necessary control point.

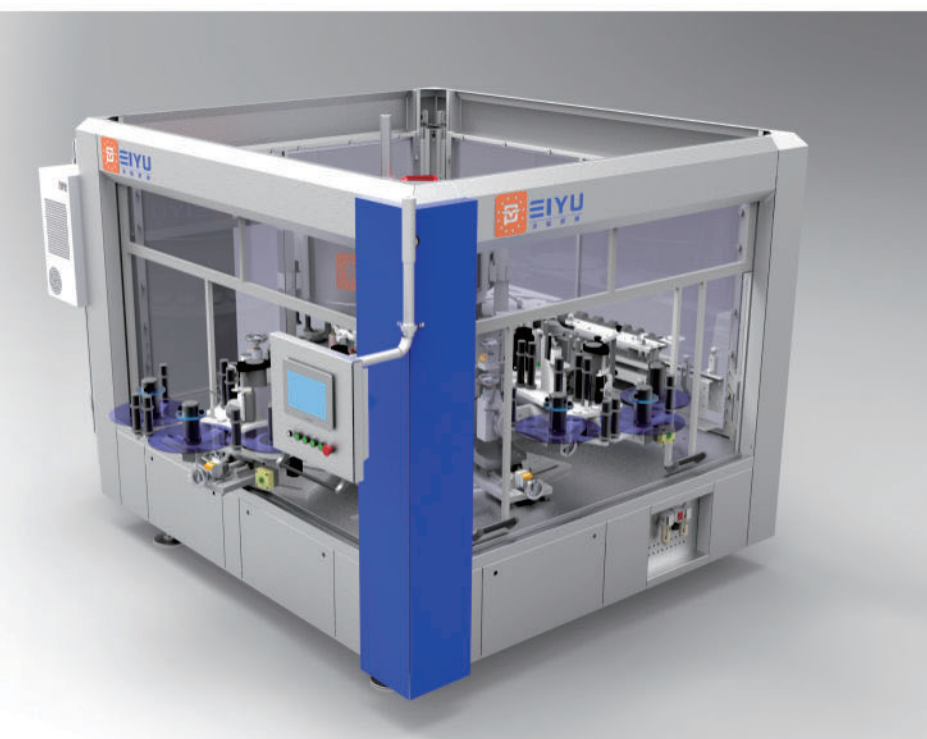
The machine has overload protection and safety protection fully designed, also has multi-point protection devices and fault sound and light alarms. This device can ensure human-machine safety. The centralized lubrication system makes the running parts of the machine easier to lubricate, the operation is more normal, and the machine life get more guaranteed. The machine's maintenance and repair is simple and convenient.



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■ SPC-BD20不干胶贴标机

SPC-BD20 Sticker labeling machine



此机型适用于玻璃瓶、PET、塑料瓶、罐头等圆、方瓶型。采用人性化设计，调节灵活方便、操作简单，低速扭矩大，贴标环境清洁卫生，性能稳定，最高产能达600瓶/分钟。

主电机采用变频器调速可实现无级调速。可编程控制器控制，使该机具备了依据输瓶线瓶子堆积状态贴标机自动调速功能，出瓶堆积保护功能等。不干胶标签（1至3张，标签尺寸：高度小于120mm，长度不大于220mm）；具体产能因物料变化而不同。布局合理、传动稳定的回转式主体结构，三标站、二星轮及单螺杆分瓶机构，并附加自动止瓶器。托瓶盘采用先进灵活的伺服电机传动方式，可以根据物料特点，随时变换托瓶器的转动位置和角度，灵活满足客户将来不同的物料贴标要求。星轮、导板、螺杆等转换件采用简便快捷的拆装结构。瓶型更换方便快捷(仅需更换变更件即可)，降低劳动强度。伺服机构可精确稳定地控制瓶型的旋转角度及位置（方便未来更换瓶型）。托瓶转盘节圆直径： $\Phi 960\text{mm}$ ；压瓶头数：20；星轮工位：10；贴标机采用自动化变频控制技术，无极限性变速调节，满足各种时速下贴标平稳准确，并与整条生产线控制系统相匹配。

The SPC-BD20 sticker labeling machine is suitable for glass bottles, PET, plastic bottles, cans and other round and square bottles. The machine adopts humanized design, flexible and convenience to adjust, and easy to operate, the low-speed torque is large, the labeling environment is clean and hygienic, the performance is stable, and the maximum capacity is up to 600 bottles/min.

The main motor adopts frequency converter speed regulation which can achieve stepless speed regulation. Controlled by the PLC, the machine has automatic speed regulating function according to the bottle stacking status of the bottle conveying line. It has bottle accumulate protection function. Labeling the sticker number from 1 to 3 sheets, label size height less than 120mm, length not greater than 220mm. The mechanical structure of the equipment is reasonable, the transmission of the rotary main structure is stable, and three labeling stations, two star wheels and one screw bottle-dividing mechanism, there are also attached with automatic bottle stopper. The bottle holder adopts advanced and flexible servo motor transmission mode, which can change the rotation position and angle of the bottle holder at any time according to the material characteristics, and it can flexibly meet the different material labeling requirements of customers in the future. The conversion parts such as the star wheel, the guide plate and the screw adopt a simple and quick disassembly structure. Bottle type is convenient and quick to replace (just need to change the changed parts), that can reduce labor intensity. The servo mechanism can accurately and stably control the rotation angle and position of the bottle type (easy to replace bottle type in the future). The diameter of the bottle turntable circle: $\Phi 960\text{mm}$; the number of pressure bottle heads: 20 pcs; the star wheel station: 10 sets; the labeling machine adopts automatic frequency conversion control technology, without limit shifting adjustment, that can meet the smooth and accurate labeling at various speeds, and the technology can match the control system of entire production line.

■ **对夹式冲洗机**
 Clip-on type washing machine

对夹式自动冲洗机主要是针对空瓶（玻璃瓶、塑料瓶等）内部进行冲洗的设备，在生产过程中，利用绞笼装置自动实现产品翻转后，产品进入夹瓶链，在夹瓶链带动下经过冲洗喷嘴，可以对空瓶内部进行热水（或冷水）冲洗。冲罐所用热水可经过回收系统过滤，在后端生产线中进行实罐冲洗或另作他用。

- 1.采用一体式金属扇形喷嘴，能产生高冲击的扇形喷雾，分布均匀，冲洗效果好；
- 2.采用进口夹瓶链板，具有耐高温、抗疲劳、耐磨损、防变形等良好性能；
- 3.可根据瓶型产品需要，调整相应尺寸，可适应多种瓶型；
- 4.门框等密封性较好，冲洗所用水不会四处乱溅，可得到回收再利用；
- 5.回收水系统配备有液位检测、溢流口等，出口接有水泵，配置方便；



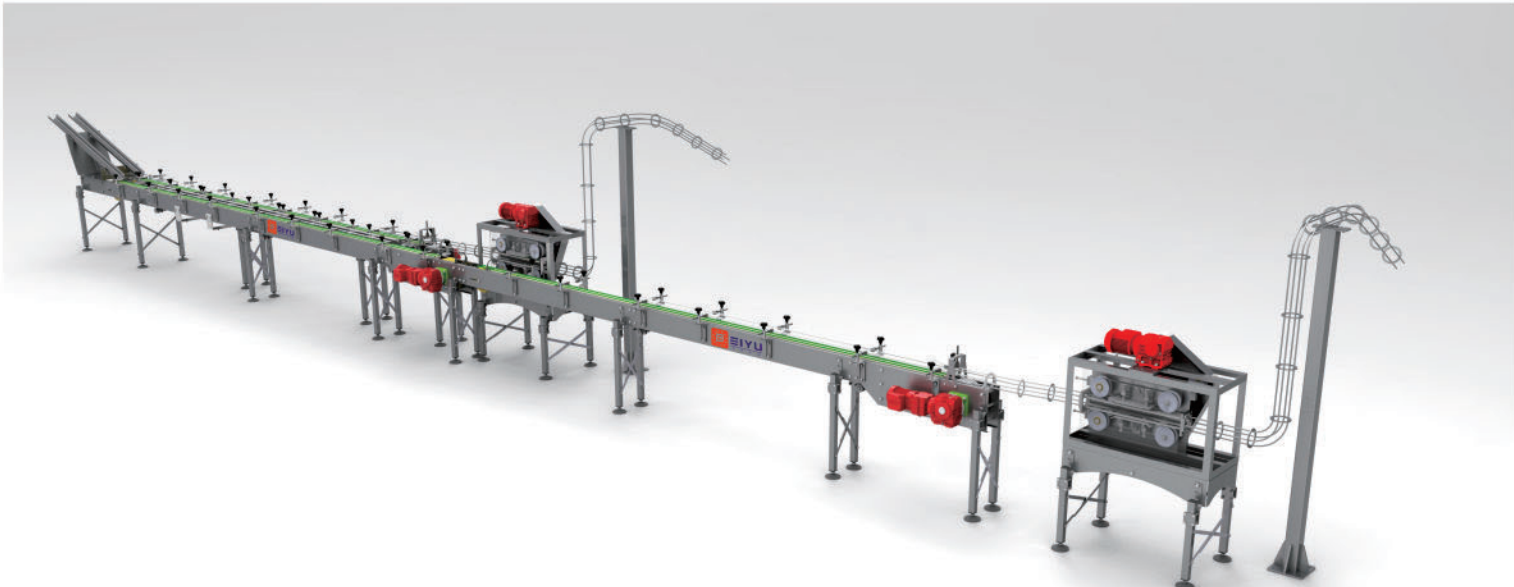
The clip-on type washing machine is mainly for clean the inside of empty bottles (glass bottles, plastic bottles, etc.). In the conveyor, product is automatically turned over by the twisting cage, the product enters the clamp bottle chain, and under the clamp bottle chain wash nozzle, the inside of the empty bottle can be washed with hot water (or cold water). The hot water can be filtered through a recovery system, and then can be used for wash full bottles in the after line or used for other things.

- 1. Using integrated metal fan nozzle, it can make high-impact fan-shaped spray with even distribution and good flushing effect;
- 2. It uses imported clamp bottle chain plate, which has good performances such as high temperature resistance, anti-fatigue, anti-wear and anti-deformation;
- 3. Adapting to a variety of bottle types;
- 4. The sealing of the door frame is good, the washing water will not splash around, and water can be recycled and reused;
- 5. The recovery water system is equipped with liquid level detection, overflow port, etc., and the pump is connected at the outlet, which is convenient to configure;

对夹式冲洗机		技术参数：Technical parameters	
输送线高度	The conveyor height	1100 ± 50mm	1100 ± 50mm
适用瓶型	Applicable bottles type	瓶径50-150mm（可变更）	Bottle diameter 50-10mm(customizable)
		瓶高80-150mm（可变更）	Bottle height 80-150mm(customizable)
设备功率	Power	约3KW	About 3KW
设备尺寸	Equipment size	4540 × 800 × 1450mm (含两端绞笼长度)	4540 × 800 × 1450mm (Including both ends of the length of the stranding cage)
设备重量	Equipment weight	约800KG	About 800KG

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■ **送盖机**
 Lid (cap) feeder



目前，在日化、食品、医药等行业中，送盖机的使用非常广泛，封盖机都是批量化生产加工的，若使用人工安装易拉罐铝盖，不仅生产效率低，增加加工成本，而且存在安全隐患，稍有操作不当，便会带来人身伤害。

- 1.适用于易拉罐产品。
- 2.传动方式采用附着在滑道上的圆带，调整方便，简易。
- 3.机身板等框架使用不锈钢焊接而成，整机简洁、美观。
- 4.移动送盖部分采用上下同步带结构，为铝盖进入封盖机提供足够的动力。
- 5.送盖输送段多数构件采用折弯成形，具有刚性好，重量轻，互换性好的优点。
- 6.铝盖两端装有可调节的护栏，可适用于多种盖型，提高了送盖时的稳定性。

At present, in the industries of daily-use chemicals, food, medicine, etc., the application of lid feeder is very extensive, and the capping machine is mass-produced, if installing cap for cans by manual, not only the production efficiency is low, the processing cost will be increased, also there are food hygiene safety risk, and if the worker operate carelessness, it will cause personal injury.

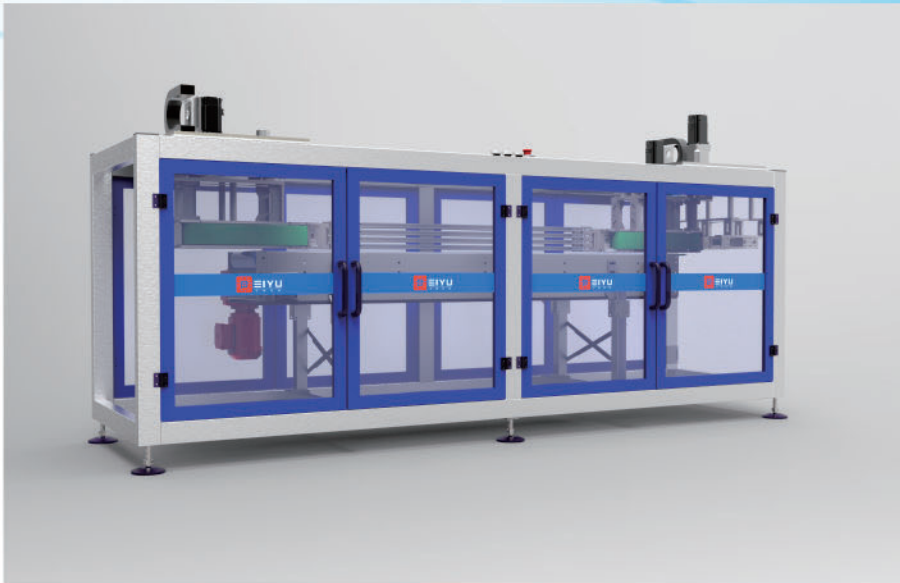
- 1. This machine applicate for tin can products.
- 2. The transmission mode adopts the round belt attached to the slide rail, which is convenient and simple to adjust.
- 3. The frame such as the machine body is welded by stainless steel, and the whole machine is simple and beautiful.
- 4. The upper and lower synchronous belt structure is adopted for the lid conveying mechanism, this structure can provide necessary power for the aluminum cap enter the capping machine.
- 5. Most of the components are formed by sheet metal bending process, which has the advantages of good rigidity, light weight and good interchangeability.
- 6. The aluminum cover is equipped with adjustable guardrails at both side, which can applicate for variety of cap types, it can improves the stability when the cap is delivered.

▪ 分道器

Bottle dispenser

分道器可适合易拉罐、玻璃瓶、PET瓶、屋顶包、利乐砖、利乐钻等各种产品的分道。可单进多出分道，也可多进多出分道。采用伺服驱动，同步带传动，定位精准，反应快速。机器两侧分别设有急停操作按钮，安全可靠，便于人工操作。

The dispenser device is suitable for tin cans , glass bottles, PET bottles, and Tetra Pak etc.. The separating device can make one road enters and multiple channels output or multiple lines in and multiple lines out. The separating device use servo drive and synchronous belt drive, precise positioning and quick reaction. There are emergency stop operation buttons on both sides of the machine, which are safe, reliable and easy to operation.



▪ 倒瓶杀菌机

Inverted bottle sterilization machine



倒瓶杀菌机是热灌装饮料在完成灌装后的输送过程中，被反转96度—110度。利用高温灌装后饮料自身的温度（约85℃），对瓶盖进行最终高温杀菌的设备。杀菌时间30—40秒，是果汁饮料和茶饮料热灌装生产线理想的杀菌设备之一。

The inverted bottle sterilizer machine uses on hot-filled beverage production line. After filling machine, it reverses bottles an angle from 96 angle to 110 angle during the bottles transport.

The inner side of the bottle cap is sterilized by using the temperature(about 85℃) of the beverage after high temperature filling. The sterilization time is 30—40 seconds, this kind of machine is one of the best of sterilization equipment for juice beverage and tea beverage on hot filling production line.

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▪ 吹干机

Blowing machine

产品经过灌装、蒸汽热收缩炉、洗罐时外表面会存留水滴，会对喷码、装箱等产生影响，所以需要瓶身积水进行清除处理。当产品通过吹干机时，高速风流迅速将产品外敷的小水珠由上到下吹除，使产品在短时间内达到使用要求。

- 1.适用于易拉罐、PE瓶、玻璃瓶等多种产品
- 2.风机采用高速离心风机，在低能耗的前提下，提供超大风量
- 3.采用蜘蛛手风刀，适应不同瓶型，调整方便快捷，最近距离靠近产品，保证风切效果
- 4.框架使用不锈钢焊接而成，外敷不锈钢乱纹板，整机简洁、美观

After filled, steam shrinking tunnel and washing, there is water droplets remain on the outer surface of the product, which will affect the quality of jet coding, packing, so it is necessary to remove the water from the bottle body. When the products pass through the blowing machine, the high-speed airflow will blow off the small water droplets on the product from top to bottom quickly, so that the product surface quality will meet the requirements in a short time.

1. It is suitable for a variety of products such as cans, PE bottles, glass bottles, etc.
2. The fan uses high-speed centrifugal fan, which can provide super large air volume under the premise of low energy consumption.
3. Using spider claws air knife to adapt to different bottle form, it is convenient and fast to adjust, and can be close to the product at the closest distance to ensure wind knife effect.
4. The frame is welded with stainless steel, outer surface uses the stainless steel plate. The whole machine is simple and beautiful.



吹干机		技术参数：Technical parameters	
输送线高度	conveyor height	900~1400mm	900~1400mm
功率	Power	7.5kW（一般条件下）	7.5kW（General configuration）
设备尺寸	Dimensions	2400*950*1550mm	2400*950*1550mm
重量	Weight	约450KG	About 450KG

■ ZM3B-1700QB型三层共挤薄膜高效吹膜机专业生产热收缩PE膜料

ZM3B-1700QB Type Efficient Three-Layer Co-extrude Film Blowing Machine
Professional manufacturing thermal shrinking PE film



公司选用目前国内最好的三层共挤薄膜高效吹膜机，生产的热收缩PE膜料品质稳定，一致性好，膜料的厚度均匀稳定、透明度好，广泛用于水、饮料、乳制品、易拉罐、果汁等集成收缩包装；公司针对客户对于彩膜的要求，生产的PE膜料可直接进行印刷，满足客户各方便需求。

The Company selects and uses the best efficient three-layer co-extrude film blowing machine, the produced thermal shrinking PE film has stable quality and good consistency with even and stable thickness good transparency, which is widely used in integrated shrinking packages of water, beverage, dairy products, aluminum cans and juice, etc.

On account of customers demands of color film, this machine has been equipped with corona unit, its produce PE film can be printed to satisfy different requirements for customers.



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标签印刷机

- 1.品牌: FR150机组式凹版印刷机。印刷色数为10个色;
 - 2.技术参数: 印刷版面1020mm, 印刷速度200米/分钟;
 - 3.FR150机组式凹版印刷机是目前国内最优秀、印刷最稳定的印刷机, 套色准、运行稳定、生产效率高, 可满足客户高要求的印刷品质。
- 1.Brand: FR150 Unit Intaglio Printing Machine, the printing color will be 10 colors.
2.Technical Parameters: Printing surface: 1020mm printing speed: 200m/min.
3.FR150 Uni Intaglio Printing Machine is currently the best and most stable printing machine with accurate register, stable operation and high production efficiency to satisfy high printing quality of different customers.



工艺流程: 吹膜 > 印刷 > 分切 > 合掌 > 检品 > 切片

Process Flow: Film Blowing > Printing > Splitting > Placing > Inspecting > Cutting into slices

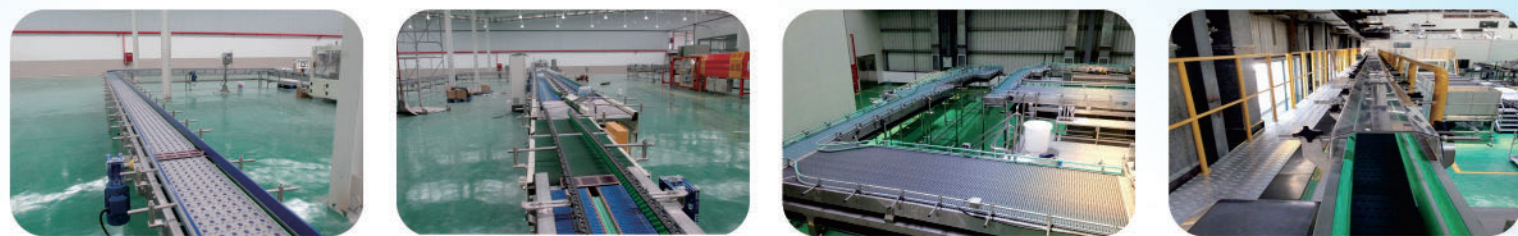
■ 输送/风送系统

Conveying/Air Conveyor System

设备概述 Equipment Overview

输送线是连接各生产设备的桥梁，直接影响到生产线运行效率的高低。该系统机械结构为全新设计，多数构件采用冲压或折弯成形，具有刚性好、重量轻、互换性好的优点。运转可靠，维修方便，电气控制系统采用PLC控制整个实瓶输送、缓冲系统的运行，自动实现运行速度加速度、自动缓冲的功能。

The conveyor line is the bridge over every production equipment, which directly affects the operating efficiency of production lines. the mechanical structure of this system is of new design, the majority of components are formed through pressing or bending, which is with advantages of good rigidity, light weight and good interchangeability. With reliable operation and convenient repair, electrical control system adopts PLC to control the conveying of actual bottle and the operation of buffer systems, which realizes the functions of automatic acceleration or deceleration, and automatic buffer.



风送装置是使PET空瓶在一定压力与速度的空气的驱动作用下，沿着预定的轨道，有规则的输送至目的地的一种快捷、准确的输送设备。

air conveyor system is a fast and accurate conveying equipment which makes the empty PET bottles to the destination in the pre-selected orbit a certain pressure and speed of air.



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■ 合作伙伴 Partners



排版需要不分先后顺序
This list is no particular of importance