



TIANSHUI HUAYUAN

MACHINERY TECHNOLOGY CO., LTD.

全自动栓剂生产设备

微波干燥设备

液体灌装设备

中药丸剂设备专业制造商

Professional Manufacturer Of:

Fully automatic suppository production equipment, microwave drying equipment, liquid filling equipment, TCM pills making equipment



天水华圆尚御科技有限公司

Tianshui Huayuan Machinery Technology Co., Ltd.



华圆药机，品质卓越！
Huayuan Pharmaceutical Machinery, Superb Quality!

天水华圆尚御科技有限公司

Tianshui Huayuan Machinery Technology Co., Ltd.

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01 COMPANY PROFILE

企业简介

高新技术企业
被认定为国家级

178项
获国家专利授权

75%以上
科技成果转化率

65%以上
市场占有率

30个国家
全球出口

省级技术中心
设立

天水华圆尚御科技有限公司

公司成立于2001年5月，是中国制药装备行业协会副会长单位、中国制药装备行业标准化技术委员会委员单位、中国干燥协会会员单位、甘肃省节能环保干燥装备产业技术创新联盟发起单位。公司长期致力于新产品研发，走自主创新的发展道路，2011年被认定为国家级“高新技术企业”。公司“中药制造现代化--固体制剂产业化关键技术研究与应用”项目荣获2019年国家科学技术进步二等奖。

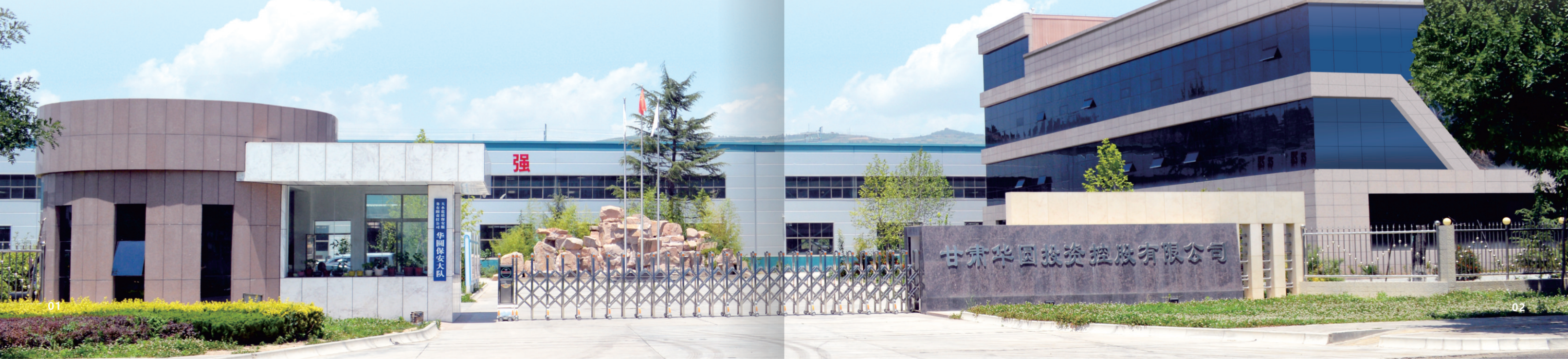
公司主要从事中药制丸、干燥、工业微波、自动化包装生产线、医用灭菌柜等五大系列设备的研发、生产和销售，现已开发出300多个不同型号的产品，总体技术水平处于国内领先，部分产品填补了国内空白。中药制丸机、微波干燥灭菌系列产品的国内市场占有率超过60%。产品广泛装备于北京同仁堂、广药集团、上药集团、修正药业、华润集团、太极集团、九芝堂、河南宛西、兰州佛慈、徐福记、雅士利、倪氏玫瑰、金川公司、中石化、北京化工大学等1000余家客户，并出口美国、加拿大、英国、法国、荷兰、捷克、俄罗斯、日本、韩国、印度、印尼、新加坡、马来西亚、香港、台湾等国家和地区，“华圆”已成为享誉海内外的中国药机名牌。

公司研发并拥有自主知识产权的国家专利授权178项，其中发明专利20项，国际专利1项。拥有两件省级著名商标，设有省级企业技术中心--甘肃省中药制药微波应用工程技术研究中心。公司科技成果转化率75%以上，在中药制药装备领域独树一帜。

公司遵循“高效节能、安全环保”的产品理念，致力于高新装备技术发展，引领中药制药设备潮流，引导食品制造工业升级，围绕中国制造2025，将华圆打造成为全球知名的智能装备领军企业。

Founded in May 2001, the company is the vice chairman of China Pharmaceutical Equipment Industry Association, the member of China Pharmaceutical Equipment Industry Standardization Technical Committee, the member of China Drying Association, and the initiator of Gansu energy conservation and environmental protection drying equipment industry technology alliance. The company has long been committed to the development of new products and independent innovation, and was recognized as a national "High-Tech enterprise" in 2011. The company's "modernization of traditional Chinese medicine manufacturing - research and application of key technologies for industrialization of solid preparations" project won the second prize of National Science and Technology Progress Award in 2019.

The company is mainly engaged in the research, development, production and sales of five series of equipment, which including traditional Chinese medicine pill making machine, drying equipment, industrial microwave machine, automatic packaging production line, medical sterilization cabinet and has developed more than 300 different models of products. The overall technical level is in the leading position in China. The domestic market share of Chinese medicine pill making machine and microwave drying sterilization series products is more than 60%. The products are widely equipped in Beijing Tongrentang, Guangzhou Pharma Group, Shanghai Pharma Group, Xiuzheng Pharma, China Resources Group, Taiji Group, Jiuzhitang Pharma, Henan Wanxi Pharma, Lanzhou Foci Pharma, Hsu Fu Chi International Group, Yashily Group, Ni's Int, Jinchuan Group Co, Sinopec, Beijing University of chemical technology and other more than 1000 customers. These equipments are exported to the United States, Canada, Britain, France, Netherlands, Czech Republic, Russia, Japan, South Korea, India, Indonesia, Singapore, Malaysia, Hong Kong, Taiwan and other countries and regions, "Huayuan" has become a famous brand of Chinese pharmaceutical machinery at home and abroad. Following the product concept of "high efficiency, environmental protection and safety", the company is committed to high-tech development, leading the trend of traditional Chinese medicine pharmaceutical equipment, guiding the upgrading of food manufacturing industry, and building our company as a world-famous leading intelligent equipment enterprise according to the Plan of Made in China 2025.





我们不断投入和改善，努力为员工提供安全、健康和愉悦的工作环境。我们始终鼓励员工在工作中学习，在学习中成长。成为对客户负责、对社会有用的人才。壮大企业、贡献社会是华圆人的共同追求。不断为用户创造财富，为社会奉献价值，把华圆建设成为引领行业发展潮流的优秀企业。

We continue to invest in and improve, and strive to provide employees with a safe, healthy and pleasant working environment. We always encourage employees to learn at work and grow in learning. Be responsible to customers and useful to society. The common pursuit of Huayuan people is to strengthen enterprises and contribute to society. We will continue to create wealth for customers, contribute value to the society, and build Huayuan into an excellent enterprise that leads the development trend of the industry.



02 COMPANY ENVIRONMENT 公司环境



办公楼 The office building



03 ENTERPRISE DEVELOPMENT HISTORY

企业发展历程

2003年

被甘肃省科技厅认定为“高新技术企业”
In 2003, the company was approved as a "High-Tech enterprise" by Department of Science and Technology of Gansu Province

2004年

《中药制丸、灭菌、包装成套设备》项目获得国家重点新产品计划立项
In 2004, the project of "Traditional Chinese Medicine Pill Making, Sterilizing, Packaging Complete Equipment" was approved by the National Key New Products Project

2005年

《智能中药制药生产线技术改造专项项目》获得甘肃省发改委立项
In 2005, the project of "Intelligent Pharmaceutical Production Line Technical Transformation" was approved by Gansu Development and Reform Commission

2006年

微波提取、微波干燥项目被列入2006年国家重点火炬计划
In 2006, the project of "Microwave extraction and microwave drying" were listed in the 2006 National Key Torch Plan

2007年

我公司与武汉工程大学联合成立“微波应用工程技术研究中心”
In 2007, our company and Wuhan University of Engineering jointly set up "Microwave Applied Engineering Technology Research Center"

2008年

我公司技术中心被甘肃省政府认定为“省级企业技术中心”
我公司被评为“守合同重信用”企业
《箱式微波真空干燥机》项目获甘肃省科学技术进行三等奖
In 2008, the technology center of our company was recognized by Gansu Provincial Government as "Provincial Enterprise Technology Center"
Our company was named "abide by contract and credit" enterprise
"Box Type Microwave Vacuum Dryer" won the third prize of Gansu province science and technology

2009年

“甘肃省中药制药微波应用工程研究中心”落户我公司
In 2009, "Gansu Province Chinese Medicine Microwave Applied Engineering Research Center" settled in our company

2010年

我公司“华圆”品牌被评为“甘肃省著名商标”
In 2010, "HUAYUAN" brand was named as "Gansu Province Famous Trademark"

2011年

董事长李晟获得“甘肃省十大发明家”称号
被认定为国家级“高新技术企业”
In 2011, Li Sheng, Chairman of board, won the title of "Top 10 Inventors in Gansu Province"
Our company was recognized as the state-level "The High-Tech enterprise"

2012年

我公司被评为“诚信守法企业”
In 2012, our company was named as "The honest and law-abiding enterprise"

2013年

我公司被评为“甘肃省私营企业100强”
In 2013, our company was named as "Top 100 Private Enterprises in Gansu Province"

2014年

我公司被评为“人才工作先进企业”
In 2014, our company was named as "Advanced Enterprise of Talent Work"

2015年

我公司被评为“甘肃省企业质量信用等级A级企业”
In 2015, our company was named as "Gansu Province enterprise quality credit grade A"

2016年

作为发起单位牵头成立“甘肃省节能环保干燥装备产业技术创新联盟”
In 2016, As the initiator, leading the establishment of "Gansu energy saving and environmental protection drying equipment technology innovation alliance"

2017年

我公司被评为“2017年度科技创新先进企业”
In 2017, our company was named as "Science and Technology Innovation Advanced Enterprise"

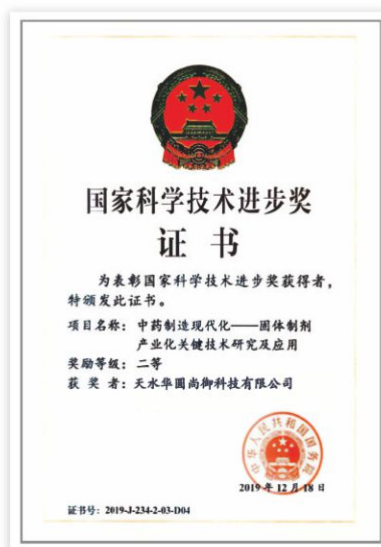
2018年

我公司被评为“甘肃省推动非公有制经济跨越发展先进集体”
In 2018, our company was named as "The leapfrogging advanced company of promoting the development of private economy in Gansu Province"

2019年

《中药制造现代化--固体制剂产业化关键技术研究与应》项目荣获国家科学技术进步二等奖
In 2019, The project of "Modernization of Chinese Medicine Manufacturing - Research and Application of Key Technologies of Solid Preparation Industrialization" won the second prize of National Science and Technology Progress

04 HONORARY CERTIFICATE 荣誉资质



客户信赖来自卓越品质,发展动力源于持续研发
Customers' trust comes from excellent quality,
Development power comes from continuous R&D

05 PARTNER 合作伙伴

华圆已与国内外众多知名企业达成战略合作伙伴关系。
 华圆今天的成就，离不开每一个华圆人的坚持与奋斗，
 更离不开广大战略合作伙伴多年的相伴与支持。
 华圆一直怀着一颗感恩的心，在今后的岁月里，与您合作共赢，共同成长。

Huayuan has reached strategic partnership with many well-known enterprises at home and abroad. Huayuan's achievements today are inseparable from the persistence and struggle of every Huayuan person, and also from the company and support of the vast number of strategic partners for many years. Huayuan has always been with a grateful heart. In the years to come, we will cooperate with you for win-win results and grow together.

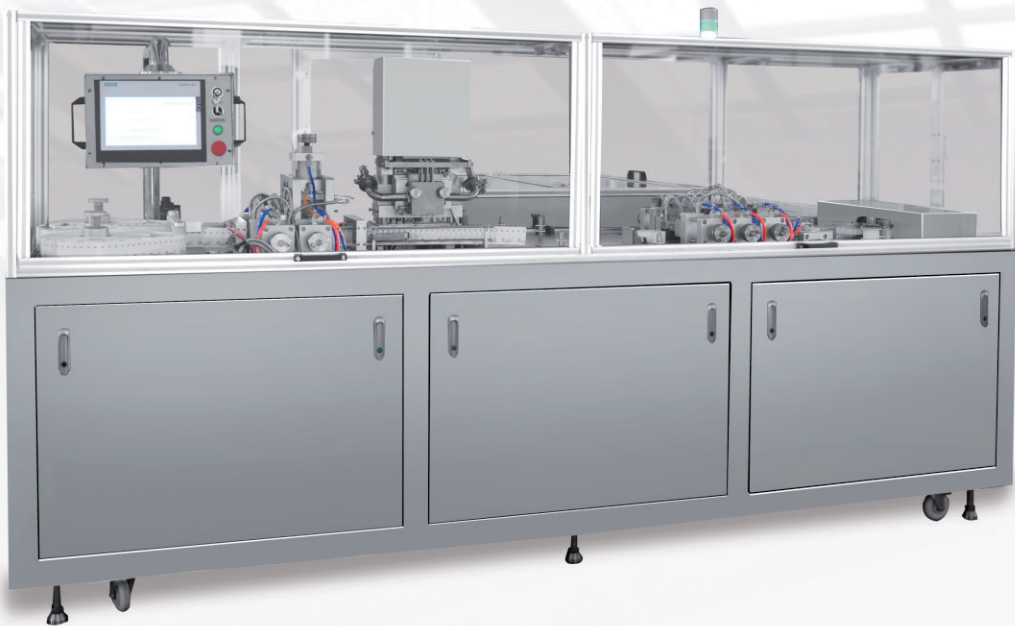


PRODUCT SUMMARY

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HY-ZK全自动栓剂制壳机 Automatic Suppository Cativies Forming Machine



主要技术参数 MAIN TECHNICAL PARAMETERS

产量 Capacity	8000-10000粒/时 8000-10000 pcs/h	单粒药量 Single dose	0.5- 5ml (0.5- 5g)
药量允许范围 Filling accuracy	< ±2%	储液桶容量 Filling feeder	20Liter
适用对象 Application base material	合成脂肪甘油酸甘油酯、甘油明胶、聚乙二醇等 Bullet- head、torpedo、duck-mouth and other special shapes depending on user requirement	品种 Shape of suppository	子弹头型、鱼雷型、鸭嘴形及其它各种形状 Bullet-head、torpedo、duck-mouth and other special shapes depending on user requirement
气压 Air pressure	0.6Mpa	耗气量 Air consumption	0.3- 0.6m³/min
用水量 Cooling water requirement	20kg (循环使用) 20kg (cycle using)	电压 Voltage of the power	三相交流380V Three phase AC 380V
总功率 Total power	3KW	外形尺寸 External dimension	长 (L) 3200mm× 宽 (W) 1850mm×高 (H) 1800mm
总重 Total weight	500kg	包装膜 Packaging material requiremen	PVC\PE 复合膜 PVC/PE or PVC/PVDC/PE composite film
光标定位 Eye-Mark Positioning	Yes		

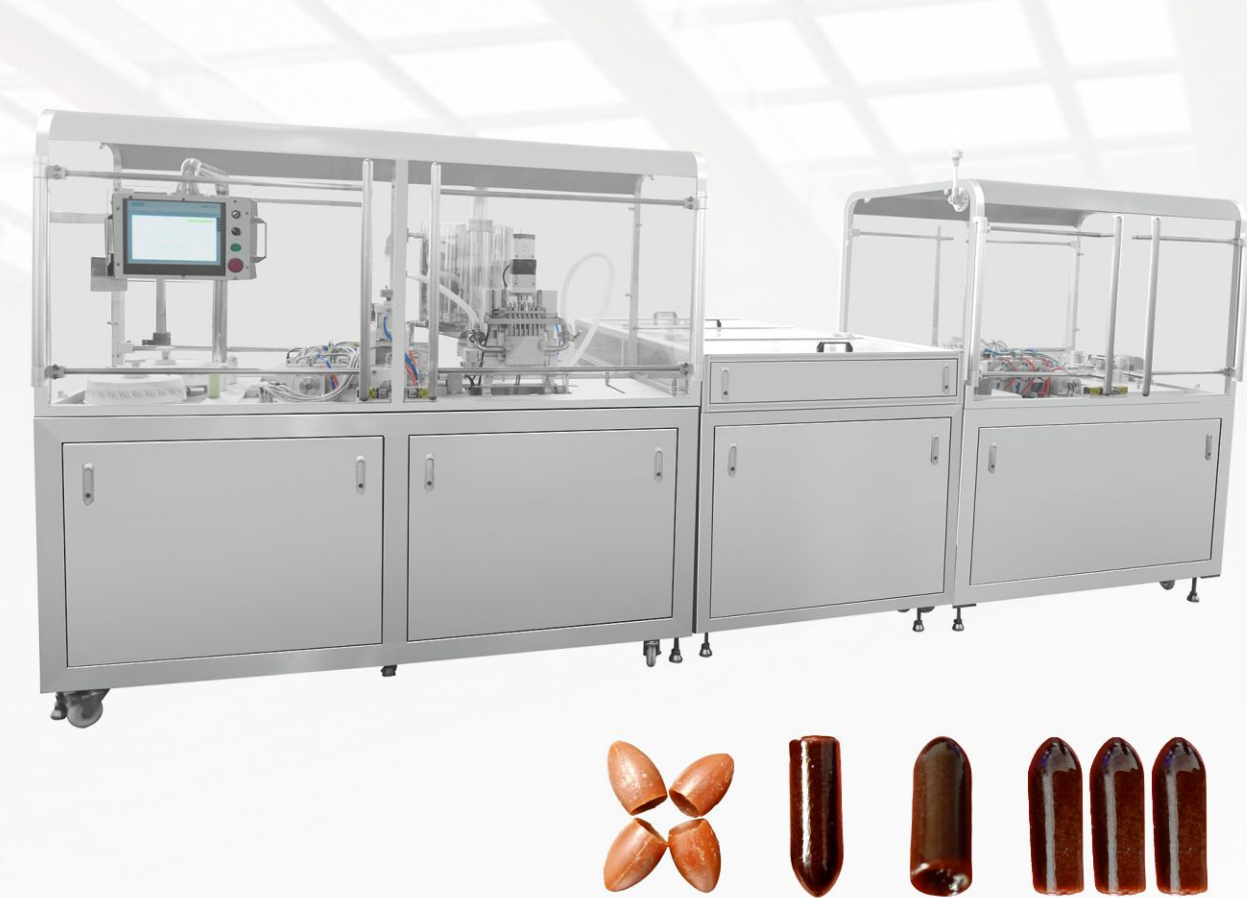
HY-Z实验室全自动栓剂生产线
R&D automatic suppository production line



主要技术参数 MAIN TECHNICAL PARAMETERS

类型 Types	实验型一 / 实验型二 HY-Z-1/HY-Z-2	“型一”产量 HY-Z-1Capacity	1200-1800粒/时 1200-1800 pcs/h
“型二”产量 HY-Z-2 Capacity	3000-3600粒/时 3000-3600 pcs/h	适用场所 Application	医院，制剂室，学校，医科院校实验室 Hospital, chemical company, pharmaceutical company, comestic laboratory, school laboratory, medical university laboratory
单位药量 Single dosage	0.5—5ml (0.5-5g)	药量允许范围 Filling accuracy	< ±2%
品种 Shape of suppository	子弹头型、鱼雷型、鸭嘴形及其它各种形状 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement	适用对象 Suppository application form	合成脂肪甘油酸甘油酯、甘油明胶、聚乙二醇等 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement
储液桶容量 Filling feeder	20Liter	气压 Air pressure	0.6Mpa
耗气量 Air consumption	0.6m³/min	用水量 Cooling water requirement	15kg (循环使用) 15kg (cycle using)
电压 Voltage of the power	三相交流380V Three phase AC 380V	总功率 Total power	2.5KW
“型一”外形尺寸 HY-Z-1 Dimensions	长 (L) 3200mm×宽 (W) 1530mm×高 (H) 1600mm	“型二”外形尺寸 HY-Z-2 Dimensions	长(L) 3280mm×宽(W) 1530mm×高 (H) 1600mm
总重 Total weight	500kg	包装膜 Packaging material requirement	PVC\PE 复合膜 PVC/PE or PVC/PVDC/PE composite film
剪切方式 Hearing method	分段剪切 Nibbling Shear		

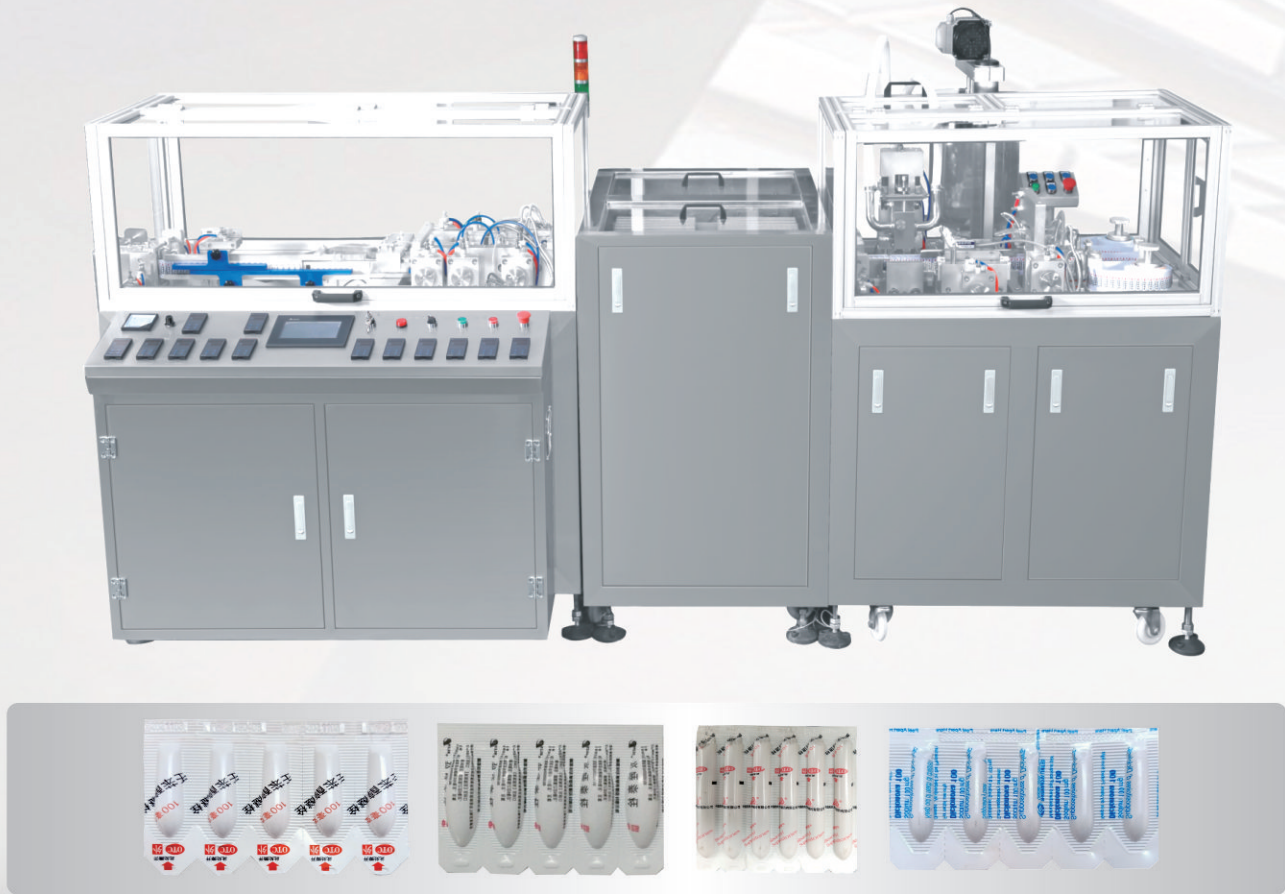
HY-ZL 全自动栓剂连续生产线
Automatic continuous suppository production line



主要技术参数 MAIN TECHNICAL PARAMETERS

产量 Capacity	10000-13000粒/时 10000-13000 pcs/h	单粒药量 Single dose	0.5—5ml (0.5-5g)
药量允许范围 Filling accuracy	< ±2%	品种 Shape of suppository	子弹头型、鱼雷型、鸭嘴形及其它各种形状 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement
适用对象 Suppository application form	合成脂肪甘油酸甘油酯、甘油明胶、聚乙二醇等 Synthesis of glycerin fatty acids, glycerin gelatin, polyethylene glycol etc.	储液桶容量 Filling feeder	50Liter
气压 Air pressure	0.6Mpa	耗气量 Air consumption	1.0 m3/min
用水量 Cooling water requirement	50kg (循环使用) 50kg (cycle using)	电压 Voltage of the power	三相交流380V Three phase AC 380V
总功率 Total power	12KW	外形尺寸 External dimension	长4500mm× 宽2100mm×高2000mm
总重 Total weight	1200kg	包装膜 Packaging material requirement	PVC\PE 复合膜 PVC/PE or PVC/PVDC/PE composite film
剪切方式 Hearing method	连续冷却，连续任意剪 Continuous cooling, continuous cutting		

HY-ZL-3 全自动栓剂生产线
 Automatic suppository production line




 主要技术参数 MAIN TECHNICAL PARAMETERS

产量 Capacity	4000-5000粒/小时 4000-5000pcs/h	单粒药量 Single dose	0.5—5ml (0.5-5g)
药量允许范围 Filling accuracy	<±2%	品种 Shape of suppository	子弹头型、鱼雷型、鸭嘴形及其它各种形状 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement
适用对象 Application base material	合成脂肪甘油酸甘油酯、甘油明胶、聚乙二醇等 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement	储液桶容量 Filling feeder	20Liter
气压 Air pressure	0.6Mpa	耗气量 Air consumption	0.6 m ³ /min
用水量 Cooling water requirement	50kg (循环使用) 50kg (cycle using)	电压 Voltage of the power	三相交流380V Three phase AC 380V
总功率 Total power	2.5KW	外形尺寸 External dimension	长(L)2500mm×宽(W)2500mm×高(H)1800mm
总重 Total weight	600kg	包装膜 Packaging material requirement	PVC/PE 复合膜 PVC/PE or PVC/PVDC/PE composite film

HY-U 全自动栓剂生产线
 Automatic suppository production line




 主要技术参数 MAIN TECHNICAL PARAMETERS

产量 Capacity	10000-12000粒/时 10000-12000 pcs/h	单粒药量 Single dose	0.5—5ml (0.5-5g)
药量允许范围 Filling accuracy	<±2%	品种 Shape of suppository	子弹头型、鱼雷型、鸭嘴形及其它各种形状 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement
适用对象 Suppository application form	合成脂肪酸甘油酯、甘油明胶、聚乙二醇等 Synthesis of glycerin fatty acids, glycerin gelatin, polyethylene glycol etc.	储液桶容量 Filling feeder	50Liter
气压 Air pressure	0.6Mpa	耗气量 Air consumption	1.5 m ³ /min
用水量 Cooling water requirement	50kg (循环使用) 50kg (cycle using)	电压 Voltage of the power	三相交流380V Three phase AC 380V
总功率 Total power	7.5KW	外形尺寸 External dimension	长(L)3480mm×宽(W)3200mm×高(H)1800mm
总重 Total weight	1000kg	包装膜 Packaging material requirement	PVC/PE 复合膜 PVC/PE or PVC/PVDC/PE composite film

HY-U-15 高速全自动栓剂生产线

High-speed fully automatic suppository production line

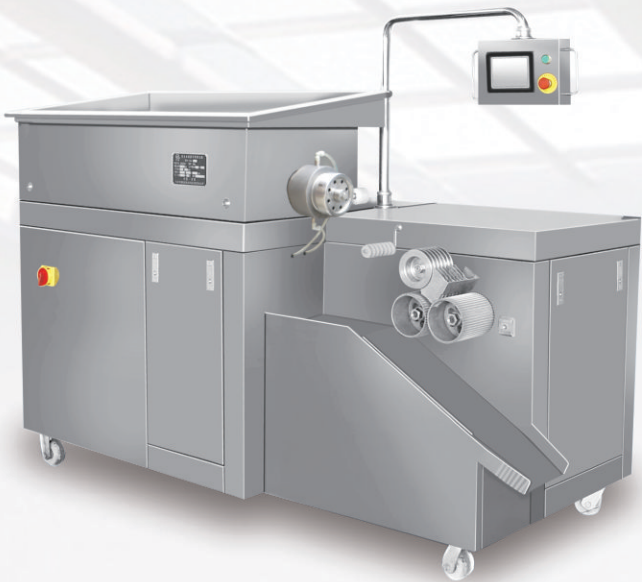


主要技术参数 MAIN TECHNICAL PARAMETERS

产量 Capacity	18000—23000粒/时 18000-23000 pcs/h	单粒药量 Single dose	0.5—5ml (0.5-5g)
药量允许范围 Filling accuracy	<±2%	品种 Shape of suppository	子弹头型、鱼雷型、鸭嘴形及其它各种形状 Bullet-head, torpedo, duck-mouth and other special shapes depending on user requirement
适用对象 Suppository application form	合成脂肪酸甘油酯、甘油明胶、聚乙二醇等 Synthesis of glycerin fatty acids, glycerin gelatin, polyethylene glycol etc.	储液桶容量 Filling feeder	50Liter
气压 Air pressure	0.6Mpa	耗气量 Air consumption	2.0m³/min
用水量 Cooling water requirement	50kg (循环使用) 50kg (cycle using)	电压 Voltage of the power	三相交流380V Three phase AC 380V
总功率 Total power	16KW	外形尺寸 External dimension	L(长)6200mm x W(宽)2200mm x H(高)1800mm
总重 Total weight	2200kg	包装膜 Packaging material requirement	PVC/PE复合膜、ALU./PE复合膜 PVC/PE composite film, ALU./PE composite film

YUJ系列全自动中药制丸机

YUJ Series Automatic TCM Pills Making Machine



主要用途 Main Application

本机为华圆公司开发的第五代产品, 本机集中炼药, 搓丸为一体的设备。专门为产量不高, 品种多的用户设计。

This machine is the fifth generation product developed by Huayuan Company. It is an integrated device for mixing medicine and making pills. Specially designed for users with low yield and many varieties.

工作原理 Working principle

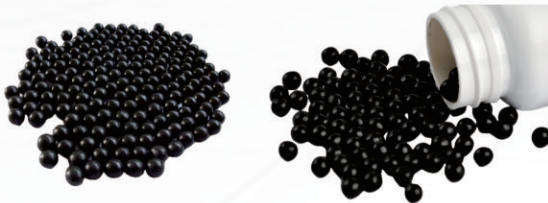
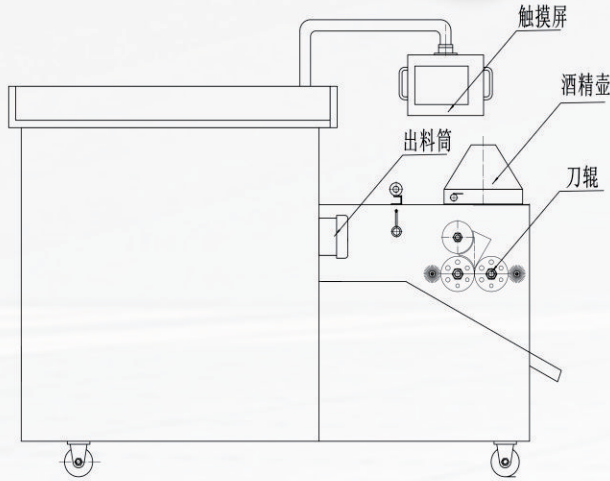
将混合或炼制好的物料送入料仓内, 在螺旋推进器的挤压下, 制出相同规格的药条, 在光电测速的跟踪下, 经过导轮, 顺条器同步进入制丸刀具中, 经过快速切磋, 制成大小均匀的药丸。

The mixed or refined materials are sent into the silo, under the extrusion of the propeller, the drug strips of the same specification are made, and under the tracking of photoelectric speed measurement, they are synchronously entered into the pellet-making tool through the regulating wheel and the strainer, and the pills of uniform size are made after rapid comparison.

结构特点 Structural characteristics

1. 本机采用PLC可编程序控制器, 编码器等高新技术, 自动化程度高, 采用人机界面, 操作简单。2. 本机具有上螺旋挤出结构, 一套做炼药, 一套做制丸, 既可一体两用, 也可单独操作, 对物料的适应性强, 可满足各种药丸的生产。

1. This machine adopts PLC programmable controller, encoder and other high-tech, high degree of automation, man-machine interface, simple operation. 2. This machine has upper spiral extrusion structure, one for refining medicine and one for pill making, which can be used as an integrated whole or operated separately. It has strong adaptability to materials and can meet the requirements of various pill production.

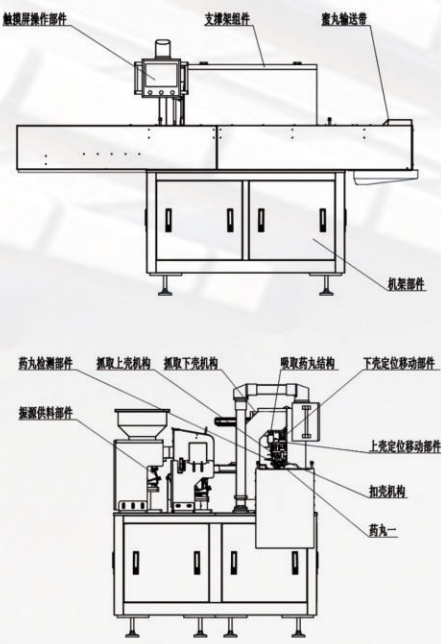
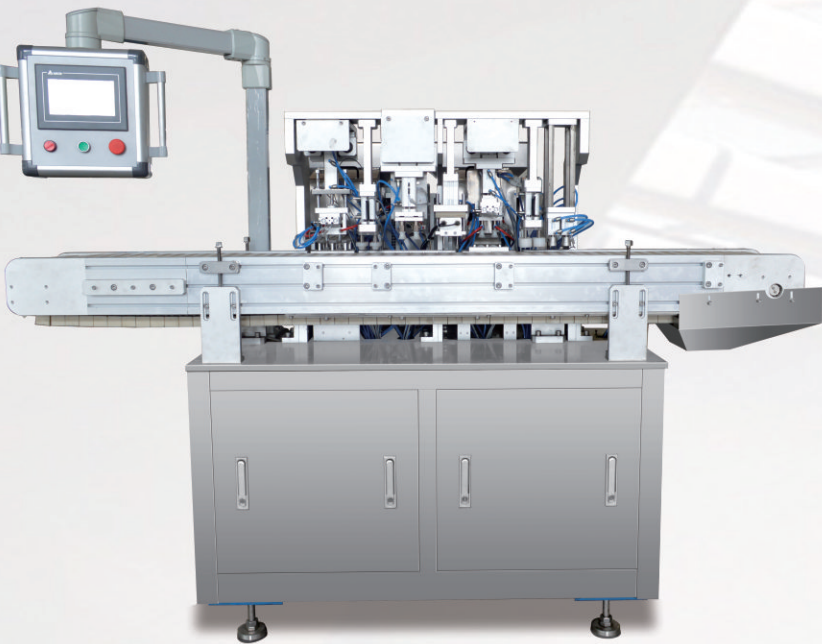


主要技术参数 MAIN TECHNICAL PARAMETERS

序号 Number	型号 Model	生产规格 The production specification	生产效率 The production efficiency	电机总功率 Total motor power	电源 The power supply	重量 The weight of the	外形尺寸 Overall dimensions	备注 note
1	YUJ-10A	φ3~φ12mm	2~5kg/h	1.85KW	220V 50Hz	100kg	850x720x530	无触摸屏 No touch screen
2	YUJ-16B	φ3~φ12mm	5-50kg/h	3.7kW	380V 50Hz	500kg	1250x750x1700	带触摸屏 With touch screen
3	YUJ-17BZ	φ3~φ12mm	30-150kg/h	9.35kW	380V 50Hz	750kg	1950×990×1540	带触摸屏 With touch screen
4	YUJ-18BZ	φ2~φ10mm	50-180kg/h	9.35kw	380V 50Hz	800kg	1970x965x1540	带触摸屏 With touch screen

直线扣壳机

Automatic Plastic Ball Closing Machine



工作原理 Working principles

1.上下壳通过电振供料输送到电振板上, 经过振动源及滚刷转动的清除, 使上下壳有序的分成若干排。2.下壳电振板与输送链板直接相连, 通过下壳输送机构将下壳送入主输送模板条孔内。3.在主输送模板条与布丸自动上料机构之间安装有真空机械手, 电缸驱动真空机械手在主输送模板条与布丸机构之间做往复运动, 机械手上安装有两排共24个真空吸盘, 将药丸放在有下壳的模具内。4.主输送模板条安装在两条输送链条上, 输送链条在伺服电机驱动下作步进移动。在模板条上、下方沿步进转动方向从右至左安装有: 下壳上料定位机构、取药丸装置、药丸检测装置、取上壳装置、扣壳装置、成品及半成品导出装置、成品及半成分流装置。

The upper and lower shells are conveyed to the electric vibration plate by the electric vibration feeding. After being cleared by the vibration source and the rotation of the roller brush, the upper and lower shells are orderly divided into several rows. 2. The lower shell electric vibration plate is directly connected to the conveyor chain plate, and the lower shell is sent into the main conveyor template strip hole through the lower shell conveying mechanism. 3. A vacuum manipulator is installed between the main conveying template bar and the automatic feeding mechanism for pill distribution. The electric cylinder drives the vacuum manipulator to perform reciprocating motion between the main conveying template bar and the pill distribution mechanism. Two rows of a total of 24 vacuum suction cups are installed on the manipulator to place the pills in the mold with a lower shell. 4. The main conveying template bar is installed on two conveying chains, which move step by step under the drive of servo motors. On the upper and lower parts of the template strip, from right to left along the step rotation direction, there are installed: the lower shell feeding positioning mechanism, the pill taking device, the pill detection device, the upper shell taking device, the shell clamping device, the finished and semi-finished product diversion device, and the finished and semi-finished product diversion device.

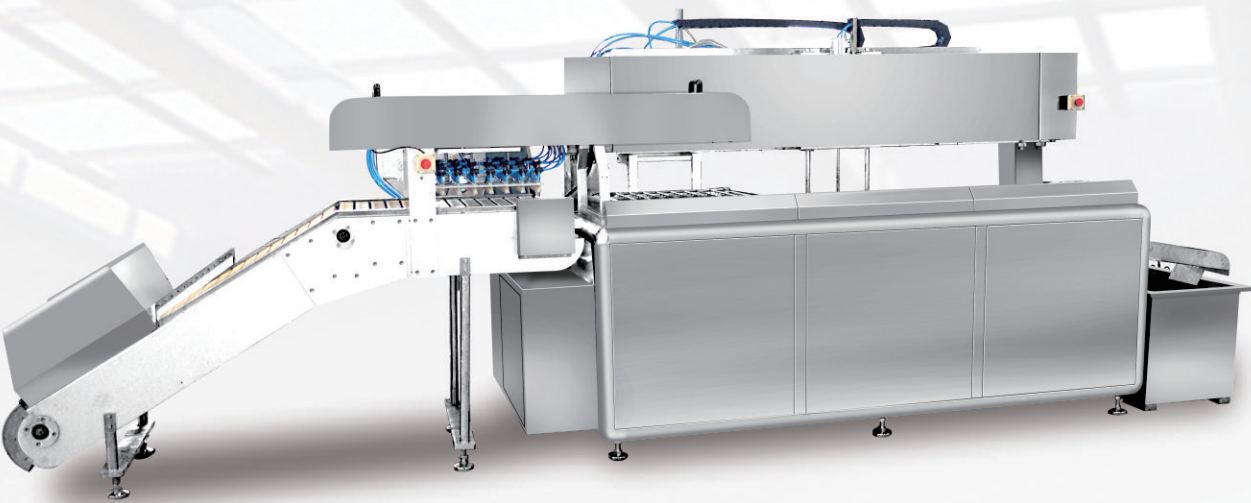
本机特点 Machine features

- 机身主体为304材料;
- 整机直线型设计, 采用“PLC+触摸屏”控制;
- 机身传动部分采用高精度电缸驱动, 输送链采用伺服电机驱动, 其它相关动作采用SMC高精度气缸动作, 震动上料机采用德国“芝利”震动源;
- 相关检测电器元件采用德国“西克”光电开关精密检测;
- 本机设计产量约3000-5000枚/小时;
- 本机最大特点是: 人性化设计, 智能化控制;

- The machine body is 304 material.
- The machine linear design, using “PLC touch screen” control.
- The transmission part is driven by high precision electric cylinder. The conveying chain is driven by servo motor, the other related actions are SMC high precision cylinder action, and the vibration feeder adopts the German “Eriez” vibration source.
- The related detection of electrical components using the German “Sick” photoelectric switch precision detection.
- The design output of this machine is about 3000-5000 units per hour.
- The characteristic of this machine is: humanized design, intelligent control.

双机械臂直线蘸蜡机

Double arms wax dipping machine



主要用途 Main Application

本机广泛适用于制药行业, 主要针对大蜜丸的蜡壳密封。
This machine is widely used in pharmaceutical industry, mainly for wax shell sealing of large pills.

本机特点 Machine features

- 1.本机有两组蘸蜡机构, 蘸蜡速度快。2.本机占地面积所需蜡液相对圆盘蘸蜡机少, 节约能源。3.本机采用PLC可编程序控制器, 编码器等高新技术, 自动化程度高, 采用人机界面, 操作简单。4.该机外型简洁、造型大方、易清洁, 易维修, 经久耐用, 操作方便, 整机均采用不锈钢, 符合GMP要求。
- (1) This machine has two groups of wax dipping mechanism, the speed of wax dipping is fast. (2) This machine covers an area, the wax liquid is less than the disc wax dipping machine, saving energy. (3) The machine adopts PLC programmable controller, encoder and other high-tech, high degree of automation, man-machine interface, simple operation. (4) The machine is simple in appearance, generous in shape, easy to clean, easy to maintain, durable and easy to operate, the whole machine adopts stainless steel, which meets the GMP requirements.

工作原理 Working principle

本机为全自动封蜡机械。首先将装好药丸的塑壳倒入输送机的接料部, 通过输送机内部的定位机构将错乱无序的塑壳输送落入定距的定位孔中, 再通过由丝杠控制的吸盘, 将扣好药丸的塑料壳子吸住并放到蘸蜡盘上, 电机驱动蘸蜡机构运动至蜡池上方, 气缸推动装有塑壳的蘸蜡盘向下进入蜡池蘸蜡, 蘸蜡完成后蘸蜡盘回到蜡池上方并继续向前运行至水池上方, 气缸再次推动蘸蜡盘向下运行并释放蜡壳, 使蜡壳进入水池冷却, 蜡壳随流动的水漂流到出水口并滚动到水池外, 从而完成送壳, 布壳, 吸壳, 蘸蜡, 冷却等过程。

This machine is automatic wax sealing mechanical equipment. First, the plastic shell loaded with the pill is poured into the connecting part of the conveyor, and the disordered plastic shell is transported into the fixed position hole through the positioning mechanism inside the conveyor. The plastic shell of the pill is sucked and placed on the wax dipping plate through the sucker controlled by the lead screw. The motor drives the wax dipping mechanism to move to the top of the wax pool. The cylinder pushes the wax dipping plate with the plastic shell down into the wax pool and continues to run forward to the top of the pool. The cylinder pushes the wax dipping plate down again and releases the wax shell into the pool to cool. The wax shell drifts into the outlet and rolls out of the pool with flowing water, In order to complete the shell feeding, cloth shell, suction shell, wax dipping, cooling and other processes.

FFS-118 口服液灌装机

Oral Liquid Filling Machine



 适用范围 Scope of application

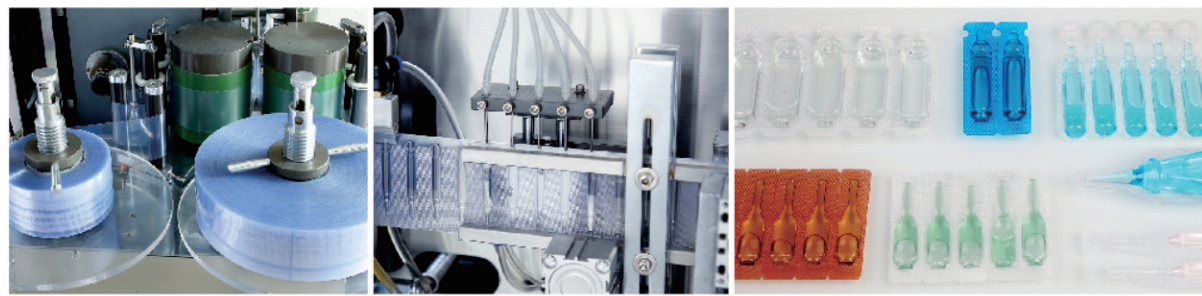
医药行业: 口服液、保健品、生理盐水、洗液、止咳糖浆、中药口服液等;
化工行业: 香水、汽车香水、人体乳、沐浴露、洗发水、精油、清洁剂、洗涤剂、洗手液、墨水等液体、膏体产品等;
农药行业: 叶面肥、植物生长调节剂、除草剂、乳油、杀鼠剂、等化工产品;
食品行业: 亚麻油、蓖麻油、橄榄油、酵素、蜂蜜、铁皮石斛等。

Pharmaceutical industry: oral liquid, health care products, physiological saline, lotion, cough syrup, Chinese medicine oral liquid, etc.
Chemical industry: perfume\$, car perfumes, human milk, shower gels, shampoos, essential oils, detergents, detergents, hand soaps, inks, etc., paste products, etc.
Pesticide industry: foliar fertilizer, plant growth regulator, herbicide, emulsifiable concentrate, rodenticide, and other chemical products;
Food industry: linseed oil, castor oil, olive oil, enzymes, honey, Dendrobium and so on.

 主要用途 Main purpose

- PLC控制，无级变频调整。
- 放卷、片材成型、灌装、封口打批号、切尾、冲裁，分切等7个工位由程序自动完成。
- 人机界面装置，操作简单明了。灌装系统不滴、不起泡沫、不溢出、不拉丝。
- 与药液接触的相关部位全部采用316优质不锈钢材料及进口硅胶管，机器外罩全部是SUS304不锈钢。符合GMP标准。
- 主要气动元件、电器采用进口配件，稳定性更好。
- 电子蠕动泵灌装系统计量精准误差小，适用多种粘稠度产品的灌装。

PLC control, stepless frequency conversion adjustment.
Unwinding, sheet forming, filling, sealing batch number, tail cutting, blanking, slitting and other 7 stations are automatically completed by the program.
Man-machine interface device, the operation is simple and clear.
The filling system does not leak, does not foam, does not overflow, does not draw wire.
The relevant parts of the contact with the liquid medicine are all made of 316 high-quality stainless steel material and imported silicone tube, and the machine cover is all SUS304 stainless steel. GMP compliant.
The main pneumatic components and electrical appliances adopt imported fittings with better stability.
The electronic peristaltic pump filling system has small measurement precision error and is suitable for filling various viscosity products.



 主要技术参数 MAIN TECHNICAL PARAMETERS

最大成型深度 Max. forming depth	24mm
灌装速度 Filling speed	100-130瓶/分钟 Bottle/minute
灌装头数 Number of filling heads	5个灌装头同时灌装 Filling head filling at the same time
包装材料 Packaging Materials	PET/PE PVC/PE(.2-0.5)x120mm
灌装容量 Filling capacity	0.5-100ml/支
灌装精度 Filling accuracy	±2%
电源总功率 Total power of power	6.0kw
电压 Voltage	220v三相/60Hz(380v三相/50Hz)
重量 Weight	850kg
外形尺寸 Dimensions	2300x850x1450mm(LxWxH)

BYJ系列荸荠式包衣机

BYJ Series Coating machine



主要用途 Main applications

本机广泛适用于制药行业，主要用于药品的包衣、打光，也可用于食品、化工等行业中球梁或者颗粒状物体的塑形。

This machine is widely used in the pharmaceutical industry, mainly used for drug coating and polishing, but also for food, chemical and other industries in the shape of spherical or granular objects.

结构特点 Structural characteristics

该包衣机采用不锈钢制造，整机传动平稳，性能可靠，清洗维修方便，热效率高，可随生产工艺要求调节包衣锅角度使用方便，是医药、食品、化工等行业中的理想设备。该机还可根据用户需求增加无级调速、全包外壳、喷液泵及热风除尘等系统。

This coating machine is made of stainless steel. The whole machine features smooth transmission, reliable performance, convenient cleaning and maintenance, high thermal efficiency, and the Angle of the coating pot can be adjusted according to the production process requirements. It is easy to use and is an ideal equipment in the pharmaceutical, food, chemical and other industries. This machine can also be equipped with systems such as stepless speed regulation, fully enclosed casing, liquid spray pump and hot air dust removal according to the user's requirements.

工作原理 Working principle

制丸机制出的丸粒物料经过出料端进入撒粉机滚筒，料斗的粉料经料斗内底部推进器均匀地向滚筒内进行撒粉，并使其黏附于丸粒表面，丸粒经滚筒带动，匀速滚筒，并经螺旋线推动使其向出口处移动，从而达到丸粒表面均匀黏附粉料的功能。

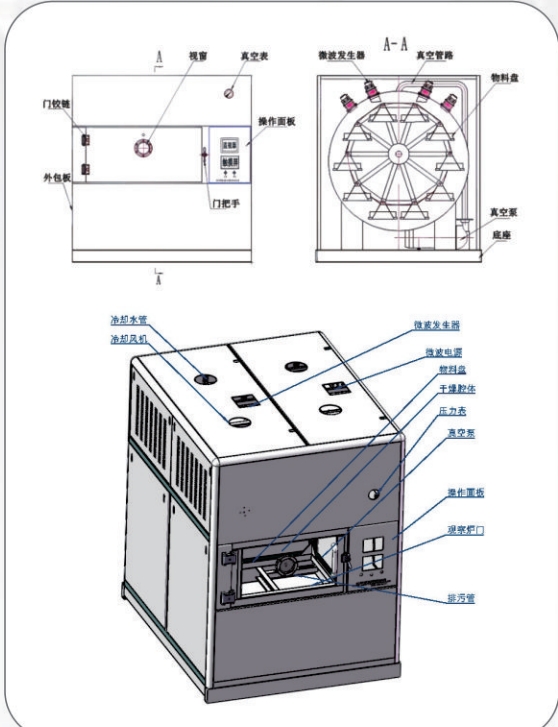
The pellet materials produced by the pill-making machine pass through the discharge end and enter the powder spreading machine drum. The powder in the hopper is evenly sprinkled into the drum by the bottom propeller in the hopper and adheres to the surface of the pellets. The pellets are driven by the drum at a constant speed and pushed towards the outlet by the spiral line, thus achieving the function of uniform adhesion of powder to the surface of the pellets.

主要技术参数 MAIN TECHNICAL PARAMETERS

设备型号Equipment model	BYJ-1000	BYJ-800	BYJ-500
包衣锅直径Coating pot diamete	Φ1000mm	Φ800mm	Φ500mm
生产效率The production efficiency	50-70kg/次	40-50kg/次	8-15kg/次
主电机功率Main motor power	1.5kw	1.5kw	0.55kw
包衣锅转速Coating pan speed	35r/min	35r/min	18-44r/min
电加热功率Electric heating power	2kw	2kw	0.5kw
角度调节范围Angle adjustmentrange	5-40°	5-40°	5-40°
风机功率The fan power	0.25kw	0.25kw	0.15kw
送风量delivery	2.2m ³ /min	2.2m ³ /min	0.8m ³ /min
热风温度Hot air temperature	50-60℃	50-60℃	40-50℃
机器总重量Gross weightofmachine	390kg	310kg	200kg
外形尺寸Overall dimensions	1000x1100x1720mm	800x1100x1620mm	550x800x1000mm

HWZ系列箱式真空微波干燥设备

Vacuum Microwave Drying Equipment

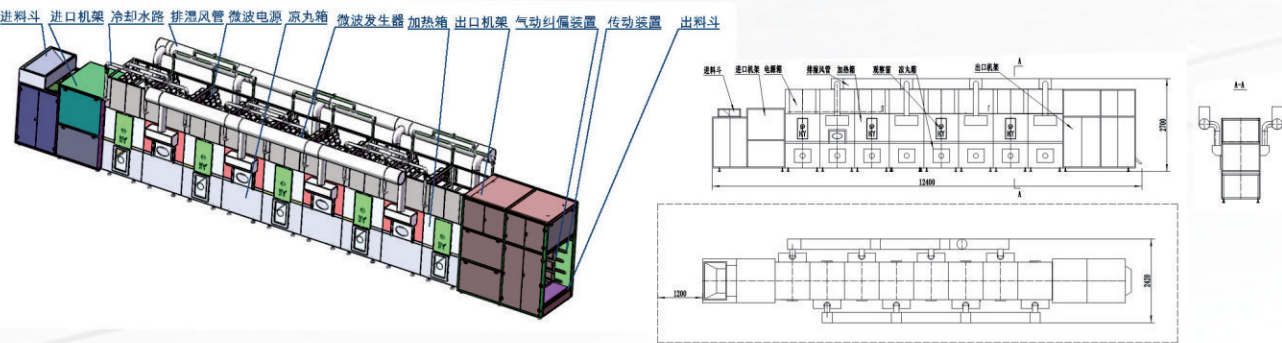
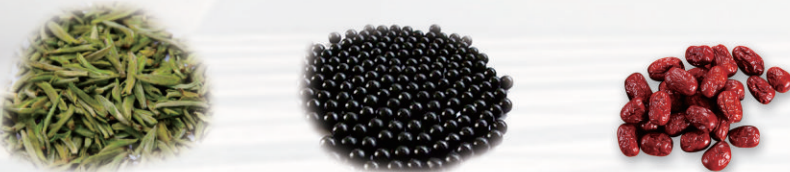


主要技术参数 MAIN TECHNICAL PARAMETERS

设备型号Equipment model	HWZ-5B	HWZ-5B	HWZ-15B	HWZ-20B	HWZ-25B	HWZ-30B
微波功率KW Microwave power	5	10	15	20	25	30
微波频率MHZ Microwave frequency	2450	2450	2450	2450	2450	2450
电源电压V Power supply voltage	380+10%	380+10%	380+10%	380+10%	380+10%	380+10%
辅助面积m ² Area of auxiliary materials	0.75	0.75	2.25	2.25	3.45	3.45
灭菌能力Kg/KW·h Sterilization capacity	10-20					
脱水能力Kg/KW·h Dehydration capacity	0.8-1.2					
外形尺寸mm External dimensions	950*650*1700	1580*1270*1880	1780*1980*2140	1780*1980*2140	1880*2400*2450	1880*2400*2450

GWM系列多层隧道式微波干燥灭菌机

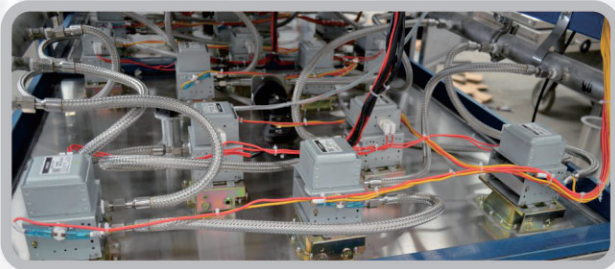
GWM series multi-layer tunnel type microwave drying and sterilizing machine



微波电源 Microwave power



进料斗 The hopper



微波发生器 Microwave generator



传送带自动纠偏装置 Automatic belt rectifying device

主要用途 Main purpose

隧道式微波干燥机是一种新型的干燥设备，生产效率高、运行成本低，更是一种高效环保的节能设备，在干燥的同时还有杀菌作用，是中药丸剂、食品、农副产品等生产流水线上不可缺少的核心设备之一。设备可配三层或五层传送结构，确保干燥效果更佳，同时与同等功率/产量的干燥设备相比，占地面积小，人力使用量减少80%以上，效率成倍提高。在木材、纸张、烟草、化工、建材等领域也得到广泛应用。

本机特点 Machine features

- 设备的主要部件均采用SUS304不锈钢制造，符合制药设备GMP标准，整机采用模块化设计，易清洗，操作方便。
- 非常适合与前后端设备连线，实现高效联动生产。
- 微波加热器由若干个单元加热箱组成，每个单元由若干个磁控管组合工作，其特点是功率选择灵活，操作简便。
- 领先的波导技术控制波峰波谷分布，使微波加热更均匀。
- 传输带采用聚四氟乙烯材质，安全无毒，无级变频自动调速，运行稳定。
- PLC自动程序控制系统，实现自动监测报警、数据存储调用。
- 具有炉门开启自动保护功能，误开炉门时，设备自动切断微波电源，或者当炉门没有关好，不能启动微波电源。
- 整机采用模块化设计，清洗、装拆、检修均很方便。

产品结构 Product structure

设备主要由微波加热器、微波发生器、微波抑制器、机械传输机构、抽风排湿系统及自动化控制系统等组成。

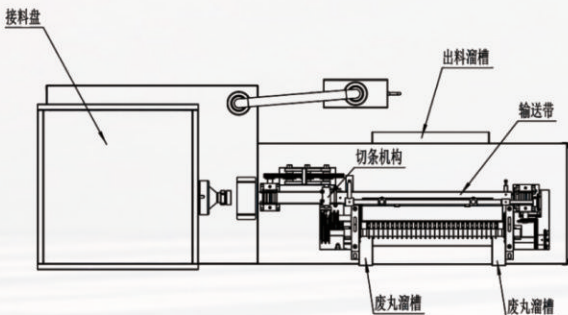
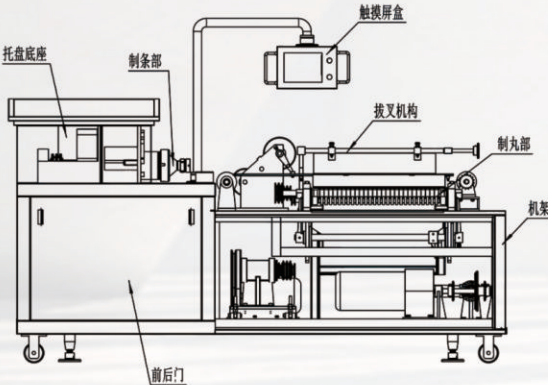
The tunnel type microwave dryer is a new type of drying equipment with high production efficiency and low operation cost. It is also an energy-saving equipment with high efficiency and environmental protection. While drying, it also has the function of sterilization. It is one of the indispensable core equipment in the production line of Chinese traditional medicine pills, food, agricultural and sideline products. The equipment can be equipped with three-layer or five layer transmission structure to ensure better drying effect. At the same time, compared with the drying equipment with the same power or output, the floor area is small, the use of manpower is reduced by more than 80%, and the efficiency is multiplied. It is also widely used in wood, paper, tobacco, chemical industry, building materials and other fields.

- The main parts of the equipment are made of SS304 stainless steel, which conforms to the GMP standard of pharmaceutical equipment. The whole machine is modular design, easy to clean and easy to operate.
- It is very suitable for connecting with front and rear equipment to realize efficient linkage production.
- The microwave heater is composed of several heating boxes, each unit is composed of several magnetrons, which is characterized by flexible power selection and simple operation.
- Advanced waveguide technology controls the peak and valley distribution, making microwave heating more uniform.
- The transmission belt is made of polytetrafluoroethylene, safe and non-toxic, stepless frequency conversion and automatic speed regulation, stable operation.
- PLC automatic program control system realizes automatic monitoring alarm and data storage and calling.
- It has the automatic protection function of furnace door opening. When the furnace door is opened by mistake, the equipment will automatically cut off the microwave power supply, or when the furnace door is not closed properly, the microwave power supply cannot be started.
- The whole machine adopts modular design, which is convenient for cleaning, installation and maintenance.

The equipment is mainly composed of microwave heater, microwave generator, microwave suppressor, mechanical transmission mechanism, exhaust and humidity system and automatic control system.

三辊蜜丸机

Three Rollers Pills Machine



工作原理 Working principles

将混合或炼制好的物料放置一段时间，使药物与蜂蜜成分混合均匀，并产生一定的粘性。将醒坨后的药坨送入三辊蜜丸机的料仓后，在螺旋推进器的挤压下，制出粗细一致，表面光滑的药条。药条由履带向前输送，经切刀切成一定长度的药条，拨叉机构把切好的药条推到制丸刀具中，经过快速切碾，制成大小均匀、表面光滑药丸。

Let the mixed or refined materials stand for a period of time to ensure that the medicine and honey components are evenly mixed and develop a certain degree of stickiness. After the medicine lumps are awakened, they are sent into the material bin of the three-roll honey pill machine. Under the extrusion of the screw conveyor, medicine strips of uniform thickness and smooth surface are produced. The medicine strips are conveyed forward by the conveyor belt and cut into strips of a certain length by the cutting knife. The pull-out mechanism pushes the cut medicine strips into the pill-making knife. After rapid cutting, pills of uniform size and smooth surface are made.

主要用途 Main purpose

本机广泛适用于制药行业，主要针对粘性较大的蜜丸的生产。This machine is widely used in pharmaceutical industry, mainly for the production of sticky material pills.

结构特点 Structural characteristics

1. 本机采用PLC可编程控制器，编码器等高新技术，自动化程度高，采用人机界面，操作简单。2. 制丸克重差异符合药典的规范，成品与药头自动分离，无需选。3. 该机外型简洁、造型大方、易清洁、易维修，经久耐用，操作方便，整机均采用不锈钢，符合GMP要求。

1. This machine adopts high-tech such as PLC programmable logic controller and encoder, with a high degree of automation. It features a human-machine interface and is easy to operate. 2. The weight difference of the pills made complies with the norms of the pharmacopoeia. The finished product and the medicine head are automatically separated, and there is no need for selection. 3. This machine features a simple and elegant appearance, is easy to clean and maintain, durable, and convenient to operate. The entire machine is made of stainless steel, meeting GMP requirements.

旋转式压片机(加强型)

ROTARY TABLET PRESS (REINFORCING TYPE)



工作原理 Working principle

本机是一种单压式自动旋转连续压片的机器，将颗粒状原料压制成各种片剂。它主要用于制药业的片剂生产，同时适用于化工、食品、电子等工业部门。外围罩壳为全封闭式形式，材料采用不锈钢，内部台面用不锈钢材料，转台表面经过特殊处理，能保持表面光泽与防止交叉污染，符合GMP要求。装有透明玻璃的门窗，能清楚观察压片的状态，并且能全部打开，易于内部清理和保养。所有控制器和操作件均布局合理。采用变频调速装置进行电气调速，操作方便，转动平稳，安全准确。所有的传动装置均布置在机器内部，保持机件清洁。配有过载保护装置，当压力过载时，能自动停机。本机配有电磁制动电动机和其它安全保护装置，运行时也能调整与操作。

This machine is a single-press automatic rotary continuous tablet pressing machine, which can press granular raw materials into various tablets. It is mainly used in the production of tablets in the pharmaceutical industry, and is also applicable to industrial sectors such as chemical engineering, food, and electronics. The outer cover is fully enclosed and made of stainless steel. The inner tabletop is also made of stainless steel. The surface of the turntable has undergone special treatment to maintain its luster and prevent cross-contamination, meeting GMP requirements. The doors and Windows equipped with transparent glass allow for a clear observation of the tablet pressing status and can be fully opened, making it easy to clean and maintain the interior. All controllers and operating components are rationally laid out. Electrical speed regulation is carried out by using a variable frequency speed control device, which is convenient to operate, rotates smoothly, and is safe and accurate. All the transmission devices are arranged inside the machine to keep the components clean. It is equipped with an overload protection device. When the pressure is overloaded, it can automatically shut down. This machine is equipped with an electromagnetic braking motor and other safety protection devices, and can be adjusted and operated during operation.

主要技术参数 MAIN TECHNICAL PARAMETERS

型号Model	ZP-5	ZP-7	ZP-5
冲模数 Punch quantity(Sets)	5	7	9
最大压片压力 Max. tablet pressure(kn)	60	60	60
最大压片直径 Max. tablet diameter(mm)	20	20	20
最大充填深度 Max. filling depth(mm)	15	15	15
最大片剂厚度 Max. tablet thickness(mm)	6	6	6
转盘转速 Turret rotation speed(r/min)	30	30	30
生产能力 Production capacity(Pc/h)	9000	12600	16200
电机功率 Motor Power(kw)	2.2	2.2	2.2
外形尺寸 Overall size(mm)	480x630x1100	480x630x1100	480x630x1100
主机重量 Machine weight(kg)	360	360	360

高速光电数粒机

High speed photoelectric counting machine



主要技术参数 MAIN TECHNICAL PARAMETERS

设备名称 Equipment name	高速光电数粒机 High-speed photoelectric counting machine	设备型号 Device model	KSL-24
设备最高速度 Maximum speed	13000粒/分 (与药品包材有关) capsules/min (related to drug packaging materials)	设备重量 Equipment weight	960kg
外形尺寸(L×W×H) Dimensions	1900×1780×2082mm	使用、维修尺寸(L×W×H) Use and maintenance size	2700×2700×2500mm
额定电压 Rated voltage	380V/220V	额定电流 Rated current	6A
气压 Air pressure	0.5-0.7Mpa	耗气量 Air consumption	260L/min
震动轨道 Vibration channel	24	装量 Quantity of fill	1-9999
电功率 Electric power	1.8KW	瓶子规格 Bottle specifications	瓶高Bottle height: 40~200mm 瓶径Bottle diameter: 20~100mm

KTB-150 立式圆方瓶贴标机

Vertical square round bottle labeling machine



工作原理 Working principle

被贴标瓶子进入输送带, 经过分瓶轮分瓶后以一定间距排列, 由输送带向前运送。经过校正带校正后, 被顶带压住并保持一定姿态向前运行, 到达测物电眼时, 测物电眼感应到瓶子的瞬间即给送标器发出出标的信号, 瓶子经过出标板处被贴上标签, 吸附带将标签的长尾吸住, 在顶带的压持下继续前行, 直至到卷瓶轮处将瓶子卷动使标签卷贴在瓶子圆周面上, 在出标的同时底纸回卷。当测标电眼检测到标签尽头后即给送标器发出停止出标信号, 完成贴标。

The labeled bottles enter the conveyor belt, are separated by the bottle-separating wheels and then arranged at certain intervals, and are transported forward by the conveyor belt. After being corrected by the calibration band, it is held down by the top band and maintains a certain posture to move forward. When it reaches the target photoelectric eye, the moment the target photoelectric eye senses the bottle, it immediately sends a label output signal to the label feeder. The bottle is labeled at the label output plate, and the adsorption band attracts the long tail of the label. Under the pressure of the top band, it continues to move forward. Until you reach the bottle roller, roll the bottle to make the label roll and stick to the circumferential surface of the bottle. At the same time as the label comes out, the backing paper is rolled back. When the label detection photoelectric eye detects the end of the label, it will send a stop label output signal to the label feeder, completing the labeling.

主要用途 Main Application

- 本机采用直线式输送系统, 可以根据不同瓶直径调整, 采用丝杆调节, 确保行走方向的精准。
- 先进的电控箱系统, 完全符合Ce标准。
- 贴标头部收纸的紧度可自由调整。
- 采用进口低温色带, 确保字迹不脱落, 且增加了温控元件的使用寿命。
- 被贴物不对, 是否打印, 瓶子差异等自动报警或停机;具有贴标误差, 打印错误等的剔除功能。
- 可选配条码打印和CCD成像对比系统。

- This machine adopts a linear conveying system, which can be adjusted according to different bottle diameters. It is regulated by lead screws to ensure the accuracy of the walking direction.
- The advanced electrical control box system fully complies with Ce standards.
- The tightness of the paper collected at the labeling head can be freely adjusted.
- Imported low-temperature ribbons are adopted to ensure that the characters do not fall off and to increase the service life of the temperature control components.
- It will automatically alarm or stop the machine if the attached object is incorrect, whether it is printed or not, or if there are differences in the bottles. It has the function of eliminating labeling errors, printing errors, etc.
- Optional barcode printing and CCD imaging comparison systems are available.

主要技术参数 MAIN TECHNICAL PARAMETERS

贴标速度 Labeling speed	圆瓶: 200瓶/分钟、方瓶: 80瓶/分钟 Round bottle: 200 bottles/min, square bottle: 80 bottles/min	输送带高度 Conveyor belt height	840+60mm
贴标精度 Labeling accuracy	±0.2mm	气源气压 Air source pressure	0.5~0.7Mpa
标签宽度/ Label width	10-125/175mm	耗气量 Gas consumption	30L/min清洁空气 (打印机用) 30L/min clean air (for printers)
标签长度 Label length	10-250mm	电源/总功率 Power supply/Total power	220V 50/60Hz/1.2Kw (含印字机 including printer)
被贴物尺寸 Size of the object to be pasted	直径φ20~120mm; 高60-400mm Diameter: φ20-120mm Height: 60-400mm	整机尺寸 Machine size	约3500(L)×1250(W)×1650(H)mm
总重量 Total weight	约400Kgs Approximately 400Kgs		