

RUI CHUANG DIAN QI



洛阳市锐创电气设备有限公司

LUOYANG RUICHUANG ELECTRICAL EQUIPMENT CO., LTD

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数控发泡 密封涂胶设备

CNC FOAM SEAL GASKET
MACHINE

洛阳市锐创电气设备有限公司

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01 公司介绍

ABOUT US

洛阳市锐创电气设备有限公司成立于2002年,是一家以高低压成套配电设备、自动化生产线及智能数控设备(数控发泡密封胶涂胶设备、工业平板打印设备、螺柱焊接设备、激光焊接设备、激光切割设备等)、智慧电力云平台、工业机器人应用的设计、生产、安装、调试、维修、培训为一体的综合性制造施工总承包的高科技企业。

Luoyang Ruichuang Electrical Equipment Co., Ltd. was established in 2002. It is a comprehensive manufacturing and construction general contractor of high and low voltage power distribution equipment, automatic production line and intelligent numerical control equipment (CNC foam sealing equipment, industrial flatbed inkjet printing equipment, stud welding equipment, laser welding equipment, laser cutting machine, etc.), intelligent power cloud platform, industrial robot application design, production, installation, commissioning, maintenance and training Technology enterprises.



先进的管理理念
Advanced management
concept



高素质的人才
High-quality talents



一流的研发能力
First-class research
and development capabilities



先进的加工设备
Advanced processing
equipment



完整的生产链条
Complete production
chain



专业的服务团队
Professional service
team



拥有ISO9001, ISO14001,
CE以及多项国家专利证书
Having ISO9001, ISO14001, CE and
multiple national patent certificates

公司秉承着“锐意进取, 创新超越”的企业精神, 一直在产品研发上不断投入, 使得产品更新及技术先进性一直位于国内领先, 已经形成从工程/产品设计、基础原材料到成套产品全过程的生产及服务。

The company adhering to the "forge ahead, innovation beyond" spirit of enterprise, has been constantly invested in product research and development, making product updates and technological advancement has been in the leading position in China, has formed from engineering/product design, basic raw materials to complete sets of products the whole process of production and service.

经过多年的不断创新研发, 拥有聚氨酯、硅胶、环氧胶、热熔胶等各种单、双组份涂胶自动化设备, 采用现场密封发泡成型技术, 广泛应用于钣金、汽车、电子电气、灯具、净化、锁具、过滤器、新能源、包装等行业。

After years of continuous innovation and research and development, we have various single and two-component automatic foam gasket dispensing machines such as polyurethane, silicone, epoxy adhesive, hot melt adhesive, etc., which are widely used in industries such as sheet metal, automotive, electronic and electrical, lighting, purification, locks, filters, new energy, packaging, etc.

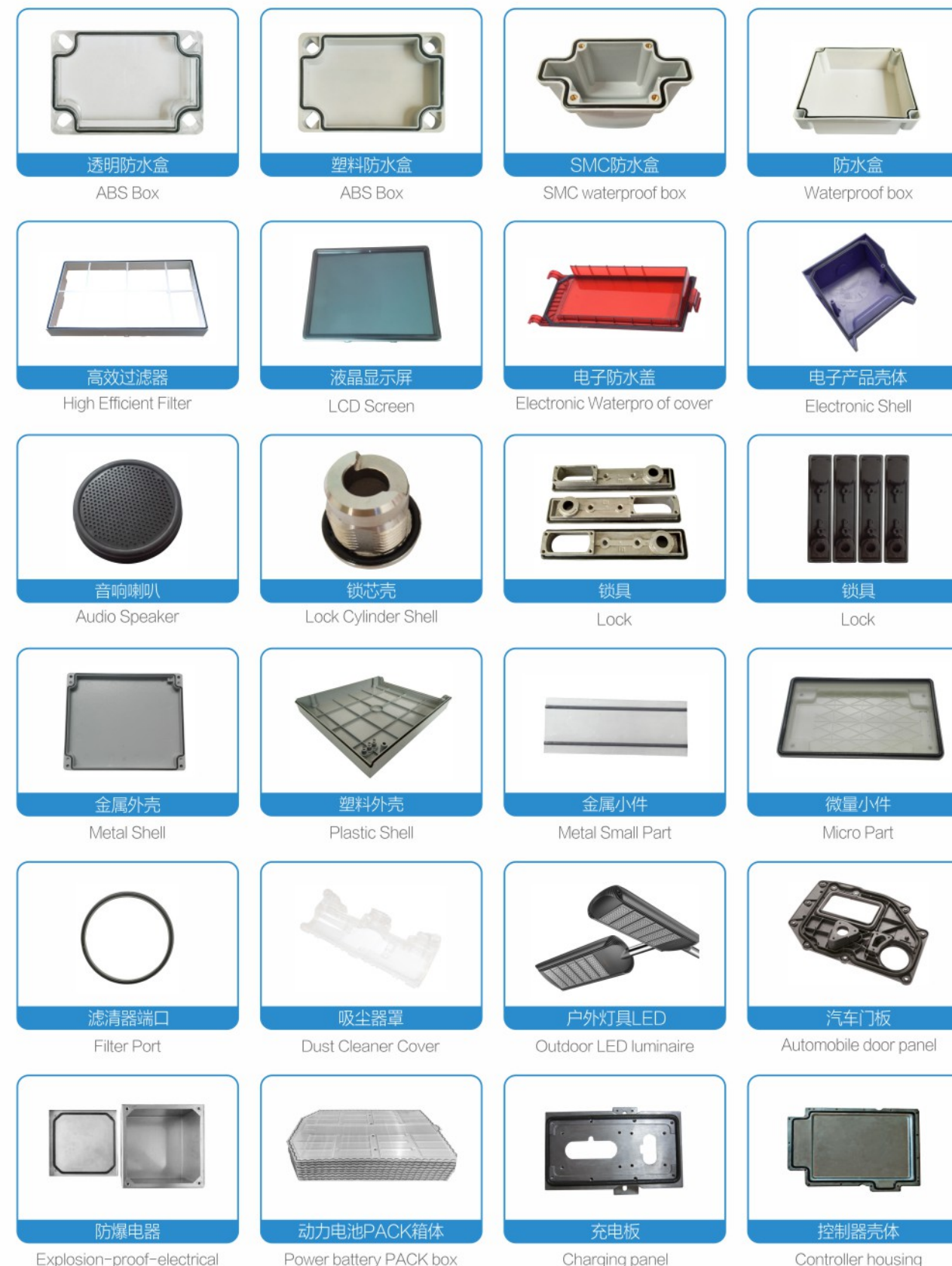
现有RC-D-6、RC-D-7系列各型常量、微量、车载集装箱式涂胶机, 多年的行业经验, 能提供精确的非标定制化密封解决方案来满足用户的特定需求。

The existing RC-D-6 and RC-D-7 series of constant type, micro type and vehicle mounted containerized foam gasket seal machines, with years of industry experience, can provide precise non calibrated sealing solutions to meet the specific needs of users.

自动化涂胶工艺可替代传统手工贴胶条, 结合智能化控制系统(采用工业运动控制系统, 功能强大可定制开发不同要求的生产工艺)、自主专利混胶系统, 兼容国外和国内胶水, 形成的密封胶条附着力好, 回弹性好, 防护密封等级高; 设备具有响应速度快、精度高、性能稳定、操作维护简单, 节省人力和成本等特点。

Automated gluing process can replace traditional manual adhesive strips, combined with intelligent control system (using industrial motion control system, powerful and customizable to develop production processes with different requirements), independent patented mixing system, compatible with foreign and domestic glue materials, forming sealing strips with good adhesion, good resilience, and high protection sealing level; The equipment has the characteristics of fast response speed, high accuracy, stable performance, simple operation and maintenance, and saves manpower and costs.

02 部分样件展示 SAMPLE DISPLAY



03 聚氨酯发泡胶水的涂胶设备 PU FOAM GASKET DISPENSING MACHINE

六代悬臂式常量数控密封点胶机

→ CANTILEVER STANDARD CNC FOAM GASKET DISPENSING MACHINE



设备型号 Model	有效行程 Working area(X*Y*Z)	出胶量 Glue output	胶条宽度 Strip width	胶条高度 Strip height	清洗方式 Cleaning method	应用领域 Application
RC-D-6-2-B/G	2450×1250×330 (mm) 三轴联动 行程可定制 Three-axes linkage; Customized working area is available;	1.0-6.5g/s	5-30mm	3-10mm	高压多点位水冲洗 High pressure multi- point water flush	机箱机柜、照明、汽车、 电子、变频器、通讯、防 爆产品等。 Cabinets; lighting; automotive; electronics; communication & explosion-proof products and etc.

► 快! 移动运输安装快、生产快 /Fast ! Fast installation and production for mobile transportation

采用一体式机架结构, 电气、供胶系统及运动机构整合在一起, 可旋转收回的悬臂梁结构, 减少占地面积, 方便移动。加强的机架结构配合高精度丝杆传动, 免维护、精度高、运动轨迹柔和, 点胶速度快。

Adopting an integrated rack structure, the electrical, glue supply system, and motion mechanism are integrated together. The cantilever beam structure that can be rotated and retracted reduces the footprint and facilitates movement. The strengthened rack structure, combined with high-precision screw drive, is maintenance free, high-precision, with a soft motion trajectory and fast dispensing speed.

► 耐! 耐高温, 耐低温 /Endure! High temperature and low temperature resistance

配有整机全包围恒温系统, 使整个供胶系统处于恒温状态, 涂胶不易受外部环境的干扰, 可以在-10℃至40℃的环境下正常稳定工作。

Equipped with a fully enclosed constant temperature system, the entire glue supply system is in a constant temperature state, and the glue coating is not easily affected by external environmental interference. It can work normally and stably in an environment of -10 °C to 40 °C.

► 自主研发RC-6B混胶头 /Independently developed RC-6B mixing head

机头恒温、气动机械封胶、胶液循环、废胶多点位高压水冲洗 (由无动力压力水罐提供高压水流, 达到清洗机头的作用, 清洗干净彻底, 节能环保)、混胶头拆卸维修保养方便。

Constant temperature head, pneumatic mechanical sealing, glue liquid circulation, multi-point high-pressure water flushing of waste glue (provided by a non powered pressure water tank to achieve the purpose of cleaning the head thoroughly, energy-saving and environmentally friendly), is convenient to disassembling, repairing, and maintaining the mixing head.

采用900系列PC版运动控制系统, 各转动装置均采用高精度高扭矩伺服电机独立驱动, 二维、三维均可切换加工; 支持示教/CAD/模板三种方式编程, 功能强大可定制开发不同要求的生产工艺。

The 900-series PC-based motion control system is adopted, and each rotating device is independently driven by a high-precision and high-torque servo motor. Both 2D and 3D can be switched for processing; Supports three programming methods: Teach/CAD/template, with powerful functionality to customize and develop production processes with different requirements.

七代悬臂式常量数控密封点胶机

→ HIGH VERSION CANTILEVER CNC FOAM GASKET DISPENSING MACHINE

大行程, 重床身, 全功能, 更智能, 免维护, 易操作, 胶条粗细可调范围大。

Large stroke, heavy bed, full-featured, smarter, maintenance-free, easy to operate, and the thickness of the gasket strip can be adjusted in a wide range.



▶ 能力超强的混胶头 / Super capable mixing head

采用极具科技感的飞碟式RC-7B混胶头, 操作维护简单, 配合高精密多级供胶系统, 微量常量胶条通用, 3-30mm粗细胶条一键切换、简单快捷; 无动力清洗水系统, 既节能又环保。

Using the highly technological UFO style RC-7B mixing head, easy to operate and maintain, combined with a high-precision multi-stage glue supply system, universal for micro and constant glue strips, with one click switching of 3-30mm thick and thin glue strips, simple and fast; The non powered cleaning water system is both energy-saving and environmentally friendly.

▶ 可加装特殊工位(如等离子处理系统) / Special workstations (such as plasma processing systems) can be installed

与涂胶系统同步集成, 涂胶前对工件表面进行处理, 使胶条粘贴更牢固, 适用于批量较小配件的涂胶机活化; 同时增加了自动喷底涂液、自动刮胶等功能。

Synchronously integrated with the dispensing system, the surface of the workpiece is treated before dispensing to make the adhesive strip adhere more firmly, suitable for activating dispensing machines with small batches of accessories; At the same time, it has added functions such as automatic spraying of primer and automatic scraping of glue.

▶ 二级供胶系统 / Secondary glue supply system

采用德国巴马格高精度齿轮泵、松下伺服电机加精密减速机驱动, 具有高精度、高响应度的出胶控制。

Using German Bamag high-precision gear pump, Panasonic servo motor and precision reducer drive, with high-precision and high responsiveness glue output control.

▶ 系统功能全面 / Comprehensive system functions

900系列PC版控制系统, 支持常用图形模板、CAD图形和手持盒示教编程。

The 900 series PC-based motion control system supports common graphic templates, CAD graphics and handheld box teaching programming.

设备型号 Model	有效行程 Working area(X*Y*Z)	出胶量 Glue output	胶条宽度 Strip width	胶条高度 Strip height	清洗方式 Cleaning method	应用领域 Application
RC-D-7-2-B/G RC-D-7-2-B/PRO	2450×1250×330 (mm) 3000×1500×330 (mm) 三轴联动 行程可定制 Three-axes linkage; Customized working area is available;	0.2-6.0g/s	3-30mm	2-10mm	高压多点位水冲洗 High pressure multi-point water flush	机箱机柜、照明、汽车、电子、变频器、通讯、防爆产品等 Cabinets; lighting; automotive; electronics; communication & explosion-proof products and etc.

八代悬臂式常量数控密封点胶机

→ HIGH VERSION CANTILEVER CNC FOAM GASKET DISPENSING MACHINE

▶ 900系列PC版总线控制系统+松下高扭矩伺服电机

900 series PC version bus control system + Panasonic high torque servo motor

可配置RC-7B标准机头或RC-7P大排量机头, 满足用户多种涂胶需求。

It can be equipped with RC-7B standard head or RC-7P large displacement head to meet users' various gluing needs.

高精度齿轮齿条传动, 直线导轨导向, 保证设备高精度、稳定运行。

High-precision rack and pinion transmission and linear guide rails ensure high-precision and stable operation of the equipment.

▶ 出胶位自动吹断装置 / Automatic blow-off device at glue outlet

替代刮胶功能, 自动吹走出胶嘴上的拉丝状的残余胶水, 保证每次接头准确, 无接痕。

Replaces the scraping function and automatically blows out the residual glue on the glue outlet to ensure accurate joints without any joint marks.

▶ 双层不锈钢恒温胶罐 / Double-layer stainless steel constant temperature glue tank

由恒温机对介质加热或制冷, 有效的保证胶条的品质。

The constant temperature machine heats or cools the medium to effectively ensure the quality of the glue strip.

▶ 含气量监测 / Gas content monitoring

通过控制系统来设置含气量, 并根据设定含气量和实测含气量的差异进行自动补气。

The gas content is set through the control system, and gas is automatically replenished according to the difference between the set gas content and the measured gas content.

▶ 视觉拍照定位(选配) / Visual camera positioning (optional)

Ai视觉自动识别工件位置和工件类型, 引导涂胶设备进行精确涂胶; 不同大小不同类型的工件可随意摆放, 涂胶路径始终基于工件的实际位置, 实现智能连续涂胶。

AI vision automatically identifies the position and type of the workpiece, guiding the gluing equipment to perform precise gluing. Workpieces of different sizes and types can be placed freely. The gluing path is always based on the actual position of the workpiece, achieving intelligent continuous gluing.



设备型号 Model	有效行程 Working area(X*Y*Z)	出胶量 Glue output	胶条宽度 Strip width	胶条高度 Strip height	清洗方式 Cleaning method	应用领域 Application
RC-D-8-2-H/G RC-D-8-2-HG/G	2450×1250×330 (mm) 三轴联动 行程可定制 Three-axes linkage; Customized working area is available;	0.2-6.0g/s (标准机头RC-7B) 1.0-12g/s (大排量机头RC-7P)	3-30mm	2-10mm	高压多点位水冲洗 High pressure multi-point water flush	机箱机柜、照明、汽车、电子、变频器、通讯、防爆产品等 Cabinets; lighting; automotive; electronics; communication & explosion-proof products and etc

一体式常量数控密封点胶机

→ INTEGRATED STANDARD CNC FOAM GASKET DISPENSING MACHINE



此款为紧凑点胶设备,是在标准型点胶机的基础上设计的,既能保证设备稳定性并且好用,又有相对优惠的价格。

This is a compact dispensing equipment designed on the basis of standard dispensing machines, which can ensure equipment stability and usability, and has a relatively favorable price.

电气控制系统、运动机构、供胶系统及物料工作台一体式安装布置;物料工作平台为可抽出式,节省空间;Y轴悬臂梁可旋转,运输方便;此设计结构紧凑。方便平时的运输以及搬运,当我们需要进入狭小空间时就可以旋转Y轴,就可以非常轻易地进入一个比较窄的门,方便吊装、运输、移动,现场安装仅需1-2小时。

Integrated installation and layout of electrical control system, motion mechanism, glue supply system, and material workbench; The material work platform is withdrawable, saving space; The Y-axis cantilever beam can rotate, making transportation convenient; This design has a compact structure. Convenient for daily transportation and handling, when we need to enter a narrow space, we can rotate the Y-axis and easily enter a relatively narrow door, making it easy to lift, transport, and move. On site installation only takes 1-2 hours.

行走机构采用齿轮齿条传动,直线导轨导向,各运动轴由高精度伺服电机独立驱动,控制精度高,运行平稳。

The walking mechanism adopts gear rack transmission, linear guide rail guidance, and each motion axis is independently driven by high-precision servo motors, with high control accuracy and smooth operation.

三款控制系统可选
Three control systems
are available

1 800系列脉冲型
800 series pulse type

2 600系列PC版
600 series PC version

3 600系列嵌入式;二维三维均可切换加工
600 series embedded; 2D and 3D processing are both possible

设备型号 Model	有效行程 Working area(X*Y*Z)	出胶量 Glue output	胶条宽度 Strip width	胶条高度 Strip height	清洗方式 Cleaning method	应用领域 Application
RC-D-6-2-J/G	2200×1200×330 (mm) 三轴联动 行程可定制 Three-axes linkage; Customized working area is available;	1.0-6.5g/s	5-30mm	3-10mm	高压多点位水冲洗 High pressure multi-point water flush	机箱机柜、照明、汽车、电子、变频器、通讯、防爆产品等 Cabinets; lighting; automotive; electronics; communication & explosion-proof products and etc.

一体式微量精密密封点胶机

→ INTEGRATED MICRO PRECISION CNC FOAM GASKET DISPENSING MACHINE



此款机型适合特细胶条精密工件的涂胶密封,涂胶宽度:2-10mm(槽内1.8mm),适用于大规模的精密工件连续涂胶密封。

This model is suitable for sealing precision workpieces with ultra-fine gasket strips, with a gasket strip width of 2-10mm (1.8mm in the groove), suitable for continuous dispensing and sealing of large-scale precision workpieces.

机架采用一体式悬臂梁结构,平台和机身一体化设计,机架强度大,可以满足大过载运动点胶,外观圆润,美观大方,轻便灵活,易于运输、挪动。

The rack adopts an integrated cantilever beam structure, with a platform and body integrated design. The rack has high strength and can meet the needs of large overload motion glue dispensing. The appearance is round, beautiful and generous, lightweight and flexible, and easy to transport and move.

配置RC-6W或RC-7B混胶头,可根据客户需求装配 A1、A2、B 三种胶罐,任意组合A1+B或A2+B,只需一键切换就能完成胶水品种的切换,满足不同尺寸和特性胶条的需求。

设备型号 Model	有效行程 Working area(X*Y*Z)	出胶量 Glue output	胶条宽度 Strip width	胶条高度 Strip height	清洗方式 Cleaning method	应用领域 Application
RC-D-7-2-W RC-D-6-3-W	1200×600×200 (mm) 三轴联动 行程可定制 Three-axes linkage; Customized working area is available;	0.1-1.4g/s	2-10mm	1.8-5mm	高压多点位水冲洗 High pressure multi-point water flush	过滤器、LED灯、工业锁具、汽车零部件、电子电气、通讯、防爆产品、家用电器等 Filters, LED lights, industrial locks, automotive components, electronic and electrical, communication, explosion-proof products, household appliances, etc

RC-6W or RC-7B mixing heads can be configured, and A1, A2, and B glue tanks can be assembled according to customer needs. A1+B or A2+B can be combined arbitrarily, and the glue variety can be switched with just one click to meet the needs of different sizes and characteristics of gasket strips.

控制系统采用具有总线通讯的运控控制器配合自主研发的专用点胶软件,支持常用图形模板、CAD图形和手持盒示教编程。

The control system adopts a motion controller with bus communication and self-developed specialized dispensing software, supporting commonly used graphic templates, CAD graphics, and handheld box teaching programming.

具有二级供胶系统装置,采用德国巴马格高精度齿轮泵、松下伺服电机加精密减速机驱动,具有高精度、高响应度的出胶控制。

Equipped with a secondary glue supply system device, it is driven by a German Bamag high-precision gear pump, Panasonic servo motor, and precision reducer, and has high-precision and high responsiveness glue dispensing control.

多组分微量点胶机

STANDARD & MICRO COMBINED CNC FOAM GASKET DISPENSING MACHINE



多组分微量点胶机能满足多种任务、各种类型工件的涂胶需求，微量常量工件均可涂胶，配置更高，功能更全面，性能更稳定。

Standard & Micro Combined CNC Foam Gasket Dispensing Machine can meet the gluing requirements of multiple tasks and various types of work-pieces, both standard and micro work-pieces can be glued, higher configuration, more comprehensive features, more stable performance.

配置的混胶腔体支持多达4种胶液配方，根据需要可以配4个不同型号胶水的原料罐，可以同时生产三种不同性质的胶条，只需一键切换就可以完成胶水品种的切换，配套不同规格高精度齿轮泵，满足不同尺寸和特性胶条的需求。

The mixing chamber can support up to 4 kinds of glue formula, according to the needs of 4 different types of glue raw material tanks, you can produce three different properties of the glue strip at the same time, just one key to switch to complete the switch of the glue variety, supporting different specifications of high-precision gear pumps to meet the needs of different sizes and characteristics of the glue strip.

具有二级供胶系统装置，采用德国巴马格高精度齿轮泵、松下伺服电机加精密减速机驱动，具有高精度、高响应度的出胶控制。

It has a secondary glue supply system device, which is driven by German Barmag high-precision gear pump, Panasonic servo motor & precision reducer, with high-precision and high-responsiveness control of glue output.

设备型号 Model	有效行程 Working area(X*Y*Z)	出胶量 Glue output	胶条宽度 Strip width	胶条高度 Strip height	清洗方式 Cleaning method	应用领域 Application
RC-D-6-3(4)-H/T	2450×1250×330 (mm) 三轴联动行程可定制 Three-axes linkage; working stroke can be customised.	0.1-6.5g/s	2-30mm	1.8-10mm	高压多点位水冲洗 High pressure multi- point water flush	机箱机柜、过滤器、照明灯具、汽车、电子 电气、通讯、防爆产品、家用电器等 Cabinets; filters; lighting; automotive; electronics; communication, explosion- proof products, household appliances, etc.

可移动集装箱密封点胶机

MOVABLE CONTAINER TYPE CNC FOAM GASKET DISPENSING MACHINE



集装箱式点胶机可车载使用，可固定安装，机动灵活。随时移动变换加工场地，便于上门服务，方便快捷，减少物料周转，避免外加工点胶运输过程中喷塑板材划伤问题，为客户外加工点胶省时省力又省工。

The container type CNC Foam Gasket Dispensing Machine can be used in vehicles, can be fixed installed, and is flexible. It can move and change the processing place at any time, which is convenient for door-to-door service, convenient and fast, and reduces material turnover. Avoid the problem of scratches on the sprayed plastic sheet during the transportation of external processing and dispensing, and save time, effort and labor for the customer's external processing and dispensing.



机柜设计结构结实耐用，可使用吊装或者叉车装卸，防水防潮，设计有减震装置，防震防颠簸。三边开门。
The cabinet design structure is strong and durable. It can be used for hoisting or forklift loading and unloading. It is waterproof and moisture-proof. It is designed with a shock-absorbing device to prevent vibration and bumps. Doors are opened on three sides.



机箱内部可以配置加热制冷装置，可保证(-10-40)摄氏度正常工作。
The inside of the chassis can be equipped with heating and cooling devices to ensure normal operation at (-10-40) degrees Celsius.



可配置大功率UPS单元和车顶光伏发电单元，不接市电的情况下可正常工作4小时左右。
It can be equipped with high-power UPS unit and roof photovoltaic power generation unit, which can work normally for 4 hours without power connection.



可配置大功率静音气泵和保压气罐，保证设备工作的气压稳定。
It can be equipped with a high-power silent air pump and a pressure-maintaining air tank to ensure the stable air pressure of the equipment.

机器人涂胶工作站

ROBOT GLUING WORKSTATION



▶ 六轴机器人点(灌)胶机RC-G-1680/AB

6-Axis Industrial Robot Dispensing Machine

组成部分:六轴机器人、涂胶专用控制系统、供胶系统、物料工作台组成。配有操作手持盒,使得操作更加的灵活、方便。

Components: Six-axis robot, glue special control system, glue supply system, material table. Equipped with a hand-held box, making the operation more flexible and convenient.

适用于较灵活和复杂三维曲面(汽车配件、各种灯具、各种塑料件、金属钣金件等)轨迹涂胶。

Suitable for more flexible and complex three-dimensional curved surfaces (auto parts, various lamps, various plastic parts, metal sheet metal parts) track gluing.

结合了六轴机器人的灵活性和精确控制技术,通过六轴机械臂的姿态变化,改变工件与涂胶头之间的空间位置,在三维空间内实现复杂路径的精准运动,完成普通三轴设备所无法完成的涂胶工作,专门用于单组分/双组分胶水的涂胶、喷胶、灌胶工艺。

Combining the flexibility and precise control technology of six-axis robots, it changes the spatial position between the workpiece and the gluing head through the gesture change of the six-axis robotic arm, realises the precise movement of complex paths in three-dimensional space, and completes the gluing work that cannot be done by ordinary three-axis equipment, which is specially used in the gluing, spraying, and filling process of one-component/two-component glues.

通过编程和参数设置,机器人可以适应不同的涂胶任务和工件变化,具有很强的适应性和扩展性。

Through programming and parameter setting, the robot can be adapted to different gluing tasks and workpiece variations with high adaptability and expandability.

其高度的自动化和智能化水平,能够显著提高生产效率,降低人工成本,同时确保涂胶质量的稳定性和重复性。在新能源汽车、电子组装、小家电制造、医疗器械、太阳能、充电桩等众多领域都有广泛的用途。

Its high level of automation and intelligence can significantly improve production efficiency and reduce labour costs, while ensuring the stability and repeatability of gluing quality. It has a wide range of applications in many fields such as new energy vehicles, electronic assembly, small home appliance manufacturing, medical devices, solar energy, charging piles and so on.

涂胶自动化生产线

AUTOMATIC GLUING PRODUCTION LINE



涂胶自动化生产线是一种高效、精准的生产解决方案,通过整合先进的机械设 备、控制系统、传感器技术和软件算法,实现了涂胶工艺的自动化和智能化。广泛应用于汽车、电子、医疗、包装等行业,旨在提高生产效率、提升产品质量、降低劳动成本、增强灵活性及保障员工安全。

Automatic gluing production line is an efficient and precise production solution that realises the automation and intelligence of the gluing process by integrating advanced mechanical equipment, control system, sensor technology and software algorithms. Widely used in automotive, electronics, medical, packaging and other industries, it aims to improve production efficiency, enhance product quality, reduce labour costs, enhance flexibility and protect employee safety.

可以采用三轴设备或者六轴机械手臂为载体,根据客户要求配置自动上料、涂胶、检测、烘干、下件、包装等工序。

The production line can select 3-axis or 6-axis mechanical arm, and configure automatic feeding/gluing/inspecting/drying/delivery/packing and many more production processes based on the customers' requests.

▶ 涂胶自动化生产线的优势 /Advantages of automated gluing production line

根据客户需求进行定制,工作行程、大小、节拍可根据客户需求设定,满足客户自身需求带自动生产线,节省人工成本,提升生产效率,操作简单便利,易于掌握且高速精确兼容进口胶水和国产胶水。

Customised according to customer needs, working stroke, size, beat can be set according to customer needs, to meet the customer's own needs with automatic production line, saving labour costs, improve production efficiency, simple and convenient operation, easy to grasp and high speed and accurate compatibility with imported glue and domestic glue.

主要组成部分:六轴工业机器人、Siemens控制系统、等离子处理系统、双组份聚氨酯精密涂胶系统、交换工作平台及产品定位工装、恒温水循环系统、自动加气装置、AB胶自动加料装置、A液自动搅拌装置、环保清洗系统、安全防护装置等。

Main components: Six-axis industrial robot, Siemens control system, plasma treatment system, two-component polyurethane precision gluing system, exchange of work platforms and product positioning fixtures, constant temperature water circulation system, automatic refilling device, automatic AB adhesive refilling device, A-liquid automatic mixing device, environmentally friendly cleaning system, safety guards and so on.

04 涂胶辅助设备 AUXILIARY MACHINE

等离子处理机

PLASMA PROCESSOR



等离子处理机是对各种塑料、金属或者玻璃等材料进行点胶前预处理的辅助设备。根据特定的工艺需求,使用低温等离子火焰处理工件表面,使工件表面具有活性,增加点胶的附着力,确保后续的粘接工艺和涂装工艺等的品质。可以设置两个工位交替处理,每次可以连续处理多个工件。

Plasma processor is auxiliary equipment which pretreated for all kinds of plastic, metal glass and etc. According to the specific process requirements, to make work parts surface active and increase the gluing adhesion by low temperature plasma flame handling its surface, that ensure the quality of following adhesion and painting. Two workstations can be set for alternate processing, and multiple work parts can be processed continuously at a time.

采用台湾新代CNC控制系统,最新的集成控制伺服驱动器及伺服电机控制X/Y/Z轴控制行架式机械模组系统;电气控制系统精度高于0.1mm;触摸屏控制,外接急停启动按钮方便操作;设备1.9米长,1.4米宽,节省空间。

SYNTEC CNC control system, newest integrated control servo driver and servo motor, X/Y/Z axes control, rack type mechanical module system, the accuracy of electrical control system is higher than 0.1mm, external emergency stop & start-up button, display and operate by touch screen, machine dimension: L1.9*W1.4, save space.



降低成本,效率高
Cost saving, high efficiency



环保完全无污染
Friendly environmentally



可针对各种不规则形状样品的任何位置,完全无死角
Applied to any position of various irregular products without dead Angle

05 其他胶水的点胶、涂胶设备 OTHER DISPENSING AND GLUING EQUIPMENT

点胶机适用的液体 / Available glue

各种溶剂、粘接剂、油漆、化学材料、固体胶等,包括硅胶、EMI导电胶、UV胶、AB胶、快干胶、环氧胶、密封胶、热胶、润滑脂、银胶、红胶、锡膏、散热膏、防焊膏、透明漆、螺丝固定剂、木工胶、厌氧胶、亚克力胶、防磨胶、水晶胶、灌注胶、喇叭胶、瞬间胶、橡胶、油漆、搪瓷漆、亮漆、油墨、颜料等。

Various kinds of solvents, adhesives, paint, chemical materials, solid glue, etc., including silicone, EMI conductive adhesive, UV glue, AB glue, quick-drying glue, epoxy glue, sealant, hot glue, grease, silver glue, red glue, solder paste, cooling paste, solder paste, clear lacquer, screws, wood glue, anaerobic adhesive, acrylic adhesive, adhesive wear, crystal glue, glue, horn glue, instant glue, rubber, paint, enamel paint, lacquer, printing ink, paint, etc.

普通胶水用单组份点胶机,AB胶使用双液点胶机,UV胶使用特定针筒点胶。

Common glue fits single-component dispensing machine, A&B glues fit 2-component dispensing machine, UV glue fits specific syringe dispensing machine.

双组份有机硅胶发泡机

TWO COMPONENT ORGANIC SILICONE FOAM MACHINE

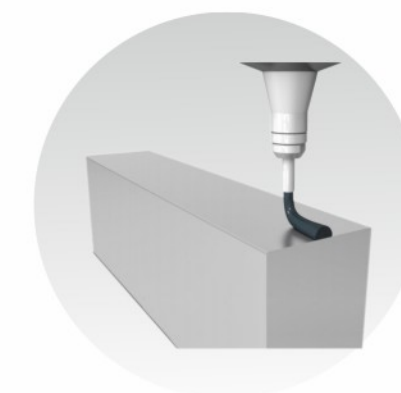
常量硅胶发泡涂胶机

Silicone Foam Gasket Machine



微量硅胶发泡涂胶机

Micro Silicone Foam Gasket Machine



硅胶发泡涂胶机是一种用于生产硅胶发泡产品的专用设备，将硅胶原料经过特定的工艺形成闭孔结构的弹性泡沫体。能够实现高效、均匀的发泡效果，满足不同工业领域的密封需求。

Silicone foaming glue coating machine is a special equipment used to produce silicone foam products. It forms a closed-cell elastic foam body through a specific process. It can achieve efficient and uniform foaming effect and meet the sealing needs of different industrial fields.

有机硅发泡FIPFG工艺又称现场成型发泡工艺，由双组份或多组份硅胶通过智能点胶机器人混合后，根据不同部件密封位置进行施胶，然后在室温或特定温度下发泡固化形成弹性体，固化时间短，可大批量连续生产。装配后压缩密封。闭孔发泡，压缩率最高可达70%，密封效果好，防护等级可达IP68以上。

The silicone foaming FIPFG process is also known as the on-site forming foaming process. After the two-component or multi-component silicone is mixed by an intelligent dispensing robot, the glue is applied according to the sealing position of different components, and then foamed and cured at room temperature or a specific temperature to form an elastomer. The curing time is short and can be produced continuously in large quantities. After assembly, it is compressed and sealed. Closed-cell foaming, the compression rate can reach up to 70%, the sealing effect is good, and the protection level can reach IP68 or above.

采用飞碟式RC-7B混胶头，操作维护简单，废胶原料冲洗，清洗更干净彻底。

The flying saucer RC-7B rubber mixing head is used, which is easy to operate and maintain, and the waste glue raw materials can be flushed and cleaned more thoroughly.

配合高精密多级供胶系统，一级泵采用高精度压盘螺杆泵，充分给二级泵-高精度计量泵供胶，从而保证并满足客户高精度出胶要求。

In conjunction with the high-precision multi-stage glue supply system, the first-stage pump uses a high-precision platen screw pump to fully supply glue to the second-stage pump - the high-precision metering pump, thereby ensuring and meeting customers' high-precision glue dispensing requirements.

可配置胶液含气量监测装置、吹气断胶装置

A glue gas content monitoring device and an air-blowing glue-breaking device can be configured.

微量硅胶发泡机是在常量型硅胶发泡机的基础上自主开发的小型微量功能的点胶设备，主要针对大规模的中小型工件的密封点胶。

Micro-silicone foam gasket machine is a small and micro-functional dispensing equipment independently developed on the basis of the constant-type silicone foaming machine, mainly for the sealing and dispensing of large-scale small and medium-sized workpieces.

机架采用一体式悬臂梁结构，平台和机身一体化设计，机架强度大，可以满足大过载运动点胶，外观圆润，美观大方，轻便灵活，易于运输、挪动。

The frame adopts an integrated cantilever beam structure, with an integrated design of the platform and the fuselage. The frame is strong and can meet the requirements of large overload motion dispensing. It is light and flexible so it's easy to transport and move.

硅胶发泡FIPFG工艺密封胶条集成在部件上，提升产品的结构密封等级，最高可达IP68，为产品的安全保驾护航，延长产品的使用寿命；形成的硅胶条闭孔结构、整体密封、表皮破损依然具有密封性，密度低、弹性好，压缩比例高，阻燃效果好，良好的耐候性，安全环保、无腐蚀、良好的化学惰性。

Silicone foaming FIPFG process sealing strips are integrated on the components to improve the structural sealing level of the product, up to IP68. The formed silicone strip has a closed-cell structure, overall

sealing, and is still sealed even if the surface is damaged. It has low density, good elasticity, high compression ratio, good flame retardant effect, good weather resistance, safety, environmental protection, no corrosion, and good chemical inertness.

适用于：新能源汽车动力及储能电池PACK箱体、液冷板、控制器壳体等部件的密封；风电、光电、汽车部件中对于防护等级要求比较高的零部件密封；发泡硅胶在防爆电器、户外灯具LED、高铁、船舶仪表、医疗器械、家用电器等领域，也能广泛应用。

Applicable: Sealing of power and energy storage battery PACK boxes, liquid cooling plates, controller housings and other components of new energy vehicles; Sealing of components with relatively high protection requirements in wind power, photovoltaics, and automotive components. Foamed silicone can also be widely used in explosion-proof electrical appliances, outdoor lighting LEDs, high-speed rail, ship instruments, medical equipment, household appliances and other fields.

设备型号 Model	有效行程 Working area(X*Y*Z)	计量精度 Measuring accuracy	胶条宽度 Strip width	胶条高度 Strip height	胶体材料 Raw material	应用领域 Application
RC-D-7-2-H/SI	2450×1250×330 (mm) 三轴联动 行程可定制 3-axis simultaneous motioned; Customized working area is available;	±0.1%	5-20mm	3-10mm	发泡硅胶 Silica gel	新能源行业、防爆电器、户外灯具LED、高铁、船舶仪表、医疗器械、家用电器等领域 New energy industry, explosion-proof electrical appliances, outdoor lighting LED, high-speed rail, ship instruments, medical devices, household appliances and other fields

设备型号 Model	有效行程 Working area(X*Y*Z)	计量精度 Measuring accuracy	胶条宽度 Strip width	胶条高度 Strip height	胶体材料 Raw material	定位精度 Repeat accuracy	冲洗介质 Flushing medium
RC-D-7-2-W/SI	1200×600×200 (mm) 三轴联动 行程可定制 3-axis simultaneous motioned; Customized working area is available;	±0.1%	3.5-15mm	2.5-7mm	硅胶发泡胶 Silica gel	±0.05mm	B胶清洗或专用溶剂清洗 B rubber cleaning or special solvent cleaning

单组份胶水的点胶、涂胶设备

— SINGLE-COMPONENT DISPENSING AND GLUING EQUIPMENT —

适用胶水 / Available glue

包括单组分硅胶、EMI导电胶、UV胶、环氧胶、密封胶、热熔胶、玻璃胶、润滑脂、银胶、红胶、锡膏、散热膏、防焊膏、透明漆、螺丝固定剂、木工胶、厌氧胶、亚克力胶、防磨胶、水晶胶、灌注胶、喇叭胶、瞬间胶、橡胶、油漆、搪瓷漆、亮漆、油墨、颜料等。

One-component silicone, EMI conductive adhesive, UV glue, epoxy glue, sealant, hot melt adhesive, grease, silver glass glue, glue, red glue, solder paste, cooling paste, solder paste, clear lacquer, screws, wood glue, anaerobic adhesive, acrylic adhesive, adhesive wear, crystal glue, glue, horn glue, instant glue, rubber, paint, enamel paint, lacquer, printing ink, paint, etc.

台式的

Desktop

- ▶ 具有画点、线、面、弧、圆。不规则曲线连续补间及四轴联动等功能;
With the functions of drawing points, lines, surfaces, circle; consecutive interpolation of irregular curves and four-axes linkage.
- ▶ 示教功能,支持阵列展开、图形化浏览、旋转、三维椭圆、常用图形库插入、群组编辑等高级功能;
Teaching function, support array expansion, graphical browsing, rotation, 3-d ellipse, common graphics library insertion, group editing.
- ▶ 超大容量高速文件存储器,可存储大量点胶工艺文件;
Large-capacity high-speed file storage can store a large number of glue process documents;
- ▶ 胶量大小粗细、涂胶速度、点胶时间、停胶时间皆可参数设定;
All parameters (including output quantity, strip width, gluing speed, gluing time, and off-time) can be set up in the system.
- ▶ 专用止液针阀,出胶量稳定,断胶干净,不漏滴胶;
Specific stop needle valve, the output quantity is stable, glue end and stop is exact, no glue leakage.
- ▶ 具有自动防固化功能,有效防止胶水固化堵塞针头;
Automatic anti-curing function can effectively prevent needle head jamming from glue curing.
- ▶ 强大的PC兼容性,可以导入主流设计软件(如精雕、AutoCAD、CoralDraw等)生成各种文件格式(如.NC、.AI、.DXF、.JPG、.BMP、扫描仪等)
For the strong PC compatibility, the system can generated various file formats (e.g., NC, .ai, .dxf, .jpg, BMP, scanner, etc.) by importing mainstream design software (such as fine engraving, AutoCAD, CoralDraw, etc.). into the system.



行程 Working area	轴传动方式 Transmission Way	操作系统 Operation system	运动模式 Motion model	输入电源 Power Supply	功率 Power	工作环境 Working environment
500×700×100 (mm) 可定制 Customized working area is available;	马达+皮带+精密直线导轨 Motor+ belt + Precise liner guide rail	液晶面板/ 手持式编程器 LCD panel / handle editor	三轴点到点、 连续直线、圆弧 Point to point, straight-line, arc	AC220V 50/ 60HZ	0.9KW	温度0-40℃, 相对湿度20-90% Temperature: 0-40℃; Relative humidity :20-90%

柜式的

Cabinet Type

- ▶ PLC+触摸屏控制, 操作简便, 易学易懂, 专门用于圆形桶盖密封打胶;
 - ▶ 三轴使用步进电机+同步带驱动, 运行重复精度可达±0.03mm;
 - ▶ 特有的高精度回吸阀, 确保胶量精准并杜绝漏胶滴胶;
 - ▶ 胶量大小粗细、涂胶速度、点胶时间、停胶时间皆可参数设定;
 - ▶ 按需配比, 实现边混合边灌胶, 较大程度上节约胶水;
 - ▶ 特有的控制系统, 不受气压因素影响, 避免出胶不均、拉丝、气泡等现象。
- ▶ The system is controlled by PLC and touch screen and mainly used in lids sealing, easy handling;
 - ▶ Drive system is equipped with stepping motor and synchronous belt, repeat accuracy can reach to ±0.03mm;
 - ▶ Specific high precise snap-back valve ensures precise output quantity and prevents dripping;
 - ▶ All parameters (including output quantity, strip width, gluing speed, gluing time, and off-time) can be setup in the system;
 - ▶ Mixing the components according to the demand can save the raw materials greatly;
 - ▶ Specific control system, not influenced by air pressure, can avoid output heterogeneity, bubble.



外形尺寸 Dimension	打胶圆形直径 Lid Diameter	胶体材料 Raw material	功率 Power	最大高度 Max. height	控制系统 Control system	应用领域 Applications
950×900×1450mm	φ620-φ420	单组份有机硅胶 Single-component silicone	0.6KW	150mm	PLC+触摸屏 PLC+ Touch screen	专门用于圆形桶盖密封打胶 Specially used for sealing and gluing round drum covers

光伏铝型材涂胶机器人生产线

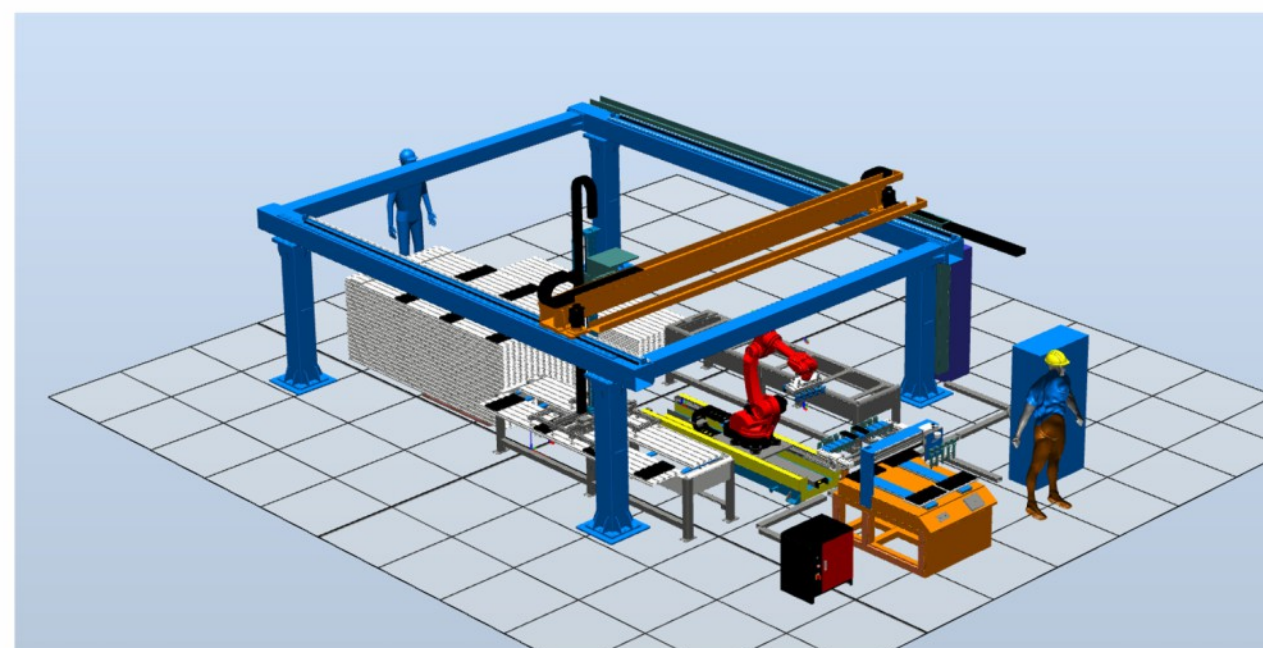
Photovoltaic aluminum profile gluing robot production line



主要组成部分 Main components

桌面式涂胶机(多头)、机器人+行走轨道、机器人末端抓手、龙门机械手(含抓手)、工作台。来料小车、夹具、控制系统等组成。

Desktop glue coating machine (multiple heads), robot + walking track, robot end gripper, gantry manipulator (including gripper), workbench, material trolley, fixture, control system, etc.



工作流程 Workflow

桌面点胶机对橡胶块涂胶
The desktop glue dispensing machine applies glue to the rubber block

同时龙门架搬运铝型材至加工工位
While the gantry transports the aluminum profile to the processing station

橡胶块涂胶完成
The rubber block is glued

龙门桁架机械手下料
The gantry truss manipulator unloads the material

粘块完成
The gluing is completed

机器人开始抓取涂胶完成的产品进行粘块作业
The robot starts to grab the glued product for gluing

铝型材上料完成
The aluminum profile is loaded

由原来的3个工人安装橡胶块、涂胶、摆放、按压、码垛减少为由1个工人负责摆橡胶块,其他工序由设备完成。

The original three workers who installed the rubber blocks, applied glue, placed, pressed and stacked them were reduced to one worker who was responsible for placing the rubber blocks, and the other processes were completed by the equipment.

双组份胶水灌胶机

→ TWO-COMPONENT DISPENSING, POTTING MACHINE

适用胶水 Available glue

双组份环氧树脂胶, AB胶, 环氧胶等。

2-component epoxy resin adhesive, AB glue; epoxy glue;

设备功能 Function

A/B密封胶的机械上料、密封存储、搅拌和抽真空、精准配比和均匀混合、定量出胶、自动清洗等功能, 实现A/B密封胶的机械化配制。

The functions of mechanical feeding, sealed storage, stirring and vacuuming, precise proportioning and uniform mixing, quantitative dispensing, automatic cleaning, etc. of A/B sealant realize the mechanized preparation of A/B sealant.



机械上料
Supply

依靠真空泵工作将胶罐内抽成负压, 将原料桶中的胶水抽入胶瓶, 胶瓶上端安装自动液位感应装置, 胶罐到达低液位自动加胶, 到达高液位自动停止加胶。

Negative pressure condition is formed in the component tank by starting vacuum pump, and then raw material in the 20L tank will be sucked into component jar; the component jar is equipped with an automatic level sensor, the system starts feeding at low level and stops feeding at high level.



密封存储
Storage

原料桶A、B为20L储存桶, 上端设置搅拌器、压力显示、消声器、安全泄压阀、液位感应器、窥视口。

20L capacity component daily tank is equipped with mixer, pressure displayed, silencer, safety relief valve, level sensor, visual area.



混合搅拌
Mixing

开启搅拌装置, A、B罐开始搅拌, 搅拌电机带动搅拌叶片旋转, 进胶阀关闭、真空泵开启, 持续搅拌抽真空消泡。

To switch on the mixing unit, agitator motor drives the mixing blade to rotate, and then feeding valve closed, vacuum pump enabled.



定量出胶
Outputting

供料泵采用精密齿轮泵配备压力传感器,通过PLC+触摸屏数字输入灵活调控A、B胶出胶量、出胶时间、自动配比。

Feeding pump is equipped with precise gear pump and pressure sensor, A&B output quantity, outputting time, mixing ratio can be flexibly adjusted and controlled by PLC&touch screen digital input.



混胶腔
Mixing chamber

采用静态胶阀配混胶管。

Static valve and mixing tube



控制与显示
Control and display

采用触摸屏加按键控制,按键控制上料、搅拌、抽真空、出胶。触摸屏显示各种状态及设定各种参数。

Working condition can be displayed in touch screen and parameters can be setup by touch screen, users control the process of feeding, mixing, vacuating, outputting by clicking different buttons.

项 目 Item	参 数 Parameter
工作方式 Working way	全自动配比、定量出胶、精密齿轮计量泵、双步进电机控制 Fully automatically mixing ratio, Output quantity, Precision gear dosing pump, Two-step motor
控制系统 Control system	PLC+触摸屏 (数字输入) PLC+ touch screen (digital input)
吐出量范围 Output quantity	≥1g
吐出精度 Output accuracy	±1%
配比精度 Ratio accuracy	±1%
计量精度 Measuring accuracy	±1%
吐出速度 Output speed	0.5-30g/s
配比率范围 Mixing ratio	From 100:100 to 100:10 (A:B)
混合方式 Mixing way	静态搅拌 Static mixing
存储桶A Storage tank A	35L
存储桶B Storage tank B	35L
控制方式 Control way	电动按钮开关+触摸屏 Electric button operation + touch screen
计量部分 Dosing	高精度齿轮计量泵耐腐蚀及耐磨处理, 部品更换简单 High precision gear dosing pump, corrosion resisting and wear-resisting, Parts exchange simply
输胶管 Hose	高压管 High pressure hose

06 设备主要组成部分

THE MAIN COMPONENTS OF THE EQUIPMENT

数控密封涂胶设备主要由一体式机架、传动系统、控制系统、供胶系统(胶罐、供胶泵、混胶头、胶管)、物料工作台、以及周边配套辅助设施(清洗罐、恒温机)等部分组成。

CNC PU foam sealing equipment is mainly composed of an integrated frame, transmission system, control system, glue supply system (glue tank, glue supply pump, glue mixing head, glue hose), material workbench, and peripheral supporting auxiliary facilities (cleaning tank, constant temperature machine) and other parts.

一体式机架结构

→ INTEGRATED RACK STRUCTURE



整个电气系统, 供胶系统, 以及运动机构是整体封闭式设计, 此为一体式机架结构。

The entire electrical system, glue supply system, and motion mechanism of the machine are of overall closed design, which is an integrated frame structure.

机器内部防尘, 整洁干净, 玻璃门设计, 开灯即可看到内部运转情况;

The interior of the machine is dustproof, clean and tidy. The glass door design allows us to see the internal operation status by turning on the light. The frame structure is integrated.

所有管线都隐藏在设备内部, 中间没有任何管线连接。可避免现场地面管线杂乱无序, 不会出现人为因素损伤线路;

All pipelines are hidden inside the equipment, without any pipeline connection in the middle. This can avoid the disorder of pipelines on the ground and prevent human factors from damaging the lines.

装有万向轮, Y轴可旋转, 旋转之后可轻易地进入比较窄的门, 方便吊装、运输、移动;

Equipped with universal wheels, the Y-axis can rotate, and after rotation, it can easily enter a relatively narrow door. Convenient for lifting, transportation and movement;

一体式机架可配置全包围恒温系统, 整个供胶系统处于恒温状态, 涂胶不受外部环境干扰, 保证涂胶品质和发泡效果。

The integrated rack can be equipped with a fully enclosed constant temperature system. The entire glue supply system is in a constant temperature state, and the glue coating is not affected by the external environment, ensuring the glue coating quality and foaming effect.

控制系统

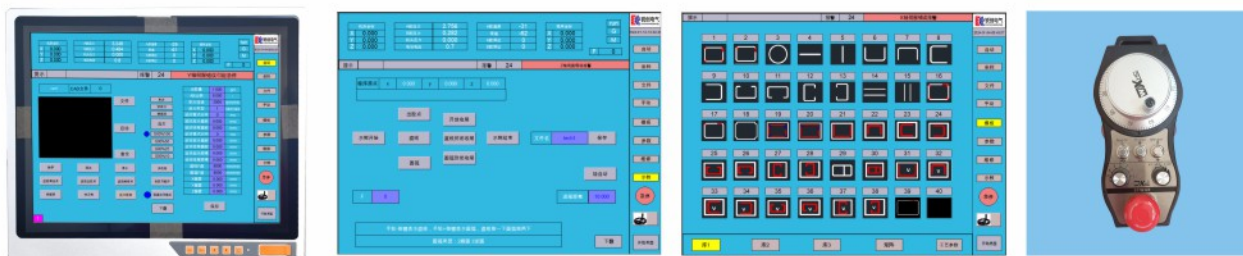
CONTROL SYSTEM

底层系统:自主开发的涂胶专用的底层软件,对于系统升级/增加/定制新功能,以及客户所提出的任何要求,都可由我司自主来完成,并能迅速提供方案给客户,无需求助第三方。

Underlying system: Our company has independently developed a specialized underlying software for gluing applications. For system upgrades, additions, customization of new features, or any requests made by customers, our company can independently handle and fulfill these needs, quickly providing solutions to customers without the need to seek assistance from third parties.

点胶专用800系列运动控制系统

800 series motion control system



- 1 采用总线运动控制器或六轴脉冲运动控制器加自主研发的专用点胶软件,搭配触摸彩色液晶屏,系统响应快,便于电机参数、系统软件相互通讯修改;

It uses bus motion controller or six-axis pulse motion controller plus self-developed special dispensing software, with touch color LCD screen, the system responds quickly, and it is convenient for motor parameters and system software to communicate and modify each other;

- 2 设备所有工作状态参数均可在显示器上随时监控,操作方便直观,最大程度保证设备运行的可靠性和稳定性;

All working status parameters of the equipment can be monitored at any time on the display, and the operation is convenient and intuitive, ensuring the reliability and stability of the equipment operation to the greatest extent;

- 3 英文和中文界面,可根据客户需求增加其他语言;

English and Chinese interface. Other languages can be added according to customer needs;

- 4 支持模板、示教、CAD三种方式编程。可根据需求,预先调用存储好的多达400种常用打胶程式和图形模板,无需编程,直接输入尺寸即可操作;特殊复杂图形既可根据CAD图形直接在系统上生成打胶程序,也可通过特制的无线示教手持器现场示教编程,使得现场编程复杂工件的程序简单化;

Support three programming methods: template, teaching, and CAD. As many as 400 commonly used gluing programs and graphic templates stored in advance can be recalled according to requirements. No programming is required, and the size can be input directly. Special complex graphics can be directly generated on the system based on the CAD graphics, or can be directly generated on the system. The on-site teaching and programming by a special wireless teaching handpiece makes the procedure of on-site programming of complex workpieces simpler;

- 5 支持USB传输文件,支持局域网通讯(可用PC机通过网络链接控制器,上传数据至PC端),提供多个内部信号对外接口。

Support USB file transfer, support LAN communication (PC can be used to connect to the controller through the network to upload data to the PC), and provide multiple internal signal external interfaces.

点胶专用900系列PC版总线控制系统

900 Series PC-based motion control system

- 1 采用高性能总线板卡进行运动控制,基于PC机的上位单元控制,提供更大的灵活性和开放性,支持多种运动控制功能,满足更高的运动控制需求,提高设备的运动精度和稳定性,可以在window系统下运行。

Using high-performance bus board for motion control, PC based upper unit control, to provide greater flexibility and openness, support a variety of motion control functions, meet higher motion control needs, improve the motion accuracy and stability of the equipment.



总线板卡
Bus Board

运动控制器
Motion Controller

松下高扭矩伺服电机+驱动器
Panasonic High-torque Servo
Motor + Driver

扫码枪
QR Code Scanner

- 2 二维、三维均可切换加工,用途广泛,涂胶文件可通过模板、示教、CAD、G代码四种方式生成,可通过不同需求选择相应模式来满足客户的涂胶要求。

2D and 3D can be switched processing, widely used, Glue application files can be generated in four ways: template, teaching, CAD, and G-code. The corresponding mode can be selected according to different requirements to meet the customer's glue application needs.

- 3 可前期确认涂胶轨迹、出胶接头,无需反复调试,降低涂胶编写程序对员工技术的依赖性。

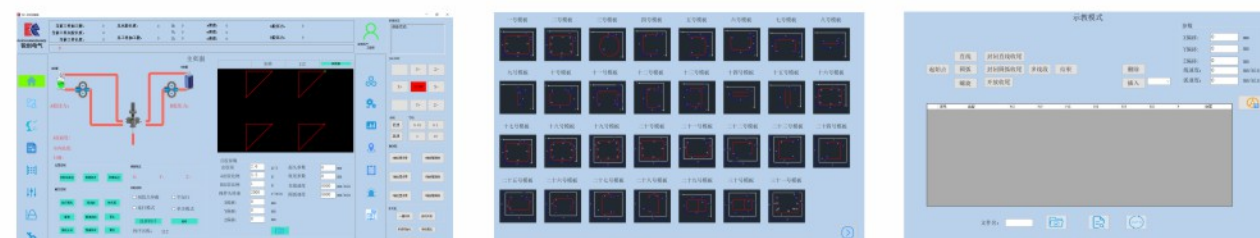
The gluing machine can confirm the gluing track and the gluing joint in the early stage, without repeated debugging, reducing the dependence of the gluing program on the staff's technology.

- 4 图形化的功能界面,方便操作人员理解,快速掌握设备的功能;

Graphical functional interface, easy to understand the operator, quickly grasp the function of the equipment;

- 5 可扩展视觉系统:能计算位置偏差,实现精准涂胶,使其能在更复杂的工件上进行涂胶作业;可对涂胶效果进行检测,减少人工误判和漏检的可能;还可对图像进行保存和追溯,方便后续的质量分析和改进,进一步优化涂胶过程。

The device has an extensible vision system that calculates position deviations for precise gluing, allowing it to apply on more complex workpieces. The vision system can detect the effect of gluing, reducing the possibility of manual misjudgment and missed detection. And the vision system can also save and trace the image, facilitate subsequent quality analysis and improvement, and further optimize the gluing process.



- 6 系统可实时连接网络平台,可远程监控设备工作状态及生产任务的管理、统计,系统维护和升级;拿到订单数据后,工程师在办公室生成程序,设备进行FTP服务器建立,编写好的出胶程序从办公室到编程室、再到生产现场,全方位支持智能工厂的实现。
The system can be connected to the network platform in real time, and can remotely monitor the working status of the equipment, and the management, statistics, system maintenance and upgrade of the production task; After getting the order data, the engineer generates the program in the office, the equipment establishes the FTP server, writes the glue program from the office to the programming room, and then to the production site, fully supports the realization of the smart factory.
- 7 可对接ERP系统,支持操作工作业指导书工作模式。
It can be connected to the ERP system and supports the working mode of the operator's work instruction.
- 8 可将对应的涂胶轨迹程序生成任务单,通过扫码枪扫描任务单上二维码直接获取涂胶工作程序,实现办公室和现场联动来提高效率,并可以追溯相关信息。通过扫码枪进行二维码扫入,涂胶机自动解析二维码并调用对应的触角程序。
The gluing machine can generate the corresponding gluing track program into two-dimensional code order for printing and saving, and scan the two-dimensional code through the code gun, the gluing machine will automatically analyze the two-dimensional code and call the corresponding antenna program.
- 9 另有三大功能来支持现场制造:作业管理、产量监控、图纸管理。实现从订单、工序、到零件、程序等各类信息的有效链接和共享。
It also includes three functions to support on-site manufacturing: Job management, output monitoring, and drawing management. Realize effective linking and sharing of all kinds of information from orders, processes, parts, procedures, etc.



点胶专用600系列PC版运动控制系统

600 series pc version motion control system for dispensing



- ▶ 采用工控机加自主研发的专用点胶软件,具备PC机的功能,提高用户控制系统的可靠性和稳定性。
The system uses an industrial computer and self-developed special dispensing software, which has the functions of a PC and improves the reliability and stability of the user's control system.
- ▶ 触摸真彩色液晶屏,设备所有工作状态均可在显示器随时监控,方便直观,最大程度保证设备运行的可靠性和稳定性。
Touch true color LCD screen, all working status of the equipment can be monitored on the display at any time, which is convenient and intuitive, and ensures the reliability and stability of the equipment operation to the greatest extent.
- ▶ 配有手持操作器,可直接一键涂胶,原点定位,使用方便,在加工精细工件时能够准确快速生产。
Equipped with a handheld operator, it can directly apply glue and locate the origin. It is easy to use and can produce accurately and quickly when processing fine workpieces.
- ▶ 编程方式有模版、示教、CAD三种方式。可根据需求,预先调用做好的常用打胶程式和图形模板,无需编程,直接输入尺寸即可操作。特殊复杂图形既可根据CAD图形直接在系统上生成打胶程序;也可通过手持器现场示教编程,使得现场编程复杂工件的程序简单化。
There are three programming methods: template, teaching, and CAD. According to the needs, you can call the commonly used gluing programs and graphic templates in advance. No programming is required, just input the dimensions and you can operate. Special complex graphics can generate gluing programs directly on the system based on CAD graphics; or you can use the handheld device to teach programming on site, which simplifies the on-site programming of complex workpieces.
- ▶ U盘存取功能:方便用户及时备份资料与参数。图形预览功能方便用户查找工件程序调用参数。
U disk access function: Convenient for users to back up data and parameters in time. Graphic preview function makes it easy for users to find workpiece program call parameters.

点胶专用600系列嵌入式控制系统

600 series embedded control system for dispensing



- ▶ 采用了强大的双核模式,操作简便快捷,使运动系统和涂胶系统完美结合;
It adopts a powerful dual-core mode, which is easy and quick to operate, and perfectly combines the motion system and the gluing system;
- ▶ 高性能的控制系统,可定制中、英文及其他语种,工件尺寸、图档及技术参数均可储存至系统中,使用时可以直接调用;
High-performance control system, customizable in Chinese, English and other languages. Workpiece dimensions, drawings and technical parameters can all be stored in the system and can be directly called up when in use;
- ▶ 智能图形自动生成功能,二维产品无需编程,三维可 U 盘导图,二维、三维均可切换加工,亦可实现多维差补;可任意图形、任意轨迹(圆形、方形、梯形、L形、C形、直线等等)涂胶。
Intelligent graphics automatic generation function, 2D products do not require programming, 3D can be imported from a USB flash drive, 2D and 3D can be switched for processing, and multi-dimensional difference compensation can also be achieved; any graphics and any trajectory (circular, square, trapezoidal, L-shaped, C-shaped, straight line, etc.) can be glued.

- ▶ 编程方式有模版、CAD。可根据需求，预先调用做好的常用打胶程式和图形模板，无需编程，直接输入尺寸即可操作。特殊复杂图形既可根据CAD图形直接在系统上生成打胶程序；

The programming methods include template and CAD. When using the template function, you can call the commonly used gluing programs and graphic templates in advance according to your needs. No programming is required, just input the dimensions and you can operate. Special and complex graphics can be generated directly on the system based on CAD graphics.

- ▶ 配有手持操作器，可直接一键涂胶，原点定位，使用方便，在加工精细工件时能够准确快速生产。

Equipped with a handheld operator, it can directly apply glue and locate the origin. It is easy to use and can produce accurately and quickly when processing fine workpieces.

- ▶ **U盘存取功能：**方便用户及时备份资料与参数。图形预览功能方便用户查找工件程序调用参数。

U disk access function: Convenient for users to back up data and parameters in time. Graphic preview function makes it easy for users to find workpiece program call parameters.

传动系统

TRANSMISSION SYSTEM



高精度滚珠丝杆或齿轮齿条传动，直线导轨导向，保证设备高精度、稳定运行。

High-precision ball screw or rack and pinion transmission, guided by linear rails, ensures high precision and stable operation of the equipment.

各运动轴由伺服电机独立驱动，保障设备运行精准、平稳、高效。

Each axis of motion is independently driven by servo motors, guaranteeing accurate, smooth and efficient operation of the equipment.



拖链为水平安装结构，受力方向一致，设备运行过程中不易磨损，使用寿命长；对控制线缆、胶路、气路的使用寿命无影响。

The drag chain is installed in a horizontal structure with consistent force direction, making it less prone to wear during operation and ensuring a long service life. It does not affect the lifespan of control cables, glue lines, or air lines.

供胶系统

GLUE SUPPLY SYSTEM

储料罐-压力罐

Glue tank-pressure tank



配置50L压力罐，存放A/B料，美观耐用；

Equipped with 50L pressure tanks for storing A/B materials, beautiful and durable;

- ▶ **缺料自动报警：**液位连续数值化显示，可实时显示胶液余量，当原料罐里的原料低于安全液位，控制系统自动报警并提示补料，确保设备在生产中原料充足；

Low Material Automatic Alarm: The liquid level is continuously displayed in numerical form, allowing real-time monitoring of the remaining glue. When the material in the tank falls below the safe level, the control system automatically alarms and prompts for refilling, ensuring sufficient material during production.

- ▶ **自动搅拌：**保证原料在长期不使用的状态中不会分层，不影响胶的品质；

Automatic Stirring: Ensures that the material does not separate during long periods of inactivity, maintaining the quality of the glue.

- ▶ **自动补气：**加气过程中对原料进行搅拌使空气与原料充分混合，使A料的化学结构更稳定；

Automatic Air Supply: During the air injection process, the material is stirred to fully mix the air with the material, making the chemical structure of Material A more stable.

- ▶ **杂质过滤：**胶液过滤器可过滤胶中杂质，防止胶液杂质堵塞混胶头；

Impurity Filtration: The glue filter can remove impurities from the glue, preventing blockages in the mixing head caused by impurities.

- ▶ **B胶罐有吸湿干燥功能**

B Glue Tank with Dehumidifying Function

- ▶ **设有换胶、排胶口**

Equipped with Glue Replacement and Discharge Ports

储料罐-双层不锈钢胶罐

Glue tank-Double-layer stainless steel glue tank



360°全包围恒温双层不锈钢胶罐，由恒温机对介质加热或制冷，经输送泵将介质进行循环，使得胶罐、胶液管路以及涂胶头需要的工艺温度，有效的保证胶条的品质。

The 360° fully enclosed constant temperature double-layer stainless steel glue tank is heated or cooled by a constant temperature machine and circulated by a delivery pump to ensure that the glue tank, glue pipeline and glue mixing head meet the required process temperature, effectively ensuring the quality of the glue strip.

强度高、坚固耐用：不锈钢材料强度较高，双层设计进一步增强了罐体的整体结构强度。能够承受较大的压力和冲击力，降低因罐体损坏造成的胶水浪费和生产中断的可能性。

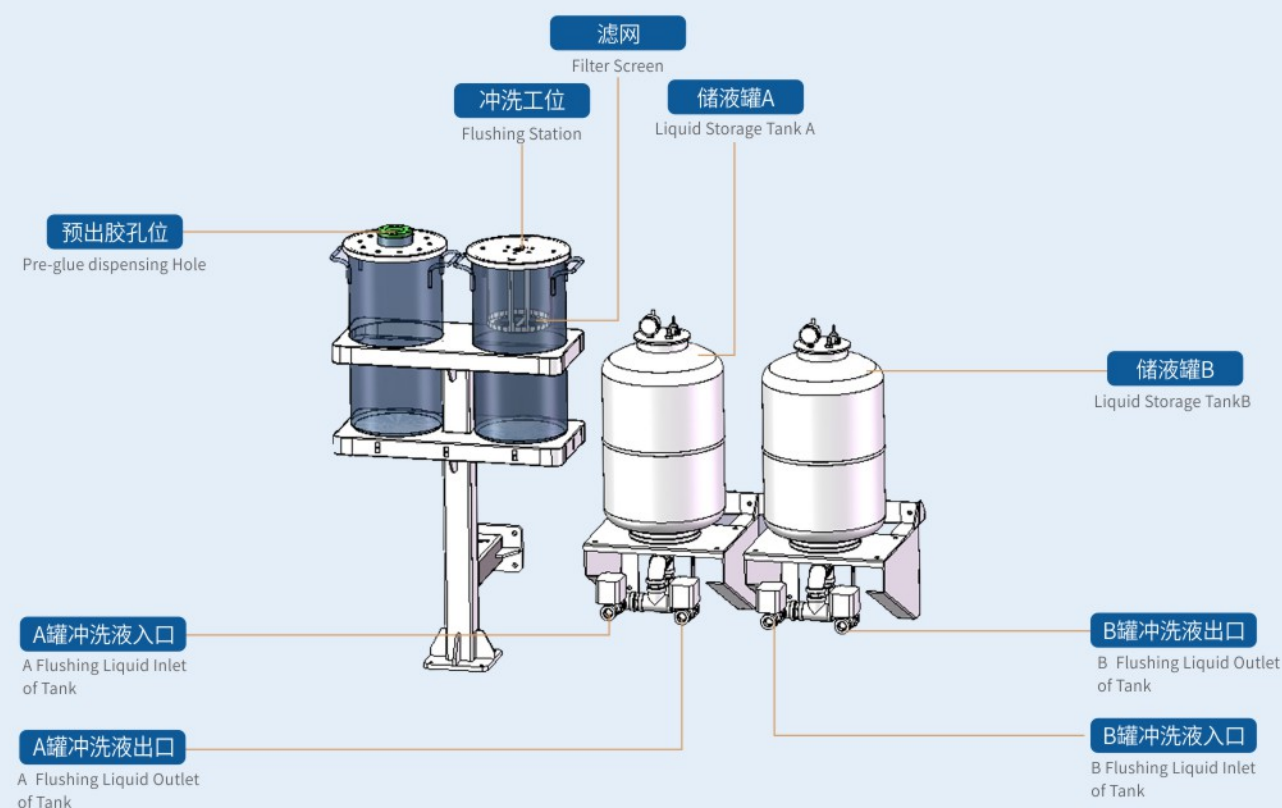
High strength, sturdiness and durability: Stainless steel is a high-strength material, and the double-layer design further enhances the overall structural strength of the tank. It can withstand greater pressure and impact, reducing the possibility of glue waste and production interruption caused by tank damage.

更好的隔热性能：双层结构有助于减少外界温度变化对罐内胶水的影响，保持胶水的温度相对稳定，保证胶水质量和使用效果。

Better thermal insulation performance: The double-layer structure helps reduce the impact of external temperature changes on the glue in the tank, keeps the temperature of the glue relatively stable, and ensures the quality and use effect of the glue.

循环环保高压溶剂清洗系统

Circulating environmentally friendly high-pressure solvent cleaning system



本装置具有我公司独特的专利技术,即可以循环使用进口环保溶剂又可以使用水两种介质清洗,可根据客户需要自动切换。结构简单不需辅助加压泵即可实现高压冲洗,节能环保。

This device has our company's unique patented technology, which can recycle imported environmentally friendly solvents and use water as two media for cleaning, and can automatically switch according to customer needs. The structure is simple and can achieve high-pressure flushing without the need for an auxiliary pressure pump, which is energy-saving and environmentally friendly.

- ▶ 双储液罐设计, 冲洗液供给不间断;
Dual liquid storage tank design, uninterrupted supply of flushing liquid;
- ▶ 吐胶口与冲洗口分开式设计, 方便分离污染物, 维护简单;
The glue dispensing port and the flushing port are designed separately to separate pollutants and simplify maintenance;
- ▶ 滤网可拆洗, 可重复使用;
The filter is detachable and washable and can be reused;
- ▶ 全气动无泵参与, 系统运行可靠;
Fully pneumatic, no pump involved, the system operates reliably;
- ▶ 系统小巧紧凑, 节省占地空间。
The system is small and compact, saving space.

A胶含气量监测系统

A glue gas content monitoring system



包括两部分: 定量自动加气控制装置以及气体含量检测装置。

The system consists of two parts: A quantitative automatic gas filling control device and a gas content detection device.

气体含量检测装置安装在一级计量泵和胶桶之间;

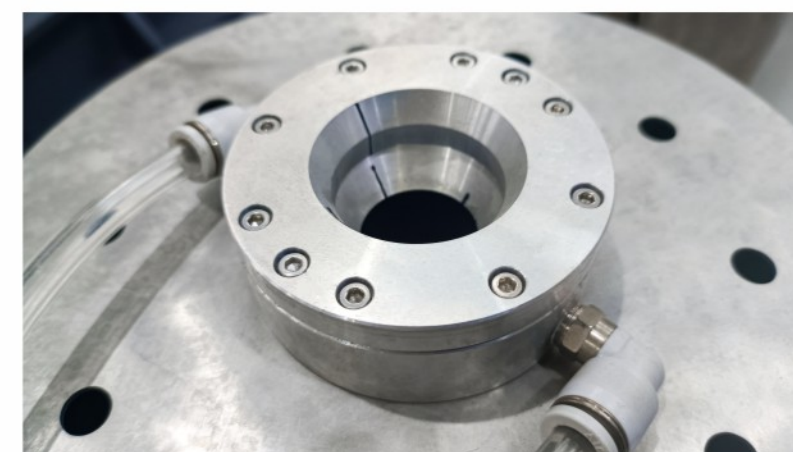
The gas content detection device is installed between the primary metering pump and the glue drum.

通过控制系统来设置含气量, 并根据设定含气量和实测含气量的差异进行自动补气。

The control system sets the gas content and automatically replenishes gas based on the difference between the set and measured gas content.

吹气断胶装置

Air blowing glue cutting device



替代刮胶功能, 可以自动吹走出胶嘴上的拉丝状的残余胶水, 保证每次接头准确, 无接痕。

This replaces the scraping function and automatically blows away residual glue from the nozzle, ensuring precise, seamless joints every time.

提高胶条接头的稳定性, 减少胶水滴落工件、污染产品。

This improves the stability of the strip joint and reduces glue dripping onto the workpiece and contamination.

提高生产效率: 通过自动化的吹气断胶功能, 可以提高涂胶机的工作效率, 减少人工干预, 提高生产效率;

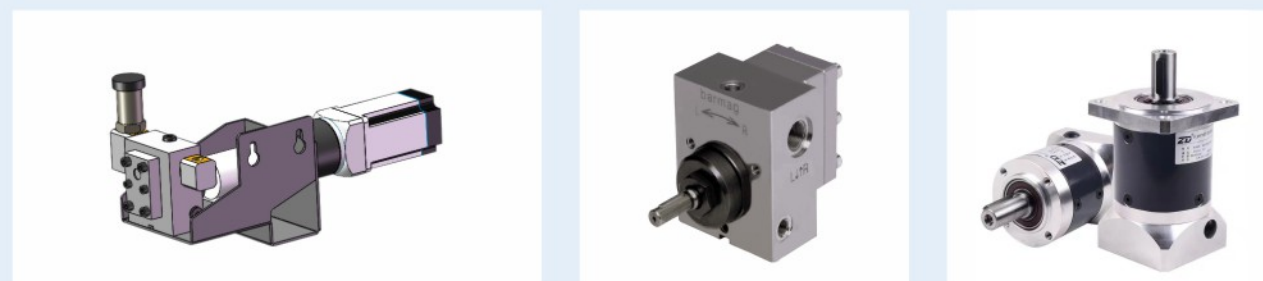
Improves production efficiency: The automated air-blowing glue-off function improves the efficiency of the glue applicator, reduces manual intervention, and increases production efficiency.

改善工作环境: 可防止滴胶, 避免胶水污染工作环境, 改善工作条件。

Improves the working environment: This prevents glue dripping and contamination, improving working conditions.

计量泵

Dosing pump



胶液计量泵选用德国巴马格齿轮泵，精密度高，保证供料系统的精准供料；采用伺服电机加精密减速机驱动，保证计量精度。

Dosing system is equipped with global advanced German Barmag high-precision dosing pump. Servo motor and precision reducer combined drive the dosing pump to ensure more precise feeding process.

通过压力传感技术监控供料系统的压力，设备运行中实时显示和监控，使系统运行更平稳。

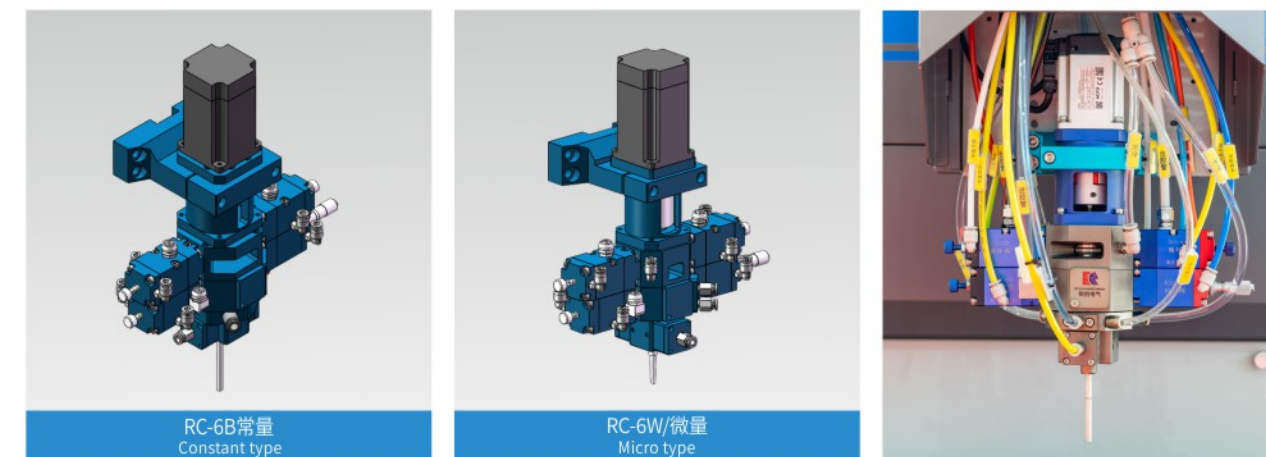
The pressure of the feeding system is monitored through the pressure sensing technology, and the real-time display and monitoring of the equipment operation make the system run more smoothly.

混胶头

Mixing Head

- ▶ 由高速伺服电机独立驱动，可根据胶液工艺需求任意调整转速及出胶量等参数，运行平稳高效；
Mixing chamber is driven by high speed servo motor, specific parameters can be adjusted according to the processing demands, smooth and efficient;
- ▶ 机头由航空铝一体加工而成，带多点位水高压冲洗，清洗干净彻底，整个机头具有恒温功能，可以精确控制机头组件的工作温度，保证混胶头长时间持续稳定工作；
The machine head is made of a single piece of aerospace-grade aluminum and features multi-point high-pressure water flushing for thorough cleaning. The entire machine head has a constant temperature function, can accurately control the working temperature of the head components, to ensure that the mixing head for a long time to continue to work stably;
- ▶ 通用式阀体设计，微量和常量混胶头均可使用，便于客户根据产品快速更换；
Universal valve body design, both micro and constant mixing heads can be used, which is convenient for customers to quickly replace according to the product;
- ▶ 主轴密封采用双层特殊机械密封，具有耐磨损，免维护，寿命长的特点；
The main spindle adopts double-layer special mechanical seal, which has the characteristics of wear resistance, maintenance-free and long life;
- ▶ 出胶阀针采用柔性不粘胶材料，阀嘴开关寿命大大延长，出胶控制准确，减少阀嘴堵胶粘胶的情况发生；
The glue valve needle is made of a flexible, non-stick material, greatly extending the lifespan of the valve nozzle switch. This ensures precise glue dispensing control and reduces occurrences of glue blockages or sticking at the valve nozzle.
- ▶ 出胶嘴快速更换功能：根据不同的工件结构、不同的胶条粗细可以快速更换不同材质、不同管径的出胶嘴，可以实现点胶、涂胶、喷胶功能。
Quick replacement of glue nozzle: According to different workpiece structure and different thickness of glue strip, glue nozzle of different material and thickness can be quickly replaced; It can realize the functions of glue dispensing, gluing and spraying.
- ▶ 胶管采用透明耐高温材料设计，便于观察胶液状态；气管采用彩色分色方案不同颜色不能功能，便于维修标记。
The hose is designed with transparent high-temperature resistant materials, which is convenient for observing the state of the glue; the air hose adopts a color separation scheme and different colors cannot function, which is convenient for maintenance and marking.

RC-6B/RC-6W混胶头 / RC-6B/RC-6W Mixing Head



- ▶ 阀体全拆组合式设计，拆卸维修保养方便，即使严重粘堵堵塞也能轻易拆解并清理，可重复使用；
The valve body is fully disassembled and combined design, which is convenient for disassembly and maintenance. It can be easily disassembled even if it is severely bonded and blocked, and cleaned and reused;
- ▶ 专利设计独特的气动机械密封胶功能，有效防止滴胶漏胶现象，接头处无明显痕迹。
The patented design of the unique pneumatic mechanical sealing function effectively prevents dripping and leaking of glue, leaving no visible marks at the joints.

RC-7B/RC-7P混胶头 / RC-7B/RC-7P Mixing Head



钛合金碟形混胶机头 Butterfly-shaped glue mixing head

1

采用一体化碟形设计,零件数量减少2/3,机头体积缩小1/2,同时Y字碟形结构在点胶过程中可以有效避免工件上的干涉结构,可以适应结构较为复杂的工件点胶;
Adopts an integrated butterfly design, the number of parts is reduced by 2/3, and the head volume is reduced by 1/2. At the same time, the Y-shaped butterfly structure can effectively avoid the interference structure on the workpiece during the dispensing process and can adapt to the structure. Dispensing of more complex workpieces;

2

机头采用轴动密封胶,有效防止机头滴胶,配合控制系统专有的点胶接头控制参数,使点出胶条接头处完美无明显痕迹;
The machine head adopts a shaft dynamic sealant, which effectively prevents the machine head from dripping glue, and cooperates with the control system's proprietary dispensing joint control parameters to make the dispensing joints perfect without obvious traces;

3

混胶头、出胶、冲洗组件为隐藏式设计,每个零件都能轻易拆解清理更换并重复使用,延长使用寿命;
The glue mixing head, glue discharging, and flushing components are of hidden design. Each part can be easily disassembled, cleaned, replaced, and reused to increase the service life;

4

多功能混胶搅拌杯,针对不同粗细的胶条无需更换混胶头就可实现快速切换;
The multifunctional mixing cup allows for quick switching between different glue strip thicknesses without needing to replace the mixing head;

5

配有多种不同类型的搅拌叶片适应不同粘稠度、不同品种的胶水,可满足双组分聚氨酯、硅胶等胶水。
Equipped with a variety of different types of mixing blades to adapt to different viscosity and different types of glue, which can meet the requirements of two-component polyurethane, silica gel and so on.

大排量RC-7P和标准机头(RC-7B)相比

Comparison between the large displacement RC-7P and the standard nose (RC-7B)

出胶量大
Large glue output

点胶速度快
Fast dispensing speed

生产效率高
High production efficiency

恒温水循环系统

→ CONSTANT TEMPERATURE WATER CIRCULATION SYSTEM

配有恒温水循环装置,加热冷却一体机。可确保机头、胶罐、所有胶路、胶管、胶液在-15°C至35°C的环境下仍可以正常工作运转。同时混胶腔为恒温结构设计,腔体内部温度稳定,不易受外部环境的干扰。

It is equipped with a constant temperature water circulation device and a heating and cooling integrated machine. It can ensure that the machine head, glue tank, all glue lines, rubber hoses, and glue liquid can still operate normally in an environment of -15°C to 35°C. At the same time, the glue mixing chamber is designed with a constant temperature structure, and the temperature inside the chamber is stable and not easily affected by the external environment.

物料工作台

→ WORKING PLATFORM

工作台 (标配)

Working Platform(Standard)



可移动钣金工作台,高强度板材,坚固、美观、耐用;

Movable sheet metal workbench, high strength plate, strong, beautiful and durable;

底部设计有万向轮,便于随时移动和固定。

The bottom is designed with universal wheels, easy to move and fix at any time.

可升降工作台 (选配)

Height Lifting Working Platform(Option)



采用工业铝型材,电动遥控工作台上下升降,可快速便捷地切换工件,省时省力,提高生产效率,坚固耐用。

Height adjustable working table is made of industrial aluminum and can switch work parts quickly and easily, great saving on time and manpower, high efficiency, the height can be adjusted by electric control, sturdy and durable.

气动交换工作平台 (选配)

Exchangeable Working Platform(Option)



批量生产效率的倍增器,具有安全性高、运行稳定可靠,故障率低、维修方便、交换速度快的特点,可适配性强。

A multiplier for mass production efficiency, characterized by high safety, stable and reliable operation, low failure rate, easy maintenance, fast exchange speed, and strong adaptability.

自动前后交替运行,快速起落,高效、安全;

Automatic alternating front and back operation, quick take-off and landing, efficient and safe;

双轨道设计,运行平稳精准;

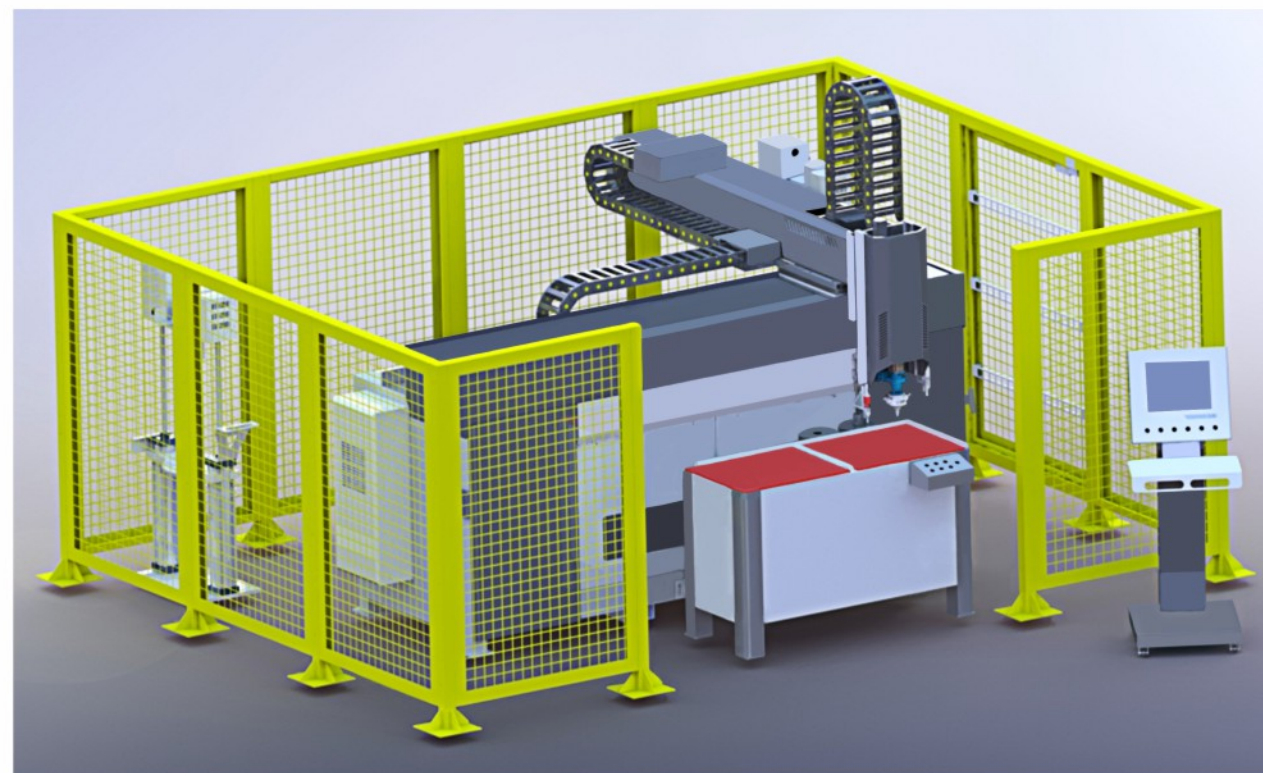
Double track design, smooth and precise running;

无杆气缸驱动,确保启动、停止平稳。

Rodless cylinder drive, ensuring smooth starting and stopping.

安全防护装置

→ SAFETY PROTECTION DEVICE



安全防护罩 Safety shield

围住设备的危险部分，防止工人接触到危险的运动部件，且具有足够的强度和透明度，以便工人可以观察到机器的运行情况。

Enclosing the dangerous part of the equipment, preventing workers from touching the dangerous moving parts, and with sufficient strength and transparency so that workers can observe the operation of the machine.

安全光幕 Safety light curtain

安装在设备工作区周围，当人员进入到设定的防护范围内时，安全光幕会发出报警并自动停止设备的运行，以避免意外伤害的发生；撤出紧急状态后，设备继续工作。

Installed around the working area of the equipment, when the personnel enters into the set protection range, the safety light curtain will issue an alarm and automatically stop the operation of the equipment in order to avoid accidental injuries; after withdrawing from the emergency state, the equipment continues to work.

安全门连锁 Safety door chain

与机械设备相连接，当门处于开启状态时，设备不会启动运行，有效阻止人员进入，确保工作人员的安全。

Connected with the mechanical equipment, when the door is in the open state, the equipment will not start running, effectively preventing people from entering, to ensure the safety of the staff.

原料自动上料及自动搅拌装置

→ AUTOMATIC RAW MATERIAL FEEDING AND AUTOMATIC MIXING DEVICE

A胶自动搅拌上料系统

Component-A automatic supply station

容量: 55 加仑 (200KG)
Capacity: 55 gallons (200KG)

仅需在控制系统中设置胶液的上下限参数，就能实现气动式加胶，省力省工；

Only need to set the upper and lower limit parameters of glue in the control system to achieve pneumatic gluing, which saves effort and labour;

自动搅拌原料: 避免原料分层而影响胶条的一致性；

Automatic mixing of raw material: Avoid raw material layering which may affect the consistency of glue strip;

系统自动监控送料: 当原料罐里的原料低于安全液位时，系统自动加料，加满后自动闭合；

The system automatically monitors the feeding: When the raw material in the raw material tank is lower than the safe level, the system will automatically refill the raw material and close it automatically when it is full;

底部装有轮子，可随时移动；同时有电动升降桶盖装置，便于更换料桶。

The bottom is equipped with wheels, which can be moved at any time; at the same time, there is an electric lifting bucket cover device, which is convenient for replacing the material bucket.



B胶自动上料系统

Component-B automatic refilling system

容量: 10 加仑或 55 加仑 (30 KG 或 200 KG)
Capacity: 10 gallons or 55 gallons (30 KG or 200 KG)

根据B胶罐的液位显示，原料低于安全液位时，可自动启动气动隔膜泵进行补料，补满后自动停止，底部装有轮子。移动方便，便于更换料桶。

According to the liquid level display of the B glue tank, when the raw material is lower than the safe level, the pneumatic diaphragm pump can be started automatically to replenish the material, and it will stop automatically when it is full, and it is equipped with wheels at the bottom. Convenient to move and easy to change the barrel.

