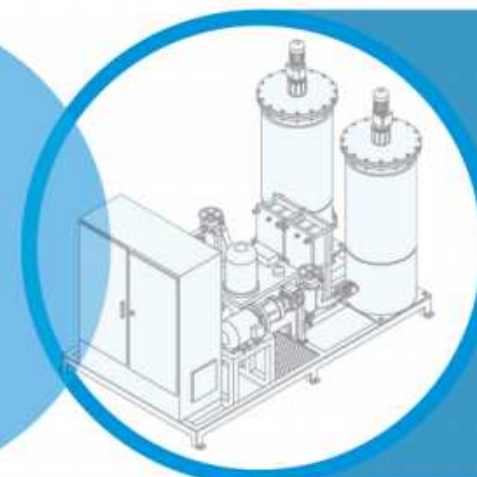


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复合材料设备专业制造商
COMPOSITE MATERIAL EQUIPMENT PROFESSIONAL MANUFACTURER



湖南精正设备制造有限公司

HUNAN JINGZHENG EQUIPMENT MANUFACTURE CO.,LTD

地址：湖南省湘潭市南岭路6号 邮编：411100

电话：0731-52338609 传真：0731-52338587

邮箱：china@jzsb.com 网址：http://www.jzsb.com

Add: No.6 Nanling Road, Xiangtan, Hunan, 411100 China

Tel: 0086(731)52338609 FAX: 0731-52338587

Web: http://www.jzsb.com E-mail: china@jzsb.com

Add: 41527 APRICOT IN FREMONT, CA 94539-4503 United States

Tel: 5105857172 (Zhou Guoyan)

湖南精正设备制造有限公司

HUNAN JINGZHENG EQUIPMENT MANUFACTURE CO.,LTD



颜剑先生
董事长

- 第九届全国“创业之星”
- 雨湖区第三届人民代表大会代表
- 湘潭市第十三届人民代表大会代表
- 湘潭市第十五届政治协商会议委员
- 湘潭市第十六届工商联常委

颜剑先生寄语：

“品质”与“服务”是精正的立身之本，也是精正的价值核心。希望我们能一直保持初心，并不断开拓创新，紧跟时代前进的步伐，在各自的岗位上发光发热，相信在精正人的共同努力下，精正公司一定能够继续乘风破浪，扬帆远航。

Mr Yan's message:

"Quality" and "Service" are the foundation and core values of JingZheng. I hope we can always maintain our original intention and constantly explore and innovate, closely Keep up with the pace of the times progress , shining in our own positions. I believe that with the joint efforts of Jingzheng people, Jingzheng Company will continue to ride the wind and waves, set sail and sail far away.

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COMPANY PROFILE 公司简介 >>>

湖南精正设备制造有限公司系从事聚氨酯装备机械设计与制造的民营科技型企业，公司成立于1993年，历经30多年的发展，现已成为我国聚氨酯装备机械的骨干企业和中国聚氨酯行业淘汰ODS的专业制造商。公司于2020年8月，在湖南股权交易所科技创新专板挂牌。

公司的主要产品为多组份聚氨酯连续发泡机，聚氨酯夹心板材连续生产线，汽车座椅及内饰连续生产线，戊烷和其他原料存储、预混及浇注设备，层压机等。服务领域涵盖冷链、保温建材、汽车座椅及内饰、家电和家具等行业。

公司有较强的技术创新能力和市场开发能力，又依托于强有力的军工技术和制造能力，具有较强的竞争实力。公司以创新的设计，精湛的制作，一流的产品和满意的服务为海尔、海信、美的、比亚迪汽车、奇瑞汽车、宇通客车、中国中车、美国李尔、美国安道拓、加拿大木桥、延锋、烟台万华、马士基等国内外众多企业提供了大量的聚氨酯系列设备，树立了良好的信誉，得到了用户的信赖，设备已出口到美国、韩国、俄罗斯、墨西哥、印度、泰国、马来西亚、印度尼西亚、越南、阿联酋、阿尔及利亚、斯里兰卡、埃及等20多个国家和地区。

目前，公司与德国、意大利、韩国等国的聚氨酯设备制造商建立了良好的合作关系。并与清华大学材料科学与工程系合作研制了“陶瓷胶态注射成型机”，是陶瓷胶态注射成型技术的重点装备，属于国家“863”计划项目。

追求专精，把全部精力集中在聚氨酯装备技术这个专业上，并抱着做大做强的决心，抱着追求尽善尽美的态度，在管理、技术、品牌、销售和服务等方面努力形成自己的核心能力和优势，这是精正公司长期坚持的经营战略。

Founded in 1993, Hunan Jingzheng Equipment Manufacture Co.,Ltd is a private science and technology professional company which is occupied in the design and manufacturer of polyurethane equipment in china and the professional manufacturer which weed out ODS entirely in Chinese polyurethane industry. On Aug.28, 2020, the company was listed on Hunan Stock Exchange STAR MARKET.

The main products of our company includes multiple continuous PU foaming machine, PU sandwich panel continuous production line, Automotive Seat and Interior continuous production line, Pentane and other material storage, premixing and injection machine, panel press machine etc. The service filed covers cold chain, thermal insulation building material, automotive seat and interior, home appliance and furniture etc.

The company has strong abilities in technical innovation and market development. As we have innovative design, consummate manufacture, first-class products and approved service, we have provided a variety of PU equipment to many enterprises in home and abroad, such as Haier, Hisense, Media, BYD Automotive, Chery Automotive, Yutong, CRRC, Lear Cooperation, Woodbridge, Yanfeng, Yantai Wanhua and Maersk group etc. For above, we not only gained good trade reputation and client trust, but also export our products to USA, Korea, Mexico, Russia, India, Thailand, Malaysia, Indonesia, UAE, Algeria, SriLanka, Egypt and others of 20 countries and regions.

The company has built harmonious cooperation relationships with many PU equipment manufacturers in Germany, Italy and Korea. Besides, we have developed a colloidal ceramic injection and curing machine with Tsinghua University material science and engineering department. This machine is a key equipment in colloidal ceramic forming technology, and it belongs to one of the projects in countries"863" plan.

Pursuing specialization, focusing all energy on polyurethane equipment technology, and holding the determination to become stronger and bigger, with an attitude of pursuing perfection, we strive to form our core abilities and advantages in management, technology, brand, sales and service. This is the long-term business strategy that Jingzheng Company has adhered to.

ELITE TEAM 精英团队 >>>



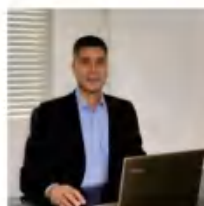
欧阳铁球

总经理—销售领军人
负责国家“863计划”；参与清华大学“陶瓷注射成型机”设计工作；主导汽车座椅泡沫生产线开发设计；湘潭市专业技术骨干人才



陈科军

副总经理—外贸排头兵
湘潭市首批高层次人才；参与两项行业国家标准的制定；参与研发多元醇全自动预混设备达到国际领先水平



李信仁

总工程师—机械人才
主导研发的双履带复合材料连续生产线具有国际先进水平；市优秀青年专业技术人才，湖南省科技进步三等奖获得者



刘 缔

总工程师—电气人才
主导株洲南车尼龙自动化生产线的电气设计开发到调试；主导俄罗斯拉达汽车内饰的双机器人四组份高压发泡设备设计

CORPORATE CULTURE 企业文化 >>>

市场是海 精正是帆

扬帆向前 坚忍不拔

精正企业愿景 Vision

坚守本心，持续提升，将公司建成世界聚氨酯装备机械行业中极有竞争力的企业。

Stick to the original heart, forge ahead, continue to improve, and strive to build a competitive world-class polyurethane equipment and machinery manufacturing enterprise.

精正企业精神 Spirit

立正：以诚为本作风求正
求精：认真严谨追求专精
务实：尊重科学实事求是
创新：开拓求新敢为人先

Standing upright: based on honesty, seeking righteousness.
Refinement: earnestly and rigorously pursue specialization.
Pragmatic: respect science and seek truth from facts.
Innovation: pioneering and innovative, dare to be the first.

精正企业使命 Mission

为用户创造价值，为员工改善生活，为社会承担责任。

Create value for users, improve lives for employees, take responsibility for society.

精正企业价值观 Values

用户至上，人才至上，效益至上，奋斗至上。

Customer first, talent first, Efficiency first, struggle first.

COMPANY GREAT THINGS 公司重大事顶 >>>



2020年8月28日，湖南精正设备制造有限公司举行科技创新专板挂牌仪式。

On August 28, 2020, Hunan Jingzheng Equipment Manufacturing Co., Ltd. held the ceremony of listing on Hunan Stock Exchange STAR MARKET.



2023.7月成功入选国家工信部专精特新“小巨人”企业名单。

In July 2023, Hunan Jingzheng successfully selected as a specialized, refined, and innovative "Little Giant" enterprise by the Ministry of Industry and Information Technology of China.

QUALIFICATION 企业资质 >>>



高压发泡机

PU high pressure foaming machine



聚氨酯高压发泡机广泛使用于家电、汽车内饰件以及保温建材产品的发泡生产。

PU high pressure foaming machine is widely used in the foaming production of home appliance, automotive interior and insulation building material products.

	100	200	300	400	500	600	700	800	900	1000	1500	2000	2500	3000	4000	5000	6000
JHF20	50	150	300														
JHF40	60			580													
JHF100	150				1500												
JHF200		260									2650						
JHF300			520													5200	

环戊烷发泡机

Cyclopentane foaming machine

环戊烷发泡机作为淘汰ODS的发泡主机，广泛应用于家电、保温等行业的发泡生产，该设备适应环戊烷发泡，配置有安全报警系统，安全性能高。

Cyclopentane foaming machine, as the main foaming machine of eliminating ODS, is widely used in the foaming production of home appliance and insulation building material etc. This equipment is suitable for cyclopentane to foam, and equipped with high performance safety alarm system.



汽车座椅四组份、六组份高压发泡机

4 or 6 components high pressure foaming machine for automotive seat



四组份、六组份高压发泡机广泛用于汽车、摩托车座椅发泡生产，根据不同的原料配方及流量比例，适应多种密度和硬度的发泡。

4 or 6 components high pressure foaming machine is mainly suitable for various density and rigidity product to foam according to different material formula and flowrate ratio, widely used in the production of automotive seat and motorcycle seat.



连续板材发泡机 Continuous sandwich panel foaming machine



用于连续板材的生产，适用于生产PUR或PIR，可以是4组份，5组份或6组份。

This foaming machine is used for the continuous production of sandwich panel, which is suitable for producing PUR or PIR, and it can be 4 components, 5 components or 6 components.



600型、900型大流量高压发泡机 600 type 900 type large flowrate high pressure foaming machine

专门针对保温管道行业开发的600型、900型发泡机用于直径1400mm甚至1800mm以上大口径保温管道的生产。每秒最大流量可以达到10-18kg。

This 600 type 900 type foaming machine is developed especially against insulation pipe industry, and widely used in the production of large diameter insulation pipe with a diameter of 1400mm or above 1800mm, max flow rate can reach 10-18Kg/second



多组份静态混合机 Multi-components static premixing machine



静态混合设备广泛应用于家电、保温行业，适用环戊烷或245fa等原料的预混。

Static premixing machine is widely used in home application and insulation industry. It is suitable for multi-components material to pre-blend such as cyclopentane, or 245fa etc material.

全自动预混系统 Full-automatic premixing system



全自动预混系统在汽车座椅发泡行业应用广泛，该预混自动化程度很高，能适应多种原料多种配比预混，并且具有自动跟踪各组份原料的流量、比例、重量，自动储存混料数据报表，控制超差报警等功能。

Full-automatic premixing system is widely used in the application of automotive seat production, with high automation, this system can be suitable for multi materials and multi formula to pre-blend, and it also has the functions of automatically tracking material flowrate, ratio and weight of each component, automatically saving blending data report and controlling alarm of exceeding-tolerance.

原料储存系统 Raw material storage system



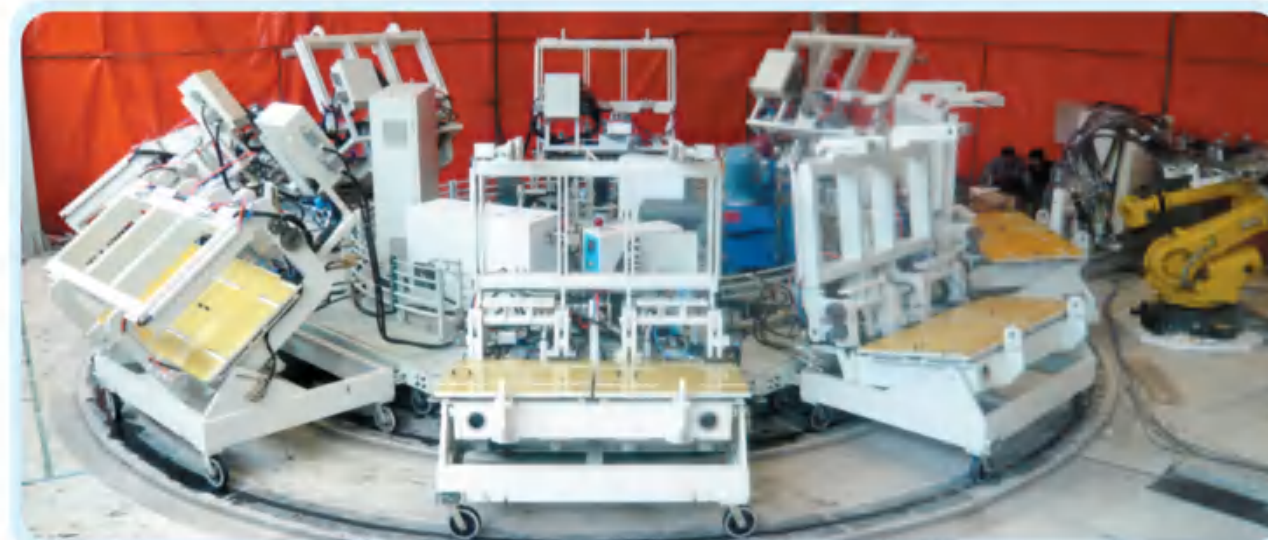
原料储存系统用于多元醇/异氰酸酯/环戊烷原料的储存，该套设备可实现从卸料，供料到输料的全部自动化。

Raw material storage system is used for storing POLY/ISO/Pentane, it also can realize the material to transfer with high automation, including unloading from truck tank and feeding to day tank.

■ 基本参数 Basic model

规格	容积	输送能力	输送压力
JWF5000	5m³	40~80L/min	0~25bar
JWF10000	10m³	40~120L/min	0~25bar
JWF15000	15m³	40~120L/min	0~25bar
JWF25000	25m³	80~160L/min	0~25bar
JWF35000	35m³	80~220L/min	0~25bar
JWF45000	45m³	80~220L/min	0~25bar

转盘生产线 Turntable production line



汽车内饰转盘生产线采用一台水平圆形转盘，通过减速机驱动，在转盘上放置液压/气动模架，自动开、合模。采用机器人自动方式浇注，适用于汽车座椅，汽车内饰件的发泡。

Turntable production line, adopting one set of horizontal round turntable, is driven by reducer to rotate, hydraulic/pneumatic cassettes are mounted on the turntable to realize the mold open and close automatically, it adopts robot to inject, widely used in the foam of automotive seat and interior.



环形生产线 Oval production line



环形生产线采用椭圆形布置，适应汽车座椅的多品种、多密度、多硬度泡沫。

Oval production line adopts ellipse to arrange, and suitable for multi type, multi density and regidity products to foam in automotive seat production.

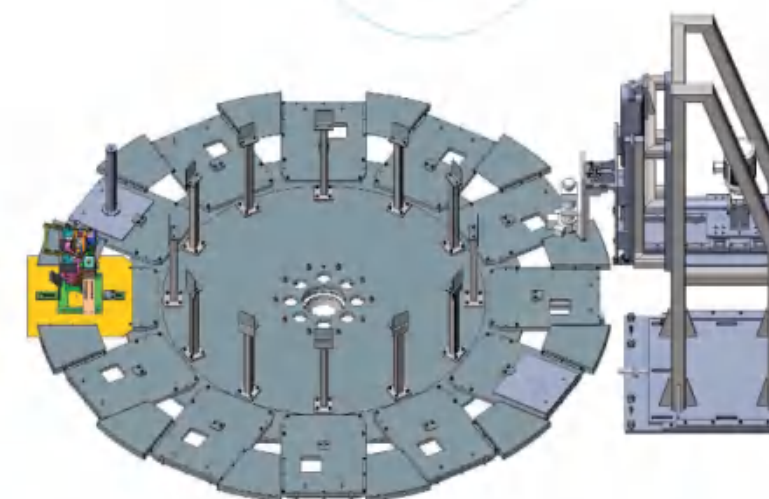


头枕发泡生产线 Headrest foaming production line



采用环形或圆形结构，适合于各种头枕、护手等小件的开模或闭模浇注。

The production line adopts oval or circle structure, suitable for various headrest, armrest and other small items to inject in mold-opening or mold-closing.



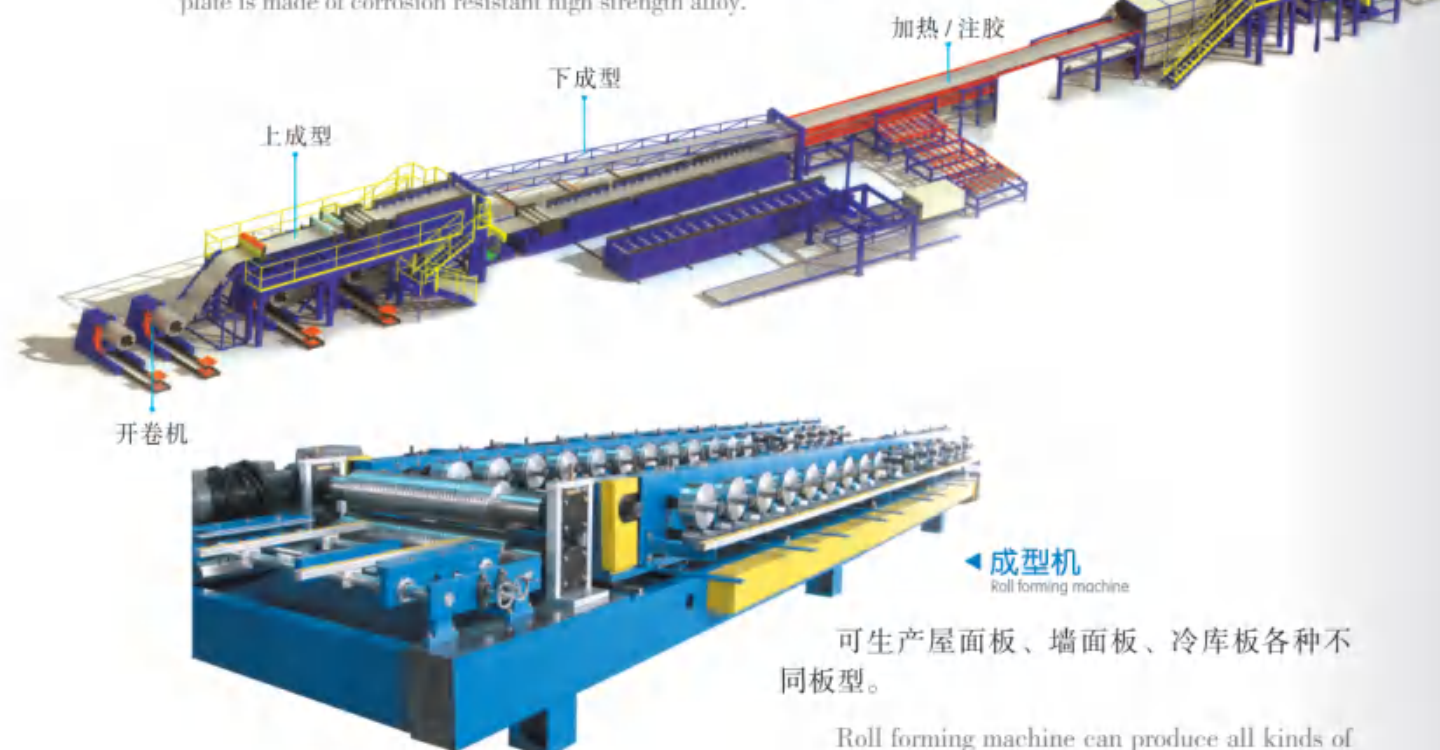
连续板材生产线

PU sandwich panel continuous production line



双履带采用电动精密丝杆上下升降，可以在运行中在线调节厚度，调节精度0.1mm；为了防止生锈，链板采用耐腐蚀高强度合金钢加工。

The double belt conveyor adopts electric precise screw to lift up and down. The thickness can be adjusted during online running, accuracy is 0.1mm, in order not to be rusty, the chain plate is made of corrosion resistant high strength alloy.

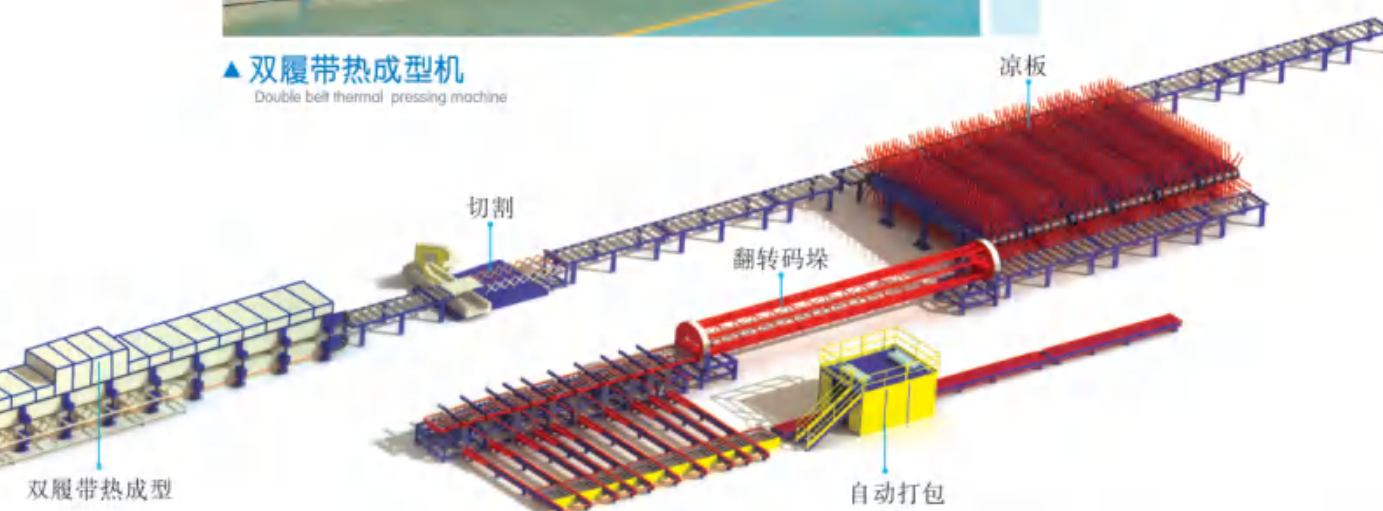


可生产屋面板、墙面板、冷库板各种不同板型。

Roll forming machine can produce all kinds of sandwich panel, such as roof panel, wall panel and cold storage panel etc.



▲ 双履带热成型机
Double belt thermal pressing machine



▲ 多组份发泡机
multiple component high pressure foaming machine

适合于生产PUR或PIR,可以是两组份、四组份或六组份,也可以预留环戊烷发泡接口。

It is suitable for the production of PUR or PIR, it can be 2 components, 4 components or 6 components, and extended interface is reserved for pentane foaming.



▲ 布料装置
Roll forming machine

采用一个或两个混合头交叉布料,伺服驱动,布料精准。

One or two mixing heads are adopted for raw material crossing distributing. In order to make the raw material distributed evenly, it adopts servo motor to drive.

连续板材生产线 PU sandwich panel continuous production line



▲ 开卷机
Decoller



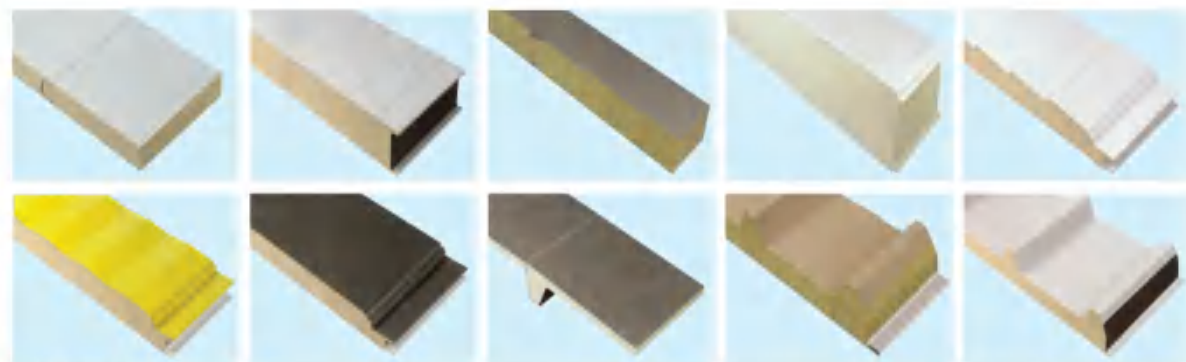
▲ 切割机
Cutting Machine



▲ 翻转码垛系统
Turnover and stacker system



▲ 凉板系统
Panel cooling system



▲ 板型图
Panel profiles

岩棉板上料切割机 Rock wool board feeding cutting machine



用于矿物棉的装载、切割、补料和自动排料。

It is used for the loading, cutting, feeding and auto tidying of the mineral wool.

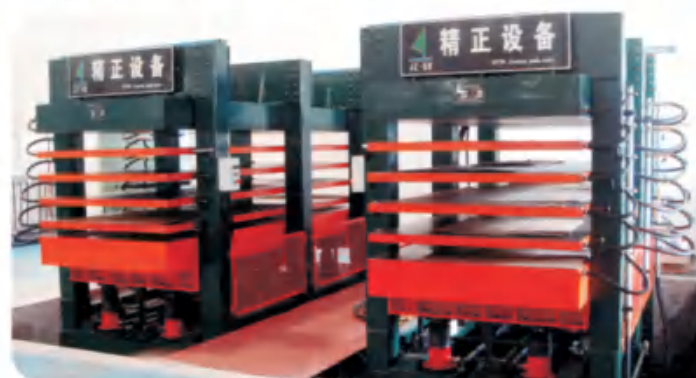
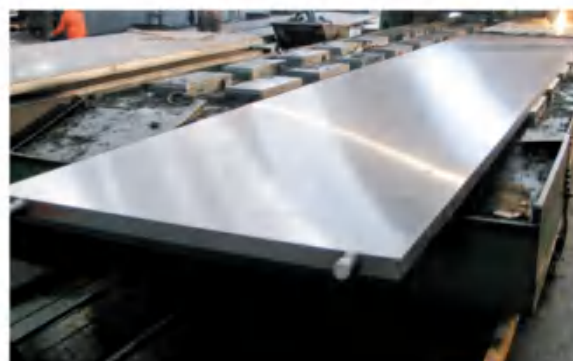


层压设备 Press machine



用于非连续方式生产面层为彩钢，镀锌板，中间夹芯PU的三明治板，最大长度15000mm,最大宽度3200mm,厚度50~200mm的单层或多层，多工位层压机。

The press machine is used for discontinuous production of pu sandwich panel, facing sheet of which is color steel or galvanized sheet. There are single layer, multi layers and multi station type for the machine, maximum length can reach 15000mm, and 3200mm for maximum width. The thickness can be adjusted from 50-200mm.



破泡机 Crusher



机械及真空开泡机主要应用在软泡的生产破泡，可以根据客户的要求设计不同型号规格。

Mechanical & vacuum crusher is mainly used in the crushing of flexible foam, different specification can be designed according to customer's requirements.



模架 Mold Base



各类气动、液压模架主要用于汽车方向盘、座椅、仪表盘以及冰箱、冷柜发泡生产。

Various pneumatic and hydraulic mold base are used for the foaming production of automotive steering wheel, seat, instrument board, as well as refrigerator and freezer.



智能注胶机 Intelligent glue injection machine

注胶机是湖南精正设备制造有限公司在整合国外技术基础上，自主研发的产品。广泛应用于汽车、航空航天、风电、冰箱等行业。设备具有重复注射精度高、混料均匀、性能稳定、操作简便、生产效率高等特点。

注胶机分为两种类型：环氧型注胶机和聚氨酯型注胶机。

Glue injection machine is developed by Hunan Jingzheng Equipment Manufacturing Co., Ltd. on the basis of integrating foreign technology. Widely used in automotive, aerospace, wind power, refrigerators and other industries. The equipment has the characteristics of high precision of repeated injection, uniform mixture, stable performance, simple operation and high production efficiency. Glue injection machine is divided into two types: Epoxy type glue injection machine and polyurethane type glue injection machine.



可用于纤维缠绕、树脂传递模塑（RTM）复合纤维浸渍、树脂传高压成型（RTM）和挤拉成型工艺的复合纤维浸渍。

此种注胶机是一种紧凑型、无需溶剂冲洗的定量和混合系统。它用于处理中等偏低粘度多组份介质，如聚氨酯和环氧树脂，以生产纤维加强塑料。

It can be used for fiber winding, resin transfer molding (RTM) composite fiber impregnation, resin transfer high pressure molding (RTM) and extrusion process of composite fiber impregnation. This glue injection machine is a compact, solvent-free quantitative and mixing system. It is used to treat medium to low viscosity multi component media such as polyurethane and epoxy to produce fibre reinforced plastics.

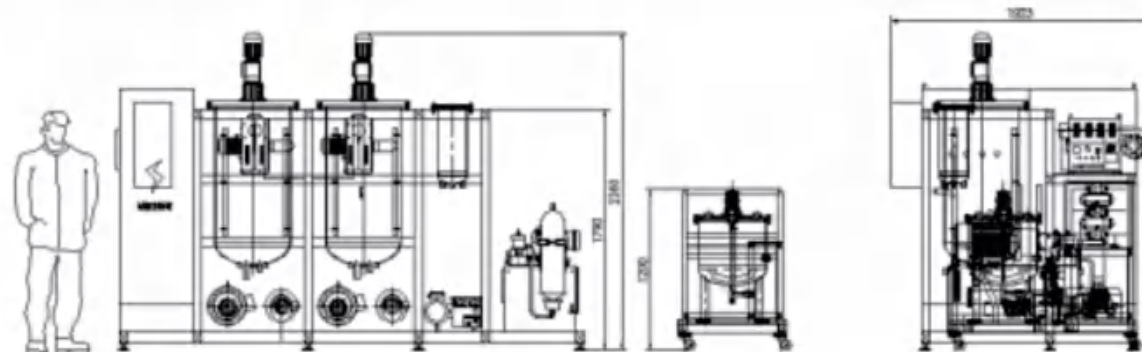
■ 技术数据 Technical data

流量	最高4L/min，取决于混合比例和粘度
混合比例	100: 100至100:10，按体积计算
最大工作压力	最大70bar
混合系统	静态混合
料罐	60L
粘度范围	100至50000mPas（根据处理温度）
原料	聚氨酯、环氧树脂
原料特性	不含填料
电源供应	3 × 380V/50Hz/32A
最大进气压力	最大6bar
尺寸（L × W × H）	约1000 × 1000 × 1400mm
重量	约450kg

JZ-HP-RTM注胶机 JZ-HP-RTM injection machine

传统的树脂传递模塑成型工艺(RTM)因大量手工作业,一般需较长的工艺时间。精正的JZ-HP-RTM设备可使传统树脂传递模塑成型工艺(RTM)和高压技术相结合。新技术具有较高的自动化程度和较短的生产周期,能够有效的提高效率和产品质量。除聚氨酯应用外,该高端设备即便其基本配置,也可以加工环氧树脂和聚酰胺。

The traditional resin transfer molding (RTM) process usually takes a long time because of a lot of manual work. The refined JZ-HP-RTM device combines traditional resin transfer molding (RTM) with high pressure technology. The new technology has a high degree of automation and short production cycle, can effectively improve the efficiency and product quality. In addition to polyurethane applications, the high grade end device can process epoxy and polyamides even in its basic configuration.



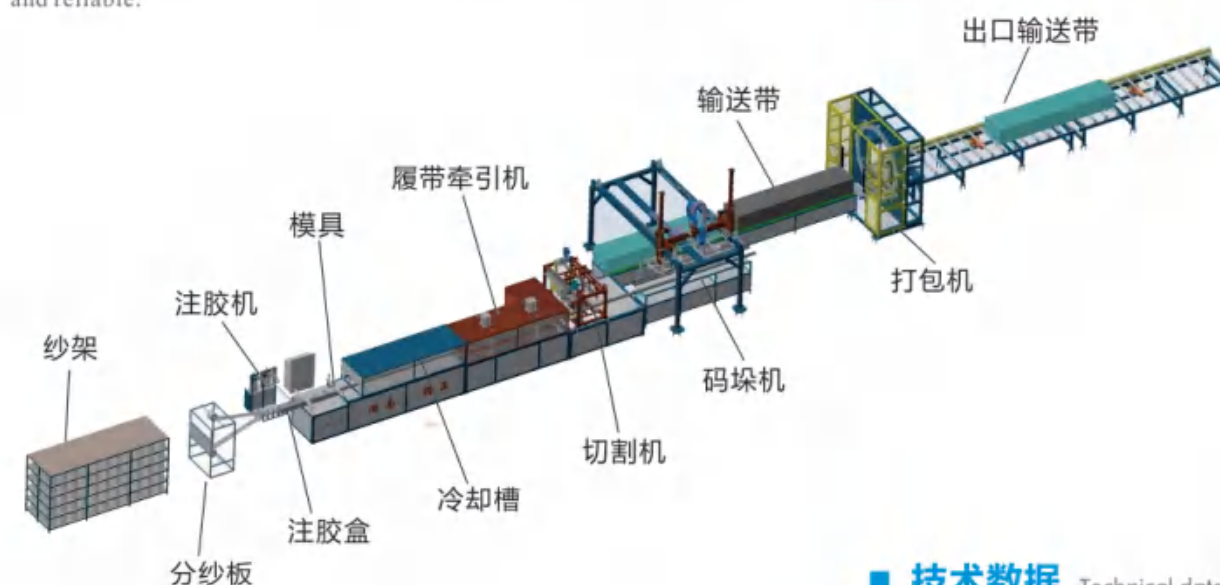
■ 技术数据 Technical data

流量范围	6~250ml/s, 取决于混合比例和粘度
混合比例	100:35:2至100:20:2, 按体积计算
最大工作压力	最大200bar
混合系统	高压碰撞混合
料罐	20L/60L/300L
粘度范围	100至10000mPas (根据处理温度)
原料	聚氨酯、环氧树脂、己内酰胺
原料特性	不含填料
电源供应	3 × 380V/50Hz/32A
最大进气压力	最大6bar
尺寸 (L × W × H)	约3450 × 1600 × 2380mm
重量	约2500kg

履带牵引式拉挤机 JZ-HP-RTM crawler traction pultrusion machine

设备主要用于复合材料型材的拉挤成型,生产线主要由收卷设备、切割设备、牵引设备、计米装置、模具、胶槽组成。设备框架选用优质型材板材焊接加工,加工零件均自主加工,机械部分质量可靠,结构稳定,电气部分采用西门子系列,安全稳定可靠。

The equipment is mainly used for the extrusion molding of composite material profiles. The production line is mainly composed of winding equipment, cutting equipment, traction equipment, length counting device, mould and Glue groove. The machine frame is welded with high quality profiles, the parts are all processed independently, the mechanical part is reliable in quality, the structure is stable, the electrical part aclopt Siemens series, safe, stable and reliable.



■ 技术数据 Technical data

设备最大夹持力	6T/12T
牵引速度	0.1~1.5m/min
夹持空间	350 × 80mm
夹持长度	1900mm
履带传动功率	5.5kw
温控加热范围	0~250℃
收卷直径	Φ 1700mm
温控精度 (表控)	± 1℃
设备总功率	28kw
电源供应	3 × 380V/50Hz
最大进气压力	最大6bar
尺寸 (L × W × H)	约25 × 3 × 2.2m

安全系统
Safety system



Drager 监测控制系统
Drager monitored control system



生产线报警系统
production line
alarm system



MSA 气体报警控制系统
MSA gas alarm system



气体报警控制系统
gas alarm system

备品备件 Spare part



电器控制元件

Electrical control elements

流量计系列

- ◆德国VSE齿轮(蜗轮)式流量计
- ◆德国KRACHT齿轮(蜗轮)式流量计

Flow meter series
VSE gear(turbine) type flow meter from Germany
KRACHT gear(turbine) type flow meter from Germany



各类磁性联轴器

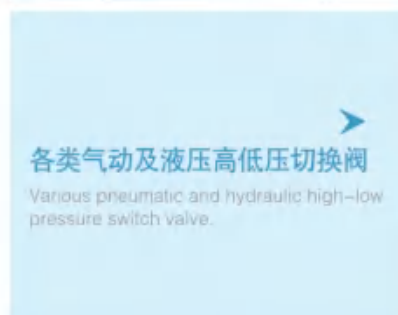
- ◆配置在高压计量泵上的磁性联轴器
- ◆配置在输送齿轮泵/螺杆泵上的磁性联轴器
- ◆配置在料罐搅拌上的磁性联轴器

Various magnetic coupling
Equipped on the high pressure metering pump
Equipped on the delivery gear pump/screw pump
Equipped on the agitator of material tank

混合头系列

适用于硬泡、软泡及自结皮发泡的各类混合头。

Mixing head series
Various mixing heads are used for rigid, flexible and integral skin foaming.



各类气动及液压高低压切换阀

Various pneumatic and hydraulic high-low pressure switch valve.



各类泵组

- ◆力士乐系列高压计量泵
- ◆各类聚氨酯原料输送泵

Various pump
High pressure metering pump-Rexroth series
Delivery pump for polyurethane material



产品实例 Product examples



出口至印度 汽车座椅环形生产线
Export to India Oval production line for car seats



出口至墨西哥 多元醇自动预混系统
Export to Mexico Automatic pre-mixing system for polyols



汽车座椅知名企业 PIP头枕线和发泡设备
Renowned enterprise in automotive seats
PIP headrest production line and foaming machine



湖南本土企业 聚氨酯连续板材生产线
Hunan Local Enterprise Polyurethane continuous sandwich panel production line



活动剪影 Activity silhouette



中国复合材料行业员工素质与实践能力提升培训班 2023年7月16日



经典客户 Key client

汽车行业 Automotive industry



家电行业 Appliance industry



保温建材行业 Insulation building materials industry

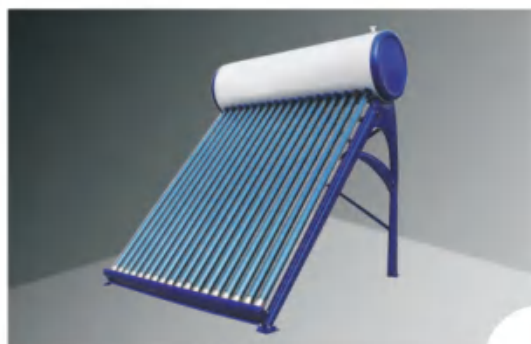


应用领域 Application field

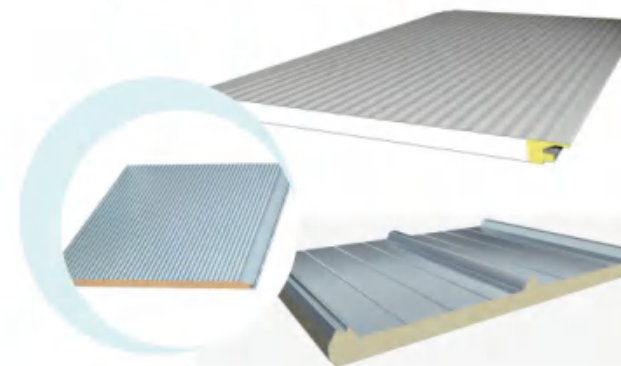
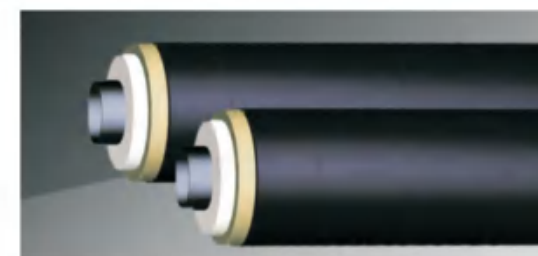


▲在汽车领域的应用

In the application of automotive



在电气制造业的应用
In the application of electrical appliance manufacturing



▲建材及保温管道的应用

In the application of insulation construction material and pipe

▼在家具家居的应用

In the application of furniture and home appliance



▼在风电领域的应用

In the application of wind power



营销网络
 Marketing



精诚合作 共创未来

创新竞争
 追求卓越
 精工制作
 诚信经营
 用户至上
 合作双赢