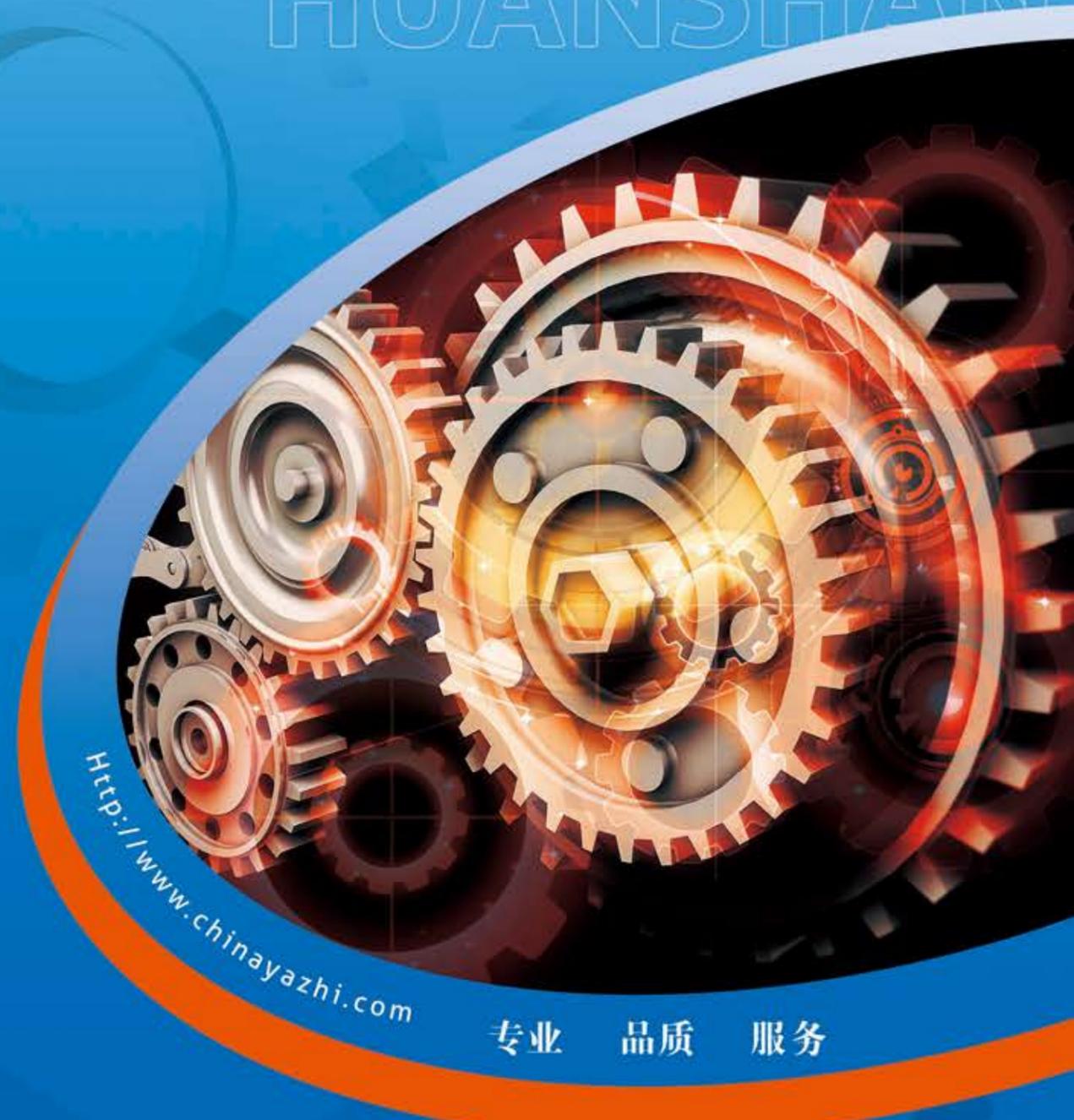




环山机械
HUANSHAN MACHINERY

HUANSHAN



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专业 品质 服务



泉州市豐澤雅志電池機械設備有限公司
Quanzhou Yazhi Storage Battery Machinery CO.,LTD.

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环山机械
HUANSHAN MACHINERY
跨越极限&行业领先
Beyond Limit&industry-leading



宗旨

Objectives

专业铸造品质，用心服务社会

To specialize in quality, and to serve the society wholeheartedly.

核心價值觀

Core Values

环保和质量同行，创新与企业共存

To ensure quality standards and maintain environmental protection, and to keep in mind the coexistence of innovation and enterprise.

經營理念

Management Concept

效率出自科学管理，效益缘于客户满意

Efficiency stems from a scientific management, and the profit comes from a satisfied customer.

服務理念

Service Concept

发掘客户所想，满足市场所需

To learn what the customers want, and to satisfy the needs of the market.

Corporation Introduction

企
业
简
介

泉州市丰泽雅志电池机械设备有限公司位于福建省泉州市丰泽区普贤路中段墩厚工业区，公司成立于1985年，二十多年来，公司长期致力于“环山”牌系列铅酸蓄电池极板生产成套设备、蓄电池组装成套设备的研发和制造，并逐步在铅酸蓄电池行业树立了“环山机械”的优质品牌。

公司拥有专业研发团队和高素质的经营团队，并有稳定的技术员工队伍，可确保产品质量长期稳定可靠。公司经过多年的研发和制造，结合国内外众多大型电池极板生产厂商的经验，逐年对公司产品升级换代，使产品更加适应蓄电池极板制造工艺，保证极板质量要求。

公司产品主要有包板机、铸焊机、固化干燥系统、铅粉球磨机组、合膏机组、切粒机组、烘干线等，顺利通过ISO9001:2000国际质量体系认证。产品行销全国各地，并出口到印度、越南、孟加拉、泰国、巴基斯坦埃及、印尼等国家和地区。公司良好的品牌形象、稳定可靠的质量、高效快捷的售后服务网络，赢得了广大用户的认可和推崇。

公司秉承“环保和质量同行，创新与企业并存”的核心理念，保护环境、保证质量，创新技术，创造价值。与时代同步，“环山”机械将以更好的品质，更周到的服务赢得您的信赖与支持。环山机械竭诚与您共创美好明天！

QUANZHOU YAZHI STORAGE BATTERY MACHINERY CO., LTD, founded in 1985, was located in Dunhou Industrial Zone, Mid-Puxian Road, Quanzhou City, Fujian Province. Since its establishment, it has been focusing on developing and manufacturing complete production equipment for serial lead-acid battery plate and complete sets of equipments for storage battery of "Huanshan" Brand, and it has gradually set up a famed brand of "Huanshan" in the field of lead-acid battery.

The company has two professional working groups respectively dealing with development and management, three of whom are senior engineers and fifteen are engineers. And we have a group of skilled personnel who can ensure the secular stability and reliability of product quality. Basing on many years' development and research, and introducing experiences from domestic and foreign large-scaled battery plate manufacturers, we have gradually upgraded and updated our products, which makes our products much more adaptable to the manufacturing process of storage battery plate and it meets the requirements on the quality of battery plate.

The products produced in our company include curing and drying system, Oxide mill, Cos, AGM stacker paste mixing machine, dicer cutter and drying line, etc. We have passed ISO9001:2000 International Quality System Certificate and our products were sold well in home market. We have exported our products to Vietnam, Bangladesh, Thailand, Pakistan, India, Egypt, Indonesia and some other countries and districts. We have won approval and good fame from general consumers with good brand image, stable and reliable quality and effective after-sales service network.

Our company follows a core concept of "environment protection goes along with quality, creation coexists with enterprise". So we concern more about environmental protection when guaranteeing quality, innovating new tech and creating value. We are keeping in step with the times, so "Huanshan" Machinery will win your trust and support with better quality and more considerate services. "Huanshan" Machinery will together with you, create a bright future with all our heart!

Http://www.chinayazhi.com



HSBP-B多通道边负极边隔板小密电池全自动高速包板机

HSBP-B Multichannel Side Negative Plate Side Separator AGM Wrapping And Stacking Machine For VRLA Battery

性能优势

环保: 整机全密闭设计, 负压式作业, 低耗, 高效, 环保。

稳定: 整机运行非常稳定; 极少卡板, 极板报废率极低; AGM隔板无损输送。

用工成本低: 自动整形, 自动包OPP膜, 具有自动边隔板, 自动补边隔板功能; 快速更换AGM隔板, 一键恢复连续作业, 整机部件寿命长, 维护费用低。

预警报警: 实时监控整机运行状态, 监测运行故障, 报警提示处理方法。

PERFORMANCE ADVANTAGE

Environmental Protection: Whole machine adopts fully enclosed design, works under negative sucking pressure, low energy consumption, high efficiency, environmental protection.

Stable: Machine runs always steadily; Almost no plate be jammed or damaged, very low plates rejection rate; AGM supply without damage.

Low labor cost: Automatic shaping, automatic wrapping OPP film, with automatic edge and negative plate, automatic edge repair partition function; rapid replacement of AGM partition, one key to resume continuous operation, long life of the whole machine components, low maintenance costs.

Warning and alarm: Running status monitor constantly, failure indicate and solve method remind.



摩天轮式中密电池包板机

AGM Wrapping And Stacking Machine For Medium Size VRLA Battery

- 包正极, 单、双层隔板均可
- 采用可编程控制器, 运行稳定精确
- 整机负压集尘环保
- 操作简单, 维护方便
- 极群自动覆膜

- Equipment performance: Positive wrapped, single-layer and double-layer AGM can be used
- Using programmable controller, the operation is stable and accurate
- Negative pressure dust collection of the whole machine is environmentally friendly
- It is easy to operate and maintain
- Group automatic film covering



主要技术参数main technical parameters

电源(Power source)	AC 220V
气源(Air source)	0.5—0.8MPa 洁净干燥空气(clean and dry air)
额定功率(Rated power)	≤2.5KW
生产效率Work efficiency	
12V12Ah	8小时≥850台(7正8负) 8 hours more than 850 Batteries (7 positive and 8 negative)
12V20Ah	8小时≥1400台(4正5负) 8 hours more than 1400 Batteries (4 positive and 5 negative)
极群合格率(Acceptance rate of plate group)	≥99.9%
极板报废率(Rejection rate of plate)	≤0.5% (报废率极低)
整机尺寸(Overall size) : 长3070X宽1930X高1780 (mm)	整机重量(Weight): 1200Kg
适用极板尺寸(Applicable plate size): 宽40-70mm, 高70-135mm (不含极耳/Not including lug)	

主要技术参数main technical parameters

电源(Power source)	AC 220V
气源(Air source)	0.5—0.6MPa 洁净干燥空气(clean and dry air)
额定功率(Rated power): ≤4KW	整机耗气量: 0.3m ³ /min
生产效率Work efficiency	
3+4-	90-112台/H电池 (12V电池) / 90-112Sets/H batteries (12V batteries)
4+5-	72-90台/H电池 (12V电池) / 72-90Sets/H batteries (12V batteries)
5+6-	60-75台/H电池 (12V电池) / 60-75Sets/H batteries (12V batteries)
6+7-	52-64台/H电池 (12V电池) / 52-64Sets/H batteries (12V batteries)
7+8-	45-56台/H电池 (12V电池) / 45-56Sets/H batteries (12V batteries)
极板报废率(Rejection rate of plate)	≤0.5%
整机尺寸(Overall size): 长4000X宽2330X高1970 (mm)	整机重量(Weight): 2300Kg
可更换极板型号(Replaceable plate model)	

HSZH-01 COS For VRLA Battery

This equipment is mainly designed to: cast and weld of medium and small lead-acid batteries and automatically slot battery groups, instead of the shortcomings of manual welding, it saves labor and material cost, features high efficiency and clean and green production.



Technical parameters:

Casting and welding speed: 50 ~ 100 seconds / cycle
Air Source: Compressed Air 0.6MPa、 Air consumption 1m³/min
Water consumption: 2L ~ 4L/min
Appearance dimension:1100mm(L)X1200mm(W)X 2650mm(H)
Net weight: approximate 1T

Applicability:

Motorcycle Battery
UPS Battery
Electric vehicle batteries
Other batteries

Applicability to battery grid:

Lead-antimony alloy grid
Lead-calcium alloy grid
Lead-antimony-cadmium alloy grid



Water Cooling Tank System

Lug Cutting And Brushing Machine

合膏机系列

Serials of HGJ Paste Mixing Machine Set



主要技术参数:

生产能力: 200KG~1000KG/批
主电机功率: 7.5KW~45KW
合膏时间: 20min~50min
铅粉计量精度: 0.15%
酸水计量精度: 0.15%

Technical Parameters:

Production: 200KG~1000KG/Batch
Main Motor:7.5KW~45KW
Mixing Time:20min~50min
Oxide Weighing Precision:0.15%
Acid And Water Weighing Precision:0.15%

QMJB 系列铅粉球磨机组

本系列铅粉机组采用专用轴承，取消旧式托轮结构，传动效率大大提高，寿命延长100%以上，避免因托轮磨损造成的定期调整齿轮间隙，减少维护工作。本系列产品安装简便，操作方便，铅粉质量稳定，视密度在1.2~1.6之间可调，氧化度在65~85%之间可调。

The lead oxide ball mill set adopts special bearings, instead of old supporting roller structure, which greatly improved the drive efficiency and doubled its operational life span. Thus it avoided to regularly adjust gear clearances caused by wear and tear of supporting rollers, and lessened the load of maintenance. The installation and operation of serial products is simple and convenient. The quality of lead powder is guaranteed and stable. The apparent density between 1.2 and 1.6 is adjustable; and the oxidizability between 65% and 85% is adjustable.



QMJB Serial Oxide Ball Mill Set

主要技术参数/Main technical parameters:

筒体直径 (Diameter of barrel body)	Φ1350~Φ1600mm
筒体长度 (Length of barrel body)	1450~2000mm
生产率 (Production rate)	4~14T/D
视密度 (Apparent density)	1.2~1.6
主机功率 (Efficiency of main machine)	30KW~75KW
氧化度 (Oxidizability)	65%~85%

ZLJ-20 铸粒机

ZLJ-20 Lead Cylinder casting Machine



技术指标

- 1、铅粒尺寸: $\Phi 20 \times 20 \text{mm}$
- 2、铅柱重量: 约60~80g
- 3、生产能力: 600~800kg/h

Technical Parameters:

1. Lead Cylinder Size: $\Phi 20 \times 20 \text{mm}$
2. Lead Cylinder Weight: about 60~80g
3. Production Capacity: 600~800 kg/h

HSGG型固化干燥系统

HSGG curing and drying system

本厂历经多年实践,分析国内外众多极板生产厂家固化干燥方案的利弊,设计出具有国内先进水平的HSGG型固化干燥系统。

本系统具有以下主要特点:

- a、按型式可分为固化干燥一体化或固化干燥分离式;
- b、按燃料品种可分为电热式、燃油式或蒸汽式,由用户自由选择;
- c、固化干燥一体室采用变频器调节,使固化阶段与干燥阶段分别具有最合理的循环风量;
- d、采用温湿度一体传感器,耐高温高湿,仪表经久耐用;
- e、温湿度控制完全自动化,确保极板固化、干燥效果,消除人为因素影响;
- f、优异的结构设计确保室内温湿度均匀一致,气流分布合理;
- g、固化、干燥高效,节约能耗与时间;
- h、可分段自由设定固化干燥过程的温度值和湿度值及时间等工艺参数

主要技术参数:

室内空间	30m ³ ~60m ³	温度	室温~80℃,精度±2%	湿度	~100%RH,精度±3%
循环风量	3000m ³ /h~18000 m ³ /h	风机功率	3kw~11kw	压缩空气压力	0.6Mpa~0.7Mpa



HSGG型固化干燥系统 HSGG curing and drying system



固化干燥室外部设备布置
Layout of external equipment of curing and drying room

HSGG型固化干燥系统

HSGG Curing And Drying System

Combining with many years' practicing experiences and analyzing the advantages and disadvantages of curing and drying system produced by many manufacturers at home and abroad, we have designed HSGG curing and drying system which reached a domestic advanced level.

The major features of this system:

- It can be classified into integrative curing / drying and separated curing / drying by mode.
- It can be classified into electric heating, fuel or steam heating by sorts of fuels. Users can freely select by themselves.
- Wind rate in the room of integrative curing / drying is adjusted by frequency converter which can ensure the most reasonable circulating air during curing stage and drying stage.

- It adopts humidity-integrated transducer. It bears high temperature and humidity and its meters wear well.
- The control on temperature and humidity is totally automatic. It can ensure the effect of plate curing and drying, and avoid the impact of human factors.
- Excellent structural design could ensure the temperature, humidity and airflow in the room to be well distributed and reasonable.
- Effective curing and drying will save energy and time.
- The processing parameters, such as the values temperature and humidity and time, can be freely set into different stages during the course of curing.

Main technical parameters:

Space of room: 30~60m³

Room temperature: ~80℃, precision: ±2%

Humidity: ~100%RH, precision: ±3%

Circulating air: 3000m³/h~18000m³/h

Power of fan: 3kw~11kw

Pressure of compressed air: 0.6Mpa~0.7Mpa



特殊蒸汽水雾喷头
Special-steam Water Spray Nozzle



固化室控制柜
Control Panel Of Curing Room



固化室内部管道布置
Arrangement of interior piping of Curing Room

HSGG-03 型固化干燥室 Plate curing and drying chamber

蓄电池行业理想的专用设备



极板固化干燥室是蓄电池生产工艺过程中的关键设备。本厂生产的燃油(气)的HSGG-03型固化干燥室,为紧凑型智能设备。按操作方式可分为手动和全自动两种方式,用户可根据实际情况进行选择。在无人值守的情况下,可自动完成极板的固化干燥全过程,是目前蓄电池行业理想的专用设备。

Plate Curing and Drying chamber is the key equipment during producing storage battery. Our HSGG-03 (gas or fuel) Curing and drying chamber is a compact and intellectualized equipment. For the operating mode, there are two. One is hand operating; the other is auto operating. Users can choose the best one basing on their own status. It can auto finish plate curing and drying without anyone stays or takes care, which is considered as the best specialized equipments in storage battery industry.

产品特点(Features)

- ◆ 选用进口的燃烧机,质量稳定,燃烧效率高。
We choose the imported burner which has steady quality and high burning efficiency.
- ◆ 选用大风量风机,运行可靠,传热及时,布风均匀。
We also choose the strong wind blasting blower which works steady, transfers heat timely and blasts evenly.
- ◆ 采用最新变频技术调整风量。
In the meantime, we adopt the latest frequency inverter technology to adjust the wind of blast blower device, which can provide proper air flow in the processes of curing and drying.
- ◆ 采用高效的雾化喷嘴,确保极板固化过程所需要的氧气和水份,湿度上升迅速。
The atomized muzzle is also adopted in this equipment, which assure enough oxygen and water in the process of plate curing, and raise the humidity rapidly.
- ◆ 采用密闭的热交换箱体,散热面积大,充分利用热能,热效率高,温升快,缩短极板干燥时间。
The adopted hermetic heat exchange box, radiates to large area. It has high heating efficiency that heats in high speed and shortens time for drying plate.
- ◆ 采用进口的温湿度传感器,耐高温,寿命长。
However, the imported humiture sensor is resistant in high temperature and has long life time.
- ◆ 采用可编程控制器(PLC)及触摸屏,控制可靠,用户可根据工艺要求分段设定固化干燥过程的温度值、湿度值和时间值等工艺参数,具有超温限制功能,确保极板质量安全。
The programmable logic controller (PLC) and touch screen is reliable in controlling. User can separately set the parameters of temperature, humidity and time, etc according to the different requirements of technology in curing and drying process. It also has the function of limit for temperature exceeds that assure the safety of plate.

技术参数(Specifications)

温湿度控制范围 THE CONTROLLED HUMITURE RANGE	温度:室温-85℃ 湿度:~100%RH
控制精度 THE CONTROLLED PRECISION	温度:±1℃ 湿度:±2%RH
控制方式 CONTROLLING MODE	可编程分段控制 PROGRAMMING SEPARATE SECTION CONTROL
加热方式 HEATING MODE	循环热风 HOT BLAST CIRCULATING
加湿方式 HUMIDIFYING MODE	低压蒸汽与雾化水 LOW-PRESSURE STEAM AND ATOMIZED WATER
室内空间 SPACE	30M ³ ~60M ³
标准尺寸 STANDARD DIMENSION	L5m*W3m*H3m
循环风机功率 POWER OF CIRCULATING BLASTING BLOWER	5.5kw~11kw
水压力 WATER PRESSURE	0.4MPa~0.6MPa
压缩气体压力 COMPRESSED AIR PRESSURE	0.4 MPa~0.8MPa
耗油量(0#柴油、液化气) FUEL CONSUMPTION (0#DIESEL, LPG)	3~6KG/H



JBHG 型低氧保护气氛极板连续快速烘干线

整机全程根据各段设定参数值自动控制燃料消耗，从而实现烘干温度自动控制。
采用高温保护气氛作为加热介质，快速干燥，有利于极板抗氧化。
采用无极调速，连续运行，全程烘干时间从20min~100min, 根据工艺要求调节。
隧道各段温度根据工艺要求自由设定，自动控制。
燃料使用柴油或液化气

External dimensions: 25mX0.8mX1.8m (L.W.H)
The maximum applicable sheet grating standard:
400mmX250mm (W.H)
Productive capacity: 3000~5000sheet/hour (negative plate)
2000~3000sheets/hour (positive plate)
Water content of plate \leq 0.3%
Oxidizability \leq 7%

外形尺寸：总长25mX宽0.8mX总高1.8m
适用最大板栅规格：宽400mmX高250mm
生产能力：负极3000~5000片/小时
正极2000~3000片/小时
极板含水率 \leq 0.3%
氧化度 \leq 7%



链条/Chain



Control Panel

JBHG Dring Oven After Formation

The complete machines can automatically control the drying temperature according to value set in each stage of the entire course about automatic control on fuel consumption.
We use high temperature as heating medium to quickly dry the products, and it will be favorable to oxidation resistance of plate.
We adjust speed by consistently operating speed stepless, the entire process of drying takes time of 20min to 100min. We can adjust the time according to the requirement of process. The tunnel temperature of each section can be freely set and controlled according to the requirement of process.
The fuel we use is diesel oil or liquefied gas.

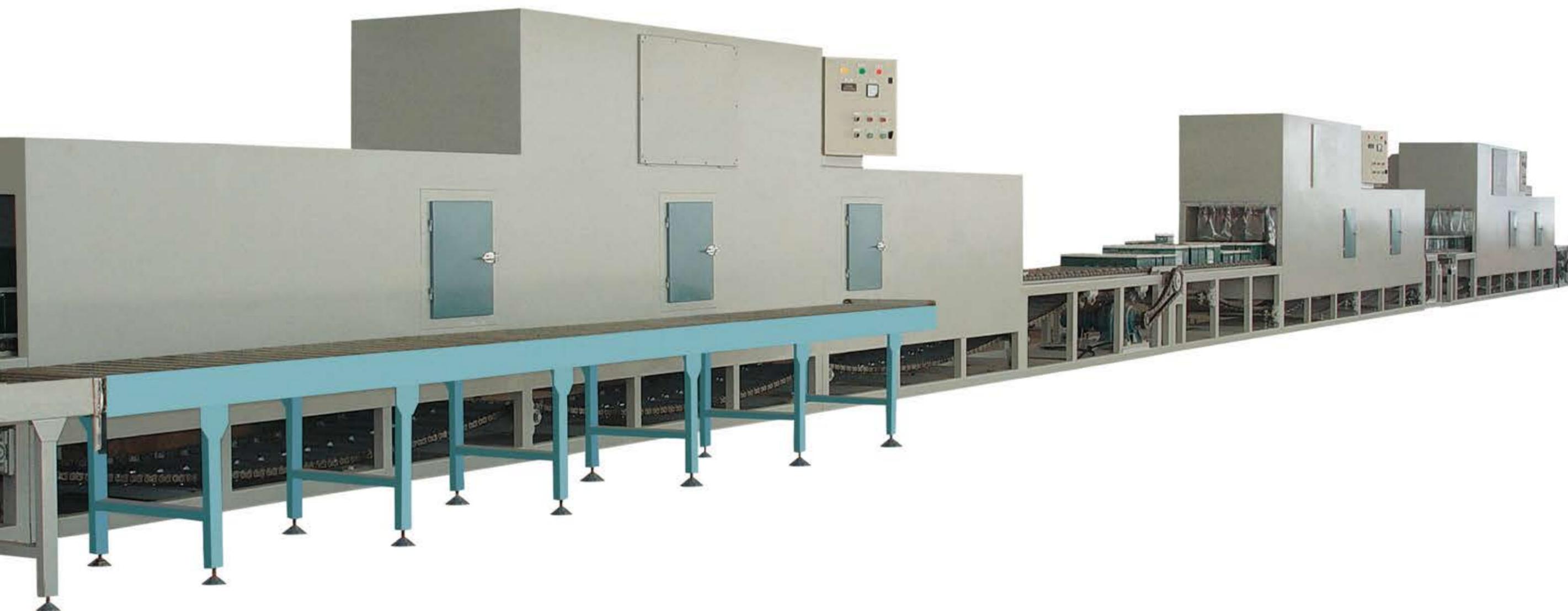


小密电池，电动车电池组装线

主要用于小密电池，电动车电池的组装工艺流程，可实现极群焊接、焊过桥、槽盖胶封固化、焊端子，底胶色胶固化。整条线全自动输送，可班产 4000 台电池（以 12V10Ah 电池为例）。

Small VRLA, E-Bike Battery Assembly Line

Mainly used for small VRLA battery, e-bike battery assembling, such as plate pack welding, bridge welding, case-cover epoxy curing, terminal weding ,color epoxy curing etc, This line is fully automatically coveying line,production: 4000 pcs/shift (Take 12V10Ah battety for example)



BGD-03 型极板表面干燥机

Plate surface drying line

本厂生产的BGD-03型极板表面干燥机是极板涂膏后的专用表面快速干燥设备, 加热介质为天然气或液化气, 该机具有结构合理、操作方便、生产效率高等优点, 适用于与涂板机配套使用的专用设备。

Our BGD-03 plate surface drying line is a special fast surface drying machine for pasted plates. It is characterized by reasonable structure, simple operations, and high productivity. It is a special machine used with the plate pasting machine.

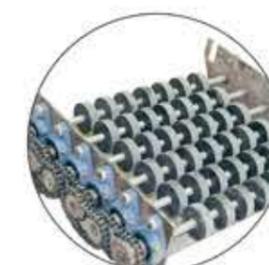


本设备主要由燃烧系统、热风循环系统、极板输送系统、电气控制系统组成。

This machine mainly consists of the combustion system, heated air circulation system, plate conveying system, and electrical control system.

产品特点(Features)

- ◆ 采用全自动的燃烧器, 先进的燃烧技术, 使燃气充分的燃烧, 热效率高, 温升快。
It adopts the full-automatic burner and advanced combustion technique and fuel gas is fully burned with high heat efficiency and quick temperature rise.
- ◆ 采用双面热风烘干技术, 使极板表面在短时间达到干燥效果。
It adopts double-surface heated air drying technique to make the surface of plates get drying quickly.
- ◆ 选用大风量排湿风机, 及时抽走热风中的水份。
It uses the large capacity dehumidification fan that dehumidifies heated air in time.
- ◆ 采用变频器无级调速, 操作方便简单。
It owns inverter speed regulation, providing you with convenient and simple operations.
- ◆ 采用智能仪表温度恒温控制, 使温度更加稳定。
It has intelligent-instrument constant-temperature control to make temperature more stable.
- ◆ 采用特殊结构、特殊材质链条, 耐腐蚀, 长寿命。避免链条跳动损坏极板, 避免因酸碱腐蚀或静电腐蚀过早破坏链条。
It uses special structure and special material to prevent being rotten, and so can get long life, and to avoid vibration or being rotten that will cause the chain spoiled and shorten its life.



技术参数(Specifications)

外型尺寸 DIMENSION	长13.8米 × 高2.7米 × 宽0.8米 13.8M (LENGTH) × 2.7M (HEIGHT) × 0.8M (WIDTH)
适用最大极板尺寸 APPLICABLE MAXIMUM PLATE	长360毫米 × 宽160毫米 × 厚4毫米 360MM (LENGTH) × 160MM (WIDTH) × 4MM (THICKNESS)
生产能力 PRODUCTION CAPACITY	80-160片/分钟 80-160 PCS/MIN
整机功率 TOTAL POWER	16KW
加热介质 HEATING MEDIA	天然气/液化气 NATURAL GAS/ LPG (LIQUEFIED PETROLEUM GAS)
耗气量 (液化气) GAS CONSUMPTION (LPG)	6-11KG/H
干燥最高温度 MAXIMUM DRYING TEMPERATURE	- 250℃/





QL型切粒机组

QL Lead Dice Cutter Set

本机组由熔铅炉、冷却转盘和切粒机三部分组成，具有产量高、维护少、易于操作等优点，是理想的铅粒成型设备。

生产能力：800kg/H

熔铅炉分电热式及燃油式，电热功率36kw，燃油消耗4kg/H。

冷却水消耗300kg/H

切粒机功率2.2kw

熔铅炉温度上、下限自行设定，自动控制。

This machine set was consisted of lead melting furnace, cooling rotary disk and dicer cutter, which has merits of high output, less maintenance and easy operation. It is an ideal dicer cutter.

Productive capacity: 800kg/h

There are two types of lead melting furnace, namely electric heating lead melting furnace and fuel lead melting furnace. The power of electric heating is 36kw, while fuel consumption is 4kg/h.

Consumption of cooling water: 300kg/h

Power of dicer cutter: 2.2kw

The upper and lower temperature limit of lead melting furnace will be set and automatically control of itself.



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