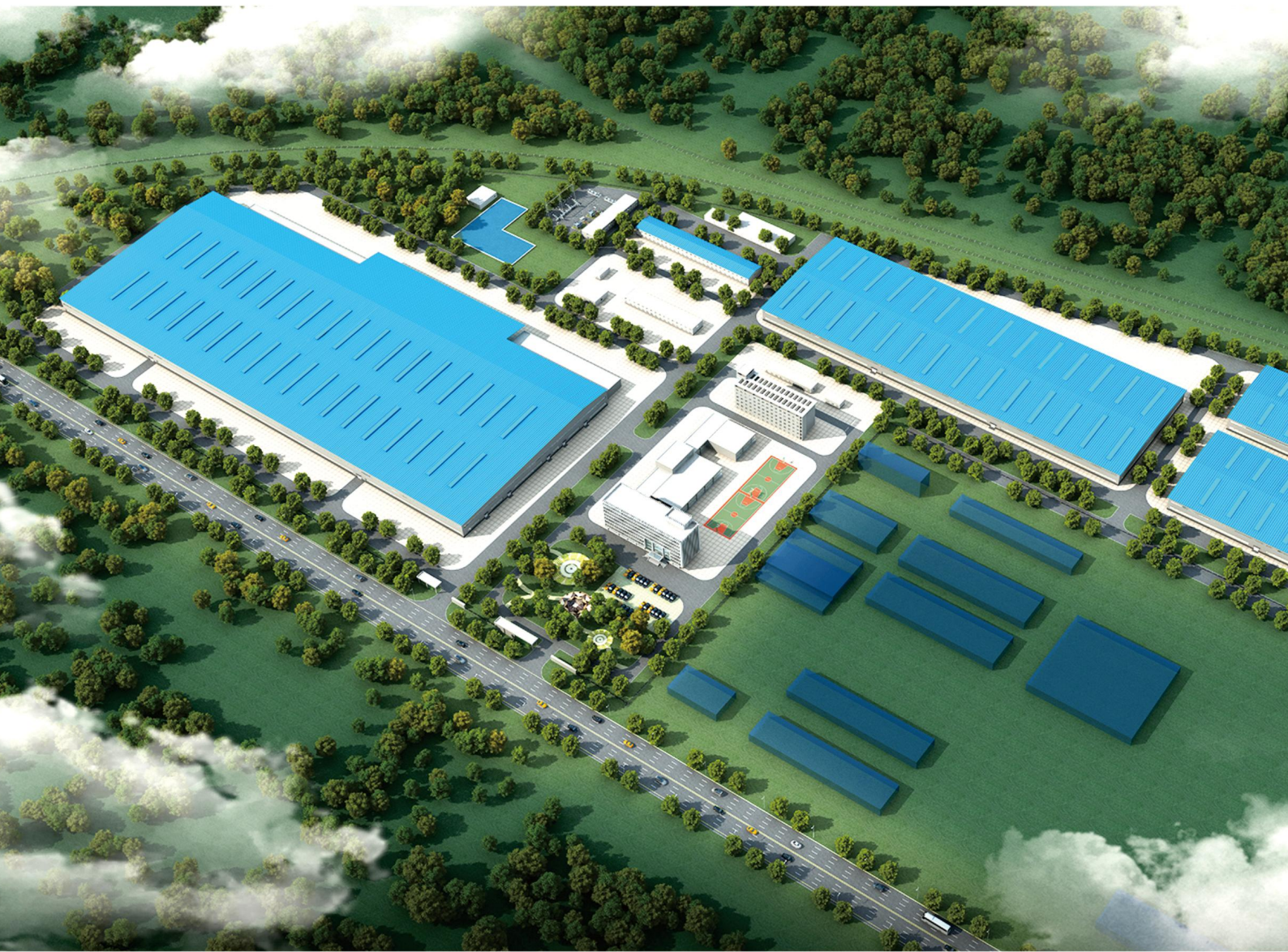




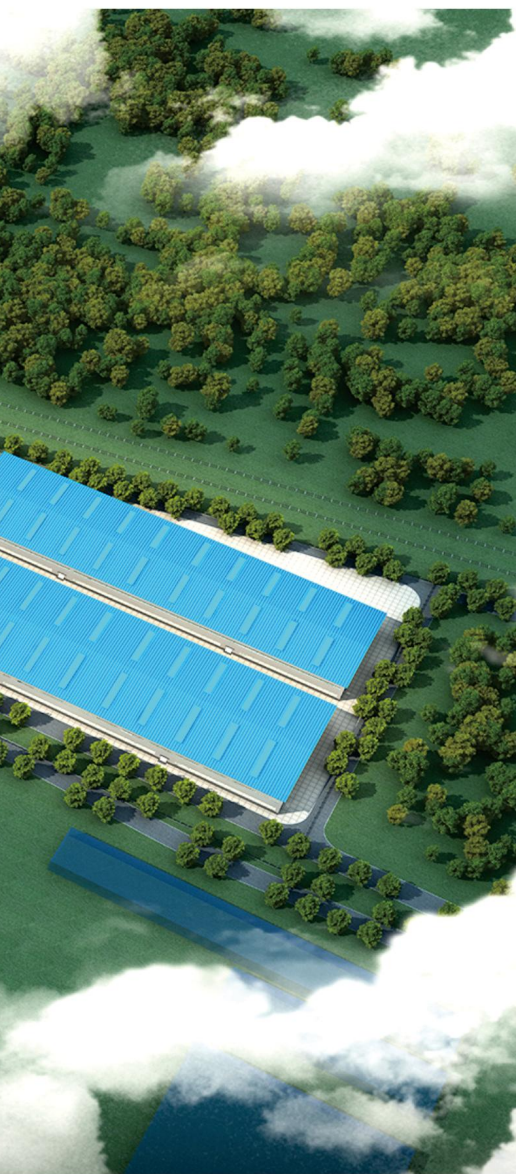
# 吉林巨晟轻合金有限责任公司

## JILIN JU SHENG LIGHT ALLOY CO.,LTD

- 团结
- 创新
- 技术
- 梦想
- Unity
- Innovation
- Technology
- Dream



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# 公司 简介

## COMPANY PROFILE

公司成立于2020年5月，是以铝合金板带、箔材生产及其制品加工等为主的民营企业，是辽源市打造“高精铝+轨道列车”产业集群重点支柱企业。

公司现有“年产12万吨高精度大规格铝合金板带箔材生产线”和“年产10万吨再生铝和6万吨铝箔生产线”，可为国内外市场提供高品质、高性能、高精度的铝合金板带、箔材等系列产品。同时可为新能源汽车、动力电池、储能电池、固态电池等相关电子设备，提供轻量化铝加工材料及电池箔、电池壳等配套产品。

公司先后通过ISO9001质量管理体系、ISO14001环境管理体系、ISO45001职业健康安全管理体系、IATF16949质量管理体系认证。

未来公司产品主要以生产汽车轻量化材料、新能源电池箔、电池壳为核心，持续研发高附加值产品，进一步延长产业链条，增加产品附加值、优化相应的配套服务、建立稳固的销售渠道、不断提高市场竞争力，以专立业、以质取胜，努力将公司打造成为国际高精铝产业基地。



## 年产量 (Annual production capacity)

再生铝  
recycled aluminum

**100000** 吨  
(tons)

双零箔、电池箔等系列产品  
double zero foil, battery foil etc.

**60000** 吨  
(tons)

铝铸轧卷  
aluminum cast-rolling coils

**70000** 吨  
(tons)



Our company was established in May 2020 and is a private enterprise mainly engaged in the production of aluminum alloy plates, strips and foils, as well as the product processing. It is a key pillar enterprise in Liaoyuan City to build a "high-precision aluminum+rail train" industrial cluster.

The company currently has a production line with an annual output of 120000 tons of high-precision and large-sized aluminum alloy plates, strips and foils, as well as a production line with an annual output of 100000 tons of recycled aluminum and 60000 tons of aluminum foil. We can provide high-quality, high-performance, and high-precision aluminum alloy plates, strips, foils, and other series of products for foreign and domestic markets. At the same time, We can provide light weight aluminum processing materials, battery foils, battery shells and other accessory products for new energy vehicles, power batteries, energy storage batteries, solid-state batteries and other related electronic equipments.

Our company has passed ISO9001 Quality Management System, ISO14001 Environmental Management System, ISO45001 Occupational Health and Safety Management System, and IATF16949 Quality Management System certifications.

In the future, Our company's products will mainly focus on the production of light weight materials for automobiles, new energy battery foils, and battery shells. We will continue to research and develop high value-added products, further extend the industrial chain, increase product added value, optimize corresponding supporting services, establish stable sales channels, continuously improve market competitiveness, and strive to be professional, to win by quality, to create a high-precision aluminum industrial base.



# 产品介绍

## PRODUCT INTRODUCTION



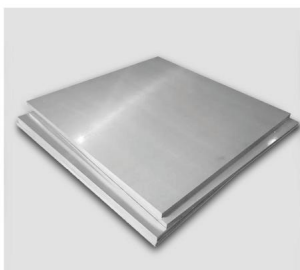
公司产品主要应用于汽车、交通运输、制罐、建筑装饰、医药等领域。公司产品在板型质量、表面质量、尺寸精度等方面都达到了先进水平。

主要产品如下：高档宽幅铝箔坯料、电池壳板材、电池壳、双零箔、电池箔、涂碳箔、易拉罐盖料、烟箔、电缆箔、药用箔、家用箔、复合箔、利乐包、蒸煮袋箔、金卡箔、热封箔、酒标箔等。

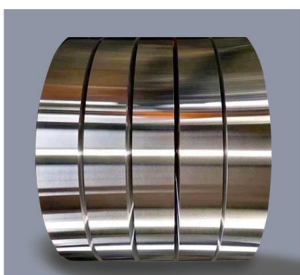
Our company's products are mainly used in fields such as automobiles, transportation, can making, building decoration, medicine, etc. The company's products have reached the advanced level in terms of plate quality, surface quality, dimensional accuracy, etc.

The main products are as follows: high-grade wide aluminum foil blanks, battery shell plates, battery shells, double zero foils, battery foils, carbon coated foils, tank cover material, tobacco foils, cable foils, medical foils, household foils, composite foils, tetra pak, cooking bag foils, gold card foils, heat sealed foils, wine label foils, etc.

## 板带材 PLATE AND STRIP



板带材 plate		合金(alloy) 1100/1235/3003/5182/8079	
宽度(width) Max.2100mm	厚度(thickness) 0.15~4.5mm	卷径(roll diameter) Max. $\phi$ 2800mm	



带材 strip		合金(alloy) 1100/1235/3003/5182/8079	
宽度(width) Max.2100mm	厚度(thickness) 0.15~4.5mm	卷径(roll diameter) Max. $\phi$ 2800mm	



铝卷 roll		合金(alloy) 1100/1235/3003/8079	
宽度(width) Max.2100mm	厚度(thickness) 0.15~4.5mm	卷径(roll diameter) Max. $\phi$ 2800mm	

## 罐盖料 TANK COVER MATERIAL

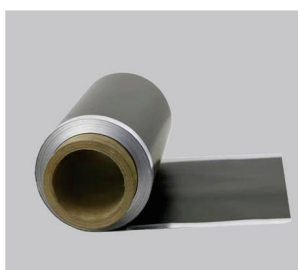


罐盖料 tank cover material		合金(alloy) 5182	
宽度(width) Max.2100mm	厚度(thickness) 0.15~0.30mm	卷径(roll diameter) Max. $\phi$ 2800mm	

## 电池箔 BATTERY FOILS

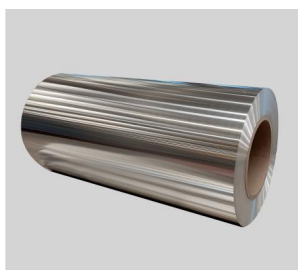


双面光电池箔 double-sided light battery foils		合金(alloy) 1060/1100/1235/3003
宽度(width) 150~1600mm	厚度(thickness) 0.009~0.02mm	卷径(roll diameter) Max. $\phi$ 800mm



涂碳箔 carbon coated foils		合金(alloy) 1060/1100/1235/3003
宽度(width) 150~1600mm	厚度(thickness) 0.009~0.02mm	卷径(roll diameter) Max. $\phi$ 800mm

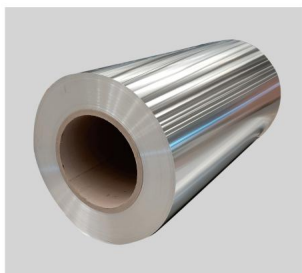
## 双零箔 DOUBLE ZERO FOILS



烟箔 tobacco foils		合金(alloy) 1235/8079
宽度(width) 400~1700mm	厚度(thickness) 0.0055~0.007mm	卷径(roll diameter) Max. $\phi$ 800mm

金卡箔 gold card foils		合金(alloy) 1235/8079
宽度(width) 300~1600mm	厚度(thickness) 0.006~0.015mm	卷径(roll diameter) Max. $\phi$ 300~800mm

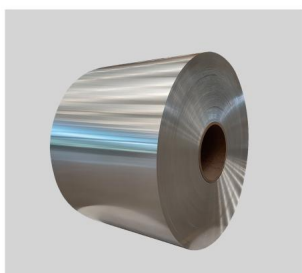
## 双零箔 DOUBLE ZERO FOILS



利乐包 tetra pak		合金(alloy) 1235/8079
宽度(width) 300~1600mm	厚度(thickness) 0.006~0.007mm	卷径(roll diameter) Max. $\phi$ 300~800mm

蒸煮袋箔 cooking bag foils		合金(alloy) 8011/8079
宽度(width) 300~1600mm	厚度(thickness) 0.006~0.015mm	卷径(roll diameter) Max. $\phi$ 300~800mm

## 单零箔 SINGLE ZERO FOILS



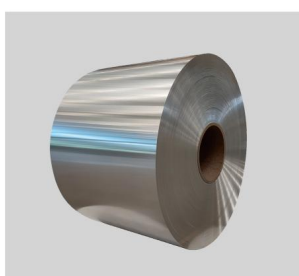
药箔 medical foils		合金(alloy) 8011/8021
宽度(width) 200~1700mm	厚度(thickness) 0.01~0.03mm	卷径(roll diameter) Max. $\phi$ 800mm

电缆箔 cable foils		合金(alloy) 1145/1235/8011
宽度(width) 200~1700mm	厚度(thickness) 0.05~0.2mm	卷径(roll diameter) Max. $\phi$ 800mm

家用箔 household foils		合金(alloy) 8011
宽度(width) 200~1700mm	厚度(thickness) 0.007~0.05mm	卷径(roll diameter) Max. $\phi$ 800mm

## 单零箔 SINGLE ZERO FOILS

热封箔 heat sealed foils		合金(alloy) 8011
宽度(width) 200~1600mm	厚度(thickness) 0.008~0.03mm	卷径(roll diameter) Max. $\phi$ 300~800mm



复合箔 composite foils		合金(alloy) 1235/8011/8079
宽度(width) 200~1600mm	厚度(thickness) 0.006~0.03mm	卷径(roll diameter) Max. $\phi$ 300~800mm

酒标箔 wine label foils		合金(alloy) 8011
宽度(width) 200~600mm	厚度(thickness) 0.09~0.105mm	卷径(roll diameter) Max. $\phi$ 300~800mm

## 电池壳 BATTERY SHELLS



刀片电池壳 blade battery case		合金(alloy) 3003
宽度(width) 按客户 by customer	厚度(thickness) 0.3~4.5mm	卷径(roll diameter) 按客户 by customer



冲压电池壳 stamped battery case		合金(alloy) 3003
宽度(width) 按客户 by customer	厚度(thickness) 0.3~4.5mm	卷径(roll diameter) 按客户 by customer



# 企业优势

## ENTERPRISE ADVANTAGES



### 品质稳定是我们对您永恒的承诺

我们凭借先进的技术、国内外先进的设备和科学化的管理，从工艺、选料、生产、检查、成品、物流等各个环节严格把关、紧密配合，为您提供质量稳定可靠的优质产品。

### Reliable quality is our permanent promise

We rely on advanced technology, advanced equipments at home and abroad, and scientific management to strictly control and closely cooperate in various aspects such as technology, material selection, production, inspection, finish product, and logistics, so we can provide you with high-quality products with stable and reliable quality.



## 一、产品高标准 HIGH PRODUCT STANDARDS

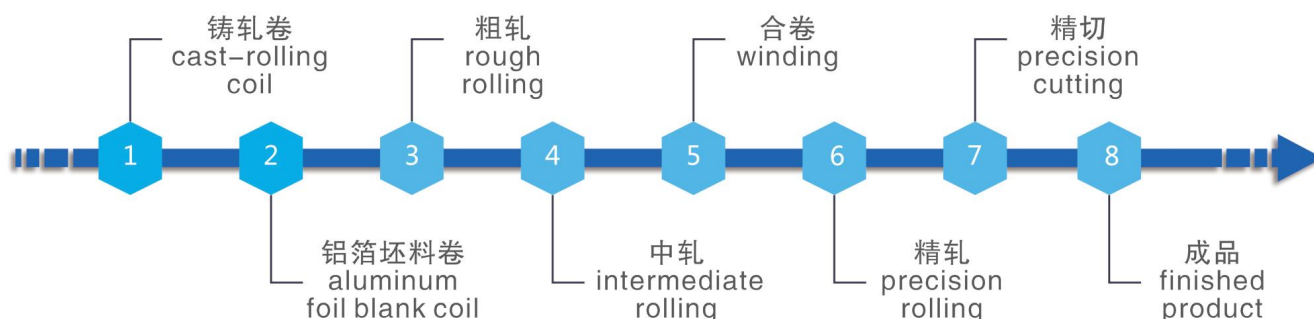
厚度 thickness	双零箔最小厚度可达到 0.005mm。 The minimum thickness of double zero foil can reach 0.005mm.
高强度 high strength	达到 270Mpa 甚至 300Mpa 以上。 reach 270Mpa or even above 300Mpa.
表面达因值 surface dyne value	电池箔产品表面达因值大于35。 The surface dyne value of battery foil products is greater than 35.
板形 plate shape	在8N/mm <sup>2</sup> 张力测试下，无边部波浪、中间波浪、二肋波浪、复合波浪。 Under the tension test of 8N/mm <sup>2</sup> , there are no edge waves, intermediate waves, two rib waves, and composite waves.
切边 trimming	电池箔卷端面光滑、无毛刺、铝粉量少。 The end face of the battery foil roll is smooth, without burrs, and has a small amount of aluminum powder.
表面针孔 surface pinhole	厚度12-13 μm达到0个，厚度0.01mm达到3-5个。 Thickness 12-13 μm reaches 0 hole, thickness of 0.01mm reaches 3-5 holes.
表面除油 surface degreasing	电池箔产品半个月内使用，可以保证34-35达因值。 Battery foil products can be used within half a month, ensuring a value of 34 to 35 dynes.
电池箔幅宽 battery foil width	最大2100mm。 max.2100mm

## 二、产品质量可靠 RELIABLE PRODUCT QUALITY

公司凝聚了一批本行业优秀的生产、技术、研发、经营、管理等相关专业人才，其中具有中、高级职称的专业技术人员125人。我们铝箔产品具有完整的产业链，每个环节都严格把控，产品质量从根源上就得到保证。主要生产工艺为：

The company has gathered a group of excellent professional talents in production, technology, r&d, operation, management, and other related fields, including 125 professional and technical talents with intermediate and senior professional titles.

Our aluminum foil products have a complete industrial chain, with strict control over every link, ensuring product quality from the root. The main production process is as follows:



## 三、国内外先进生产设备 ADVANCED PRODUCTION EQUIPMENTS

### 1、德国西马克(SMS)CVC-6辊2350mm冷轧机

#### German SMS Siemag CVC-6hi 2350mm cold rolling mill

由德国西马克（SMS）设计并制造的CVC-6辊2350mm冷轧机，主要用于铝及铝合金板带冷压延加工。该轧机采用大卷宽幅高速轧制，显著提高生产效率及生产能力；轧机配备完善的厚度自动控制系统(AGC)、板型自动控制系统（AFC）以及过程自动控制系统。2350mm轧机最小成品厚度0.1mm，最高速度1800m/min，成品卷重Max.30t。

The CVC-6hi 2350mm cold rolling mill designed and manufactured by German SMS Siemag is mainly used for cold rolling processing of aluminum and aluminum alloy plate and strip. The mill can roll large-size coil of wide-width with high-speed, significantly improving the productivity and production capacity; the mill is equipped with a perfect automatic gauge control (AGC) system, automatic flatness control (AFC) system and process automatic control system. The minimum thickness of the finished product processed by 2350mm mill is 0.1mm, its maximum speed is 1800m/min, the Max. coil weight is 30t.



## 三、国内外先进生产设备 ADVANCED PRODUCTION EQUIPMENTS

### 2、德国赫克力斯轧辊磨床

#### German Herkules work roll grinder

工作辊磨床---由德国赫克力斯公司设计制造，可磨削辊子直径最大650mm，最大辊面长度6000mm，表面粗糙度最低Ra0.025  $\mu\text{m}$ ，可保证满足高端动力电池箔高精度和高表面质量要求的CVC曲线及任意曲线辊型磨削需要。

The work roll grinder --- designed and manufactured by the Maschinenfabrik Herkules Group in Germany, can grind the rolls with maximum diameter of 650mm, maximum barrel length of 6000mm, and a minimum surface roughness of Ra0.025  $\mu\text{m}$ , which can guarantee the CVC profile and any other profile with high-precision and high surface quality.



### 3、铝箔轧机

#### aluminium foil mill

国内生产最小厚度5  $\mu\text{m}$ 双零箔的先进的铝箔轧机，具备一键升速，并配有完善的厚度自动控制系统(AGC)、板型自动控制系统(AFC)，能够满足生产出高端的动力电池箔板形厚差及表面质量等技术要求。

轧机成品道次配双油箱，生产电池箔产品时，电池箔专用油箱使用高达因值添加剂，可满足电池箔高达因值的要求。

The advanced aluminum foil rolling mill with minimum thickness 5  $\mu\text{m}$  of double zero foil is equipped with one click acceleration and a perfect automatic gauge control(AGC) system and automatic flatness control(AFC) system, which can meet the technical requirements of producing high-end power battery foil plates with thickness difference and surface quality. The finished pass of the rolling mill is equipped with dual fuel tanks. When producing battery foil products, the special fuel tank for battery foil uses high dyne value additives, which can meet the requirements for high dyne value of battery foil.



## 三、国内外先进生产设备 ADVANCED PRODUCTION EQUIPMENTS

### 4、铸轧机

#### cast-rolling mill

先进水平的新型铸轧机，该轧机辅以多项先进控制技术，设备装机水平高、质量好、产能大、操作简便，是替代传统铸轧机的理想设备。

本铸轧机架的轴线与地面垂直线成  $15^\circ$  倾斜配置（垂直中心线与轧机中心线间），使得在轧制过程中对克服金属偏析和减少金属氧化膜处的表面张力方面具有独到之处。

The cast rolling mill with advanced level is supplemented by multiple advanced control technologies, with high equipment installation level, good quality, large production capacity, and easy operation, is an ideal equipment to replace traditional cast-rolling mills.

The axis of the cast-rolling mill stand is inclined at a  $15^\circ$  angle to the vertical line of the ground (between the vertical centerline and the centerline of the cast-rolling mill), which makes it unique in overcoming metal segregation and reducing surface tension at the metal oxide film during the rolling process.



### 5、精切机

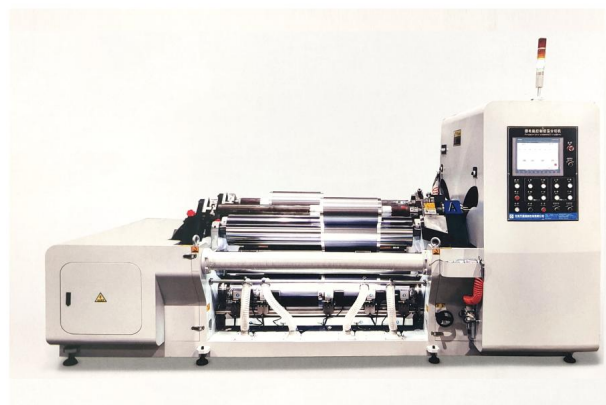
#### precision cutting machine

卧式双中分轴铝箔分切机，采用PLC、人机、矢量变频器（伺服驱动器）来控制分切过程收，放卷的速度与自动张力。可自动减速停机、收放卷，卷径自动演算，放卷到小卷径自动减速停机，直径公差控制在  $\pm 1\text{mm}$  以内。

该机生产的电池箔卷端面光滑、无毛刺、铝粉量少，专配的双电晕机可将铝箔表面带油，从31达因值提高到35达因值，完全满足电池箔各项质量指标要求。

The aluminum foil cutting machine with horizontal double split shaft adopts PLC, human-machine, vector frequency converter (servo driver) to control the speed and automatic tension of the retracting and unwinding during the cutting process. It can automatically slow down and stop, retract and unwind the roll, calculate the roll diameter automatically, and automatically slow down and stop when unwinding to a small roll diameter, The diameter tolerance is controlled within  $\pm 1\text{mm}$ .

The end face of the battery foil roll produced by the machine is smooth, free of burrs, and has a small amount of aluminum powders. The specially equipped dual corona machine can increase the oil content on the surface of the aluminum foil from 31 dynes to 35 dynes, fully meeting the quality requirements of the battery foil.



## 三、国内外先进生产设备 ADVANCED PRODUCTION EQUIPMENTS

### 6、离线板形检测仪 offline flatness tester

经轧机成品道次生产的电池箔铝卷，通过离线板形检测仪检测板形，可精准检测出电池箔板形是否符合要求，要求在 $8\text{N}/\text{mm}^2$ 张力测试下(涂层箔按光箔厚度计算张力)，无边部波浪、中间波浪、二肋波浪、复合波浪。

The aluminum roll of battery foil produced by the finished pass of the rolling mill can be accurately detected by an offline flatness tester to determine whether the shape of the battery foil meets the requirements. It is required to have no edge waves, middle waves, double rib waves, or composite waves under a tension test of  $8\text{N}/\text{mm}^2$  (calculating the tension of coated foil based on the thickness of the light foil).



### 7、新能源动力电池壳的冲压设备 Stamping equipment for new energy power battery shells

公司拥有电池壳冲压件设备生产线，铸轧机及德国西马克CVC-6辊2350mm冷轧机生产的电池壳3003合金板材，具有延伸好，不冲裂的优点，以先进的模具生产工艺及合适的拉伸油，解决了壁厚不均匀、上下偏差大、切口不完整的众多问题，提高了生产效率，也保证了产品的品质。

The company has a production line with stamping equipment for battery shell, and the battery shell of alloy 3003 produced by the cast-rolling mill and the German SMS Siemag CVC-6hi 2350mm cold rolling mill has the advantages of good extensibility and no punching cracks. With advanced mold production technology and suitable rolling oil, it solves many problems such as uneven thickness, large deviation between top and bottom, and incomplete cuts, improving production efficiency and ensuring product quality.

### 三、国内外先进生产设备 ADVANCED PRODUCTION EQUIPMENTS

#### 8、新能源动力电池壳的高频焊接生产线 High frequency welding production line for new energy power battery shells

高频焊接生产线是对铝材原材料通过挤压变形等手段进行成型（方管）、采用高频感应焊接技术进行焊接、通过挤压辊对焊接成型的管材进行定径（制作各种管径），并通过电脑飞锯对管材进行定尺（按照需要的长度）切断从而得到产品的一整套金属管材生产设备，并可根据图纸参数需要进行配套订制生产。

The high-frequency welding production line is a complete set of metal pipe production equipment that shapes aluminum raw materials through extrusion deformation (square pipes), uses high-frequency induction welding technology for welding, uses extrusion rollers to size the welded pipes (produce various pipe diameters), and uses a computer flying saw to cut the pipes ( according to the required length ) to obtain the products, and customized production can be carried out according to the drawing parameters.



# 合作 伙伴

产品主要销往吉林、辽宁、黑龙江、河北、山东、江苏、安徽等省。

主要销售客户：南山铝业股份有限公司、三元铝业有限公司、合肥标兵新材料科技有限公司等企业，销售渠道稳定，市场前景广阔。

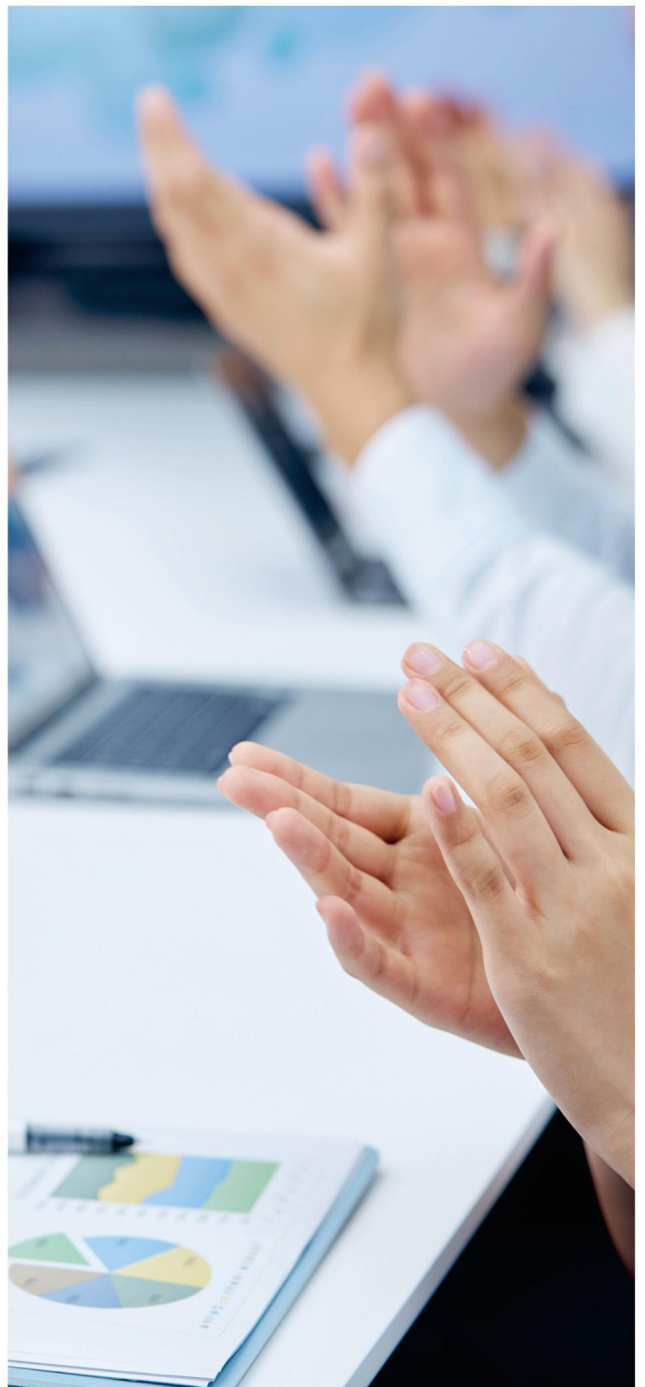


## OUR PARTNER

The products are mainly sold to provinces such as Jilin, Liaoning, Heilongjiang, Hebei, Shandong, Jiangsu, Anhui, etc.

Main sales customers: Shandong Nanshan Aluminum Co., Ltd., Sanyuan Aluminium Co., Ltd., Hefei Biaobing New Material Technology Co., Ltd., and other enterprises, with stable sales channels and broad market prospects.

## OUR PARTNER





# 企业文化



## CORPORATE CULTURE

吉林巨晟轻合金有限责任公司注重人才的培养和使用，相信从有才，引导人成才，全面提高职工综合素质能力，营造花园式的公司环境，着力丰富职工业余文化生活，携手共创和谐企业，努力以敬业、勤行、高效、专注、务实的经营理念，不断提高企业的创新力、发展力及核心竞争力。

Jilin JuSheng Light Alloy Co., Ltd. focuses on talent cultivation and utilization, We believe that we should focus on talent, guide people to become successful, comprehensively improve the comprehensive quality and ability of our employees, create a garden like company environment, focus on enriching their leisure cultural life, and work together to create a harmonious enterprise. We strive to continuously improve the innovation, development, and core competitiveness of the enterprise with a business philosophy of dedication, diligence, efficiency, focus, and pragmatism.

## 企业愿景

Enterprise vision

以专立业  
To be professional

以质取胜  
To win by quality

打造高精铝产业基地  
To create a high-precision  
aluminum industrial base

## 企业使命

Enterprise Mission

精益求精  
Striving for excellence

铸造品质  
Casting quality

客户满意  
Customer satisfaction

员工幸福  
Employee happiness

铝业全方位 巨晟筑未来

ALL-ROUND ALUMINUM INDUSTRY  
JUSHENG BUILDS THE FUTURE

吉林巨晟轻合金有限责任公司  
JILIN JU SHENG LIGHT ALLOY CO.,LTD

公司地址：吉林省辽源市经济开发区友谊工业园  
财富大路3333号

联系电话：0437-6089988

公司邮箱：jsqhj@jilinjusheng.cn

公司网址：www.jilinjusheng.com

No.3333 Caifu Avenue, Economic Development  
District, Liaoyuan City, Jilin Province, China.

Tel: +86-437-6089988

E-mail: jsqhj@jilinjusheng.cn

Website: www.jilinjusheng.com



企业网站  
company website