

技协同 · 箔致远
精研电池箔质造

电池铝箔

BATTERY ALUMINUM FOIL



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

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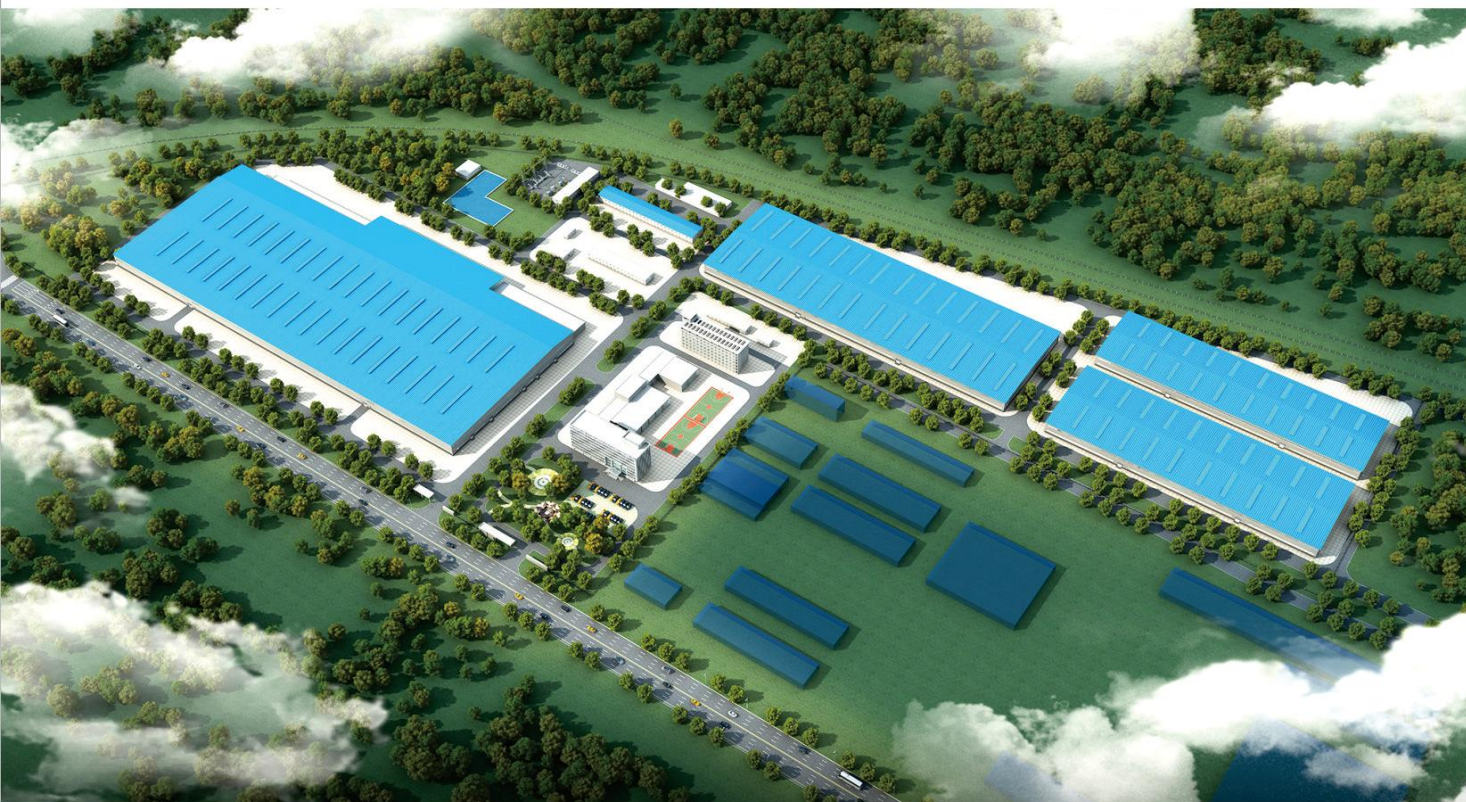


巨晟微信公众号
JuSheng WeChat Official Account

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目录 CONTENT



01 公司简介 COMPANY PROFILE 01-02

02 产品介绍 PRODUCT INTRODUCTION 03-05

03 我们的优势 OUR ADVANTAGES 06-11

04 企业文化 CORPORATE CULTURE 12-12

公司简介

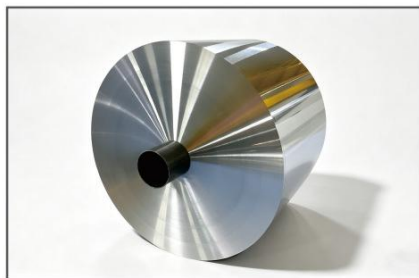
COMPANY PROFILE

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，高新技术企业。现有总资产20亿元人民币，厂区占地面积近42万平方米，其中建筑面积15万平方米。

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铝箔等产品。

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。

公司产品主要以生产汽车轻量化材料、新能源电池铝箔为核心，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，以专利业、以质取胜，努力将公司打造成为国际高精铝产业基地。



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. High-tech enterprise. The current total assets amount to RMB 2 billion, with the factory covering an area of nearly 420,000 square meters, including a building area of 150,000 square meters.

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, 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.

Our company's products will mainly focus on the production of light weight materials for automobiles, new energy battery foils. 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



公司电池铝箔：1060、1100、1200合金系列。产品在板型质量、表面质量、尺寸精度等方面都达到了业内先进水平。

Company's battery aluminum foil: 1060, 1100, 1200 alloy series. our products have reached the industry-leading level in terms of plate quality, surface quality, dimensional accuracy, etc.

电池铝箔产品规格及性能 BATTERY FOIL SPECIFICS AND PROPERTY

合金牌号、状态、尺寸规格 Alloy, Temper, Size

合金 alloy	状态 temper	厚度 mm thickness	宽度 mm width	内径 mm ID	外径 mm OD
1060 / 1100 / 1200	H18	$0.009 \leq T \leq 0.02$	$100 \leq W \leq 1550$	75 / 76.2 / 150 / 152.4	供需双方协商 To be determined by mutual negotiation

厚度偏差 Thickness Diviation

厚度 mm thickness	厚度允许偏差 thickness diviation tolerance
$0.009 \leq T \leq 0.02$	+ / - 4%

宽度偏差 Width Diviation

高精度 high-precision grade	普通级 normal grade
+ / - 0.5mm	+ / - 1mm

面密度偏差 surface density diviation

厚度 mm thickness	面密度允许偏差 g/m surface density diviation tolerance	
	高精度 high-precision grade	普通级 normal grade
$0.009 \leq T \leq 0.02$	+ / - 1.0	+ / - 1.4
$T > 0.012 - 0.016$	+ / - 1.0	+ / - 1.6
$T > 0.016 - 0.02$	+ / - 1.4	+ / - 1.8

管芯内径偏差 Coil Core ID Diviation

管芯内径 coil core id	管芯内径允许偏差 coil core id diviation tolerance
75 / 76.2mm	+ / - 0.3mm
150 / 152.4mm	+ / - 1.0mm

产品性能 Products Properties

合金 alloy	厚度 mm thickness	抗拉强度 N/mm ² tensile strength	延伸率 % elongation
1060	0.012	195-210	≥ 3.5
1100	0.012	≥ 230	≥ 3.0
	0.015	≥ 300	≥ 3.0
1200	0.013	230-250	≥ 5.0

可根据客户需要和实际进行设计、生产和控制。
We can design, produce, and control according to customer needs and actual requirements.

电池铝箔应用领域

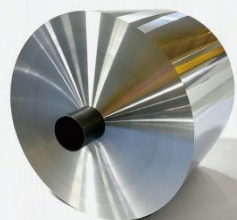
BATTERY FOIL APPLICATION FIELD



新能源汽车电池



消费电子电池



电池铝箔



储能设备



消费电子电池

1 动力电池

新能源交通工具、特种车辆

POWER BATTERY

New Energy Vehicles And Special Vehicles

2 储能电池

大规模电力储能、用户小型储能、光伏发电储能、风力发电储能

ENERGY STORAGE BATTERY

Large-scale Electric Power Storage

Small-size User Storage

Photovoltaic Power Storage

Wind Power Storage

3 固态电池

SOLID STATE BATTERY

4 消费类电子电池

手机、电脑、可穿戴电子产品、电动工具、移动电源

CONSUMER ELECTRONIC BATTERY

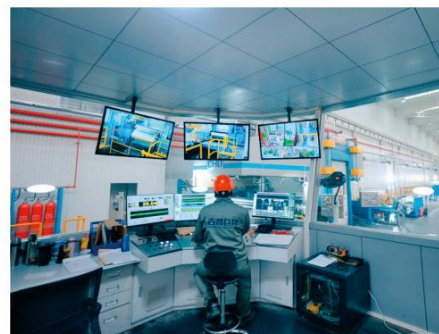
Mobile Phones

Computers

Wearable Electronics

Electrical Tools

Power Bank



我们的优势

OUR 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.

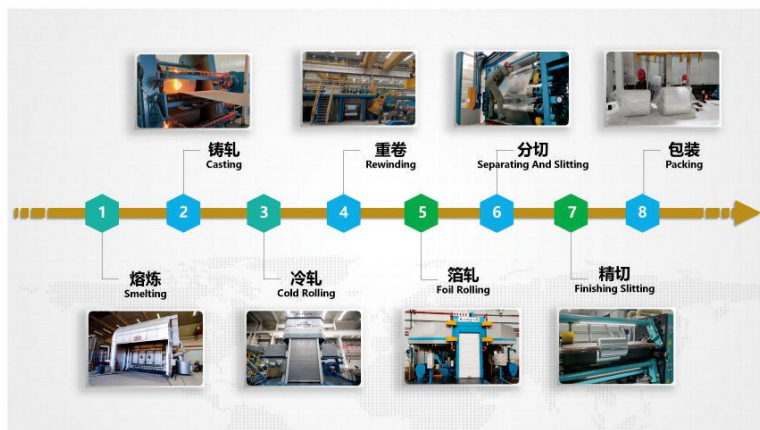


电池箔全产业链优势

THE ENTIRE BATTERY FOIL INDUSTRY CHAIN ADVANTAGES

公司凝聚了一批本行业优秀的生产、技术、研发、经营、管理等专业人才。我们电池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. Our battery aluminum foils have a complete industrial chain, with strict control over every link, ensuring product quality from the root. The main production process is as follows:



国内外先进生产设备

ADVANCED PRODUCTION EQUIPMENTS

1、铸轧 Casting

国际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° 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 International 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° 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.



国内外先进生产设备

ADVANCED PRODUCTION EQUIPMENTS

2、冷轧 Cold Rolling

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.



3、箔轧 Foil Rolling

国内生产最小厚度5μm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度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 μm 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 foils with plate 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.



国内外先进生产设备 ADVANCED PRODUCTION EQUIPMENTS

4、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 μm ，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 μm , which can guarantee the CVC profile and any other profile with high-precision and high surface quality.



5、精切 Finishing Slitting

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。

吉林巨晟拥有国内先进的电池用铝箔精切生产线，建有无尘车间，装备了先进的分切、电晕除油和张力检测设备，以及CCD和表面湿润张力检测仪器。

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.

Jilin JuSheng has the advanced battery foil production line in China. We have built dust-free plant installed advance finishing slitting, electrical corona de-oiling and tension detecting equipment. We also have instruments for testing the wetting tension of foil surface and cutters.



品控检测设备 QUALITY INSPECTION EQUIPMENTS

公司质检中心建筑面积 600m²，拥有技术检测人员 20余名，配备铝加工行业一流的一整套先进、完善的在线和离线检测设备30余台，有力学实验、光谱实验、轧制油检测3个实验室。

Our company's quality inspection center covers an area of 600 square meters, employs over 20 technical inspection personnel, and is equipped with a comprehensive suite of over 30 advanced and sophisticated online and offline testing equipment, ranking among the top in the aluminum processing industry. It boasts three laboratories dedicated to mechanical testing, spectroscopic analysis, and rolling oil inspection.



离线板形检测仪
Offline shape detector



日本光电直读光谱仪
Japanese photoelectric direct reading spectrometer



马弗炉
Muffle furnace



电子万能拉伸试验机
Electronic universal tensile testing machine

质量管理体系认证 QUALITY MANAGEMENT SYSTEM CERTIFICATION

吉林巨晟始终坚持“质量第一，顾客至上；遵章守法，健康安全；科学管理，绿色环保；开拓创新，打造精品”的管理方针，已通过ISO9001、ISO14001、ISO45001以及IATF16949管理体系认证。

Jilin JuSheng always adhere to our managing principles of “Quality First, Customer Driven, Law-abiding, Health And Safety; Scientific Management, Green And Environmentally Friendly, Explore And Innovate, Create Superior Brand.” We have acquired ISO9001 quality management system, ISO14001 environment management system, ISO45001 occupation health safety management system and IATF16949 automotive quality system certificates.



IATF16949

ISO9001

ISO14001

ISO45001



IATF16949

ISO9001

ISO14001

ISO45001



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

匠心筑品
Craftsmanship builds quality

笃行致远
Perseverance leads to success

打造电池箔精工良品
Create high-quality battery foils

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