

MISSION & VISION

使命愿景

创造客户价值，打造百年企业

成为行业标杆，为现代工业文明做贡献

CREATE CUSTOMER VALUE

BUILD A CENTURY-OLD COMPANY

BECOME THE INDUSTRY BENCHMARK

CONTRIBUTE TO MODERN INDUSTRIAL CIVILIZATION

金田电材事业部

JINTIAN ELECTRIC MATERIALS BUSINESS DEPARTMENT

电话/Tel: 86-574-8759 7563

传真/Fax: 86-574-8757 4482

网址/Web: www.jtcopper.com

宁波慈城 ADDRESS OF NINGBO CICHENG

浙江省宁波市江北区慈城城西西路1号

Ningbo Cicheng: No. 1, West West Road, Cicheng City, Jiangbei District, Ningbo City, Zhejiang Province

宁波杭州湾 ADDRESS OF NINGBO HANGZHOU BAY

浙江省宁波杭州湾新区滨海四路 636 号

Ningbo Hangzhou Bay: No. 636, Binhai Fourth Road, Hangzhou Bay New Area, Ningbo, Zhejiang Province

广东肇庆 ADDRESS OF GUANGDONG ZHAOQING CITY

广东省肇庆市四会市东城街道金田大道1号

Guangdong: No. 1 Jintian Avenue, Dongcheng Street, Sihui City, Zhaoqing City, Guangdong Province

重庆 ADDRESS OF CHONGQING

重庆市江津区珞璜镇云港大道272号

Chongqing: No. 272 Yungang Avenue, Luohuang Town, Jiangjin District, Chongqing

传真/Fax: 02347273666



股票代码
601609



金田电材事业部

JINTIAN ELECTRIC MATERIALS BUSINESS DEPARTMENT

致力打造国际一流电工材料供应商

Efforts to build the international first-class electrical material suppliers

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宁波金田铜业（集团）股份有限公司

NINGBO JINTIAN COPPER (GROUP) CO., LTD.

公司创建于1986年,专注铜加工产业38年,是全球领先的铜合金及先进材料制造企业。主要产品有铜管、棒、线、板、带、排、电磁线、阀门、磁性材料及黄铜、青铜、紫铜、白铜等高端合金。致力于为新能源汽车、风力发电、光伏能源、电力电气、轨道交通、消费电子等产业发展提供全球一流的产品和服务。

公司立足宁波,放眼世界,在全球有八大生产基地,25家分子公司,8000余名员工。在美国、德国、泰国、日本、韩国等地设立分支机构,业务遍及100多个国家和地区,是众多世界知名企业的长期合作伙伴。2023年,铜加工产销量达191万吨,营收总额1400+亿元,位列中国制造业500强第94位。

Jintian Founded in 1986, the company has been focusing on the copper processing industry for 38 years. It is the world's leading copper alloy and advanced materials manufacturing enterprise. The main products include copper pipes, rods, wires, plates, belts, rows, electromagnetic wires, valves, magnetic materials and high-end alloys such as brass, bronze, copper and white copper. We are committed to providing world-class products and services for the development of new energy vehicles, wind power generation, photovoltaic energy, electric power, rail transit, consumer electronics and other industries.

Based in Ningbo and looking around the world, the company has eight major production bases, 25 molecular companies and more than 8,000 employees in the world. It has set up branches in the United States, Germany, Thailand, Japan, South Korea and other places, covering more than 100 countries and regions, and is a long-term partner of many world-renowned enterprises. In 2023, the production and sales volume of copper processing reached 1.91 million tons, with a total revenue of 140+ billion yuan, ranking 94th among the top 500 manufacturing enterprises in China.

金田电材事业部

JINTIAN ELECTRIC MATERIALS BUSINESS DEPARTMENT

金田电材事业部隶属于金田铜业,公司发展30余年,旗下有宁波金田电材有限公司、宁波金田高导新材料有限公司两家子公司,拥有宁波慈城、宁波杭州湾、广东电材、重庆电材四大生产基地。该四个生产基地是专业生产裸铜线、绞并线以及镀锡绞并线等各类电工圆铜线产品的国家高新技术企业。

金田电材事业部,坚持走新型工业化发展道路,从德国、日本、美国等引进国际一流检测仪器及设备,建成多条全球领先的连铸连轧、尼霍夫多头拉丝、绞并线以及镀锡绞并线自动化生产线,融合应用WMS、MES、SCADA等信息化系统建设数字化生产车间,产能达100万吨。

Jintian Electric Materials Business Department is affiliated to Jintian Copper Industry. The company has developed for more than 30 years. It has two subsidiaries, Ningbo Jintian Electric Materials Co., Ltd. and Ningbo Jintian Gaoduo New Materials Co., Ltd., and has four production bases: Ningbo Cicheng, Ningbo Hangzhou Bay, Guangdong Electric Materials and Chongqing Electric Materials. The four production bases are national high-tech enterprises specializing in the production of various electrical round copper wire products such as bare copper wire, twisted wire and tin-plated stranded wire.

Jintian Electric Materials Division adheres to the new road of industrialization, introduces international first-class testing instruments and equipment from Germany, Japan, the United States, etc., and builds a number of world-leading continuous casting and rolling, Nihoff multi-head wire drawing, twisted line and tin-plated stranded parallel automatic production lines, integrating the application of WMS, MES and SCAD. A and other information systems build digital production workshops, with a production capacity of 1,000,000 tons.

DEVELOPMENT ROAD

发展之路

2005

通过ISO9001:2015质量管理体系、ISO14001:2015环境体系、ISO45001:2018职业健康安全管理体系认证

2012

设备、产能升级：引进15万吨美国连铸连轧生产线、引进德国尼霍夫拉丝生产线

2018

产品升级：3万吨特种线缆用高纯低氧铜绞线项目投产

2019

产能升级：杭州湾工厂年产35万吨高导高韧铜线项目投产，产能65万吨

设备信息化：全面引进SCADA系统上线

2020

完成宁波慈城工厂IATF16949体系认证

2021

产能升级：广东工厂35万吨高强高导高韧铜线项目投产，产能100万吨

2022

设备搬迁：重庆工厂15万吨高强高导铜线项目投产

宁波生产基地SCS再生铜翠鸟认证

2023

产能升级：杭州湾高导新材料镀锡线产线投产

INDUSTRIAL LAYOUT

产业布局

● 生产基地 ● 海外分支

集团 8 大生产基地

- / 浙江宁波
- / 江苏金坛
- / 广东肇庆
- / 重庆
- / 内蒙包头
- / 越南
- / 泰国

电材 4 大生产基地

- / 宁波慈城
- / 宁波杭州湾
- / 广东肇庆
- / 重庆



APPLICATION FIELD

应用领域



风能 / 光伏新型高效焊带 / 汇流带镀锡铜基材

Wind / photovoltaic new high efficiency welding tape / Tinned copper substrate for bus bar



消费电子行业

Consumer electronics



轨道交通电缆铜导体

Copper conductor of rail transit cable



电动工具 / 家电行业

Electric tool industry
/ Appliance industry



核电电缆铜导体

Copper conductor of nuclear power cable



石油钻井平台及船用连接电缆铜导体

Oil drilling platform And copper conductor of marine connecting cable



信息通讯行业

Information and communication industry



新能源汽车高
/ 低压动力连接电缆铜导体

New energy vehicle high
/ low pressure Power connection cable copper conductor



控制电缆行业

Control cable industry

PRODUCT TYPES

产品简介

材料类型 Material Types **电工圆铜杆 (8mm)** Electrical round copper rod (8mm)

可适用海底电缆、换位导线、超高压电缆等产品加工。
It can be used for the processing of submarine cables, transposition wires, ultra-high voltage cables and other products.

铜杆产品 Copper Rod Product

适用领域 Applicable Fields



电力电缆 Power cable 工业控制电缆 Industrial control cable 漆包扁线 Enamelled flat wire

材料类型 Material Types **电工圆铜线 (2.6mm、3.0mm)** Electrical round copper wire (2.6mm、3.0mm)

可适用各类电线电缆、各类漆包线、网络线、电子线和通讯线等产品加工。
It can be applied to the processing of all kinds of wires and cables, all kinds of enamelled wires, network wires, electronic wires, communication lines and other products.

2.6mm产品 2.6mm Product

适用领域 Applicable Fields



铜线编织线 Copper wire braided wire 漆包线 Enamelled wire 网络线 Network cable

3.0mm产品 3.0mm Product



光伏汇流条 Photovoltaic bus bar 铜箔 Copper foil 电源线 Power wire

材料类型 Material Types

电工圆铜线 (1.13mm、单丝) Electrical round copper wire (1.13mm、monofilament)

适用于超微电磁线、双零线拉丝等加工。
It is suitable for processing ultra-micro electromagnetic wires, double zero wire drawing, etc.

1.13mm、单丝 1.13mm、Monofilament

适用领域 Applicable Fields



双零线 Double zero

单丝 Monofilament

材料类型 Material Types

电工圆铜线 (并线、束绞线) Electrical round copper wire (bundle wire、bundle wire)

可适用于通讯领域、光伏电缆线、变压器线圈等加工。
It can be applied to the processing of communication fields, photovoltaic cables, transformer coils, etc.

并线、束绞线 bundle wire、bundle wire

适用领域 Applicable Fields



电梯线 Elevator wire

汽车线 Automobile wire

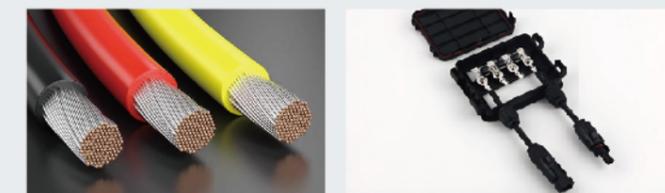
材料类型 Material Types

镀锡圆铜线 (并线、束绞线) Tin-plated round copper wire (bined wire、harnessed wire)

适用于汽车线、电源线、光伏接线等加工。
It is suitable for the processing of automobile lines, power lines, photovoltaic wiring, etc.

并线、束绞线 bundle wire、bundle wire

适用领域 Applicable Fields



光伏电缆 Photovoltaic cable

光伏接线盒 Photovoltaic junction box

ELECTRICIAN ROUND COPPER ROD (8MM)

电工圆铜杆 (8mm)

符合GB/T3952-2016，应用广泛，年产能100万吨，具有拉细丝性能好、氧含量稳定等性能。

Complies with GB/T3952-2016, is widely used, with an annual production capacity of 1000000 tons, and has good wire drawing performance and stable oxygen content.



| 产品性能 Product Performance | | 内控标准 Internal Control Standards | |
|--|--|---|---|
| ± 10 转 turns | 铜刺 Copper spikes | 无 None | - |
| | 裂缝 Crack | 合计 3cm 以下 Total less than 3cm | - |
| | 剥离 Peel off | 合计 3cm 以下 Total less than 3cm | - |
| 铜粉 (mg) Copper powder | | ≤ 5 mg | ≤ 15 mg |
| ± 10 转至扭断 (转数) Turns until torsion (turns) | | ≥ 30 没有不良喇叭口状或裂缝 Without any bell-shaped or cracks | ≥ 25 |
| 含氧量 (ppm) Oxygen content | | 200-250 | ≤ 400 |
| 探伤数 Flaw detectors No | 大 (L) | ≤ 1 | - |
| | 中 (M) | ≤ 3 | - |
| | 小 (S) | ≤ 30 | - |
| 探铁数 Iron detectors No | 大 (L) | 0 | - |
| | 中 (M) | 0 | - |
| | 小 (S) | 0 | - |
| 伸长率 (%) Elongation | | ≥ 40 | ≥ 40 |
| 线径 Diameter | | 8.0 ± 0.2mm | 8.0 ± 0.4mm |
| 电阻 Resistance | | ≤ 0.01704 | ≤ 0.01707 |
| 氧化层(埃) Oxide layers | | < 600 | - |
| 外观 Appearance | | 表面光滑,无飞边、夹杂等缺陷 Smooth surface, no flash and inclusions and so on | 表面光滑,无飞边、夹杂等缺陷 Smooth surface, no flash and inclusions and so on |
| | 卡炉 Stuck | 无 | - |
| 生产状况 Production condition | 冷铜 Cold copper | 无 | - |
| | 汤温稳定性 Stability of copper water temperature | ± 5°C | - |
| | 铸锭温度稳定性 Stability of ingot temperature | ± 5°C | - |
| | 浇铸状况 Casting condition | 液位无大幅度波动 Without significant fluctuations in the level | - |
| | 其他 Others | 正常、稳定 Normal and Stable | - |

ELECTRICIAN ROUND COPPER WIRE (2.6MM, 3.0MM)

电工圆铜线 (2.6mm、3.0mm)

符合GB/T3953-2024具有拉细丝性能好、氧含量稳定等性能。

Complies with GB/T3953-2024, and has good wire drawing performance and stable oxygen content.



| 材料类型 Material Types | | 电工圆铜线 (2.6mm) Electrical round copper wire (2.6mm) | |
|----------------------------|----------------------|---|--------------------|
| 产品名称 Name of Commodity | | TR 2.6mm | |
| 产品状态 Status | | 软态TR | |
| 包装方式 Packing | | 紧密收线 Spooler Coils | 梅花收线 Orbital Coils |
| 包装规格 Packing Specification | | 1000*1000*700 | Φ1100*1750 |
| 单重 Each weight | | ≤ 2 t | ≤ 1.8 t |
| 标准产品 Standard product | 公差 Tolerance | ± 0.026 mm | |
| | 不圆度 Roundness | 0.026 mm | |
| | 伸长率 Elongation | > 30% | |
| | 电阻率 Resistivity | ≤ 0.017241 | |
| | 表面质量 Surface quality | 光洁、无毛刺 Smooth without fur | |

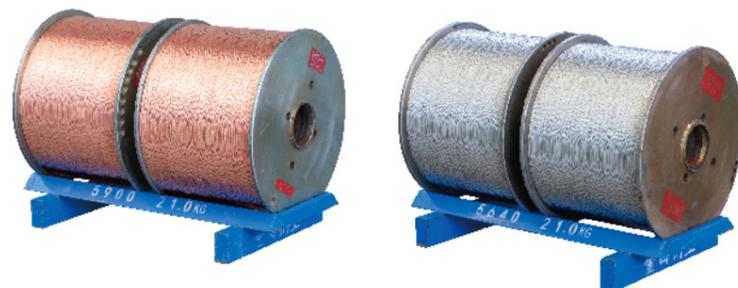
| 材料类型 Material Types | | 电工圆铜线 (3.0mm) Electrical round copper wire (3.0mm) | | |
|----------------------------|----------------------|---|--------------------|---------------------------|
| 产品名称 Name of Commodity | | TR 3.0mm | | TY 3mm |
| 产品状态 Status | | 软态TR | | 硬态TY |
| 包装方式 Packing | | 紧密收线 Spooler Coils | 梅花收线 Orbital Coils | 梅花收线 Orbital Coils |
| 包装规格 Packing Specification | | 1000*1000*700 | Φ1100*1750 | Φ1100*175 |
| 单重 Each weight | | ≤ 2 t | ≤ 1.8 t | ≤ 1.8 t |
| 标准产品 Standard product | 公差 Tolerance | ± 0.03 mm | | ± 0.03 mm |
| | 不圆度 Roundness | 0.03 mm | | 0.03 mm |
| | 抗拉强度 | - | | ≥ 389N/mm ² |
| | 伸长率 Elongation | > 30 % | | ≥ 1 % |
| | 电阻率 Resistivity | ≤ 0.017241 | | ≤ 0.01777 |
| | 表面质量 Surface quality | 光洁、无毛刺 Smooth without fur | | 光洁、无毛刺 Smooth without fur |

ELECTRICIAN ROUND COPPER WIRE (BUNDLE WIRE, BUNDLE WIRE)

电工圆铜线（并丝、束绞丝）

符合GB/T3953-2024、
GB/T12970-2009，具有拉细丝性能好、氧
含量稳定等性能。

It complies with GB/T3953-2024 and
GB/T12970-2009, and has good performance in
drawing thin filaments and stable oxygen content.



| 材料类型 Material Types | | 电工圆铜线（并线） Copper and silk | |
|----------------------------|--|-------------------------------|------------------|
| 产品名称 Name of Commodity | TR1 (0.1-1.0) mm | | |
| 产品状态 Status | 软态TR1 | | |
| 包装方式 Packing | 铁盘 Iron plate | | |
| 包装规格 Packing Specification | 630 mm | | |
| 单重 Each weight | 客户要求 Customizable | | |
| 标准产品 Standard product | 公差 Tolerance | $0.160 \leq d < 0.400$ (mm) | ± 0.004 (mm) |
| | | $0.400 \leq d \leq 1.00$ (mm) | $\pm 1\%d$ (mm) |
| | 伸长率 Elongation | $0.100 < d \leq 0.280$ (mm) | $\geq 18\%$ |
| | | $0.280 < d \leq 0.560$ (mm) | $\geq 20\%$ |
| 电阻率 Resistivity | 裸铜线: ≤ 0.01707 Bare copper wire: ≤ 0.01707 | | |
| | 镀锡线: ≤ 0.01720 (无镀层厚度要求) Tin-plated wire: ≤ 0.01720 (no coating thickness requirement) | | |
| 表面质量 Surface quality | 排线紧密、光洁、无毛刺 The wiring is tight, smooth, and free of burrs | | |

| 材料类型 Material Types | | 电工圆铜线（束绞丝） Copper bundle wire | |
|----------------------------|--|--|--|
| 产品名称 Name of Commodity | TJR TJR1 TJRX TJRX1 | | |
| 产品状态 Status | 软态TR | | |
| 包装方式 Packing | 铁盘 Iron plate | | |
| 包装规格 Packing Specification | 630mm (内孔125mm) 800mm (内孔125mm) | | |
| 单重 Each weight | 客户要求 Customizable | | |
| 标准产品 Standard product | 伸长率 Elongation | 符合GB/T 12970.2-2009中 4.5的规定 Complies with the provisions of 4.5 in GB/T 12970.2-2009 | |
| | 绞向 Twisted direction | 左向 或 右向 Left facing or Right facing | |
| | 标称截面 Nominal cross-section | 0.35mm^2 - 16mm^2 | |
| | 绞距 Twist pitch | 5-100 | |
| | 电阻率 Resistivity | TJR ≤ 0.01707 TJRX ≤ 0.017600 | |
| 表面质量 Surface quality | 圆整、光洁、干燥、无毛刺 Round, smooth, dry, without burrs | | |

TINNED ROUND COPPER WIRECOMPLY

镀锡圆铜线



符合GB/T4910-2022，具备耐腐蚀性能、高导电性
能、加工性能等优质性能。

Tinned round copper wireComply with GB/T4910-2022, with
high-quality properties such as corrosion resistance, high electrical
conductivity, and processing performance.

| 材料类型 Material Types | | 镀锡圆铜线 Tinned round copper wireComply | |
|----------------------------|--|---|-------------|
| 产品名称 Name of Commodity | TXR (1.4-2.6) mm | | |
| 产品状态 Status | TXR | | |
| 镀层厚度 Plating Thickness | $(1-20) \mu$ | | |
| 包装方式 Packing | 梅花收线或铁盘 Orbital Coils or Iron plate | | |
| 包装规格 Packing Specification | $\phi 1100 \times 1700\text{mm}$ 或 630mm | | |
| 单重 Each weight | 客户要求 Customizable | | |
| 标准产品 Standard product | 公差 Tolerance | $\pm 1\%d$ (mm) | |
| | 伸长率 Elongation | $1.40 \leq d \leq 2.00$ (mm) | $\geq 20\%$ |
| | | $2.00 < d \leq 2.60$ (mm) | $\geq 25\%$ |
| | 电阻率 Resistivity | ≤ 0.017600 | |
| 表面质量 Surface quality | 光洁、无毛刺 Smooth without fur | | |

AMERICAN SOUTHWIRE CONTINUOUS CASTING & ROLLING PRODUCTION LINE

美国连铸连轧生产线

■ **150,000 t / 350,000 t**
年生产能力



美国南方线材SCR连铸连轧生产线是世界上技术最成熟可靠的铜杆生产线。公司拥有SCR3000连铸连轧生产线与SCR7000连铸连轧生产线，年生产能力分别达到15万吨、35万吨。生产的8mm铜杆产品各项性能符合GB/T3952-2016国家标准。

The southern wire SCR continuous casting and rolling production line is the most mature and reliable copper rod production line in the world. The company has SCR3000 continuous casting and rolling production line and SCR7000 continuous casting and rolling production line, with an annual production capacity of 150,000 tons and 350,000 tons respectively. The performance of the 8mm copper rod products is in line with the GB/T3952-2016 national standard.

GERMANY NIEHOFF DRAWING LINES

德国尼霍夫拉丝生产线



■ 镀锡机 (冷镀)



德国尼霍夫高速拉丝生产线是世界上最先进的电工圆铜线生产线。公司拥有德国尼霍夫高速连续退火拉丝生产线、德国尼霍夫绞线生产、德国尼霍夫并线生产线、德国尼霍夫镀锡生产线。可为客户定制生产各类电工圆铜线产品、各项性能指标符合GB/T3953-2024、GB/T4910-2022、GB/T12970-2009等国家标准。

The German Niehoff high-speed wire drawing production line is the most advanced electrical round copper wire production line in the world. The company has a German Niehoff high-speed continuous annealing and wire drawing production line, German Niehoff twisted wire production, German Niehoff parallel line production line, and German Niehoff tin plating production line. It can customize and produce all kinds of electrical round copper wire products for customers, and various performance indicators meet GB/T3953-2024, GB/T4910-2022, GB/T12970-2009 and other national standards.

- **180,000 t** (双头大拉)
 - 65,000 t** (多头拉)
 - 20,000 t** (绞并线)
 - 16,800 t** (镀锡线)
- 年生产能力



QUALITY



JDY-30S型压片机



金相抛光机



光谱测试仪

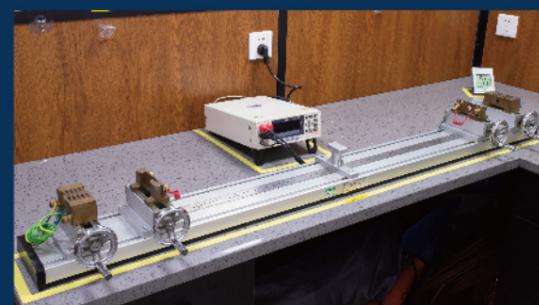
质量管理体系



CMT5504型
微机控制电子万能试验机



探伤仪



HIOKI-RM345系列电阻率测试仪

CONTROL



LECO 氮氧分析仪



TMT-3电子扭转试验机

公司始终以“没有质量就没有客户，没有客户就没有市场，没有市场企业就不复存在”导向质量管理，不断改进产品质量，推行质量第一理念，将质量管理贯彻在生产以及价值链的每个环节，做到“全面全员全过程”管理。公司成立专业质检部门，建立起专业检测中心，引进先进的检测设备，完善科学检测体系，并树立“优质产品，从我做起”的质量意识，先后通过IATF16949、ISO9001、ISO14001、ISO45001等质量管理体系认证。

The company always adheres to the quality management orientation of "no quality, no customers, no market, and no enterprise exists without market", continuously improves product quality, promotes the concept of quality first, and implements quality management in every replacement of production and value chain, achieving "comprehensive, all staff, and all process" management. The company has established a professional quality inspection department, established a professional testing center, introduced advanced testing equipment, improved the scientific testing system, and established a quality awareness of "high-quality products, start from me". It has successively passed quality management system certifications such as IATF16949, ISO9001, ISO14001, and ISO45001.



专利证书 PATENT CERTIFICATE



HONORARY CERTIFICATE

荣誉证书



部分合作伙伴 SOME PARTNERS



GREEN JINTIAN

绿色金田

公司积极助力新能源汽车、风电、光伏等绿色能源领域的发展，是比亚迪、宁德时代、明阳智能、阳光电源等行业标杆的长期合作伙伴。

Jintian Copper actively contributes to the development of new energy vehicle, wind power, photovoltaic and other green energy fields, and is a long-term partner of BYD, CATL, Mingyang Smart Energy, Sungrow and other industry leverage.



引领低碳循环再生

Leading Low Carbon
Cycling Regeneration



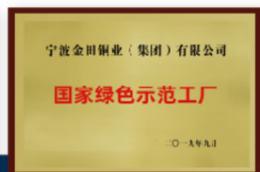
提升绿色能源比例

Improving Green Energy Ratio

坚持生态重于生产

Insisting on Ecology Over Production

- 国家级“绿色示范工厂”
National "Green Demonstration Factory"
- 国家级“工业旅游示范点”
National "Industrial Tourism Demonstration Site"
- 国家级“城市矿产示范基地”
National "Urban Mineral Demonstration Base"
- 国家再生铜标准主起草单位
National Recycled copper Standard Main Drafting Unit
- 年再生铜循环量全国第一
No.1 in Annual Recycled Copper Circulation Volume Nationwide
- 全球最完善的低碳再生铜循环产业链
The World's Most Complete Low-carbon Recycled Copper Recycling Industrial Chain
- 屋顶光伏总面积超50万平方米
The Total Area of Roof Photovoltaic Exceeds 500,000 Square Meters
- 光伏电站装机容量约45MW
The Installed Capacity of the Photovoltaic Power Station is around 45MW
- 年光伏发电量超过5000万千瓦时
Annual photovoltaic power generation capacity exceeds 50 million kilowatt hours



金田铜业低碳再生产品，帮助客户创造价值

铜产品和先进材料专家 | 引领低碳循环再生
Copper and Advanced Material Professional Manufacturer | Leading Low Carbon Cycling Regeneration



一站式全闭环低碳再生铜综合解决方案

One-stop & Closed Loop Low-carbon Recycled Copper Solution

1 再生原料保障

- 4大海外采购基地
4 Overseas sourcing bases
- 35年国际采购
35 years of international sourcing
- 年40万吨采购量
400,000 tons of annual procurement volume
- 全球100多家合作供应商
Over 100 global cooperation suppliers

2 再生原料提纯

- 1993年成立再生冶炼公司
Established recycled smelting company in 1993
- 年10万吨再生高纯铜产量
100,000 tons annual production of recycled high-purity copper
- 99.99%以上铜纯度
Over 99.99% copper purity
- SCS100%再生认证
100% recycled content certification

3 再生认证体系



4 绿色能源比例

- 光伏总面积超50万㎡
Total photovoltaic area over 500,000㎡
- 光伏电站装机容量50MW
Total capacity of photovoltaic power plant 50MW capacity
- 年光伏发电量超5000万KWH
Annual photovoltaic power over 50 million kWh

- ◆ 帮助客户实现一站式 + 闭环的低碳再生铜材产品解决方案
- ◆ 30年的再生铜生产制造经验，与客户联合研发，共同创新
- ◆ 全球化采购布局，规模化生产能力，帮助客户实现产能扩张支撑
- ◆ 内部专业的低碳再生项目组，为客户提供点对点的定制服务