

NINGBO JINTIAN
PROFESSIONAL MANUFACTURER
OF ELECTRIC MATERIAL



JINTIAN™ 宁波金田电材有限公司
金田铜业 NINGBO JINTIAN ELECTRIC MATERIAL CO.,LTD.

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金田铜业

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宁波金田铜业（集团）股份有限公司始建于1986年，是一家以铜加工为主的中国500强企业，也是国内最大的铜加工企业之一。

公司员工5800余人，产业涵盖铜加工、高新材料、建筑材料、有色金属贸易等领域，下辖十几家生产型及贸易型分子公司，主要产品有铜线、铜棒、铜管、铜带、漆包线、阴极铜、阀门、水表、磁性材料等，产品产量均居行业前列。

公司建立了国家级企业技术中心和国家级博士后工作站，通过了ISO9001质量体系认证，铜合金板、带、管、线、棒及阴极铜、漆包线、钎焊铜被评为浙江省名牌产品。公司以“绿色金田”为目标，致力于环境保护和生态建设，通过了浙江省清洁生产审核和ISO14001环境体系认证，并多次被评为省绿色企业（清洁生产先进企业），荣获“宁波市环境友好特别奖”，被列为“全国循环经济试点单位”、“全国工业旅游示范点”和全国首批“城市矿产”示范基地。

公司以“团队、学习、诚信、责任、开放”为核心价值，倡导“家庭式的人际关系，学校式的教育培训”，确立了“企业共管、责任共担、利益共享”的发展理念，注重用先进文化凝聚人、培育人、激励人，尊重员工、关爱员工、视员工为伙伴，努力创建和谐的劳动关系，荣获“全国模范劳动关系和谐企业”和“全国模范职工之家”。

另外，公司还先后获得全国“守合同，重信用”单位、中国优秀民营企业、资信AAA级企业、省工业行业龙头骨干企业、省百强企业、首届宁波市市长质量奖等荣誉称号。

Ningbo Jintian Copper (Group) Co., Ltd. established in 1986, is listed among the top 500 enterprises, majoring in the copper-processing, also the largest copper-processing enterprise in China.

The company has nearly 5,800 staff. The industry covers the areas of copper processing, high-tech materials, building materials, and non-ferrous metals trade, with the jurisdiction of more than a dozen production and trade oriented subsidiaries. The main products include copper wires, copper bars, copper tubes, copper stripes, enameled wires, cathode copper, valves, water meters, and magnetic materials, etc. All the production outputs take the lead in the same industry.

The company has established a national-level enterprise technical center and a national post-doctoral work station, and passed the ISO9001 quality system certification. The copper alloy plates, strips, tubes, wires, rods, cathode copper, enameled wires and Nd-Fe-B were named as Zhejiang Provincial Famous Brand. The company sets up “Green Jintian” for the environmental goal, committed to environmental protection and ecological construction. It has passed Zhejiang provincial cleaner production audit and ISO14001 environmental system certification, rated as Green Enterprise (Model Enterprise in Clean Production), won the “Ningbo Environmental Friendly Special Award”, also listed as “National Experimental Unit for the Cycling Economy”, “National Industrial Tourism Demonstration Site” and the first batch “Urban Minerals” demonstration base.

The company upholds “Team, Learning, Integrity, Responsibility, Opening” as the core values, advocates “family-like interpersonal relationship, school-like teaching and training courses”, establishes the development concept of “Enterprise Co-managed, Responsibility Beared, Benefits Shared”, focuses on coherencing, cultivating and encouraging the staff with the advanced culture; respecting and caring about the staff, Respecting them as partners, striving to create harmonious labor relations, and being rated as the “National Model Enterprise of Harmonious Labor Relations” and “National Model Staff Home”.

In addition, the company also has won honors of the “Contract-Honoring and Promise-Keeping” unit, “China Outstanding Private Enterprise”, “AAA-Financial Credit Enterprise”, “the Provincial Industrial Leading Backbone Enterprise”, “the Provincial Top 100 Enterprise”, “the first Ningbo Municipal Mayor Quality Award”, etc.

宁波金田铜业（集团）股份有限公司成立于1994年，是中国500强企业宁波金田铜业（集团）股份有限公司的全资子公司之一，现占地面积5.8万平方米，固定资产3.5亿元。公司专业生产各类紫铜排、紫铜棒、异型铜排、电工铜线坯等产品，主要应用于高低压电器、电力电子、输变电、汽车、模具、通讯、电缆、机械加工、冶金化工、建筑等产业。

公司建有花园式的厂区，现代化的生产线，拥有一流的管理水平和人才队伍，坚持科学发展观，走循环经济与新工业化和谐发展道路，引进德国、日本、美国等国家先进制造设备和检测仪器，拥有国际先进的生产线、雄厚的技术力量和齐全的检测设施。

现已建成多条上引炉生产线和铜连续挤压自动生产线，年产铜排、铜棒、异型铜排等产品5万吨。公司全面通过ISO9001:2008质量体系认证和ISO14001:2004环境体系认证。产品符合GB/T 3953—2009、GB/T 5585.1—2005、GB/T 2529—2005等国家标准，荣获“浙江省名牌产品”称号。

讲质量、守诚信、铸品牌。公司弘扬“天天求变、永不自满、勇于竞争、追求卓越”的金田企业精神。以市场为导向，强化内部管理，推进改革创新，不断进行结构调整，提升产品质量。公司致力于将金田产品推向全世界，为中国有色金属工业添光彩！

Ningbo Jintian Electric Material Co., Ltd. was established in 1994, it is one of wholly-owned subsidiaries of China's top 500 enterprises of Ningbo Jintian Copper (Group) Co., Ltd., covers an area of 58,000 square meters, holds fixed assets amounted to 350 million RMB. The company specializes in the production of various types of copper busbar, copper rod, special-shaped copper busbar, copper wire billet for electrical purposes and other products, mainly used in high or low voltage electric appliances, power electronics, power transmission, automobile, mould, telecommunications, cable, machinery processing, metallurgy and chemistry, construction and other industries.

The company has a garden-style factory, modern production lines, high-level management and personnel, adhere to the scientific development concept, and to the road of harmonious development of recycling economy and new industrialization, with the introduction of advanced manufacturing equipment and testing instruments of Germany, Japan, the United States and other countries, with international advanced production lines, strong technical force and complete testing equipment, supplemented by domestic supporting facilities.

It has been built on a number of lead furnace production lines and copper continuous extrusion automatic production lines to produce 50,000 tons of copper busbar, copper rod, special-shaped copper busbar and other products every year. The company has been ISO9001: 2008 certified for quality and ISO14001: 2004 certified for environment protection. All products comply with the national standards of GB / T 3953-2009, GB / T 5585.1-2005, GB / T 2529-2005, won the title of "Zhejiang famous-brand products".

The company stresses product quality, integrity, and brand enterprise, promotes the enterprise spirit of Jintian "change every day, never be satisfied, dare to compete, strive for excellence". The company is market-oriented, and strengthens internal management, pushes forward reform and innovation, continually adjusts the structure, and improves the quality of products. The company is committed to produce Jintian products to the world, to grace nonferrous metals industries of China!



采用SYLZ15000/24/20上引法无氧铜连铸机组，由上海电缆研究所设计并监制，是生产高质量、大长度光亮 $\phi 8 \sim \phi 30\text{mm}$ 铸态无氧铜杆的专用设备，该机组将电解铜板通过上引法连铸生产成无氧铜杆，其工艺先进且产品质量高。

Using SYLZ15000 / 24/20 lead method on the oxygen-free copper continuous casting machine, designed and supervised by Shanghai Electric Cable Research Institute, which is the special producer equipment of high-quality, large-length bright as-cast oxygen-free copper bar of $\phi 8 \sim \phi 30\text{mm}$. The machine will cast cathodes continually to produce oxygen-free copper bar by lead method, it owns advanced technology and produces products of high quality.



MFCCE400型、550型连续挤压机采用了国际先进技术，将原材料连续加入一个旋转的有槽挤压中，剪力效应产生足够的温度和压力使原料从特质模具中挤出一成成型，该工艺是传统拉拔工艺的革新，可产出长度不限、精度高、光洁度好的铜排，耐压强度可达欧洲标准。

International advanced technologies are introduced by the continuous extrusion machines of MFCCE400 Type and 550 Type. With the first-class equipment and technologies, raw materials are continuously extruded in a groove where the embryo tube comes into being through special modes due to the shear effect with qualified temperature and pressure. It is a revolution on the traditional drawing process, qualified to produce tube busbar of high precision, clean surface and excellent compressive strength which conforms to European Standard (Length is not limited).



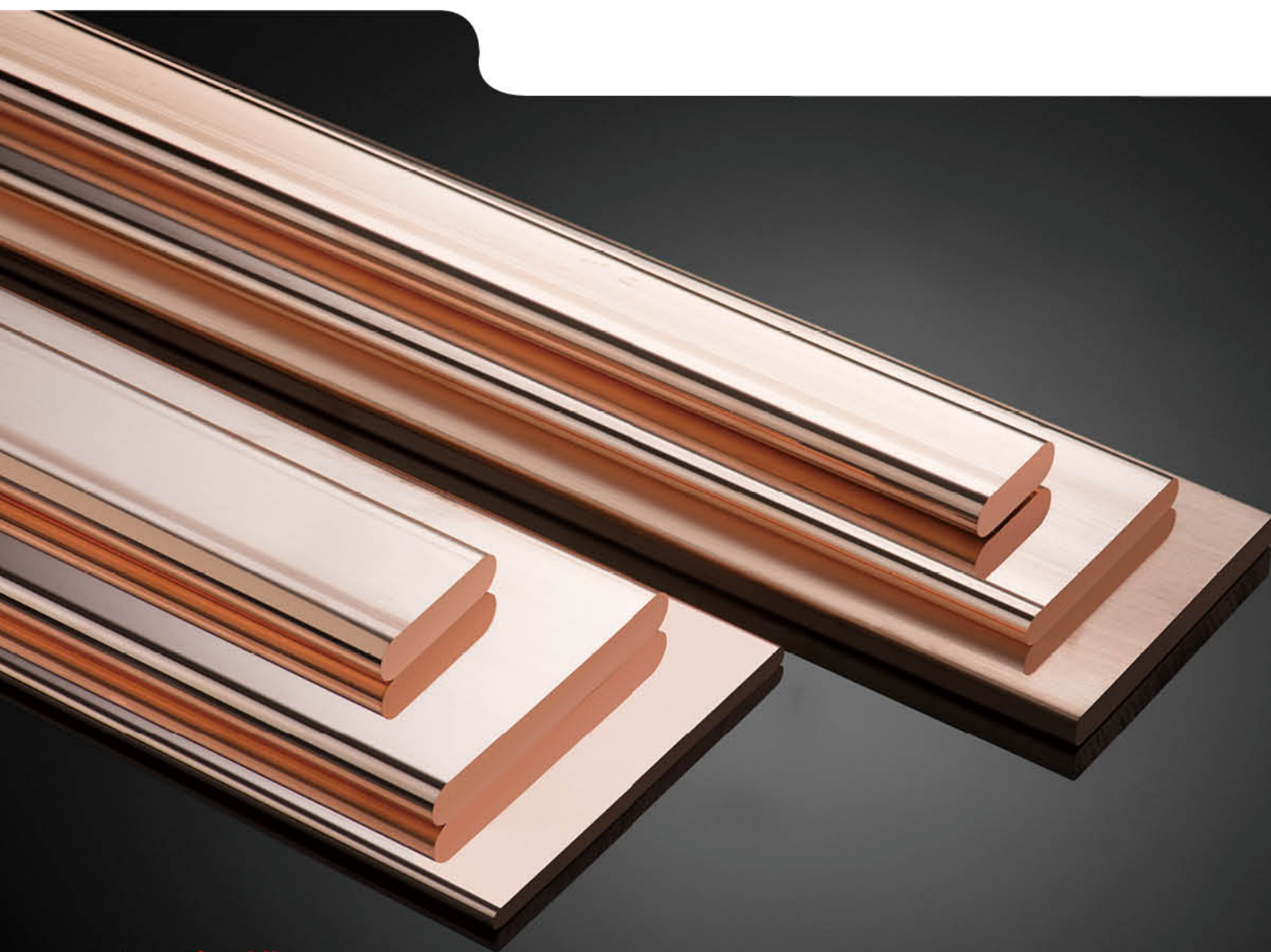
HAD100-12、YLB (I) -50-12、YLB-JZ(I)-50-12液压型自动拉拔机床身为形钢焊接件，配制直线导轨两根，滑移精度高。拉拔角座刚度大，定位精确，整机由日产PLC控制，在拉拔的过程中提高了材料的表面硬度，增加了材料的弹性极限，大幅提高了材料的利用率，同时增加了材料的导电率。同时型材在工序的流转过程中均由机械手夹持，不需人手直接接触，经定尺锯切后直接包装入库。拉拔后的型材不易变形，擦伤，避免了汗渍、油污的附着。

Most hydraulic automatic drawing machines applied in our company are of type HAD100-12, YLB(I)-50-12 and YLB-JZ(I)-50-12. The lathe bed of machines is made of steel weldments, equipped with two linear rails with high precision of slipping. The drawing owns qualified characters, such as sufficient stiffness and precise positioning, wholly controlled by Nissan PLC. During the drawing process, the surface hardness of materials will be improved and their elastic limit as well, which allows better utilization and conductivity of materials. During the whole procedure, proximate matters, only moved by mechanical arms instead of human hands, are directly packed and put in storage after being sawed, with a character not easy to be deformed or scraped, avoiding sweat and greasy dirt.



DL倒立式拉丝机采用新型拉丝技术，可适应于大盘粗重线材拉拔，尤其适于标准件行业拉拔中、低碳螺栓线材，可更好的满足客户需要，盘圆铜棒主要应用在绞扁线、各种冲压件（五金上）。

Advanced wire drawing technology has been applied for different types of products, suitable for drawing thick and heavy copper wire, and especially for drawing copper standard parts and low-carbon bolt and wire, to meet every need of our customers. Copper wire rod and copper rod mostly are used in a variety of stampings in the hardware area.



TMY铜排
TMY Copper Bar

产品主要特点及用途:

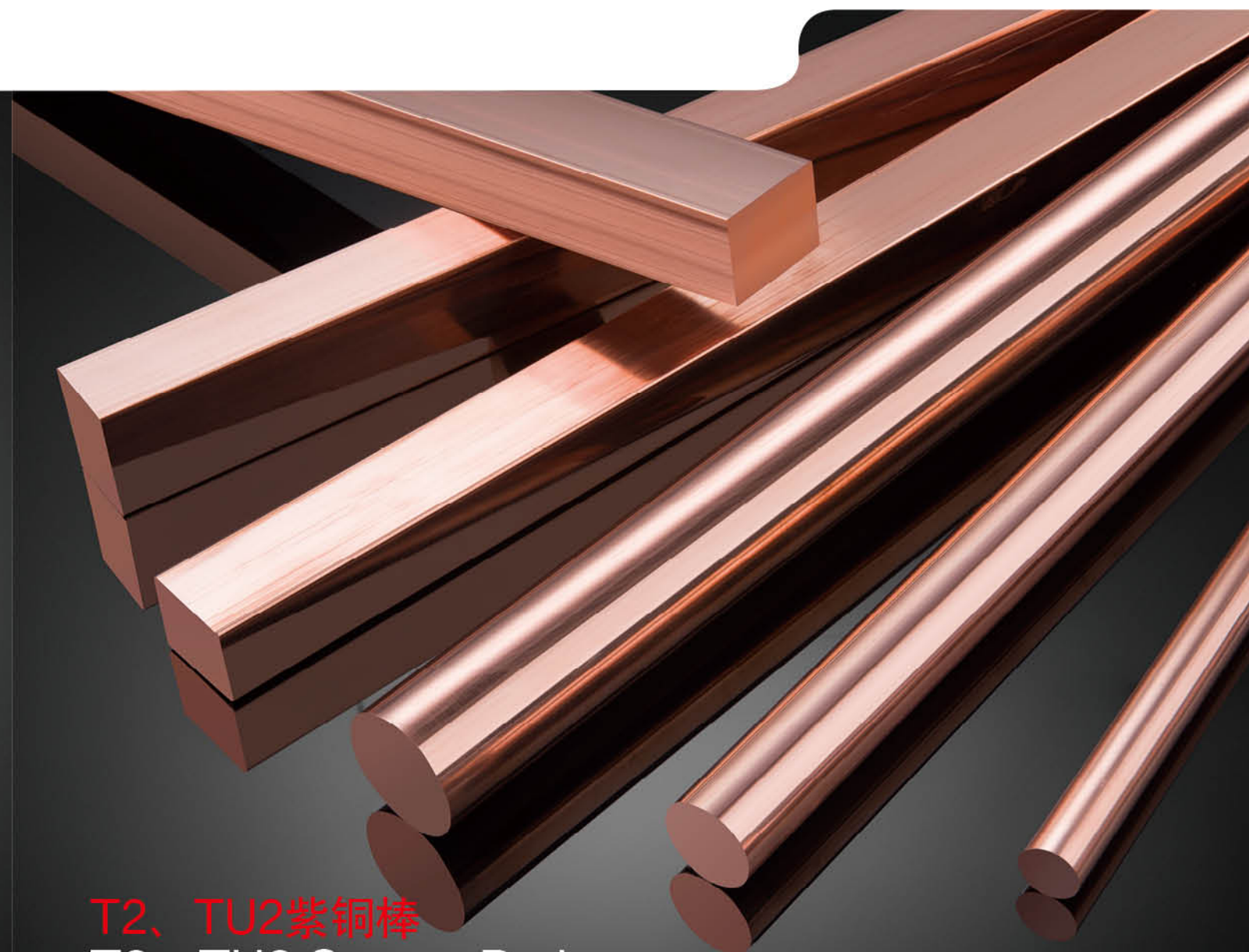
- 含铜量高
- 含氧量低
- 组织致密、均匀
- 电阻率低、导电率高
- 尺寸精确
- 机械性能优异
- 供货长度自由
- 铜排是一种大电流导电产品，适用于高低压电器、开关触头、成套配电柜、母线槽等电器工程，也广泛用于金属冶炼、电化电镀、化工烧碱等超大电流电解冶炼工程。

Main Features and Functions:

- High Purity
- Low Oxygen Content
- Tight and Balanced Construction
- Low Electric Conductivity and High Electric Conductivity
- Accurate Size
- Applications: TMY Copper Bar is a kind of large current conductive products, suitable for high-low electrical appliance, switch, electric closet, bus duct and any electric engineering, also used in smelting, electroplate and caustic soda etc.

产品技术参数 Specifications:

牌号 Alloy	规格 Size (mm)		伸长率 Elongation (%)	电阻率 Resistance ($\Omega\text{mm}^2/\text{m}$)	抗拉强度 Tensile Strength (N/mm^2)	布氏硬度 HB	含氧量 Oxygen Content (%)	执行标准 Standard
	a	b						
TMR	-		≥ 37	≤ 0.017241	≥ 206	-	≤ 0.002	GB/T5585.1-2005
TMY	3-25	20-200	-	≤ 0.01777	-	≥ 65	≤ 0.002	GB/T5585.1-2005
T2	5-110		-	≤ 0.01777	-	-	≤ 0.002	GB/T2529-2012



T2、TU2紫铜棒
T2、TU2 Copper Rod

产品主要特点及用途:

- 表面光洁平直 (无矫直痕迹)
- 尺寸精确
- 导电率高
- 机械性能优异
- 广泛应用于电工、电器、输变电、模具、五金加工等行业，是各类高低压电器配件用的优质导电材料。

Main Features and Functions:

- Bright finish (no flattening marks)
- Accurate Size
- High Electric Conductivity
- Great Mechanical Property
- Applications: used in Electrical Appliance, power transmission and transformation, model, metal manufacturing etc. It is superior material in many electrical appliance accessories.

产品技术参数 Specifications:

牌号 Alloy	规格 Size (mm)		伸长率 Elongation (%)	电阻率 Resistance ($\Omega\text{mm}^2/\text{m}$)	抗拉强度 Tensile Strength (N/mm^2)	布氏硬度 HB	含氧量 Oxygen Content (%)	执行标准 Standard
	a	b						
TMR	-		≥ 37	≤ 0.017241	≥ 206	-	≤ 0.002	GB/T5585.1-2005
TMY	3-25	20-200	-	≤ 0.01777	-	≥ 65	≤ 0.002	GB/T5585.1-2005
T2	5-110		-	≤ 0.01777	-	-	≤ 0.002	GB/T2529-2012



异型铜排 Unconventional Copper Bar

产品主要特点及用途:

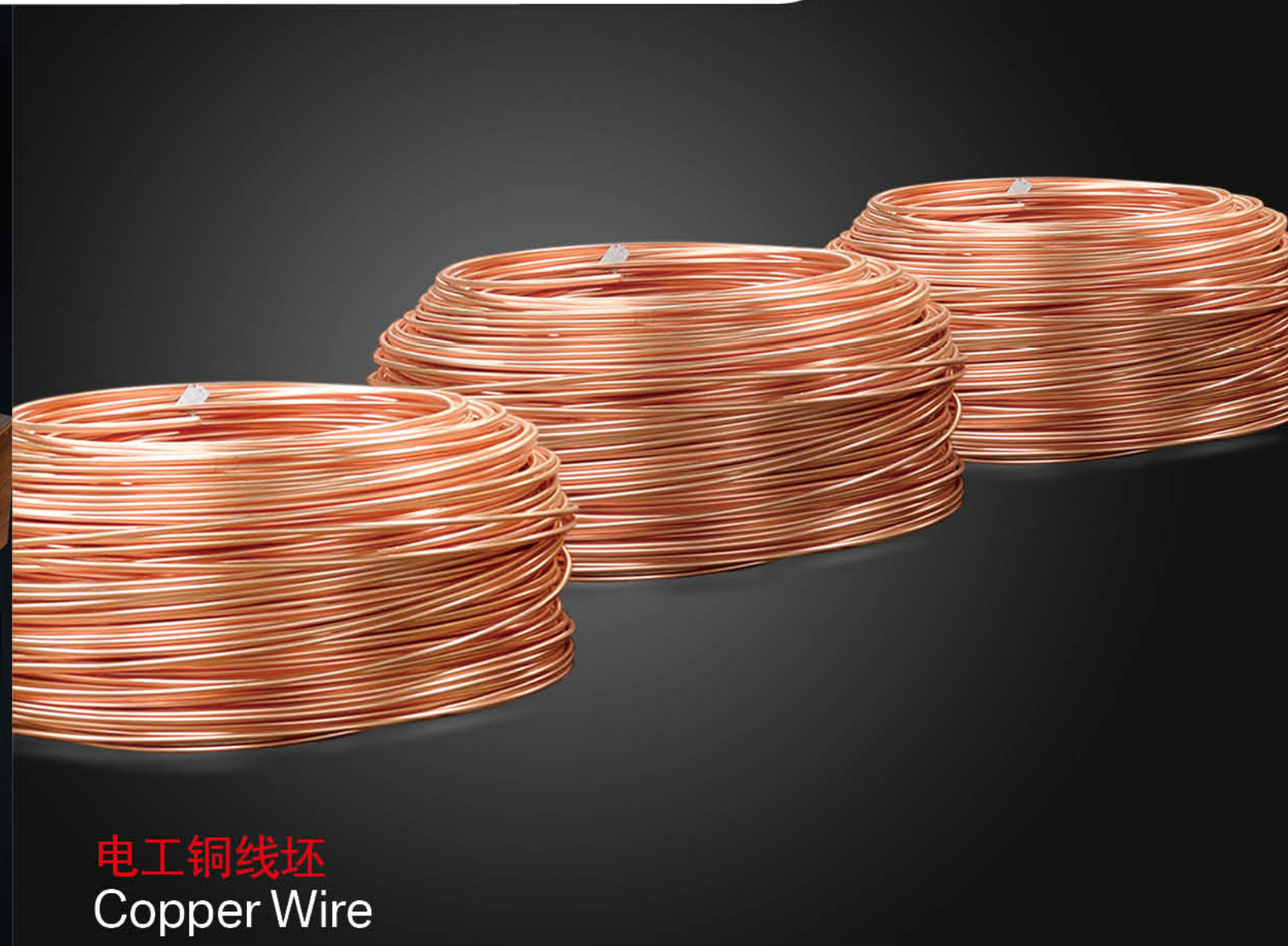
- 含铜量高
- 含氧量低
- 组织致密、均匀
- 电阻率低、导电率高
- 尺寸精确
- 机械性能优异
- 供货长度自由
- 广泛应用于电工、电器、输变电、五金加工等行业，是制造大型电机、高低压电器开关触头以及供（配）电安装用导线等的主要原材料。

Main Features and Functions:

- High Purity
- Low Oxygen Content
- Tight and Balanced Construction
- Low Electric Conductivity and High Electric Conductivity
- Accurate Size
- Great Mechanical Property
- Any Length available
- Applications: suitable for high-low electrical appliance, switch, electric closet, bus duct and any electric engineering.

产品技术参数 Specifications:

牌号 Alloy	规格 Size (mm)		伸长率 Elongation (%)	电阻率 Resistance ($\Omega\text{mm}^2/\text{m}$)	抗拉强度 Tensile Strength (N/mm^2)	布氏硬度 HB	含氧量 Oxygen Content (%)	执行标准 Standard
	a	b						
TMR	-	-	≥ 37	≤ 0.017241	≥ 206	-	≤ 0.002	GB/T5585.1-2005
TMY	3-25	20-200	-	≤ 0.01777	-	≥ 65	≤ 0.002	GB/T5585.1-2005
T2	5-110	-	-	≤ 0.01777	-	-	≤ 0.002	GB/T2529-2012



电工铜线坯 Copper Wire

产品主要特点及用途:

- 纯度高
- 电阻率低
- 结构密实
- 加工性能优异
- 广泛应用于电磁线、高低压电缆、电线、电机、电器等。

Main Features and Functions:

- High Purity
- Low Resistance
- Tight Construction
- Great Processability
- Applications: Electromagnetic Wire, High-low Pressure Cable, Current Lead, Electrical Machine, Electrical Appliance etc.

产品技术参数 Specifications:

牌号 Alloy	规格 Size (mm)	伸长率 Elongation (%)	电阻率 Resistance ($\Omega\text{mm}^2/\text{m}$)	抗拉强度 Tensile Strength (N/mm^2)	含氧量 Oxygen Content (%)	执行标准 Standard
TU2R	25/20/16/12.5	≥ 37	≤ 0.01724	≥ 290	$\leq 0.0010\%$	GB/T3952



不断改进产品质量，推行质量第一理念。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。先后获得 ISO 9001:2000 国际质量体系认证，ISO 14001:2008 环境管理体系认证，通过 JIS, UL, ASTM, EN, TUV 等认证。

Keep meliorating in the production. Quality is above all. The specialized QC department, the professional test center, the advanced test equipment, etc. have provided jintian Group with a scientific & perfect QC system. Jintian Group has been ISO 9001:2000 certified for quality and ISO14001:2004 certified for environment protection, furthermore, has attained international approvals including JIS, UL, ASTM, EN, TUV certifications.

Composition
analysis for
cathode copper
阴极铜元素分析

High-speed
analysis for
copper liquid
炉前成分分析

Smooth shell
demension
measurement
铜材表面检查

Smooth
tube defects
test in line
外表缺陷在线涡流探伤

Grain size
test for
finished tube
晶粒度测试

Cleanness
determination
for finished tube
清洁度测试

Mechanics
properties test
for finished products
终端产品性能测试

Defects test for
heat transfer of
high efficiency tube
高效热传导测试

部分战略合作伙伴 Honor Partner



包装 Acr Packing

根据客户的不同需求，采用木箱或铁箱等不同的包装方式，对产品起到防潮、防震、防刮伤的作用，确保产品质量。

Packing: According to customers' different requirements, using wooden case or iron case will protect products from moisture, shock, scratch, and ensure the quality.



销售网络 Sales Network

产品销售市场以华东地区为主，覆盖华北、华南、西北、西南等全国主要市场和区域。

The main market is East China, covering North, South, Northwest, Southwest of China and other main markets.

