



泰州市童顺电热合金材料有限公司
Taizhou TS Heating Alloy Materials Co.,Ltd.



江苏沪东金属材料有限公司
JIANGSU HUDONG METAL MATERIALS CO.,LTD



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企业简介

COMPANY PROFILE

泰州市童顺电热合金材料有限公司位于中国江苏泰州市戴南镇不锈钢基地，交通便利。是专业生产各类特殊钢及合金的制造商。主要生产高电阻电热合金丝、耐热钢、焊接用不锈钢丝、网带丝以及不锈钢丝材、带材等系列产品，经过多年的追逐，现已成为苏中地区生产特种合金材料的重点企业之一。产品远销欧、美和亚洲。

本公司是集冶炼、锻造、轧制、冷拔、热处理于一体，并拥有光谱、化学分析、力学实验、金相仪等检测设备，同时建立了一整套严格的生产质量管理体系。为确保产品质量稳定奠定了坚持的基础，同时还可按照用户的特殊需求提供相应的产品。

本公司本着以人为本，诚信合作，视质量为生命、价格合理，市场为导向的经营宗旨，诚信地服务好每位用户。

每一个童顺人坚信：“如果您选择了童顺，必将会喜爱童顺，信赖童顺”，同时我们也将感到荣幸，并以此动力，为此公司总经理孙童携全体员工衷心感谢社会各界的关心和厚爱，热忱欢迎广大新老客户光临指导，惠顾洽谈。

企业理念

COMPANY CULTURE

诚信为本

团队协同

至上品质

追求卓越

01

COMPANY PROFILE

Taizhou Tongshun Electric Heating Alloy Materials Co., Ltd. is located in the stainless steel base of Dainan Town, Taizhou City, Jiangsu Province, China, with convenient transportation. It is a manufacturer specializing in the production of various types of alloys. The main products are high-resistance heating alloy wire, heat-resistant steel, welding stainless wire, mesh strip wire and stainless steel wire. After years of pursuit, it has become one of the key enterprises in the production of special alloy materials in central Jiangsu. Products are exported to Europe, America and Asia.

The company is a collection of smelting, forging, rolling, cold drawing, heat treatment. It has spectrum, chemical analysis, mechanical experiments, metallographs and other testing equipment, while establishing a set of strict production quality management system. we can also provide corresponding products according to the special needs of users.

The company adheres to the business tenet of people-oriented, honest cooperation, quality as life, reasonable price and market-oriented, Every TS person firmly believes: "If you choose TS, you will love TS, trust TS".

The general manager Sun Tong and all the staff heartfelt thank to all sectors of the community for their concern and love and warmly welcome new and old customers to visit and guide, patronize and negotiate.

COMPANY CULTURE

Insist on honestly

Teaming work

Attention to quality

Pursuit of excellence

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产品介绍

PRODUCT INTRODUCTION

铬镍丝 Nichrome Wire

- ◆ 规格/Grade: $\Phi 0.1 \sim 8.0\text{mm}$
- ◆ 执行标准/Standard: JB/T5328
- ◆ 电阻率/Normal resistance:
(20°C)/ $\mu\Omega \cdot \text{m}$: 1.33 ± 0.07



铁铬铝丝 Fe-Cr-Al Wire

- ◆ 规格/Grade: $\Phi 0.1 \sim 8.0\text{mm}$
- ◆ 执行标准/Standard: JB/T5328
- ◆ 电阻率/Normal resistance:
(20°C)/ $\mu\Omega \cdot \text{m}$: 1.80 ± 0.07



◆ 用途简介: 电阻电热合金, 此类合金组织稳定, 电气物理特性稳定、高温力学性能好, 冷变形塑性好, 焊接性好, 长期使用不会产生脆性断裂。多用于制造家用电器和加工温度在 1000°C 以下的加热元件。

It is a resistance electric alloy, it has stable tissue, stable electrical and physical characteristics, good high temperature mechanical properties, good cold deformation plasticity, good welding ability, long-term use will not produce brittle fracture. It is mostly used for manufacturing household appliances and heating elements with processing temperature below 1000°C .

产品介绍

PRODUCT INTRODUCTION

纯镍 Pure Nickel

- ◆ 钢种/Item: N4 N6
- ◆ 规格/Grade: $\Phi 0.8 \sim 12.0\text{mm}$
- ◆ 执行标准Standard/: GB/T5235
- ◆ 电阻率/Normal resistance:
(20°C)/ $\mu\Omega \cdot \text{m}$: 70.2



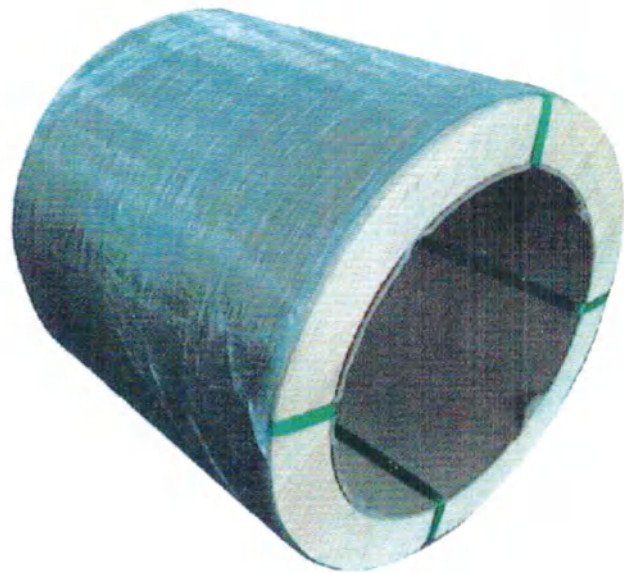
◆ 用途简介: 镍200和201合金被用作电气和电子元件的引线以及灯具的线内引线元件。用于化工、石化行业的丝网、过滤器的制造。它们也用于镍镉电池, 用于焊接覆盖层, 用于制作焊剂芯焊丝焊接应用。改良的镍 205 通常用于晶体管外壳、引线、电子管的阳极以及化学和石化工业的丝网和过滤器。

Alloys 200 and 201 are used as leads for electrical and electronic elements and as internal lead elements of light fixtures. Used in the chemical industry, petrochemical industry screen, filter manufacturing. They are also used in nickel-cadmium batteries, for welding overlays, and for making flux core wire welding applications.

产品介绍

PRODUCT INTRODUCTION

下拔丝(中间丝) Lower dial wire (Middle wire)



- ◆ 规格/Grade: $\Phi 0.8 \sim 2.0 \text{mm}$
- ◆ 交货状态/Delivery status: 软态(氢退)/Soft state
- ◆ 单件重量/Weight: 50~300kg
- ◆ 颜色/Color: 光亮态(雾白)/ Bright state (fog white)

◆ 用途简介: 主要通过盘条-拉拔到一定中间规格, 为后道继续进行水拉、油拉、轧小扁做中间丝; 继续加工可以做细丝、微丝、冷轧细扁带; 用于各种小家电等领域。

Use introduction: mainly through the disk-pull to a certain intermediate specification, for the back road to continue to pull, oil pull, rolling small flat do intermediate wire; continue to process can do filament, micro wire, cold rolled thin flat belt; used in various small home appliances and other.

产品介绍

PRODUCT INTRODUCTION

电炉丝 Electric furnace wire



- ◆ 规格/Grade: $\Phi 2.1 \sim 12.0 \text{mm}$
- ◆ 交货状态/Delivery status: 冷拉-退火 cold pull-annealing Single-piece.
- ◆ 单件重量/weight: 50~300kg
- ◆ 颜色/Color: 氧化、雾白、金黄、蓝色 oxidation, fog white, golden yellow, blue

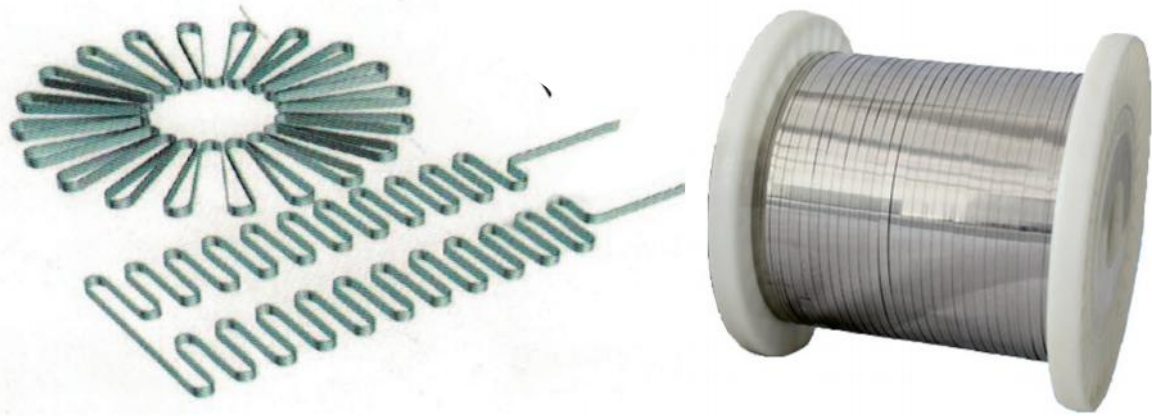
◆ 用途简介: 主要直接用于绕加工螺旋线, 波性线用; 用于炉窑加热, 发热管加热等加热元件, 电炉、马弗炉、采暖空调设备、各类烘箱、电热管及家用电器等。

Use introduction: mainly directly used for processing spiral wire, wave line; for furnace heating, heated pipe heating, heating components, electric furnace, horse furnace, heating air conditioning equipment, all kinds of oven, heating pipe and household electrical appliances.

产品介绍

PRODUCT INTRODUCTION

电炉条扁钢 Electric furnace strip/ribbon



- ◆ 规格/Grade: (2.5~4.0)x(175~195)mm,
- ◆ 交货状态/Delivery status: 热轧、退火、酸洗 Hot rolling, annealing, and pickling
- ◆ 单件重量/weight: 150~180kg
- ◆ 颜色/ Color: 氧化、酸白 Oxidation, acid white
- ◆ 用途简介: 主要供客户进行冷轧加工、进行分条加工等, 应用多种需要设施。
Mainly for cold rolling processing, strip processing, the application of a variety of required facilities.

- ◆ 规格/Grade: (0.04~0.8)x(10~170)mm
- ◆ 交货状态/Delivery status: 冷轧(退火) Cold rolling (annealing)
- ◆ 单件重量/weight: 10~180kg
- ◆ 颜色/ Color: 氢退、雾白 Hydrogen back, fog white
- ◆ 用途简介: 主要供客户加工后做汽车三元催化器。电陶炉等薄扁需求设施。

Mainly for customers to process the automotive three-way catalytic converter. Electric ceramic furnace and other thin flat demand facilities.

- ◆ 规格/Grade: (3.5~5.0)x(13~29)mm
- ◆ 交货状态 Delivery status: 热轧、退火、酸洗 Hot rolling, annealing, and pickling
- ◆ 单件重量/weight: 30-40kg
- ◆ 颜色/ Color: 氧化、酸白 Oxidation, acid white
- ◆ 用途简介: 主要供客户进行冷轧加工进行分条加工等, 应用多种需要设施。

Mainly for cold rolling processing, strip processing, the application of a variety of required facilities.

- ◆ 规格/Grade: (1.0~2.5)x(15~40)mm
- ◆ 交货状态/Delivery status: 冷轧(退火) Cold rolling (annealing)
- ◆ 单件重量/weight: 30-40kg
- ◆ 颜色/ Color: 氢退、雾白、氧化 Hydrogen regression, fog white, oxidation
- ◆ 用途简介: 主要供客户进行加工成型用于各种工业炉发热、加热设施。

Mainly for customers to conduct processing molding for a variety of industrial furnace heating, heating facilities.

产品介绍

PRODUCT INTRODUCTION

棒材 Bars

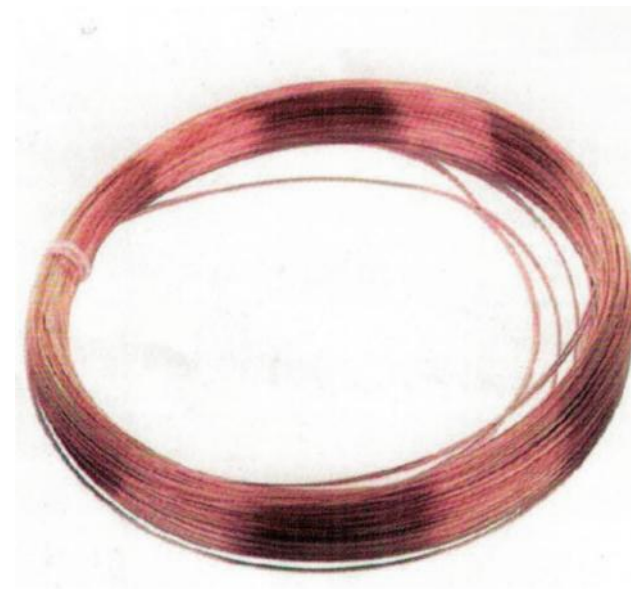


- ◆ 规格/Grade: $\Phi 4.0\sim 20\text{mm}$
- ◆ 交货状态/Delivery status: 热轧、退火、酸洗/表面磨光(抛光)
Hot rolled, annealing, pickling / surface finish (polished)
- ◆ 定制颜色/ Color: 退火、酸白/银亮棒
Annealed, sour white / silver bright stick
- ◆ 用途简介: 主要用于加热元件和电源引出连接用。
Mainly used for heating components, power supply lead-out and connection.

产品介绍

PRODUCT INTRODUCTION

康铜丝 Constantan wire



- ◆ 规格/Grade: $\Phi 0.8\sim 12\text{mm}$
- ◆ 电阻率/resistivity: $(20^\circ\text{C})/\Omega\cdot\text{m}: 0.48\pm 0.03$
- ◆ 用途简介: 以铜镍为主要成分, 具有较低的电阻温度系数, 耐腐蚀及钎焊。可制作交流仪器中的可变电阻和应变电阻原件。
Copper and nickel as the main component, with a low resistance temperature coefficient, corrosion resistance and brazing. The original variable resistance and strain resistance of AC instruments can be made.

主要产品

MAIN PRODUCTS

1、常规国家标准产品牌号及化学成分

Specification & Chemical elements

合金牌号 Specification	化学成分(质量分数)% Chemical elements									其它 Margin
	C	P	S	Mn	Si	Cr	Ni	Al	Fe	
Cr20Ni80	0.08	0.023	0.015	0.60	0.75~1.60	20.0-23.0	余/Excess	≤ 0.50	≤ 1.0	微量元素 元素适量 Trace elements in moderation
Cr30Ni70	0.08	0.023	0.015	0.60	0.75~1.60	28.0-31.0	余/Excess	≤ 0.50	≤ 1.0	
Cr15Ni60	0.08	0.023	0.015	0.60	0.75~1.60	18.0-18.0	55.0~51.0	≤ 0.50	余/Excess	
Cr20Ni35	0.08	0.023	0.015	1.00	1.00~3.00	18.0-21.0	34.0-37.0	-	余/Excess	
Cr20Ni30	0.08	0.023	0.015	1.00	1.00~3.00	18.0-21.0	≤ 0.50	-	余/Excess	
1Cr13A14	0.12	0.025	0.020	0.50	≤ 0.70	12.0-15.0	≤ 0.50	4.0~6.0	余/Excess	稀土微量 元素适量 Moderate amount of rare earth trace elements
0Cr20A13	0.08	0.025	0.020	0.50	≤ 0.70	18.0-21.0	≤ 0.50	3.0~4.2	余/Excess	
0Cr23A15	0.06	0.025	0.020	0.50	≤ 0.60	20.5-21.5	≤ 0.50	4.2~5.3	余/Excess	
0Cr20A16RE	0.04	0.025	0.020	0.50	≤ 0.40	19.0-21.0	≤ 0.50	5.0~6.0	余/Excess	
0Cr25A15	0.06	0.025	0.020	0.50	≤ 0.60	23.0-25.0	≤ 0.50	4.5~6.5	余/Excess	
0Cr21A16Nb	0.05	0.025	0.020	0.50	≤ 0.60	21.0-23.0	≤ 0.50	5.0~7.0	余/Excess	
0Cr24A16RE	0.04	0.025	0.020	0.50	≤ 0.40	22.0-25.0	≤ 0.50	5.0~7.0	余/Excess	
0Cr27A17MO ₂	0.05	0.025	0.020	0.20	≤ 0.40	26.5-27.8	≤ 0.50	6.0~7.0	余/Excess	

2、根据客户要求,可定制化产品

Customization

合金牌号 Specification	化学成分(质量分数)% Chemical elements									其它 Margin
	C	P	S	Mn	Si	Cr	Ni	Al	Fe	
0Cr21A16	0.06	0.025	0.025	0.70	≤ 1.00	19.0-22.0	≤ 0.60	5.0~7.0		微量元素 元素适量 Trace elements in moderation
0Cr21A14	0.06	0.025	0.020	0.50	≤ 0.70	19.0-22.0	≤ 0.60	4.0-5.0	余/Excess	
0Cr18A13	0.08	0.030	0.020	0.50	≤ 0.70	17.0-21.0	≤ 0.60	3.0-4.2	余/Excess	
1Cr12A13	0.12	0.030	0.020	0.50	≤ 0.70	12.0-15.0	≤ 0.60	3.0-4.2	余/Excess	

镍铬、镍铬铁合金丝系列设计参数

Nichrome, Ni-Cr-Felalloy design parameters

线径 mm	截面积 mm ²	每米表面积 cm ² /m	Cr20Ni80		Cr30Ni70		Cr15Ni60		Cr20Ni35	
			每米重量 kg/m	每米电阻 Ω/m, 20°C	每米重量 kg/m	每米电阻 Ω/m, 20°C	每米重量 kg/m	每米电阻 Ω/m, 20°C	每米重量 kg/m	每米电阻 Ω/m, 20°C
0.10	0.007854	3.142	0.00006597	138.8	0.00006362	150.2	0.00006440	142.6	0.00006205	132.4
0.12	0.01131	3.770	0.00009500	96.38	0.00009161	104.3	0.00009274	99.03	0.00008935	91.96
0.15	0.01767	4.712	0.0001484	61.68	0.0001431	66.77	0.0001449	63.38	0.0001396	58.85
0.17	0.02270	5.341	0.0001907	48.02	0.0001839	51.99	0.0001861	49.34	0.0001793	45.82
0.19	0.02835	5.969	0.0002382	38.44	0.0002297	41.62	0.0002325	39.50	0.0002240	36.68
0.21	0.03464	6.597	0.0002909	31.47	0.0002806	34.07	0.0002840	32.34	0.0002736	30.03
0.25	0.04909	7.854	0.0004123	22.21	0.0003976	24.04	0.0004025	22.82	0.0003878	21.19
0.27	0.05726	8.482	0.0004809	19.04	0.0004638	20.61	0.0004695	19.56	0.0004523	18.16
0.29	0.06605	9.111	0.0005548	16.50	0.0005350	17.86	0.0005416	16.96	0.0005218	15.75
0.31	0.07548	9.739	0.0006340	14.44	0.0006114	15.63	0.0006189	14.84	0.0005963	13.78
0.35	0.09621	11.00	0.0008082	11.33	0.0007793	12.26	0.0007889	11.64	0.0007601	10.81
0.40	0.1257	12.57	0.001056	8.674	0.001018	9.390	0.001030	8.913	0.0009927	8.276
0.45	0.1590	14.14	0.001336	6.835	0.001288	7.419	0.001304	7.042	0.001256	6.539
0.50	0.1963	15.71	0.001469	5.551	0.001590	6.010	0.001610	5.704	0.001551	5.297
0.60	0.2827	18.85	0.002375	3.855	0.002290	4.173	0.002318	3.961	0.002234	3.678
0.70	0.3848	21.99	0.003233	2.832	0.003117	3.066	0.003156	2.910	0.003040	2.702
0.80	0.5027	25.13	0.004222	2.168	0.004072	2.3488	0.004122	2.228	0.003971	2.069
0.90	0.6362	28.27	0.005344	1.713	0.005153	1.855	0.005217	1.761	0.005026	1.635
1.00	0.7854	31.42	0.006597	1.388	0.006362	1.502	0.006440	1.426	0.006205	1.324
1.20	1.131	37.70	0.009500	0.9638	0.009161	1.043	0.009274	0.9903	0.008935	0.9196
1.40	1.539	43.98	0.01293	0.7081	0.01247	0.7665	0.01262	0.7276	0.01216	0.6756
1.60	2.011	50.27	0.01689	0.5421	0.01629	0.5869	0.01649	0.5570	0.01588	0.5173
1.80	2.545	56.55	0.02138	0.4283	0.02061	0.4637	0.02087	0.4401	0.02010	0.4087
2.00	3.142	62.83	0.02639	0.3470	0.02545	0.3756	0.02576	0.3565	0.02482	0.3310
2.20	3.801	69.12	0.03139	0.2867	0.03079	0.3104	0.03117	0.2946	0.03003	0.2736
2.50	4.909	78.54	0.04123	0.2221	0.03977	0.2404	0.04025	0.2282	0.03878	0.2118
2.80	6.158	87.96	0.05172	0.1770	0.04988	0.1916	0.05049	0.1819	0.04864	0.1689
3.00	7.069	94.25	0.05938	0.1542	0.05726	0.1669	0.05796	0.1584	0.05584	0.1471
3.50	9.621	110.0	0.08082	0.1133	0.07793	0.1226	0.07889	0.1164	0.07601	0.1081
4.00	12.57	125.7	0.1056	0.08674	0.1018	0.09390	0.1030	0.08913	0.09927	0.08276
4.50	15.90	141.4	0.1336	0.06853	0.1288	0.07419	0.1304	0.07042	0.1256	0.06539
5.00	19.63	157.1	0.1649	0.05551	0.1590	0.06010	0.1610	0.05704	0.1551	0.05297
5.50	23.76	172.8	0.1996	0.04588	0.1924	0.04967	0.1948	0.04714	0.1877	0.04377
6.00	28.27	188.5	0.235	0.03855	0.2290	0.04173	0.2318	0.03961	0.2234	0.03678
6.50	33.18	204.2	0.275	0.03285	0.2688	0.03556	0.2721	0.03375	0.2621	0.03134
7.00	38.48	219.9	0.319	0.02832	0.3117	0.03066	0.3156	0.02910	0.3040	0.02702

铁铬铝合金丝系列设计参数

Fe-Cr-Al alloy wire design parameters

线径 mm	截面积 mm ²	每米表面积 cm ² /m	0Cr25Al5		0Cr21Al6Nb		0Cr27Al7Mo2	
			每米重量 kg/m	每米电阻 Ω/m,20°C	每米重量 kg/m	每米电阻 Ω/m,20°C	每米重量 kg/m	每米电阻 Ω/m,20°C
0.10								
0.12								
0.15								
0.17								
0.19								
0.21								
0.25								
0.27								
0.29								
0.31								
0.35								
0.40								
0.45								
0.50								
0.60								
0.70								
0.80								
0.90								
1.00								
1.20								
1.40								
1.60								
1.80								
2.00								
2.20								
2.50								
2.80								
3.00								
3.								

主要装备

MAJOR EQUIPMENT



高速多道次直线式连续拉丝机

由多个拉拔头组成的连续生产设备,通过逐级拉拔,一次性地把钢丝、铜丝等冷拉到所需的规格,并将成品线材收卷,工作效率比较高,设备占地面积小;可减轻拔丝机械强度,提高拔丝速度和产品质量。

High-speed multi-channel drawing machine

The continuous production equipment composed of multiple leaders pulls the steel wire and copper wire to the required specifications once and rolls the finished wire, with high working efficiency and small equipment footprint, which can reduce the mechanical strength and improve the wire drawing speed and product quality.



连续气体保护退火炉

把需要退火的粗线落框材料置于带保护气氛的管内,以电加热方式对钢丝按照规定的工艺曲线进行热处理,工件在保护气氛氛围拉拔按照规定的时间连续运行,从而达到光亮和退火的目的。工件表面光亮无氧化、材料软硬及性能一致。

The annealing furnace of continuous gas protects

The material that needs to be annealed is placed in the pipe with protective atmosphere, the steel wire is heat treated according to the specified process curve by electric heating, and the piece is pulled in the protective atmosphere according to the specified time, so as to achieve the purpose of light and annealing. The surface of the piece is bright without oxidation, and the material is soft, hard and consistent.



高速直线油拉机

由多套模具拉拔组成的连续生产设备,通过逐级拉拔,一次性把合金丝拉拔到所需规格,并将成品线材收卷,工作效率高,设备占地面积小,可减轻拔丝机械强度,提高拔丝速度和产品质量。

High speed linear oil machine

The continuous production equipment composed of multiple sets of mold drawing pulls the alloy wire to the required specifications step by step, and rolls the finished wire. The working efficiency is high and the equipment covers a small area, which can reduce the mechanical strength of wire drawing, and improve the wire drawing speed and product quality.



连续气体保护退火炉

把需要退火的细线上轴材料置于带保护气氛的管内,以电加热方式对钢丝按照规定的工艺曲线进行热处理,工件在保护气氛氛围拉拔按照规定的时间连续运行,从而达到光亮和退火的目的。工件表面光亮无氧化、材料软硬及性能一致。

The annealing furnace of continuous gas protects

Continuous gas shielded annealing furnace Place the thin wire material to be annealed in a tube with a protective atmosphere Internally, the steel wire is electrically heated according to the specified process The curve is heat treated, and the workpiece is pulled in a protective atmosphere Pull out the light by running continuously for a specified time, thus reaching the light Brightening and annealing purposes. The surface of the workpiece is bright and oxidation-free,The material is soft and hard and has the same performance.

