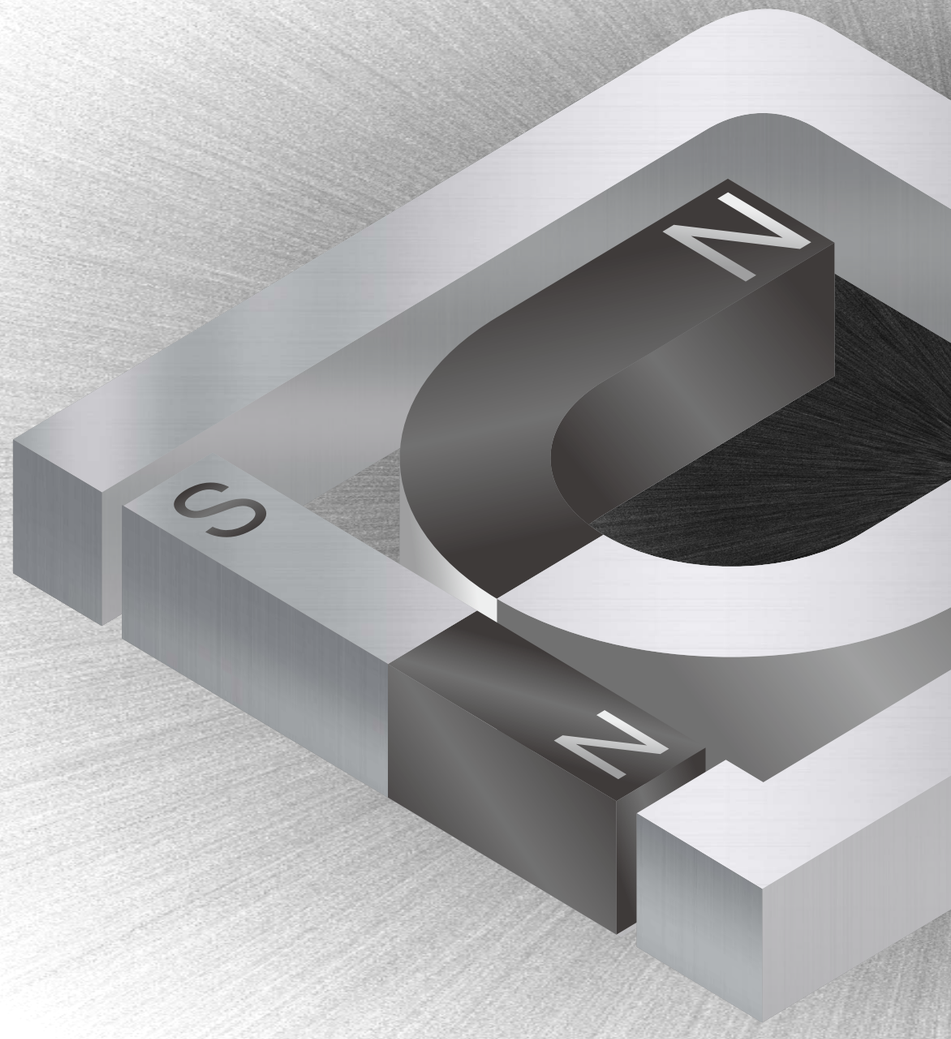
金坤磁铁



东莞金坤新材料股份有限公司
DONGGUAN JINCONN NEW MATERIAL HOLDINGS CO.,LTD.

地址：广东省东莞市道滘镇小河工业区
Address:Xiaohe Industry Zone,Daojiao Town,Dongguan City,
Guangdong Province,China
电话：+86 0769-8564 2967
传真：+86 0769-2328 6819
邮箱 . info@magnet-china.net

稀土磁铁制造及应用方案服务商
MAGNET APPLICATION & MANUFACTURING PROVIDER

东莞金坤新材料股份有限公司
DONGGUAN JINCONN NEW MATERIAL HOLDINGS CO.,LTD.

JINCONN

1 金坤铸磁 大匠营局

JINCONN MAGNET LEADS THE INDUSTRY

东莞金坤新材料股份有限公司成立于2011年，是一家集稀土永磁钕铁硼产品研发、生产和销售为一体的国家高新技术企业、广东省“专精特新”企业、国家专精特新重点“小巨人”企业。

公司坚持以市场为导向，聚焦稀土永磁和磁组件产品，建立产学研合作基地和工程技术中心，提高快速响应能力和市场综合竞争力。目前产品已通过ISO9001、ISO14001、IATF16949、ISO27001、QC080000体系认证和知识产权管理体系等认证。主要产品为高性能钕铁硼永磁材料，具有高磁能积、高矫顽力，高稳定性等特性，是高端5G/3C消费电子、汽车电子、智慧家居、永磁电机、智能机器人等重要前沿领域产品的重要功能材料。近年来公司已成长为国内外知名客户长期重要的永磁材料合作伙伴。

Dongguan Jinconn New Material Holdings Co., Ltd. was established in 2011. It is a national high-tech enterprise integrating the research and development, production and sales of rare earth permanent NdFeB magnet products. Jinconn has obtained provincial certification of “Specialized and sophisticated enterprises that produce new and unique products” and national certification of “The Little Giant Company”.

The company adheres to the market orientation, focuses on rare earth permanent magnet and magnetic component products, establishes an industry-university-research cooperation base and an engineering technology center, and improves its rapid response capability and comprehensive market competitiveness. At present, it has passed ISO9001, ISO14001, IATF16949, ISO27001, QC080000 and intellectual property management system certification, etc. The main products are high-performance NdFeB permanent magnet materials. It is an important functional material for high-end 5G/3C consumer electronics, automotive electronics, smart home applications, permanent magnet motors, intelligent robots and other important products in important fields, and has become a long-term and important permanent magnet material partner for well-known domestic and foreign customers.

核心文化
CORE CULTURE

企业愿景
Enterprise Vision
做中国磁铁行业标杆企业
Be a benchmark enterprise in China magnet industry

企业使命
Enterprise Duty
为科技发展贡献一份力量
To become part of technology development in magnet application field

企业宗旨
Enterprise Purpose
企业与个人同发展
企业与社会同发展
Developing with individual and society

核心价值观
Core Values
责任为魂 创新共赢 品质第一
Responsibility, creativity and quality control to create win-win situation

管理理念
Management concept
科学决策 体系规范
高效执行 绩效导向
Scientific and standardized decision system for high effect performance

发展历程
DEVELOPMENT HISTORY

2022
- 参股央企中国稀土集团磁材毛坯生产子公司
  Jinconn took a stake in the subsidiary of the raw material production of China Rare Earth Group
- 成立宁波金坤稀土永磁制品有限公司全资子公司
  Established a wholly-owned subsidiary of Ningbo Jinconn Rare Earth Products Co., Ltd.
- 通过“ISO27001信息安全管理体系”认证
  Passed the "ISO27001 Information Security Management System" certification

2021
- 荣获“国家专精特新重点小巨人企业”荣誉称号
  Won the honorary title of "National High-quality Development of Technologically Advanced Key Small Giant Enterprise"

2020
- 荣获“广东省专精特新标兵企业”荣誉称号
  Won the honorary title of "High-quality Development of Technologically Advanced Model Enterprise"

2019
- 创立“东莞市磁性材料行业协会”并担任会长单位
  Established the "Dongguan Magnetic Materials Industry Association" and won the Chairman Unit
- 担任“广东省稀土行业协会”副会长单位
  Won the Vice President Unit of "Guangdong Rare Earth Industry Association"

2018
- 通过“知识产权管理体系”认证
  Passed the "Intellectual Property Management System" certification

2017
- 荣获国家“高新技术企业”认定
  Won the national "High-Tech Enterprise"

2016
- 新三板挂牌（股票代码：838939）
  Listed on the National Equities Exchange and Quotations (stock code: 838939)

2015
- 通过IATF16949体系认证
  Passed the IATF16949 certification

2012
- 通过ISO9001/ISO14001体系认证
  Passed ISO9001/ISO14001 certification

2011
- 公司成立
  Founded

公司荣誉 COMPANY HONORS

主导撰写《烧结钕铁硼永磁材料机械加工》团体标准，T/CSRE 6001-2021

参与制定国家标准：《永磁体磁偏角的测量方法》20213072-T-604和《永磁体表面磁场分布测试方法》20213073-T-604

参与制定行业标准：《非机动车驱动电机用烧结钕铁硼磁钢》2020-0287T-JB

Leading the writing of the group standard "Machining of Sintered NdFeB Permanent Magnet Materials", T/CSRE 6001-2021

Participated in the formulation of two national standards: "Measurement Method of Magnetic Declination Angle of Permanent Magnet" 20213072-T-604 and "Test Method of Magnetic Field Distribution on Permanent Magnet Surface" 20213073-T-604

Participated in the formulation of standard: "Sintered NdFeB Magnets for Non-motor Vehicle" 2020-0287T-JB

企业奖牌 ENTERPRISE MEDALS

企业专利 ENTERPRISE PATENTS

环保认证 ENVIRONMENTAL CERTIFICATIONS

ROHS

REACH COMPLIANT

HF

体系证书 SYSTEM CERTIFICATIONS

IATF 16949

ISO 9001

ISO 14001

ISO 27001

全国区域布局图 NATIONAL REGIONAL LAYOUT MAP

公司立足于粤港澳大湾区，依托其升级完善的产业链，积累创新的成果和丰富的5G应用，为公司未来的发展注入了强劲的动力；放眼全国，金坤积极在长三角和包头稀土产区布局新产能，为国内外客户提供更具价值的产品和服务。

Based on the Guangdong-Hong Kong-Macao Greater Bay Area, the company relies on its upgraded and perfect industrial chain, accumulates innovative results and rich 5G applications, whcih inject a strong impetus for the company's future development. Looking at the whole country, Jinconn actively deploys new production capacity in the Yangtze River Delta and Baotou rare earth production areas to provide more valuable products and services for domestic and foreign customers.

金坤注重团队合作，狠抓人才队伍建设，积极引进高技术人才，大力加强科研投入，为产品的研发提供坚实的保障。公司用心倾听客户的声音，专注分析客户的产品需求，精益求精完成客户既定任务，坚持秉承诚信为本积极进取的态度取得客户的认可和支持。

Focusing on teamwork, listening carefully to the voices of customers, analyzing attentively the product needs of customers, and meticulously working hard to ensure the completion of tasks are the foundation of Jinconn’s foothold in the market and the magic weapon to continuously obtain customer support.

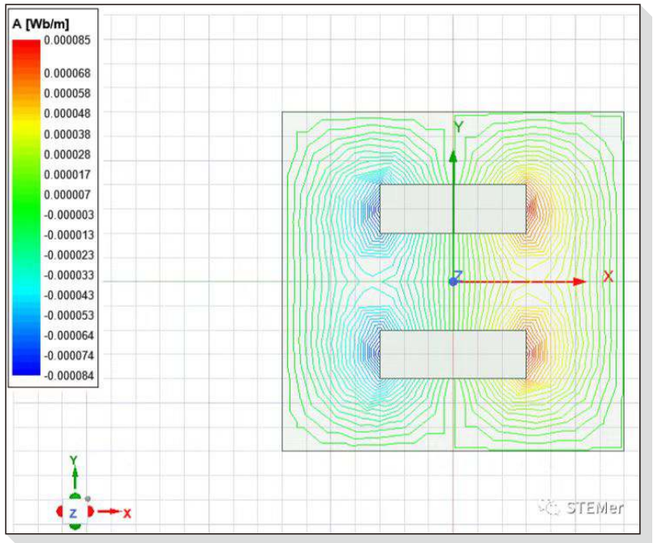
销售团队 Sales team

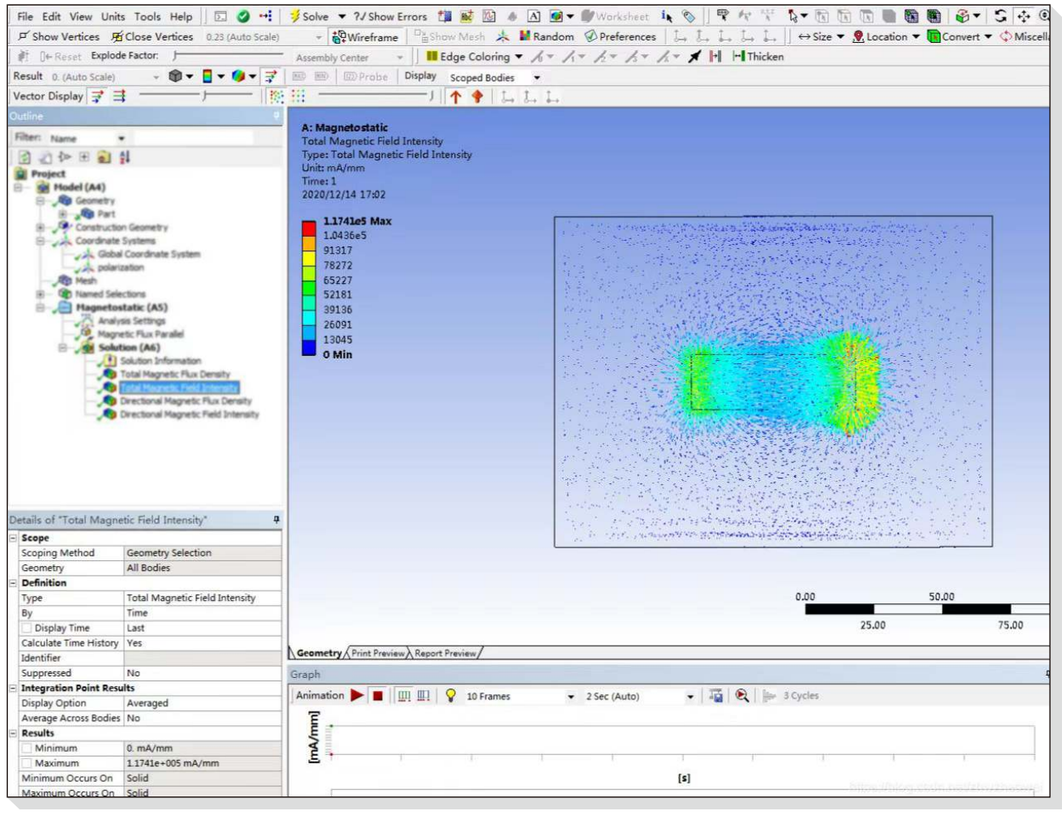
制造骨干 Manufacturing team

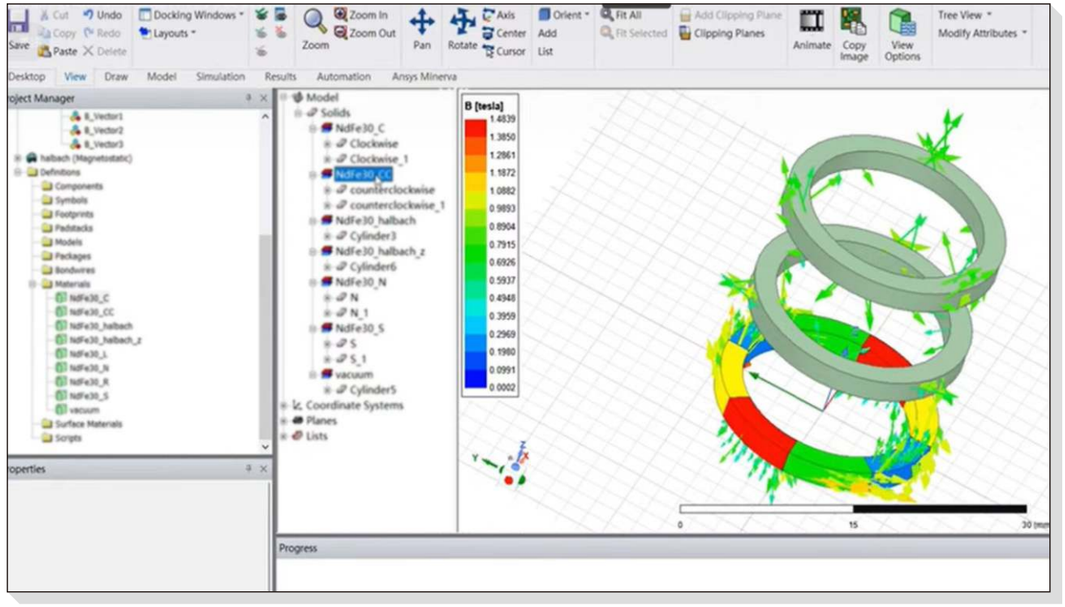
研发精英 R&D team

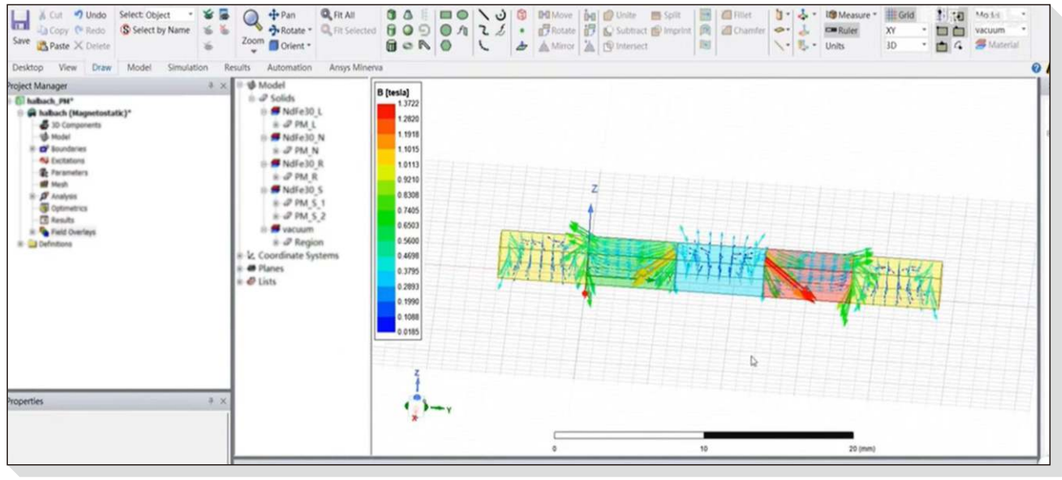
金坤拥有一流的工程技术人才和实验软硬件设备，坚持以仿真驱动研发，在客户产品研发体系中，提前介入磁性设计领域，利用动静态仿真技术进行方案的快速论证，完成关键设计参数的优化和确定，帮助客户缩短开发周期和成本，为客户带来真正的商业价值，成为助力客户市场发展的重要伙伴。

With first-class engineering and technical personnel, as well as testing software and hardware, Jinconn takes a simulation-driven approach to research and development. Using dynamic and static simulation technology, it demonstrates the magnetic design scheme and completes the optimization of key design parameters in advance of the customer's product research and development process. Our goal is to help customers shorten the development cycle and cost, bring real business value, and become a valuable partner in helping them reach their market goals.









光学自动测量机
Auto optical inspection machine

公司依托大湾区的自动化产业链优势，持续引进和自主开发磁材生产和检验等各种精密自动化设备，以提高生产效率和缩短产品交付周期，以确保在市场竞争中保持领先水平；现有各类设备500余台，已具备年产约10亿片成品产能。

Relying on the advantages of the automation industry chain in the Greater Bay Area, the company continues to introduce and independently develop various precision automation equipment for magnetic material production and inspection to improve production efficiency and shorten product delivery cycles to ensure the leading level in market competition. There are today more than 500 sets of various types of equipment, with an annual production capacity of about 1 billion pieces of finished products.

智能磁片排列设备
Intelligent magnet products arrangement equipment

多线切割机
Multi wire cutting machine

二次元投影检测
Binary projector inspection

充磁
Magnetization

包装
Packaging

全自动数控内圆切片设备
Automatic inner round cutting machine

磁矩测试仪
Magnetic moment measure equipment

电感耦合等离子体光谱仪
Inductively coupled plasma spectrometer

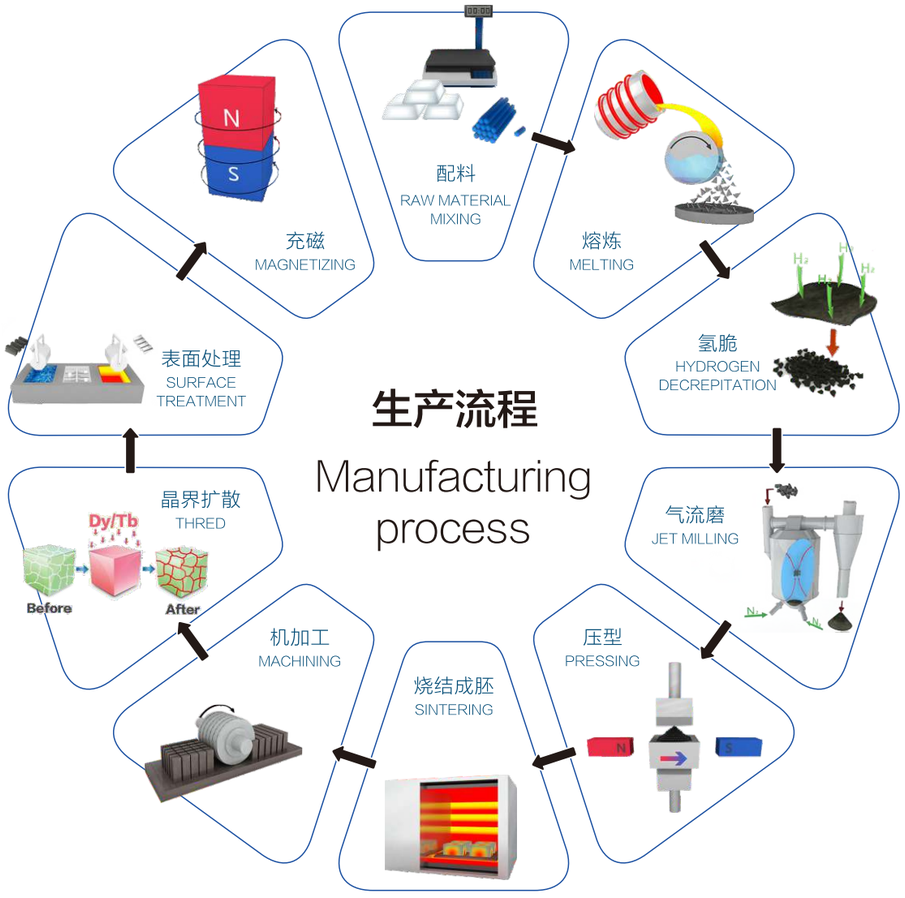
高斯计
Gauss gauge

磁通计
Fluxmeter

磁化特性自动测量仪
Automatic measuring instrument for magnetization characteristics

可编程式恒温恒湿试验机
Programmable constant temperature and humidity tester

UX200-XRF RoHS环保测试仪
UX200-XRF RoHS tester



原材料及原材料工厂
RAW MATERIALS AND RAW MATERIAL FACTORIES

原材料
Raw material

速凝薄带炉
Strip casting furnace

氢碎炉
Hydrogen decrepitation furnace

全自动磁场成型压机
Automatic magnetic field compression molding machine

真空烧结炉
Vacuum sintering furnace

钕铁硼产品 NDFEB MAGNET PRODUCT

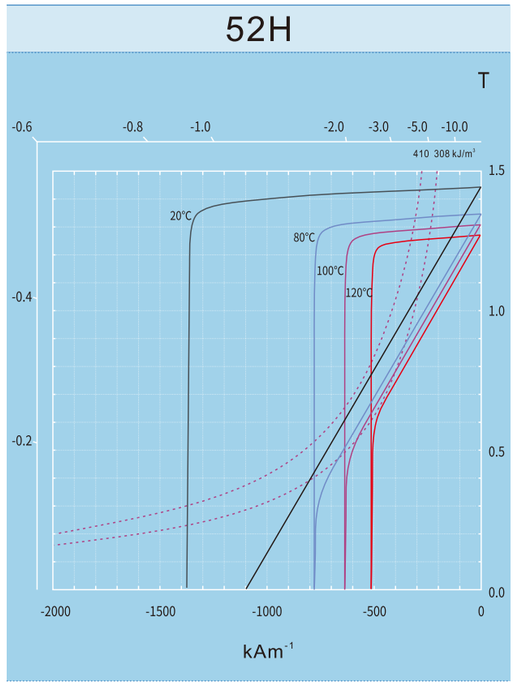
烧结钕铁硼性能参数 SINTERED NDFEB PERFORMANCE PARAMETERS

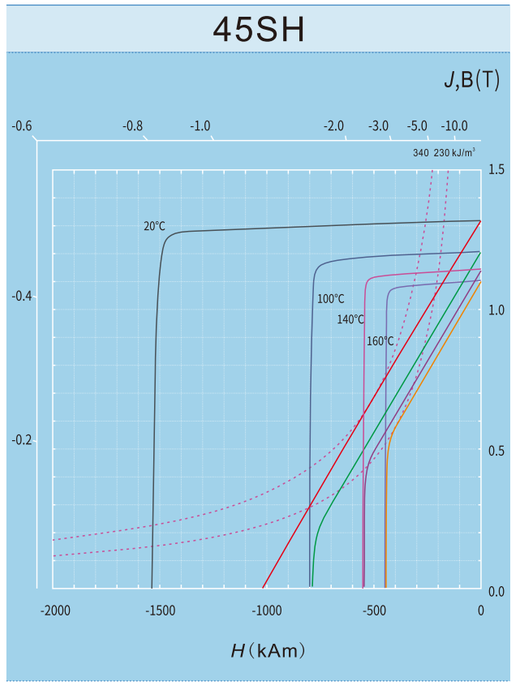
系列	牌号 Magnet Grades	剩磁Br Remanence Br				内禀矫顽力Hcj Coercivity Hcj		矫顽力Hcb Coercivity Hcb		最大磁能积（BH）max Max Energy Product (BH)max				密度 Density ρ	最高工作温度 maximum working temperature	方形度 Demagnetization curve rectangularity%	回复磁导率 Magnetic permeability
		T		KGS		KA/m	KOe	KA/m	KOe	KJ/m³		MGOe		g/cm³	℃	HK/HCJ	μ rec
		Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.	Min.	Max.	Min.	Max.	Typ.	(L/D=0.7)Typ.	Min	Typ.
N	N56	1.48	1.52	14.8	15.2	876	11	836	10.5	414	454	52	57	7.50	80	95	
	N54	1.45	1.49	14.5	14.9	955	12	836	10.5	406	438	51	55				
	N52	1.42	1.46	14.2	14.6	955	12	836	10.5	390	422	49	53				
	N50	1.39	1.44	13.9	14.4	955	12	836	10.5	366	406	46	51				
	N48	1.37	1.42	13.7	14.2	955	12	836	10.5	358	390	45	49				
	N45	1.33	1.37	13.3	13.7	955	12	860	10.8	342	366	43	46				
	N42	1.29	1.33	12.9	13.3	955	12	860	10.8	318	342	40	43				
	N40	1.26	1.29	12.6	12.9	955	12	860	10.8	302	326	38	41				
	N38	1.23	1.26	12.3	12.6	955	12	860	10.8	287	310	36	39				
	N35	1.18	1.23	11.8	12.3	955	12	860	10.8	263	287	33	36				
M	56M	1.46	1.50	14.6	15.0	1114	14	1075	13.5	422	446	51	56	7.50	100	95	1.05
	54M	1.44	1.49	14.4	14.9	1114	14	1043	13.1	398	438	50	55				
	52M	1.42	1.46	14.2	14.6	1114	14	1043	12.8	382	422	48	53				
	50M	1.39	1.44	13.9	14.4	1114	14	1043	13.0	366	406	46	51				
	48M	1.37	1.42	13.7	14.2	1114	14	1027	12.7	358	390	45	49				
	45M	1.33	1.38	13.3	13.8	1114	14	1003	12.2	334	366	42	46				
	42M	1.29	1.33	12.9	13.3	1114	14	938	11.8	318	342	40	43				
	40M	1.26	1.29	12.6	12.9	1114	14	910	11.4	302	326	38	41				
	38M	1.23	1.26	12.3	12.6	1114	14	876	11.0	287	310	36	39				
	35M	1.18	1.23	11.8	12.3	1114	14	860	10.8	263	287	33	36				
H	56H	1.45	1.50	14.5	15.0	1274	16	1091	13.7	406	446	51	56	7.50	120	95	
	54H	1.44	1.49	14.4	14.9	1353	17	1075	13.5	398	438	50	55				
	52H	1.42	1.46	14.2	14.6	1353	17	1059	13.3	382	422	48	53				
	50H	1.39	1.44	13.9	14.4	1353	17	1043	13.1	366	406	46	51				
	48H	1.37	1.42	13.7	14.2	1353	17	1027	12.9	358	390	45	49				
	45H	1.34	1.39	13.4	13.9	1353	17	955	12.5	342	374	43	47				
	42H	1.29	1.34	12.9	13.4	1353	17	957	12.0	318	350	40	44				
	40H	1.26	1.32	12.6	13.2	1353	17	930	11.7	302	334	38	42				
	38H	1.22	1.27	12.2	12.7	1353	17	910	11.4	279	318	35	40				
	35H	1.18	1.23	11.8	12.3	1353	17	876	11.0	247	271	31	34				
SH	52SH	1.41	1.46	14.1	14.6	1592	20	1059	13.3	374	414	47	52	7.50	150	90	1.05
	50SH	1.39	1.44	13.9	14.4	1592	20	1043	13.1	366	406	46	51				
	48SH	1.37	1.42	13.7	14.2	1592	20	1027	12.9	358	390	45	49				
	45SH	1.33	1.38	13.3	13.8	1592	20	1003	12.6	334	366	42	46				
	42SH	1.29	1.34	12.9	13.4	1592	20	979	12.3	318	350	40	44				
	40SH	1.26	1.32	12.6	13.2	1592	20	955	12.0	302	334	38	42				
	38SH	1.22	1.27	12.2	12.7	1592	20	931	11.7	279	318	35	40				
	35SH	1.18	1.25	11.8	12.5	1592	20	884	11.1	263	302	33	38				
UH	50UH	1.39	1.43	13.9	14.3	1910	25	1035	12.9	358	390	47	51	7.55	180	90	
	48UH	1.37	1.42	13.7	14.2	1910	25	1019	12.9	358	390	45	49				
	45UH	1.33	1.38	13.3	13.8	1910	25	979	12.6	334	366	42	46				
	42UH	1.29	1.34	12.9	13.4	1990	25	971	12.3	318	350	40	44				
	40UH	1.26	1.32	12.6	13.2	1990	25	955	12.0	302	334	38	42				
	38UH	1.22	1.27	12.2	12.7	1990	25	923	11.6	279	318	35	40				
	35UH	1.18	1.25	11.8	12.5	1990	25	884	11.1	263	302	33	38				
	33UH	1.14	1.19	11.4	11.9	1990	25	860	10.8	247	279	31	35				
EH	45EH	1.32	1.36	13.2	13.6	2308	30	995	12.5	334	366	42	46	7.60	200	90	
	42EH	1.29	1.34	12.9	13.4	2308	30	979	12.3	318	350	40	44				
	40EH	1.26	1.32	12.6	13.2	2388	30	955	12.0	302	334	38	42				
	38EH	1.22	1.27	12.2	12.7	2388	30	923	11.6	287	318	36	40				
	35EH	1.18	1.25	11.8	12.5	2388	30	884	11.1	263	302	33	38				
	33EH	1.14	1.19	11.4	11.9	2388	30	860	10.8	247	279	31	35				
	30EH	1.08	1.14	10.8	11.4	2388	30	812	10.2	223	255	28	32				
AH	35AH	1.18	1.25	11.8	12.5	2786	35	884	11.1	263	302	33	38	7.60	230	90	
	33AH	1.14	1.19	11.4	11.9	2786	35	860	10.8	247	279	31	35				
	30AH	1.08	1.14	10.8	11.4	2786	35	812	10.2	223	255	28	32				
VH	30VH	1.08	1.14	10.8	11.4	3104	39	812	10.2	223	255	28	32	7.60	250	90	
	28VH	1.05	1.10	10.5	11.0	3104	39	788	9.9	207	239	26	30				

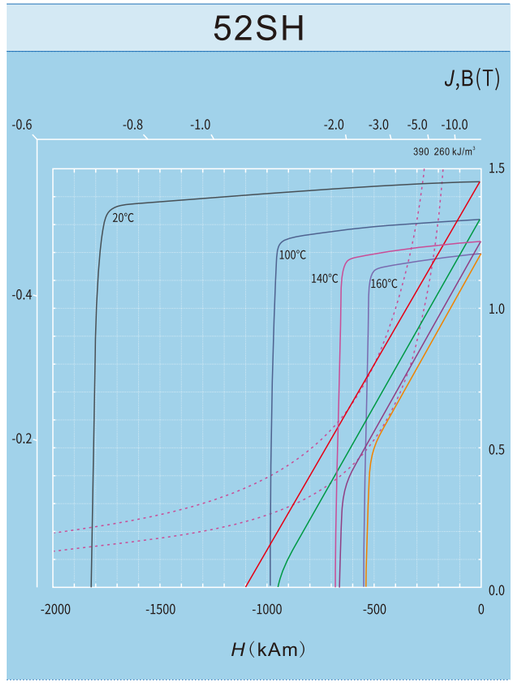
注

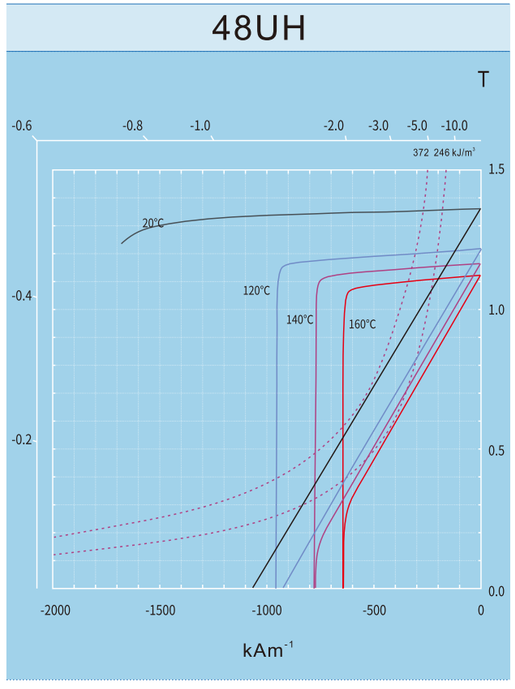
1. **产品牌号表所有牌号性能数据，是符合国家标准GB/T3217-2013检测方法和GB/T29628-2013永磁脉冲测量方法指南；**
   All the properties in this grade table are measured according to the national stardard GB/T3217-2013 and permanent magnet pulse measurement methods guide of GB/T29628-2013;
2. **产品牌号表中的所有牌号温度系数、产品密度及工作温度均为参考值；**
   The data of temperature coefficient, product density and working temperature of all grades in the table are referene values.
3. **表中最高工作温度是指：D10*7标准柱（或符合直径D、高度L:L/D=0.7）开路情况下高温2H且恢复到室温后磁通与未加热前室温下的磁通对比，磁损≤5%的最高温度；**
   Maximum operating temperature refers to:standard cylinder of D10*7(or in line with diameter D and height L:L/D=0.7)under open circuit condition; The magnetic flux after high temperature 2H and return to room temperature was compared with the magnetic flux at room temperature before heating,and the maximum temperature of magnetic loss was ≤5%;
4. **特殊性能要求的产品可根据客户特殊性能要求定制生产。**
   Jinconn Company can produce magnets of special perfomance according to the customer requirements.

退磁曲线图 DEMAGNETIZATION CURVE









烧结钕铁硼机械特性表 TABLE OF MECHANICAL PROPERTIES

尺寸范围 Size range	烧结面偏差 / Sintered surface deviation		加工面偏差 / Machining surface deviation			
	垂直于压制方向 Perpendicular to the pressing direction	压制方向 Pressing direction	平磨 Flat grinding	内外圆磨 Internal and external grinding	线切割 Wire cutting	切片 Slice
≤10	± 0.20	± 0.30	± 0.05	± 0.05	± 0.03	± 0.03
10～20	± 0.30	± 0.40	± 0.05	± 0.08	± 0.05	± 0.05
20～50	± 0.50	± 0.65	± 0.10	± 0.13	± 0.08	± 0.10
50～80	± 1.00	± 1.10	± 0.15	± 0.20	± 0.13	± 0.15

烧结钕铁硼化学成分和制造工艺 CHEMICAL COMPOSITION AND MANUFACTURING PROCESS OF SINTERED NDFEB

烧结钕铁硼永磁材料的化学成分

The chemical composition of sintered NdFeB permanent magnet materials

烧结钕铁硼永磁材料是以金属间化合物 Nd2Fe14B为基础的永磁材料，主要成分为钕(Nd)、铁(Fe)、硼(B）。为了获得不同性能，材料中的钕可用部分镝(Dy)、镨(Pr)等其他稀土金属替代,铁可被钴(Co)、铝(Al)等其他金属部分替代。Nd2Fe14B化合物具有四方晶体结构，具有高的饱和磁化强度和单轴各向异性场，是钕铁硼永磁材料永磁特性的主要来源。

The sintered NdFeB permanent magnet material is based on the intermetallic compound Nd2Fe14B. The main components are neodymium (Nd), iron (Fe), and boron (B). In order to obtain different properties, neodymium in the material can be partially replaced by other rare earth metals such as dysprosium (Dy) and praseodymium (Pr), and iron can be partially replaced by other metals such as cobalt (Co) and aluminum (Al). The Nd2Fe14B compound has a tetragonal crystal structure, high saturation magnetization and uniaxial anisotropy field, and is the main source of the permanent magnetic properties of NdFeB permanent magnet materials.

组分	Nd	Co	B	Dy,Tb,Pr等	其他元素Cu,Al,Nb,Ga等	Fe
含量（质量分数）	20～35%	0～15%	0.8～1.3%	0～15%	0～3%	余量

烧结钕铁硼磁铁主要镀层类型表 MAIN COATING TYPES OF NDFEB MAGNETS

类型	镀层符号 Coating Type	镀层厚度 μm /Coating Thickness	颜色 Coating Color	特点说明/Features
镀　　锌	ZN	3～10	蓝白色/Blue white	较强的耐腐蚀能力，抗盐雾试验能力较强 Good corrosion resistance, Good salt spray resistance
镀镍铜镍	NICUNI	8~30	银白色/Silver	耐腐蚀性能强，具有突出的抗高温，高湿能力 Excellent corrosion resistance, superior resistance against humidity and heat
电泳环氧	Epoxy electrophoretic	15~25	黑色/Black	绝缘，厚度一致性佳，较强的抗高温高湿能力 Insulation, excellent corrosion resistance, superior salt spray resistance, good resistance against humidity and heat
喷涂环氧	EPOXY	15~35	黑色/Black	绝缘，抗盐雾试验能力较强 Insulaiton, good resistance to salt spray test
镍铜镍+银	NICUNI+AG	10~30	银白色/Silver	美观，导电性强，抗盐雾试验能力较强 Nice appearance, strong conductivity, good resistance to salt spray test
镍铜镍+金	NICUNI+AU	10~30	金色Gold	美观，导电性强，抗盐雾试验能力较强 Nice appearance, strong conductivity, good resistance to salt spray test
复合镀层	CU+SN+RH+PD+AU	≥25	金色Gold	美观，耐磨防汗防腐 Nice appearance, Wear-resistant, sweat-resistant and anti-corrosion

钕铁硼产品主要应用领域 MAIN APPLICATION FIELDS OF NDFEB PRODUCTS

5G/3C 消费电子应用 CONSUMER ELECTRONICS
















智慧家居应用 SMART HOME APPLICATIONS








电机类应用 MOTOR

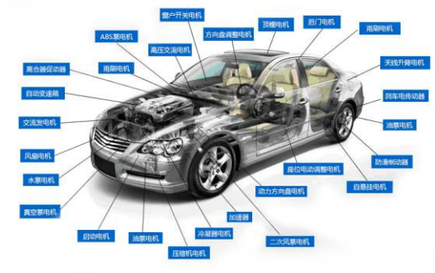







汽车电子类应用 AUTOMOTIVE ELECTRONICS







智能机器人应用 INTELLIGENT ROBOT APPLICATION

烧结钐钴永磁材料参数表 SINTERED SMCO PERFORMANCE PARAMETERS

钐钴（SmCo）磁铁是一种由钐、钴和其他少量元素制成的强永磁体。它以其高磁强度和良好的温度稳定性而闻名。钐钴磁体在室温下通常比钕磁体弱，但在钕磁体停止工作时，它在极端温度下仍能可靠运行。SmCo具有很强的抗腐蚀和抗氧化性，因此通常不需要涂层。由于钐钴磁铁是通过烧结制成的，它非常脆，内部可能会有裂缝。

The samarium cobalt (SmCo) magnet is a strong permanent magnet made of samarium, cobalt, and other minor elements. It is known for its high magnetic strength and good temperature stability. Samarium cobalt magnets are generally weaker than neodymium magnets at room temperature, but when the neodymium magnet stops working, it still operates reliably in extreme temperature conditions. Because SmCo is highly resistant to corrosion and oxidation, coatings are usually not required. Since samarium cobalt magnets are made by sintering, they are very brittle and cracks may appear inside.

材料 Material	牌号 Grade	剩磁 Br Remanence	磁感矫顽力 Hcb Coercivity	内禀矫顽力 Hcj Intrinsic Coercivity	磁能积(BH)m Maximum Energy Product	最高工作温度Tw	剩磁温度系数 α(Br) (20℃-150℃)
		kGs	kOe	kOe	MGOe	℃	%/℃
SmCo5	Xg16	7.7-8.6	7.2-8.4	>20	15-18	250	-0.04
	XG18	8.2-9.0	7.8-8.8	>20	17-20		
	XG20	8.6-9.2	8.2-9	>20	18-21		
	XG22	9.0-9.5	8.5-9.3	>20	20-23		
	XG24	9.5-10	9-9.8	>20	22-24		
	XG25	>9.7	>9.2	>20	23-25		
Sm2Co17	XGS20L	8.6-9.2	4.5-8.8	5-18	18-22	350	-0.035
	XGS20	8.6-9.2	7.8-8.8	18-25	18-22		
	XGS20H	8.6-9.2	7.8-8.8	>25	18-22		
	XGS22L	9.0-9.5	4.5-9.2	5-18	20-24		
	XGS22	9.0-9.5	8.2-9.2	18-25	20-24		
	XGS22H	9.0-9.5	8.2-9.2	>25	20-24		
	XGS24L	9.5-10	4.5-9.7	5-18	22-26		
	XGS24	9.5-10	8.6-9.7	18-25	22-26		
	XGS24H	9.5-10	8.6-9.7	>25	22-26		
	XGS26L	10-10.4	4.5-10	5-18	24-27		
	XGS26	10-10.4	9-10	18-25	24-27		
	XGS26H	10-10.4	9-10	>25	24-27		
	XGS28L	10.4-10.8	4.5-10.5	5-18	26-28		
	XGS28	10.4-10.8	9.5-10.5	18-25	26-28		
	XGS28H	10.4-10.8	9.5-10.5	>25	26-28		
	XGS30L	10.8-11.1	4.5-10.6	5-18	28-30		
	XGS30	10.8-11.1	9.8-10.6	18-25	28-30		
	XGS30H	10.8-11.1	9.8-10.6	>25	28-30		
	XGS32L	11.1-11.4	4.5-10.8	5-18	30-32		
	XGS32	11.1-11.4	10.1-10.8	18-25	30-32		
	XGS32H	11.1-11.4	10.1-10.8	>25	30-32		
	XGS33L	11.3-11.55	4.5-11	5-18	31-33		
	XGS33	11.3-11.55	10.4-11	18-25	31-33		
	XGS33H	11.3-11.55	10.4-11	>25	31-33		
	XGS34L	11.40-11.7	4.5-11.2	5-18	32-34		
	XGS34	11.40-11.7	10.6-11.2	18-25	32-34		
	XGS34H	11.40-11.7	10.6-11.2	>25	32-34		
	XGS35L	11.55-12	4.5-11.2	5-18	33-35		
	XGS35	11.55-12	10.8-11.5	18-25	33-35		
	XGS35H	11.55-12	10.8-11.5	>25	33-35		
	XGS36L	11.8-12.3	4.8-11.5	5-18	34-36		
	XGS36	11.8-12.3	11.1-11.8	18-25	34-36		
	XGS36H	11.8-12.3	11.1-11.8	>25	34-36		
Low Temp.Coeff. Sm2Co17	XGS20LT	8.6-9.2	7.8-8.8	>20	18-20	350	±0.005
	XGS22LT	9.0-9.5	8.2-9.2	>20	20-22	350	-0.005
	XGS24LT	>9.5	>8.7	>20	22-24	350	-0.005
耐高温 Sm2Co17	XGS22HT	9.0-9.5	8.2-9.2	>20	20-22	550	-0.035
	XGS24HT	9.5-10	8.6-9.7	>20	22-24	550	-0.035
	XGS26HT	>10.0	>9.0	>20	24-26	550	-0.035

烧结钐钴永磁材料化学成分和制造工艺 CHEMICAL COMPOSITION AND MANUFACTURING PROCESS OF SMCO MAGNET

SmCo5的化学成分

SmCo5合金每五个钴原子中含有一个钐原子，是第一代钐钴磁体。1:5 SmCo合金的(BH)max从15MGOe到25 MGOe，工作温度高达250℃。SmCo5主要含有Sm和Co，不含铁，因此具有更好的抗腐蚀和抗退磁能力。

The SmCo5 alloy contains one samarium atom in every five cobalt atoms and is the first generation of samarium cobalt magnets. The (BH)max of the 1:5 SmCo alloy is from 15 MGOe to 25 MGOe and the operating temperature is up to 250° C. SmCo5 mainly contains Sm and Co and does not contain iron, so it has better resistance to corrosion and demagnetization.

Sm2Co17的化学成分

与SmCo5相比，2:17 SmCo合金的磁性能表现更好。其(BH)max通常在24MGOe到32MGOe之间变化，工作温度可达300℃。Sm2Co17含有少量其他元素，如铁、铜及钐和钴。这种合金中铁的退出意味着它在高湿度环境中可能会发生轻微腐蚀，因此Sm2Co17磁铁在某些情况下会涂有镍。

Compared with SmCo5, the magnetic properties of the 2:17 SmCo alloy are better. Its (BH)max typically varies from 24 MGOe to 32 MGOe, with operating temperatures up to 300° C. Sm2Co17 contains very few other elements such as iron, copper, as well as samarium and cobalt. The withdrawal of iron in this alloy means that it may corrode slightly in high humidity environments, so Sm2Co17 magnets are in some cases nickel-coated.

烧结钐钴永磁材料应用领域 APPLICATION OF SINTERED SMCO MAGNET

SmCo永磁是一种优越的永磁材料，既具有很高的磁性能，同时又有很强的防腐蚀性、抗氧性化、温度系数低、居里温度高、能在较高环境温度下使用。广泛应用于马达、仪表、传感器、探测器、雷达及其他高科技领域。

SmCo permanent magnet is a superior permanent magnet material, which not only has high magnetic properties, but also has strong anti-corrosion, anti-oxidation, low temperature coefficient, high Curie temperature, and can be used in high ambient temperature. SmCo permanent magnets are widely used in motors, instruments, sensors, detectors, radar and other high-tech fields.

5 积极诚恳 磁性服务

POSITIVE AND SINCERE MAGNETIC SERVICE

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金坤坚持以“责任为魂，创新共赢，品质第一”的核心价值观，历经十余年的诚信经营和大力发展，赢得了国内外众多知名客户的认可和支持。公司与中铝，南北两大稀土集团等重要稀土上下游企业建立了稳定的合作关系，确保了主要原材料的长期、稳定、安全、高效供应。公司不忘初心，砥砺前行，努力成为更多客户的磁材合作伙伴，助力客户取得更大的事业成功。

Jinconn adheres to the core values of‘responsibility as the soul, innovation and win-win, and quality first’. After more than ten years of honesty and vigorous development, it has won the recognition and support of many well-known customers at home and abroad. The company has established stable cooperative relations with important upstream and downstream rare earth enterprises including Chinalco and the two major rare earth groups in the north and south, ensuring the long-term, stable and safe supply of main raw materials; We will never forget our original intention, forge ahead, strive to become the magnetic material partner of more customers, and help customers achieve greater business success.

一站式服务 ONE-STOP SERVICE

24 HOUR SERVICE 24小时服务

磁铁采购信息表 MAGNET PURCHASING INFORMATION SHEET

磁铁材质或磁性能 Magnet material or magnetic properties	
尺寸和公差 Dimensions and Tolerances	
充磁 Magnetizing	☐ 是 Yes ☐ 否 No
充磁是何种方式 How to magnetize	☐ 轴向 Axial ☐ 径向 Radial ☐ 多极 Multi-pole magnetization
磁铁的使用环境 Use of magnets	
加工工艺环境的最高温度 Maximum temperature of process environment	
表面处理 Surface treatment	☐ 镀锌 Zinc Coating ☐ 镀镍 Nickel Coating ☐ 环氧 Epoxy ☐ 镀金 Gold Coating
订购数量 Order quantity	
其它要求备注 Other requirements	

稀土是国家的重要战略资源，在世界科技发展中起到了至关重要的作用。结合我国力争2030年前实现“碳达峰”和2060年前实现“碳中和”的远景规划，公司牢记“做中国磁铁行业标杆企业”的愿景，践行“为科技发展贡献一份力量”的使命，合理配置资源和技术，为实现全球“碳中和”的宏伟目标贡献自己的力量。

Rare earth is an important strategic resource of China and plays a vital role in the development of science and technology in the world. In combination with the country's long-term plan of striving to achieve "carbon peak" by 2030 and "carbon neutrality" by 2060, the company keeps in mind the vision of "becoming a benchmark enterprise in China's magnet industry" and the mission of "contributing to the development of science and technology", rationally allocates resources and technologies, and contributes our magnetic power to the beautiful cause of "carbon neutrality" worldwide.

六大优势 SIX ADVANTAGES