

www.zhijiangmagnet.com



ZHIJIANG MAGNETICS

>>> 杭州之江磁业有限公司
Hangzhou Zhijiang Magnetics Co.,Ltd

杭州之江磁业有限公司

Hangzhou Zhijiang Magnetics Co.,Ltd

📍 地址：浙江省杭州市萧山区临浦镇精密制造产业园

ADD: Zhudong Village Industrial Zone, Linpu Town,
Xiaoshan District, Hangzhou 311251, P.R.China.

☎ 电话: +8657183738252

☎ 传真: +8657182836906

✉ 邮箱: sales@zhijiangmagnet.com

🌐 网址: www.zhijiangmagnet.com

之江磁业
铸造臻品磁材，打造国际品牌

Always qualified, always competitive
Use magnets, with ZJMAG

Corporate culture

企业文化

01

企业使命

CORPORATE MISSION

- 为打造磁性材料强国而奋斗
Strive for building up a strong magnetic nation

02

企业精神

CORPORATE SPIRIT

- 创新、规则、精进、共赢
Creative, Rules, Progressive, Mutual benefit

03

经营理念

MANAGEMENT IDEA

- 质量优良，以人为本，
系统管理，持续改进
Superior in quality, Based on humanbeings, Systematically management, Sustainable improvement

04

质量方针

QUALITY POLICY

- 以顾客为中心，以质量求生存，
以创新谋发展，以诚信赢市场
Customer-oriented, Quality-gauranteed, Innovation-driven, Cooperate faithfully.

05

环境方针

ENVIRONMENTAL POLICY

- 遵纪守法，预防污染；
节约能源，持续改善
Observe law, Pollution prevention, Energy conservation, Continuously improvement

06

安全方针

SAFETY POLICY

- 安全第一、预防为主、综合治理
Safety first, Prevention focused, Comprehensive administration

之江

铸造臻品磁材 打造国际品牌

Always qualified, always competitive. Use magnets, with ZJMAG.

About us

企业简介

杭州之江磁业有限公司成立于2000年，致力于钕铁硼、铝镍钴和钐钴等磁性材料及组件的生产研发，拥有多项研发专利，是国家级重点高新技术企业，目前已实现生产标准化、工序自动化，并具备年产2000吨的生产能力，通过多项质量体系认证，立志于为客户提供最优秀的产品和最专业的服务，为磁性材料行业的发展贡献全部力量。

ZJMAG, founded in 2000, is committed to the production and development of NdFeB, AlNiCo, SmCo and other magnetic material components. ZJMAG is a national key high-tech enterprise with various patents. We've achieved production standardization and process automation, with an annual production capacity of 2000 tons, has passed a number of quality system certificates. We aim to provide customers with the best products and the most professional services, contribute to the development of the magnetic material industry.



Our advantages

我们的优势

- 杭州之江磁业秉承“质量优良，以人为本，系统管理，持续改进”的经营理念。
- 凭借领先的生产工艺，完善的人员配备，优秀的品质，合理的价格，稳定的出货能力以及积极的售后服务，已经与众多国际优秀企业及知名高校建立了战略合作伙伴关系。
- 之江磁业产品广泛应用于航天航空、汽车工业、消费电子、自动化领域、通讯设备、传感器及各类永磁电机等领域。

ZJMAG adhering to the management idea of "Superior in quality, Based on human beings, Systematically management, Sustainable improvement."

With the leading production technology, perfect staffing, excellent quality, reasonable price, stable delivery capacity and active after-sales service, ZJMAG has established strategic partnership with many international excellent enterprises and famous universities.

ZJMAG's products are widely used in aerospace, automotive industry, electronics industry, automation industry, communication devices, sensors and all kinds of permanent magnetic motors etc.

生产研发

Production R&D



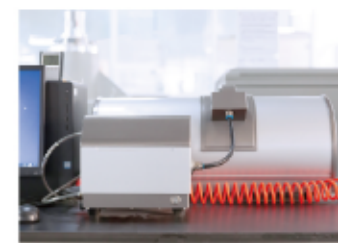
光谱分析仪

Spectrum analyzer



激光粒度分析仪

Laser particle size analyzer



含氧量分析仪

Oxygen content analyzer



硬度测试仪

Hardness tester



之江磁业组建了一支拥有较强开拓能力及丰富专业知识的研发团队，并与国内知名大学浙江工业大学合作成立了磁性材料研究项目，获得了多项发明专利和实用新型专利。

ZJMAG has set up a PRD team with advanced technical innovation capability and profound professional knowledge, has established the research project of magnetic materials with Zhejiang University of Technology, a well-known domestic university, obtained Plenty of invention patents and utility model patents.



Aging test chamber

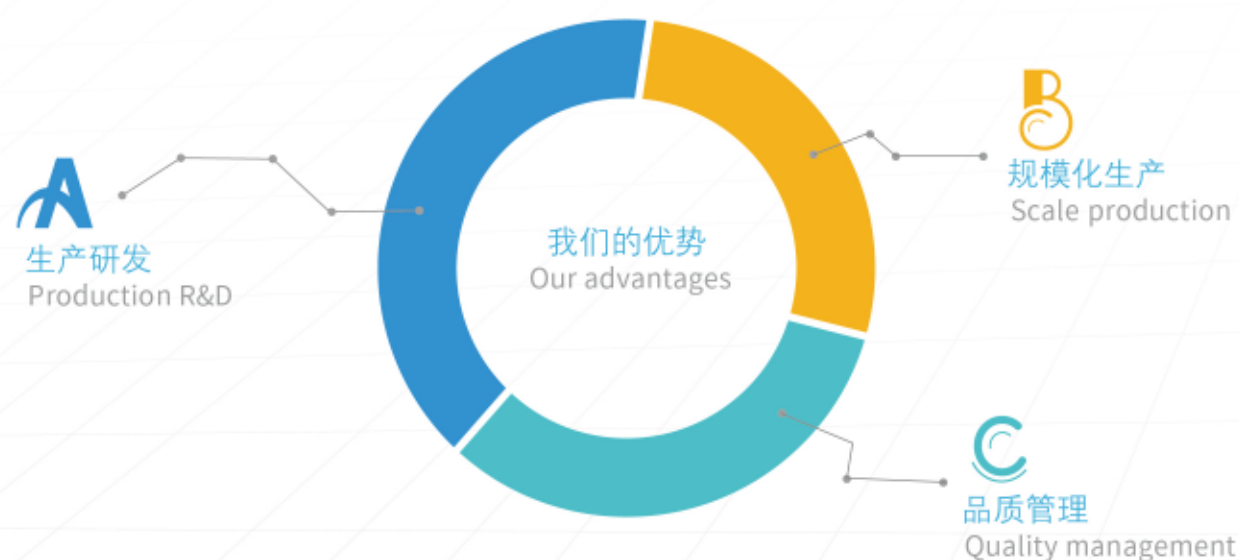
老化试验箱



High and low temperature test chamber

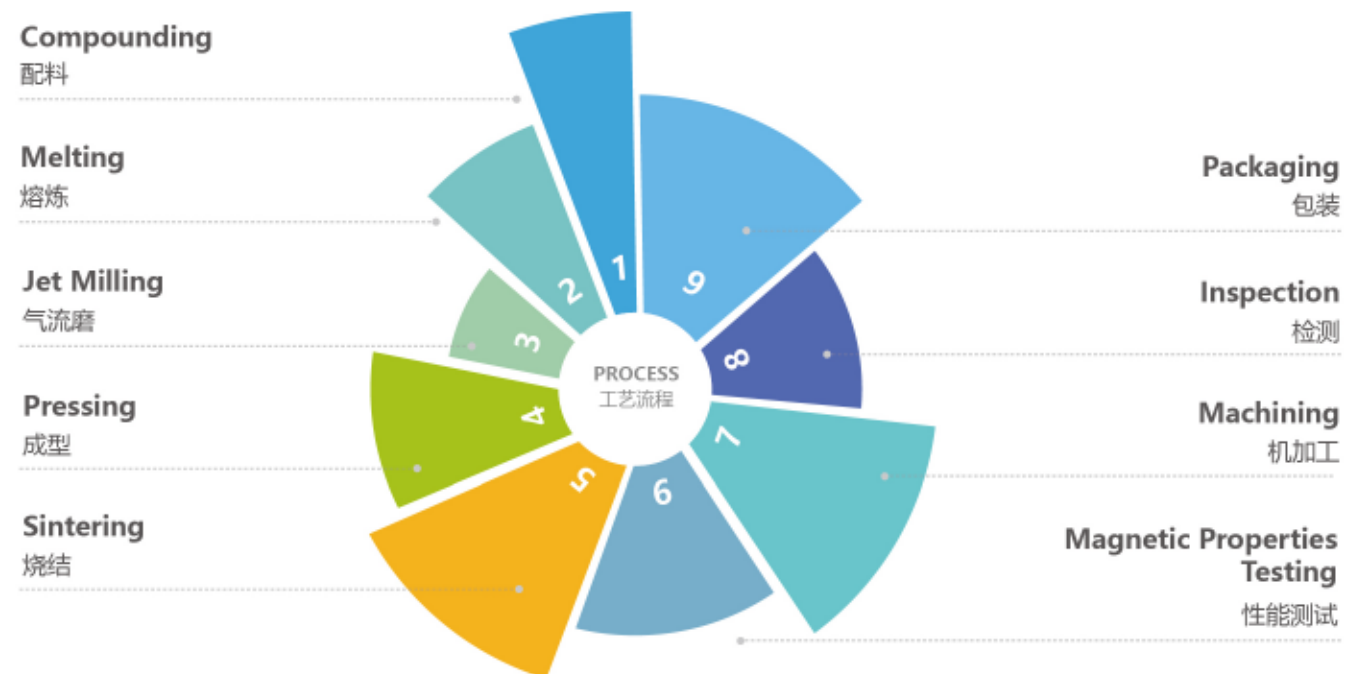
高低温试验箱

专利证书 Patent certificate



规模化生产

Scale production



01 Customer satisfaction $\geq 98\%$
顾客满意度: $\geq 98\%$



通过公司全体230余名员工的努力，之江磁业已实现“一体化”工厂运作，目前的年生产能力可达2000吨。已实现生产标准化、工序自动化，配高精度平面磨、外圆磨、内圆磨、多线加工等先进设备。之江磁业以提质、增效、短交期、高周转为理念，持续降低内部成本，让利于客户，实现双赢的可持续发展。

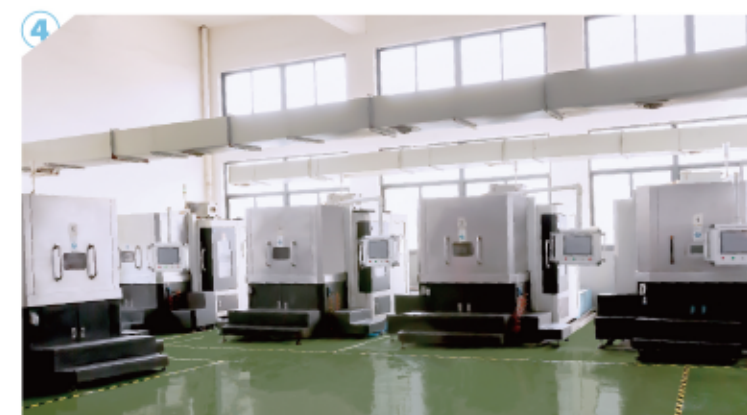
The idea of integrated factory has been implemented through out the dedications from the whole 230 employees. The current annual production capability can reach to 2000 tons. ZJMAG has achieved production standardization and process automation, equipped with advanced equipments such as high-precision surface grinding, cylindrical grinding machine, internal grinding machine, and multi-wire saw machine. ZJMAG will keep working on the fundamental purpose of improve product quality, increasing the production efficiency, shortern delivery period and higher turnover to reduce the internal improving cost, which can maximally benefit the clients.

① ▶ 烧结炉 Vacuum sintering furnace

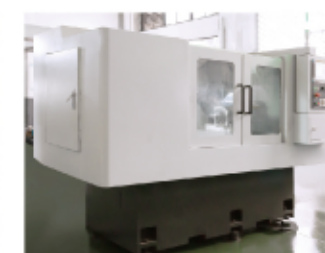
② ▶ 超声波清洗机 Ultrasonic cleaning machine

③ ▶ 线切割 wire-cut machine
精度可达 $\pm 0.02\text{mm}$
Accuracy reach to $\pm 0.02\text{mm}$

④ ▶ 多线切割机 Multi-wire saw machine



▲ 外圆磨床
Cylindrical grinding machine



▲ 内圆磨床
Internal cylindrical grinding machine
精度可达 $\pm 0.005\text{mm}$
Accuracy reach to $\pm 0.005\text{mm}$

▼ 研磨机 Lapping machine
用于研磨工件中的高精度研磨，精度可达 $\pm 0.001\text{mm}$
Used for grinding high-precision, Accuracy up to $\pm 0.001\text{mm}$



▼ 立轴数控平面磨床
Vertical spindle circular table surface grinding machine



品质管理

Quality management

- 之江磁业具备强大的检测能力：
拥有先进的光谱分析仪，工业CCD自动检测仪，三坐标检测仪，X射线镀层测厚仪，裂缝内在缺陷检测仪等实验检测设备。

ZJMAG has strong inspection capability. We have advanced spectrum analyzer, industrial CCD automatic tester, three-coordinate tester, X-ray coating thickness tester, internal crack defect tester and other experimental detection tester.



▲ 工业CCD外观检测仪 Automatic appearance and tolerance test instrument
对产品尺寸及外观进行全检
Automatically full inspection of product appearance and tolerance

资质证书 Qualification certificate



- 之江磁业一贯注重质量体系建设,2005年通过了ISO9001质量体系认证,2019年通过IATF16949汽车行业体系认证,同年通过ISO14001环境体系认证。之江磁业严格遵守安全及环保管理体系要求,做到资源循环利用,产品通过权威机构SGS检测,符合EN71和RoSH标准以及CE和UKCA认证,可以保证长期稳定地为客户提供可靠的优质产品。

ZJMAG always focuses on the constructions of the quality system. We achieved ISO9001 in 2005, IATF16949 and ISO14001 in 2019, strictly complies with the requirements, achieved in resources recycling. All the products have passed SGS inspection, meet EN71 and RoSH standards,as well as CE and UKCA certification, Thereby ZJMAG can stably provide reliable and high-quality products for the customers.



▲ 全自动磁通检测设备
Full automatic magnetic flux tester



▲ 全自动磁偏角测试仪
Full automatic magnetic deviation angle tester



▲ 镀层测厚仪
Coating thickness spectrometer



▲ 盐雾试验仪
Salt-spaying Tester

▲ 三坐标检测仪
Three-Coordinate tester



NdFeB Magnet

钕铁硼

- 钕铁硼磁铁具有高剩磁、高矫顽力的特点，广泛应用于直流电机、无刷电机、扬声器、核磁共振及其他高科技领域。

NdFeB is a high-performanced permanent magnet, characterized with high remanence and coercivity. It is widely used in DC motors, brushless motors, loudspeakers, nuclear magnetic resonance and other high-tech fields.

钕铁硼产品

Products

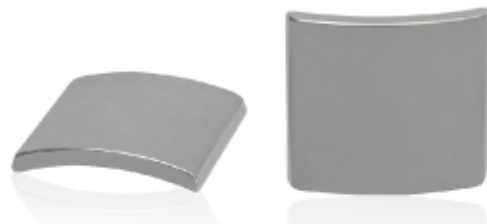
- ▼ 电机磁环
Motor magnetic ring
飞行器陀螺仪磁环
gyroscope magnetic ring



- ▼ 粘结瓦片
Bonding tiles
分段粘结的磁瓦
Segmental bonded magnetic tile



- ▼ 电机瓦片
Motor tile
主要用在永磁直流电机中
Mainly used in permanent magnet DC motors



- ▼ 电机斜瓦
Motor tile
斜瓦设计，直流无刷电机磁瓦
Mainly used in permanent magnet DC motors



- ▼ 多极磁环组件
Multi-poles magnetic ring components
用于电机的多极磁环组件
Multi-poles magnetic ring components used in the electric motors



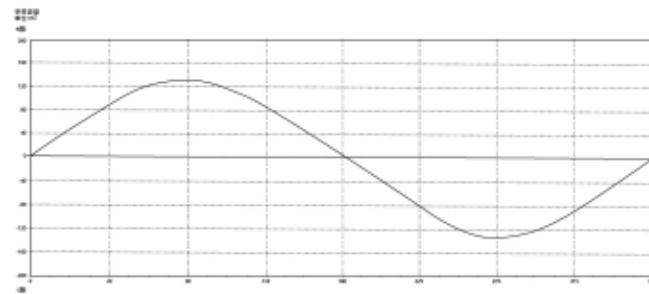
烧结钕铁硼磁性能表

SINTERED NdFeB MAGNETIC PROPERTIES

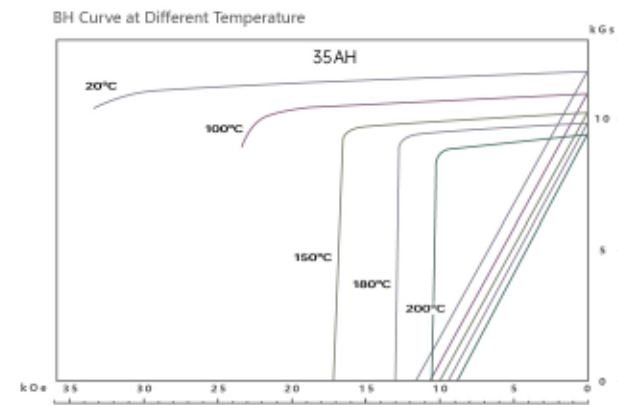
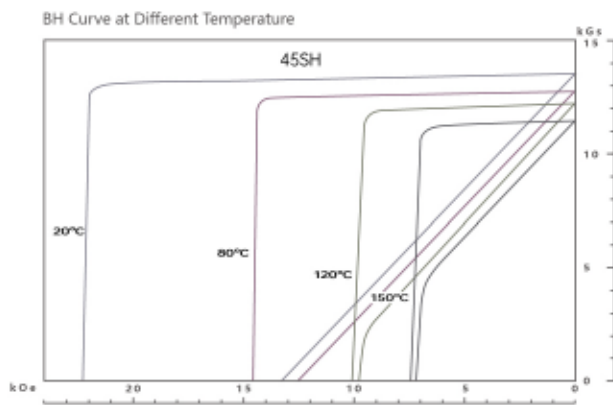
多极充磁 Multi-poles Magnetization

图示及充磁方式 Sketch	参数 Dimension	范围 Dimension	圆柱度 Cylindricity
 多极直充	外径 OD	20-75mm	0.04
	内径 ID	15-68mm	
	壁厚 T	2-7mm	
	高度 H	5-50mm	
 多极斜充			

正弦波形图 Sine Wave



不同温度下退磁曲线 BH Curve at Different Temp



物理性能表格 Physical Properties

参数 Parameter	单位 Unit	参考值 Reference value	参数 Parameter	单位 Unit	参考值 Reference value
居里温度 Curie temperature	°C	310-400	热传导率 Thermal conductivity	W/m·°C	8-10
密度 Density	g/cm ³	7.4-7.7	杨氏模量 Young's modulus	GPa	150-200
维氏硬度 Vickers hardness	HV	500-700	电阻率 Resistivity	C //	μΩ·m
回复磁导率 Recoil permeability	/	1.02-1.08		C ⊥	μΩ·m
抗压强度 Compressive strength	MPa	1000-1100	热膨胀系数 Coefficient of thermal expansion	C //	10 ⁻⁶ /°C
抗弯强度 Bending strength	MPa	150-400		C ⊥	10 ⁻⁶ /°C

备注: C//为易磁化方向测得的数据, C⊥为垂直易磁化方向测得的数据。

Note: C// for the value measured at the easy magnetized direction, C⊥ for the value measured perpendicular to the easy magnetized direction.

牌号 Grade	磁性能 Magnetic Performance								最高工作温度 Tw.	居里温度 Tc.
	剩磁 Br		矫顽力 HcB		内禀矫顽力 HcJ		最大磁能积(BH) max			
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe		
N33	1.13-1.17	11.3-11.7	≥836	≥10.5	≥955	≥12	247-271	31-34	≤80	310
N35	1.17-1.22	11.7-12.2	≥868	≥10.9	≥955	≥12	263-287	33-36	≤80	310
N38	1.22-1.25	12.2-12.5	≥899	≥11.3	≥955	≥12	287-310	36-39	≤80	310
N40	1.25-1.28	12.5-12.8	≥907	≥11.4	≥955	≥12	302-326	38-41	≤80	310
N42	1.28-1.32	12.8-13.2	≥915	≥11.5	≥955	≥12	318-342	40-43	≤80	310
N45	1.32-1.38	13.2-13.8	≥915	≥11.5	≥955	≥12	342-366	43-46	≤80	310
N48	1.38-1.42	13.8-14.2	≥915	≥11.5	≥955	≥12	358-390	45-49	≤80	310
N50	1.39-1.44	13.9-14.4	≥836	≥10.5	≥876	≥11	374-406	47-51	≤80	310
N52	1.42-1.46	14.2-14.6	≥836	≥10.5	≥876	≥11	390-422	49-53	≤80	310
N54	1.45-1.49	14.5-14.9	≥836	≥10.5	≥876	≥11	406-438	51-55	≤80	310
35M	1.17-1.22	11.7-12.2	≥868	≥10.9	≥1114	≥14	263-287	33-36	≤100	320
38M	1.22-1.25	12.2-12.5	≥899	≥11.3	≥1114	≥14	287-310	36-39	≤100	320
40M	1.25-1.28	12.5-12.8	≥923	≥11.6	≥1114	≥14	302-326	38-41	≤100	320
42M	1.28-1.32	12.8-13.2	≥955	≥12.0	≥1114	≥14	318-342	40-43	≤100	320
45M	1.32-1.38	13.2-13.8	≥995	≥12.5	≥1114	≥14	342-366	43-46	≤100	320
48M	1.36-1.42	13.6-14.2	≥1019	≥12.8	≥1114	≥14	358-390	45-49	≤100	320
50M	1.39-1.44	13.9-14.4	≥1035	≥13.0	≥1114	≥14	374-406	47-51	≤100	320
52M	1.42-1.47	14.2-14.7	≥1035	≥13.0	≥1114	≥14	390-422	49-53	≤100	320
54M	1.45-1.49	14.5-14.9	≥1035	≥13.0	≥1114	≥14	406-438	51-55	≤100	320
35H	1.17-1.22	11.7-12.2	≥868	≥10.9	≥1353	≥17	263-287	33-36	≤120	330
38H	1.22-1.25	12.2-12.5	≥899	≥11.3	≥1353	≥17	287-310	36-39	≤120	330
40H	1.25-1.28	12.5-12.8	≥923	≥11.6	≥1353	≥17	302-326	38-41	≤120	330
42H	1.28-1.32	12.8-13.2	≥955	≥12.0	≥1353	≥17	318-342	40-43	≤120	330
45H	1.32-1.38	13.2-13.8	≥995	≥12.5	≥1353	≥17	342-366	43-46	≤120	330
48H	1.38-1.42	13.8-14.2	≥1003	≥12.8	≥1353	≥17	358-390	45-49	≤120	330
50H	1.39-1.44	13.9-14.4	≥1035	≥13.0	≥1353	≥17	374-406	47-51	≤120	330
52H	1.42-1.46	14.2-14.6	≥1035	≥13.0	≥1353	≥17	390-422	49-53	≤120	330
54H	1.44-1.49	14.4-14.9	≥1035	≥13.0	≥1353	≥17	406-430	51-54	≤120	330
35SH	1.17-1.22	11.7-12.2	≥876	≥11.0	≥1592	≥20	263-287	33-36	≤150	340
38SH	1.22-1.25	12.2-12.5	≥907	≥11.4	≥1592	≥20	287-310	36-39	≤150	340
40SH	1.25-1.28	12.5-12.8	≥939	≥11.8	≥1592	≥20	302-326	38-41	≤150	340
42SH	1.28-1.32	12.8-13.2	≥963	≥12.1	≥1592	≥20	318-342	40-43	≤150	340
45SH	1.32-1.38	13.2-13.8	≥979	≥12.3	≥1592	≥20	342-366	43-46	≤150	340
48SH	1.36-1.42	13.6-14.2	≥1011	≥12.7	≥1592	≥20	358-390	45-49	≤150	340
50SH	1.39-1.44	13.9-14.4	≥1003	≥12.6	≥1592	≥20	374-406	47-51	≤150	340
52SH	1.42-1.47	14.2-14.7	≥1003	≥12.6	≥1592	≥20	390-422	49-53	≤150	340
54SH	1.44-1.49	14.4-14.9	≥1003	≥12.6	≥1592	≥20	398-430	50-54	≤150	340
28UH	1.04-1.08	10.4-10.8	≥764	≥9.6	≥1990	≥25	207-231	26-29	≤180	350
30UH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥1990	≥25	223-247	28-31	≤180	350
33UH	1.13-1.17	11.3-11.7	≥852	≥10.7	≥1990	≥25	247-271	31-34	≤180	350
35UH	1.17-1.22	11.7-12.2	≥860	≥10.8	≥1990	≥25	263-287	33-36	≤180	350
38UH	1.22-1.25	12.2-12.5	≥899	≥11.3	≥1990	≥25	287-310	36-39	≤180	350
40UH	1.25-1.28	12.5-12.8	≥939	≥11.8	≥1990	≥25	302-326	38-41	≤180	350
42UH	1.28-1.32	12.8-13.2	≥963	≥12.1	≥1990	≥25	318-342	40-43	≤180	350
45UH	1.32-1.38	13.2-13.8	≥979	≥12.3	≥1990	≥25	342-366	43-46	≤180	350
48UH	1.36-1.42	13.6-14.2	≥1011	≥12.7	≥1990	≥25	358-390	45-49	≤180	350
50UH	1.40-1.45	14.0-14.5	≥1035	≥13.0	≥1990	≥25	374-406	47-51	≤180	350
28EH	1.04-1.08	10.4-10.8	≥780	≥9.8	≥2388	≥30	207-231	26-29	≤200	380
30EH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	≤200	380
33EH	1.13-1.17	11.3-11.7	≥836	≥10.5	≥2388	≥30	247-271	31-34	≤200	380
35EH	1.17-1.22	11.7-12.2	≥876	≥11.0	≥2388	≥30	263-287	33-36	≤200	380
38EH	1.22-1.25	12.2-12.5	≥899	≥11.3	≥2388	≥30	287-310	36-39	≤200	380
40EH	1.25-1.28	12.5-12.8	≥923	≥11.6	≥2388	≥30	302-326	38-41	≤200	380
42EH	1.28-1.32	12.8-13.2	≥931	≥11.7	≥2388	≥30	318-342	40-43	≤200	380
45EH	1.32-1.38	13.2-13.8	≥979	≥12.3	≥2388	≥30	342-366	43-46	≤200	380
48EH	1.36-1.42	13.6-14.2	≥979	≥12.3	≥2388	≥30	358-390	45-49	≤200	380
28AH	1.04-1.08	10.4-10.8	≥780	≥9.8	≥2625	≥33	207-231	26-29	≤230	380
30AH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥2625	≥33	223-247	28-31	≤230	380
33AH	1.13-1.17	11.3-11.7	≥836	≥10.5	≥2625	≥33	247-271	31-34	≤230	380
35AH	1.17-1.22	11.7-12.2	≥876	≥11.0	≥2625	≥33	263-287	33-36	≤230	380
38AH	1.22-1.25	12.2-12.5	≥899	≥11.3	≥2625	≥33	287-310	36-39	≤230	380
40AH	1.25-1.28	12.5-12.8	≥923	≥11.6	≥2625	≥33	302-326	38-41	≤230	380
42AH	1.28-1.32	12.8-13.2	≥931	≥11.7	≥2625	≥33	318-342	40-43	≤230	380
45AH	1.32-1.38	13.2-13.8	≥931	≥11.7	≥2625	≥33	342-366	43-46	≤230	380

SmCo Magnet

钐钴

- 钐钴磁铁主要由金属钴、钐、铜、铁和其它微量元素构成，其优点是最高温度可达350°C，具有很强的抗腐蚀和抗氧化性，因此钐钴磁铁通常不需要电镀处理。钐钴磁铁广泛应用于传感器、探测器，5G通讯，雷达等高科技领域。

SmCo are mainly composed by cobalt, samarium, copper, iron and other micro-elements. The maximum temperature can reach 350°C, it has strong corrosion resistance and oxidation resistance, normally no coating required. SmCo magnets are widely used in high-tech fields such as sensors, detectors, 5G communication, radars, etc.

钐钴产品

Products

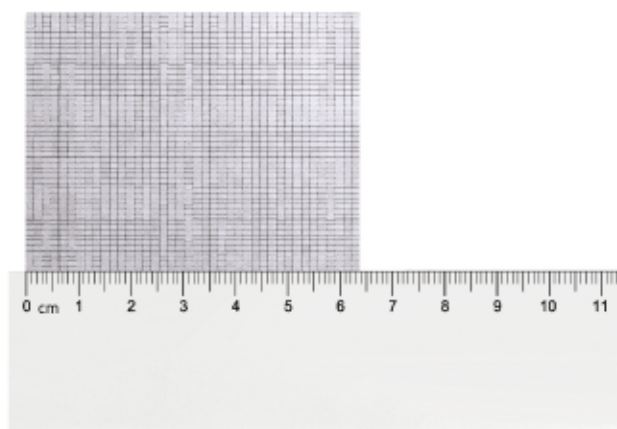
- ▼ 5G小圆片
5G small disc
用于5G通讯基站内的环形器内
Used in the Circulators in 5G communication base station



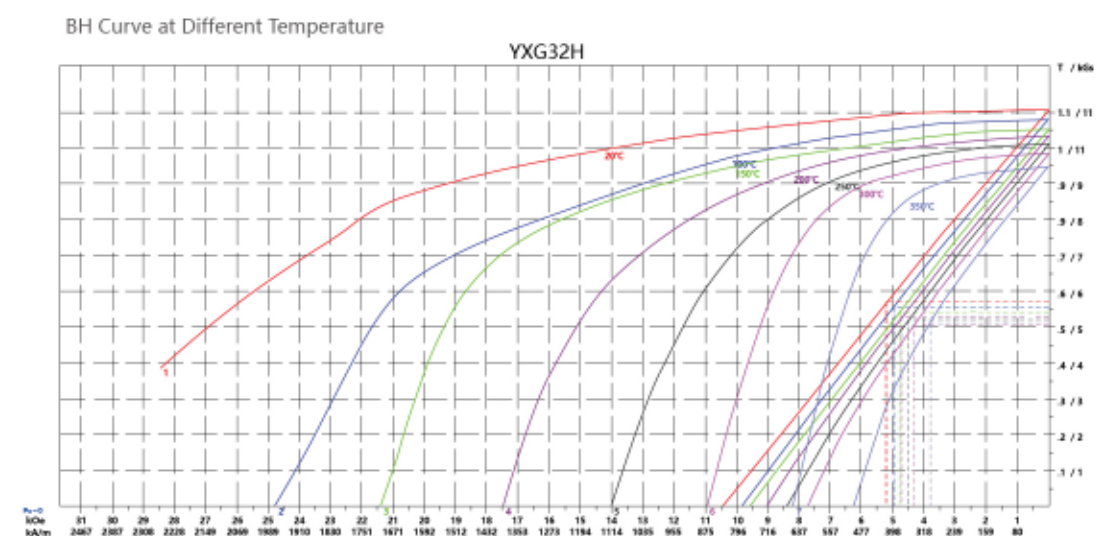
- ▼ 大圆柱
Large cylinder
用于磁悬浮鼓风机
Used in magnetic levitation blower



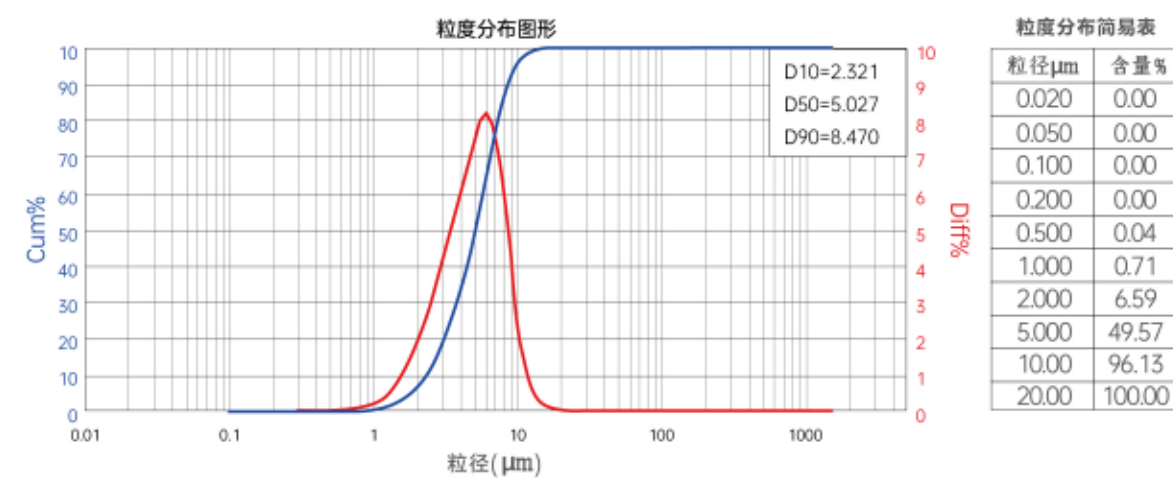
- ▼ 钐钴小产品
SmCo micro magnet
产品尺寸最小可达 0.1mm
公差精度可达 $\pm 0.001\text{mm}$
The minimum product dimension can reach to 0.1mm
The accuracy of the tolerance can reach to $\pm 0.001\text{mm}$



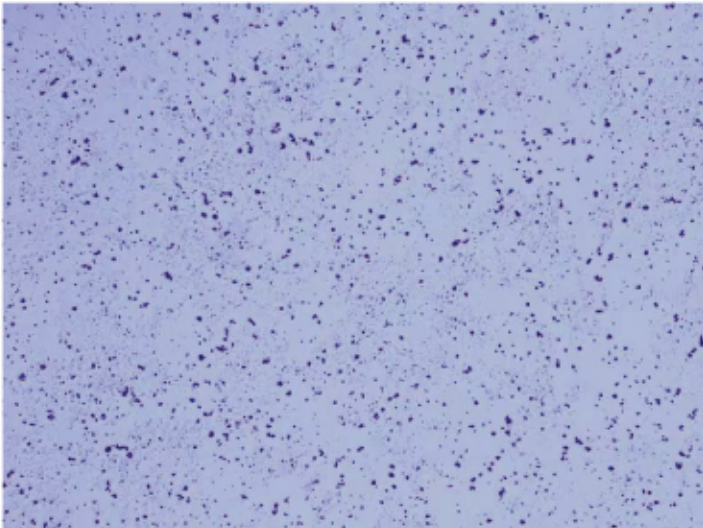
不同温度下退磁曲线 BH Curve at Different Temp



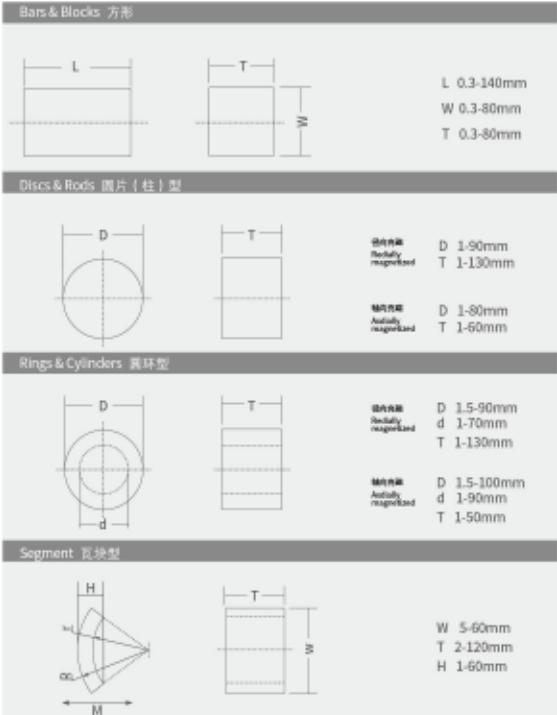
粒度分析 Partical Size Specification



金相分析 Metallographic Analysis



常规产品尺寸图示 Typical Product Specification



物理性能表格 Physical Properties

材料 Composition		Sm2Co17	SmCo5	材料 Composition		Sm2Co17	SmCo5
参数 Parameter	单位 Unit	参考值 Reference value	参考值 Reference value	参数 Parameter	单位 Unit	参考值 Reference value	参考值 Reference value
居里温度 Curie temperature	℃	800-850	700-750	抗弯强度 Bending strength	MPa	1500	1800
比热 Specific heat	Cal/g/℃	8x10 ⁻²	9x10 ⁻²	抗压强度 Compressive strength	MPa	800	1000
热膨胀系数 Coefficient of thermal expansion	C //	10 ⁻⁶ /℃	8	杨氏模量 Young's modulus	GPa	120	160
	C ⊥	10 ⁻⁶ /℃	11	维氏硬度 Vickers hardness	Hv	500-600	450-500
热传导率 Thermal conductivity	W/m·℃	12	13	抗拉强度 Tensile strength	MPa	35	40
电阻率 Resistivity	Ω·cm	8.6x10 ⁻⁵	5.3x10 ⁻⁵	密度 Density	g/cm ³	8.3-8.5	8.2-8.4

备注：C//为易磁化方向测得的数据，C⊥为垂直易磁化方向测得的数据。
Note: C// for the value measured at the easy magnetized direction, C⊥ for the value measured perpendicular to the easy magnetized direction.

烧结钕钴磁性能表

SINTERED SmCo MAGNETIC PROPERTIES

材料 Composition	牌号 Grade	磁性能 Magnetic Performance								最高工 作温度 Tw.	居里 温度 Tc.
		剩磁 Br		矫顽力 HcB		内禀矫顽力 HcJ		最大磁能积(BH)max		℃	℃
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe		
SmCo5	YX-16	0.81-0.85	8.1-8.5	620-660	7.8-8.3	1194-1830	15-23	110-127	14-16	≤250	≤750
	YX-18	0.85-0.90	8.5-9.0	660-700	8.3-8.8	1194-1830	15-23	127-143	16-18	≤250	≤750
	YX-20	0.90-0.94	9.0-9.4	676-725	8.5-9.1	1194-1830	15-23	150-167	19-21	≤250	≤750
	YX-22	0.92-0.96	9.2-9.6	710-748	8.9-9.4	1194-1830	15-23	160-175	20-22	≤250	≤750
	YX-24	0.96-1.00	9.6-10.0	730-770	9.2-9.7	1194-1830	15-23	175-190	22-24	≤250	≤750
	YX-16s	0.79-0.84	7.9-8.4	620-660	7.8-8.3	≥1830	≥23	118-135	15-17	≤250	≤750
	YX-18s	0.84-0.89	8.4-8.9	660-700	8.3-8.8	≥1830	≥23	135-151	17-19	≤250	≤750
	YX-20s	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	150-167	19-21	≤250	≤750
	YX-22s	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	167-183	21-23	≤250	≤750
	YX-24s	0.96-1.00	9.6-10.0	748-788	9.3-9.9	≥1830	≥23	183-199	23-25	≤250	≤750
Sm2Co17	YXG-24H	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≥1990	≥25	175-191	22-24	≤350	≤820
	YXG-26H	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1990	≥25	191-207	24-26	≤350	≤820
	YXG-28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-223	26-28	≤350	≤820
	YXG-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	223-239	28-30	≤350	≤820
	YXG-32H	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1990	≥25	231-255	29-32	≤350	≤820
	YXG-33H	1.12-1.16	11.2-11.6	845-890	10.6-11.2	≥1990	≥25	239-263	30-33	≤350	≤820
	YXG-22	0.93-0.97	9.3-9.7	676-740	8.5-9.3	≥1433	≥18	160-183	20-23	≤300	≤820
	YXG-24	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≥1433	≥18	175-191	22-24	≤300	≤820
	YXG-26	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1433	≥18	191-207	24-26	≤300	≤820
	YXG-28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-223	26-28	≤300	≤820
	YXG-30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	223-239	28-30	≤300	≤820
	YXG-32	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1433	≥18	231-255	29-32	≤300	≤820
	YXG-33	1.12-1.16	11.2-11.6	845-890	10.6-11.2	≥1433	≥18	239-263	30-33	≤300	≤820
	YXG-26M	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	191-207	24-26	≤300	≤820
	YXG-28M	1.03-1.08	10.3-10.5	676-796	8.5-10.0	955-1433	12-18	207-220	26-28	≤300	≤820
	YXG-30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	≤300	≤820
	YXG-32M	1.10-1.13	11.0-11.3	676-852	8.5-10.7	955-1433	12-18	230-255	29-32	≤300	≤820
	YXG-24L	0.95-1.02	9.5-10.2	541-716	6.8-9.0	636-955	8-12	175-191	22-24	≤250	≤820
	YXG-26L	1.02-1.05	10.2-10.5	541-748	6.8-9.4	636-955	8-12	191-207	24-26	≤250	≤820
	YXG-28L	1.03-1.08	10.3-10.8	541-764	6.8-9.6	636-955	8-12	207-220	26-28	≤250	≤820
	YXG-30L	1.08-1.15	10.8-11.5	541-796	6.8-10.0	636-955	8-12	220-240	28-30	≤250	≤820
	YXG-32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	230-255	29-32	≤250	≤820

AlNiCo Magnet

铝镍钴

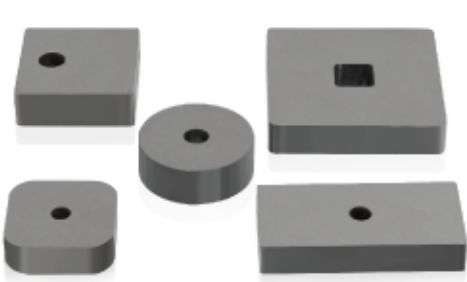
- 铝镍钴磁铁主要由铝、镍、钴、铜等微量元素构成，其最高工作温度可达到550℃，并具备强抗腐蚀性，产品广泛应用于航空航天、军事、汽车和安防等领域。

AlNiCo mainly composed by aluminum, nickel, cobalt, copper and other micro-elements. The maximum operating temperature can reach 550°C. It has strong corrosion resistance. Widely used in aerospace, military, automobile, security and other fields.

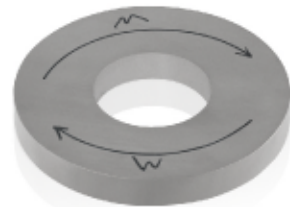
铝镍钴产品

Products

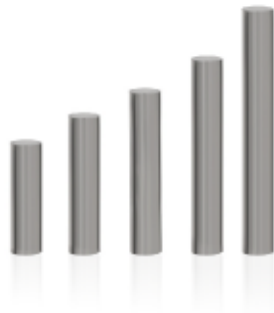
- 吸盘磁钢
Permanent magnetic chucks



- 圆周取向磁环
Ring Magnet



- 传感器磁钢
Sensors



- 教具磁铁
Teaching magnets



- 喷漆磁性吸力件及组件
Painted magnetic suction parts and Magnetic components



物理性能表格 Physical Properties

材料 Composition		参数 Parameter														
铝镍钴 Alnico	密度 Density		回复磁导率 Relative Recoil Permeability		维氏硬度 Vickers hardness		电阻率 Electric Resistivity		最大工作温度 Max. Working Temperature		居里温度 Curie Temp		剩磁温度系数 Temp Coefficient of Br		内禀矫顽力温度系数 Temp Coefficient of Hcj	
	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value	单位 Unit	参考值 Reference value
	g/cm ³	6.90~7.30	μrec	1.70~4.70	Hv	520~630	μΩ·m	47~54	℃	450~550	℃	760~890	%/℃	-0.025~-0.02	%/℃	0.01~0.03

铸造铝镍钴磁性能表

CAST AlNiCo MAGNETIC PROPERTIES

MMPA	Grade	磁性能 Magnetic Performance						最高工作 温度 Tw.	居里温度 Tc.	温度系数 αBr.
		剩磁 Br		矫顽力 HcB		最大磁能积(BH)max				
		mT	Gs	kA/m	kOe	kJ/m³	MGOe			
Alnico3	*LN9	680	6800	37	470	9	1.13	450	760	-0.03
	*LN10	600	6000	40	500	10	1.25	450	760	-0.03
Alnico2	*LNG12	700	7000	44	550	12	1.50	450	810	-0.03
	*LNG13	680	6800	48	600	13	1.63	450	810	-0.03
Alnico4	LNG16	800	8000	48	600	16	2.00	525	850	-0.02
	LNG18	900	9000	48	600	18	2.25	525	850	-0.02
Alnico5	LNG37	1200	12000	48	600	37	4.65	525	890	-0.02
	LNG40	1250	12500	48	600	40	5.00	525	890	-0.02
	LNG44	1250	12500	52	650	44	5.50	525	890	-0.02
Alnico5DG	LNG48	1300	13000	52	650	48	6.00	525	890	-0.02
	LNG52	1300	13000	56	700	52	6.50	525	890	-0.02
Alnico5~7	LNG60	1330	13300	56	700	60	7.50	525	890	-0.02
Alnico6	LNGT28	1000	10000	56	700	28	3.50	525	860	-0.02
Alnico7	*LNGT18	580	5800	90	1130	18	2.20	550	860	-0.03
Alnico8	LNGT34	800	8000	104	1300	34	4.25	550	860	-0.03
	LNGT38	800	8000	110	1380	38	4.75	550	860	-0.03
	LNGT40	850	8500	120	1500	40	5.00	550	860	-0.03
	LNGT44	850	8500	120	1500	44	5.50	550	860	-0.03
Alnico 8HE	LNGT48	900	9000	120	1500	48	6.00	550	860	-0.03
Alnico9	LNGT60	900	9000	110	1380	60	7.50	550	860	-0.03
	LNGT72	1050	10500	112	1410	72	9.00	550	860	-0.03
	LNGT82	1080	10800	120	1500	82	10.25	550	860	-0.03
	LNGT88	1100	11000	120	1500	88	11.00	550	860	-0.03
	LNGT92	1120	11200	120	1500	92	11.50	550	860	-0.03
Alnico 8HC	LNGT36J	700	7000	140	1750	36	4.50	550	860	-0.03

Application fields

应用领域



Cooperative partners

合作伙伴

