



浙江普菲特磁业有限公司
ZHEJIANG PUFEITE MAGNETICS CO.,LTD

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HANGZHOU OFFICE

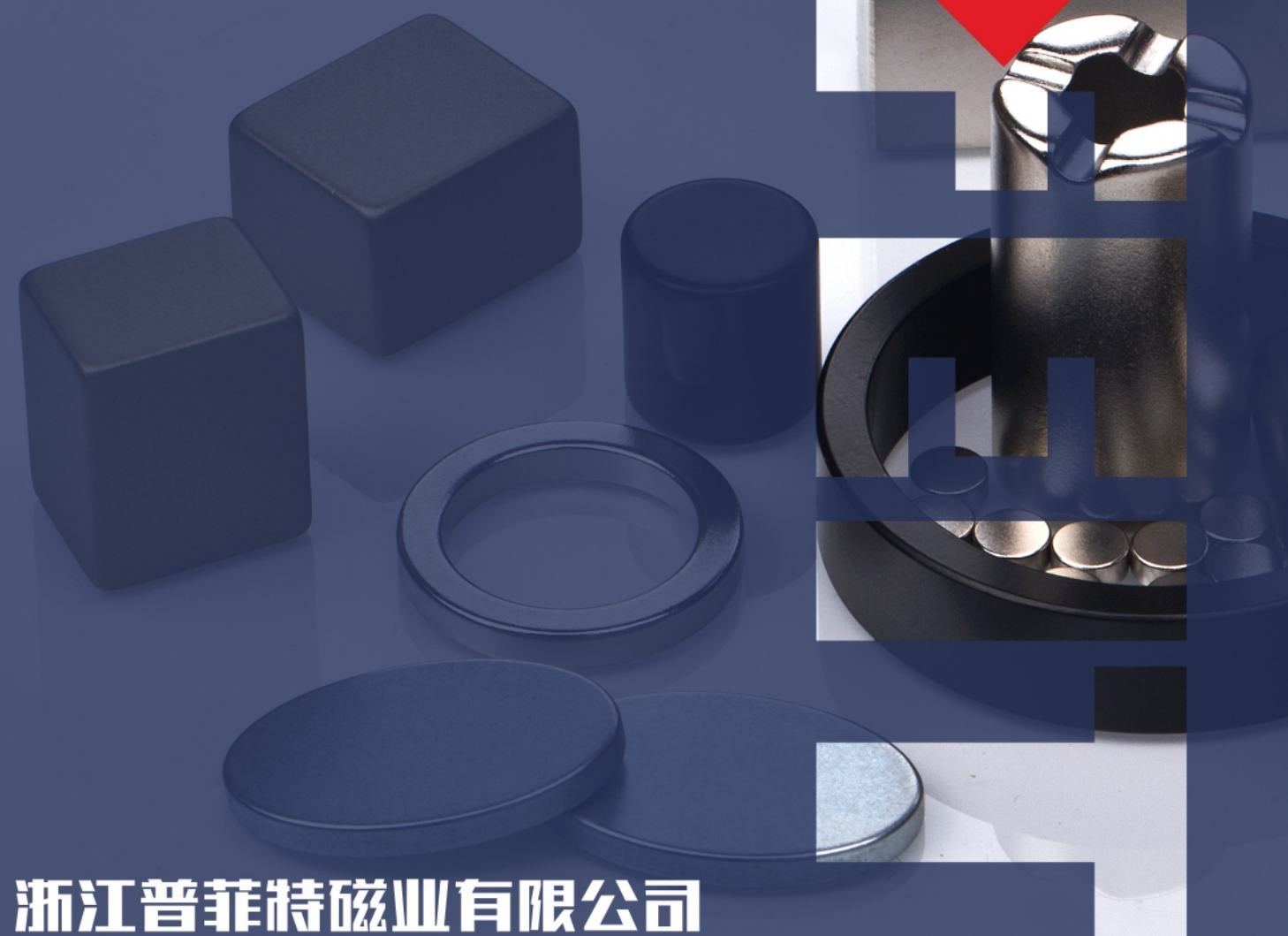
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www.pufeite-magnetics.com





浙江普菲特磁业有限公司成立于2018年，是宁波普菲特磁业有限公司（成立于2011年）的全资子公司，是一家专业从事稀土钕铁硼永磁材料生产服务和技术开发的高新技术企业，生产、销售各类稀土钕铁硼永磁材料及其配套器件，同时兼营高性能钎钴、铝镍钴、铁氧体、橡胶磁等永磁材料。

公司拥有一支从事稀土钕铁硼研究开发与应用的专业生产管理团队。公司建有占地17000 平方米的现代化标准厂区，全面推行精益现场管理并已经取得IATF16949体系认证，公司从原材料采购到成品出库，每道环节均实行严格的品质控制，依靠先进的生产流程，科学的管理，完备的检测仪器，确保每一个生产工序符合对产品的要求。

产品应用于汽车电机、工业机械、医疗设备、音响组件、风力发电、电子元件、磁选机等领域。公司在低失重、低温度系数、超高矫顽力等电机用磁铁产品方面具有独特优势，在辐射取向圆环产品等领域拥有优质产品资源，对于钕铁硼永磁抗腐蚀涂层的开发应用，在国内处于领先地位。

坚持以“质量第一，全心全意为客户创造价值”的经营理念，真诚为国内外客户提供各类永磁材料，共谋发展。

Introduction

Zhejiang Pufeite Magnetics , founded in 2018, is a wholly-owned subsidiary of Ningbo Pufeite Magnetics (founded in 2011), As a newly developed high-tech company , specializing in sintered NdFeb magnet researching ,developing ,manufacturing and applications . we also supply other permanent magnets ,such as high grade SmCo ,AlNiCo ,Bonded Magnets ,Hard ferrite Magnets and Rubber Magnets .

We have staffed with a team of rich experience , has a modern standard factory occupied 17,000 square meters , Has obtained IATF16949 certification, the company from raw material procurement to finished products out of the warehouse,implemented strict quality control, relying on advanced production process, scientific management, complete testing equipment, to ensure that each production process meets the requirements of the product.

Products are used in automotive motors, industrial machinery, medical equipment, audio components, wind power generation, electronic components , magnetic separator and other fields.we are good at HAST magnets & long SST tested coating (500 hours) , Sintered Ndfeb Radial Oriented Ring Magnet , it was widely used in the application of robotics and industrial automatic production line .

The company has unique advantages in low weight loss, low temperature coefficient, high coercive force and other motor magnet products, and has high-quality product resources in the field of radiation-oriented ring products. For the development and application of Sintered Ndfeb permanent magnet anti-corrosion coating, it is in a leading position in China.

Pufeite Magnetics Co ; Ltd insists on best quality and create value for our clients , we sincerely hope cooperate well relationship with clients .



普菲特已建成现代化、高标准的工程中心、成熟的检测系统和全套先进的检测设备，确保了产品的高质量，也是我们新产品和新工艺验证的基石，主要检测仪器如下：

Pufeite has built a modern, high-standard engineering center, mature testing system and a full set of advanced testing equipment to ensure the high quality of products, but also our new products And new process validation cornerstone, the main test instruments are as follows: test equipment



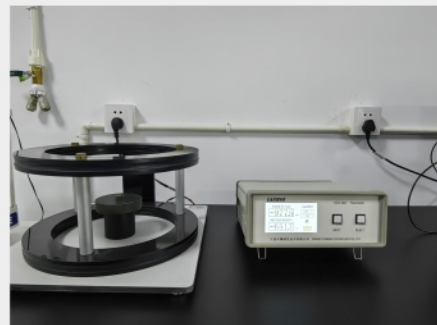
磁场分析仪
Magnetic Field Distribution Tester



HSAT试验槽
Highly Accelerated Stress Test System



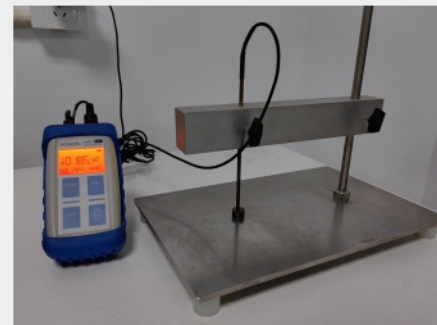
老化试验箱
Aging Test Box



KCS-607磁通计
KCS-607 Fluxmeter



可程式盐雾试验机
Programmable Salt Spray Testing Machine



高斯计
Guassmeter



AMT-4永磁特性自动测试仪
Automatic Hysteresisgraph Model
DMT-4 test system



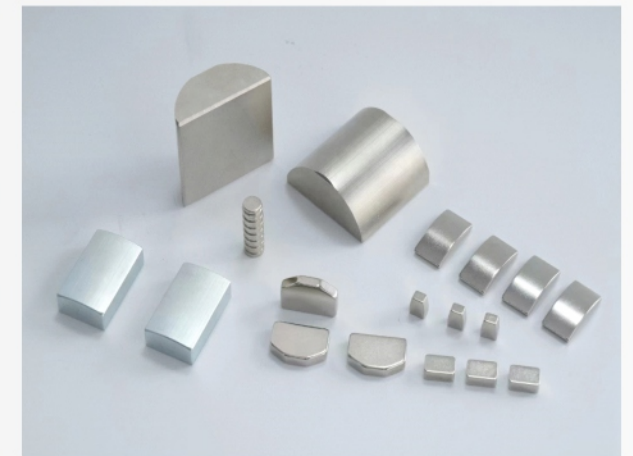
精密磁通计
Precision Fluxmeter

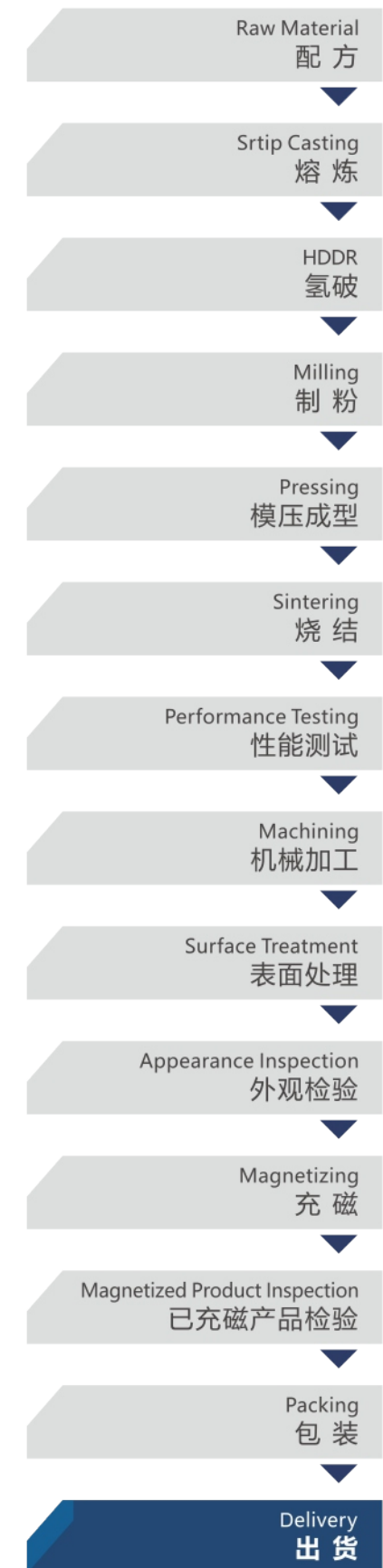


自动检测设备
Automatic Checkout Equipment

我们能生产具有良好一致性、均匀性的高、中、低各档性能烧结钕铁硼，并可按客户要求生产加工方块、圆片、球体、瓦形等各种形状永磁体及磁性组件，欢迎咨询洽谈。

We provide different grades(from high to low performance) sintered magnets with perfect uniformity and consistency, and manufacture varieties of permanent magnets in block, disc, ring, arc, sphere etc and magnetic assemblies according to customers' requirements, please contact us to get details.





烧结钕铁硼性能等级表

Sintered NdFeB Magnetic Properties

类别 Item	牌号 Grade	剩磁 Remanence(Br)		剩磁矫顽力 (Hcb)		内禀矫顽力 (Hcj)		最大磁能积 (BH) max		工作温度 Working Temperature
		kGs	T	kOe	kA/m	kOe	kA/m	MGOe	KJ/m³	L/D≥0.7(°C)
N	N35	11.7-12.2	1.17-1.22	≥10.9	≥868	≥12	≥955	33-36	263-287	≤80
	N38	12.2-12.5	1.22-1.25	≥11.3	≥899	≥12	≥955	36-39	287-310	≤80
	N40	12.5-12.8	1.25-1.28	≥11.4	≥907	≥12	≥955	38-41	302-326	≤80
	N42	12.8-13.2	1.28-1.32	≥11.5	≥915	≥12	≥955	40-43	318-342	≤80
	N45	13.2-13.8	1.32-1.38	≥11.6	≥923	≥12	≥955	43-46	342-366	≤80
	N48	13.8-14.2	1.38-1.42	≥11.6	≥923	≥12	≥955	46-49	366-390	≤80
	N50	14.0-14.5	1.40-1.45	≥12.0	≥955	≥12	≥955	48-51	382-406	≤80
	N52	14.3-14.6	1.43-1.48	≥11.0	≥876	≥12	≥955	50-53	398-422	≤80
	N55	14.5-15.0	1.45-1.50	≥11.0	≥876	≥12	≥955	53-55	422-438	≤80
M	35M	11.7-12.2	1.17-1.22	≥10.9	≥868	≥14	≥1114	33-36	263-287	≤100
	38M	12.2-12.5	1.22-1.25	≥11.3	≥899	≥14	≥1114	36-39	287-310	≤100
	40M	12.5-12.8	1.25-1.28	≥11.6	≥923	≥14	≥1114	38-41	302-326	≤100
	42M	12.8-13.2	1.28-1.32	≥12.0	≥955	≥14	≥1114	40-43	318-342	≤100
	45M	13.2-13.8	1.32-1.38	≥12.5	≥995	≥14	≥1114	43-46	342-366	≤100
	48M	13.7-14.3	1.37-1.43	≥12.9	≥1027	≥14	≥1114	46-49	366-390	≤100
	50M	14.0-14.5	1.40-1.45	≥13.0	≥1033	≥14	≥1114	48-51	382-406	≤100
	52M	14.3-14.8	1.43-1.48	≥13.1	≥1043	≥14	≥1114	50-53	398-422	≤100
	54M	14.5-15.0	1.45-1.50	≥13.2	≥1051	≥14	≥1114	52-55	414-438	≤100
H	35H	11.7-12.2	1.17-1.22	≥10.9	≥868	≥17	≥1353	33-36	263-287	≤120
	38H	12.2-12.5	1.22-1.25	≥11.3	≥899	≥17	≥1353	36-39	287-310	≤120
	40H	12.5-12.8	1.25-1.28	≥11.6	≥923	≥17	≥1353	38-41	302-326	≤120
	42H	12.8-13.2	1.28-1.32	≥12.0	≥955	≥17	≥1353	40-43	318-342	≤120
	45H	13.2-13.7	1.32-1.37	≥12.3	≥973	≥17	≥1353	43-46	342-366	≤120
	48H	13.7-14.2	1.37-1.42	≥12.5	≥995	≥17	≥1353	46-49	366-390	≤120
	50H	14.0-14.5	1.40-1.45	≥12.6	≥1003	≥17	≥1353	48-51	382-406	≤120
SH	52H	14.3-14.8	1.43-1.48	≥13.1	≥1043	≥17	≥1353	50-53	398-422	≤120
	35SH	11.7-12.2	1.17-1.22	≥11.0	≥876	≥20	≥1592	33-36	263-287	≤150
	38SH	12.2-12.5	1.22-1.25	≥11.4	≥907	≥20	≥1592	36-39	287-310	≤150
	40SH	12.5-12.8	1.25-1.28	≥11.8	≥939	≥20	≥1592	38-41	302-326	≤150
	42SH	12.8-13.2	1.28-1.32	≥12.1	≥963	≥20	≥1592	40-43	318-342	≤150
	45SH	13.2-13.8	1.32-1.38	≥12.3	≥979	≥20	≥1592	43-46	342-366	≤150
	48SH	13.7-14.3	1.37-1.43	≥12.7	≥1011	≥20	≥1592	46-49	366-390	≤150
UH	50SH	14.0-14.5	1.40-1.45	≥12.6	≥1003	≥20	≥1592	48-51	382-406	≤150
	28UH	10.4-10.8	1.04-1.08	≥9.6	≥764	≥25	≥1990	26-29	207-231	≤180
	30UH	10.8-11.3	1.08-1.13	≥10.2	≥812	≥25	≥1990	28-31	223-247	≤180
	33UH	11.3-11.7	1.13-1.17	≥10.7	≥852	≥25	≥1990	31-34	247-271	≤180
	35UH	11.7-12.2	1.17-1.22	≥10.8	≥860	≥25	≥1990	33-36	263-287	≤180
	38UH	12.2-12.5	1.22-1.25	≥11.3	≥899	≥25	≥1990	36-39	287-310	≤180
	40UH	12.5-12.8	1.25-1.28	≥11.8	≥939	≥25	≥1990	38-41	302-326	≤180
	42UH	12.8-13.2	1.28-1.32	≥12.1	≥963	≥25	≥1990	40-43	318-342	≤180
EH	45UH	13.2-13.8	1.32-1.38	≥12.3	≥979	≥25	≥1990	43-46	342-366	≤180
	48UH	13.7-14.3	1.37-1.43	≥12.7	≥1011	≥25	≥1990	46-49	366-390	≤180
	28EH	10.4-10.8	1.04-1.108	≥9.8	≥780	≥30	≥2388	26-29	207-231	≤200
	30EH	10.8-11.3	1.08-1.13	≥10.2	≥812	≥30	≥2388	28-31	223-247	≤200
	33EH	11.3-11.7	1.13-1.17	≥10.5	≥836	≥30	≥2388	31-34	247-271	≤200

烧结钕铁硼性能等级表

Sintered NdFeB Magnetic Properties

类别 Item	牌号 Grade	剩磁 Remanence(Br)		剩磁矫顽力 (Hcb)		内禀矫顽力 (Hcj)		最大磁能积 (BH) max		工作温度 Working Temperature
		kGs	T	kOe	kA/m	kOe	kA/m	MGOe	KJ/m³	L/D≥0.7(°C)
EH	35EH	11.7-12.2	1.17-1.22	≥11.0	≥876	≥30	≥2388	33-36	263-287	≤200
	38EH	12.2-12.5	1.22-1.25	≥11.3	≥899	≥30	≥2388	36-39	287-310	≤200
	40EH	12.5-12.8	1.25-1.28	≥11.6	≥923	≥30	≥2388	38-41	302-326	≤200
	42EH	12.8-13.2	1.28-1.32	≥11.7	≥931	≥30	≥2388	40-43	318-342	≤200
	45EH	13.2-13.8	1.32-1.38	≥12.3	≥979	≥30	≥2388	43-46	342-366	≤200
AH	28AH	10.4-10.8	1.04-1.08	≥9.9	≥787	≥33	≥2624	26-29	207-231	≤230
	30AH	10.8-11.3	1.08-1.13	≥10.3	≥819	≥33	≥2624	28-31	223-247	≤230
	33AH	11.3-11.7	1.13-1.17	≥10.6	≥843	≥33	≥2624	31-34	247-271	≤230
	35AH	11.7-12.2	1.17-1.22	≥11.0	≥876	≥33	≥2624	33-36	263-287	≤230
	38AH	12.2-12.5	1.22-1.25	≥11.3	≥899	≥33	≥2624	36-39	287-310	≤230
	40AH	12.5-12.8	1.25-1.28	≥11.6	≥923	≥33	≥2624	38-41	302-326	≤230
	42AH	12.8-13.2	1.28-1.32	≥11.7	≥931	≥33	≥2624	40-43	318-342	≤230

备注 NOTE: ■ 以上磁性参数和物理特性均为室温下的数据
The above-mentioned data of magnetic parameters and physical properties are given at room temperature.

■ 最大工作温度依赖于磁体的长径比，镀层和环境因素
The maximum working temperature of magnet is changeable due to length-diameter ratio, thickness and environment factors.

一般物理性能

Typical physical properties

参 数	Parameter	单 位 Unit	指 标 Standard
居里温度	Curie Temperature	°C	310–380
Br可逆温度系数	α _{Br}	%/°C	−0.09~−0.13
Hcj可逆温度系数	β _{Hcj}	%/°C	−0.35~−0.80
最高工作温度	Maximum Operating Temperature	°C	80–230
密度	Density	G/cm³	≥7.40~7.80
维氏硬度	Vickers Hardness	HV	550–650
拉弯强度	Bending strength	Mpa	250
抗拉强度	Tensile strength	Mpa	80
抗压强度	Compressive strength	Mpa	1050
电阻率	Specific resistance	μΩ · cm	150
热传导率	Thermal conductivity	W/(m · K)	6~8
膨胀系数	Thermal expansion	10 ⁻⁶ /°C	5 (平行于取向方向) −1.5 (垂直于取向方向)

磁性能参数及换算表

Magnetic Parmeter and Conversion Table

参数及表示	Unit and Symbol	国际单位 SL-units	单位换算 Conversion Table
磁感应强度 B	Flux density B	T(Tesla)	1T=10kGs
磁极化强度 J	Polarzation J	T(Tesla)	1T=10kGs
磁场强度 H	Magnetic field intensity H	KA/M	1KA/m=12.57Oe
磁能积(BH)m	Energy density(BH)m	KJ/m³	1KJ/m³=0.126MGOe
磁通 Φ	Magnetic flux Φ	Wb(Weber)	1WB=10⁹MX

烧结NdFeB钕铁硼磁钢镀层说明

Available Coatings Of Sintered NdFeB Magnets

镀层类型 Coating	镀层厚度 Thickness	颜色 Color	压力试验 PCT	盐雾时间 SST	特点 Characteristic
蓝白锌 Zn	4-8μm	蓝白色 Bright Blue		>24H~48H	一般防护, 适用于大多数产品 Regular Protection, Applicable to most products
彩锌 Colored Zn	4-8μm	彩色 Shining Color		>48H~72H	耐盐雾 Excellent salt spray resistance
镍铜镍 NiCuNi	10-20μm	银白色 Bright Silver	>48H~72H	>24H~72H	耐盐雾, 耐湿热, 耐高温 Excellent humidity, heat & salt spray resistance, High temperature resistance
化学镍 Electroless Nickel	10-30μm	银白色 Bright Silver	>72H	>96H	耐盐雾, 耐湿热, 耐高温 Excellent humidity, heat & salt spray resistance, High temperature resistance
特黑镍 Black Nickel	10-20μm	亮黑色 Bright Black	>72H	>48H~96H	耐盐雾, 耐湿热, 耐高温 Excellent humidity, heat & salt spray resistance, High temperature resistance
锡 Sn	10-25μm	银色 Silver	>48H	>36H~72H	耐盐雾, 耐湿热, 耐高温 Excellent humidity, heat & salt spray resistance, High temperature resistance
环氧 Epoxy	10-30μm	黑色或灰色 Black or Grey		>72H~108H	超强耐盐雾, 耐湿热, 结合力好, 绝缘性好 Excellent humidity, heat & salt spray resistance, excellent adhesion, Excellent Insulation
磷化/钝化 Phosphated /Passivation	1-3μm	深灰色 Dark Grey		≤2.5H Emerge in 3% NaCl liquor	临时性保护 Temporary Protection
埃弗洛 Everlube	8-20μm	黄色 Yellow	>72H	>80H	耐盐雾 Excellent salt spray resistance
特氟龙 Teflon	>10μm	黑灰色 Black		>16H	耐摩擦, 耐高、低温 Excellent friction resistance, High/low temp resistance
镍铜镍+金 Au	10-15μm	金色 Golden	>48H	>12H	透亮好看 Good looking

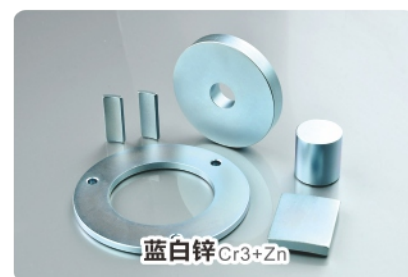
注：对不同产品的盐雾试验、PCT试验时间，视实际形状而定
Notes: For different products, the salt spray test and PCT time varies with the shape and size of the product.



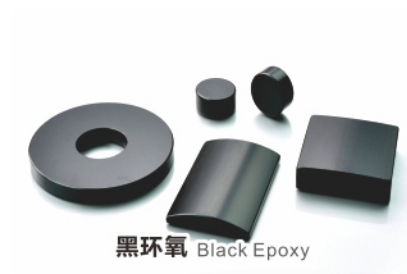
镍铜镍 NiCuNi



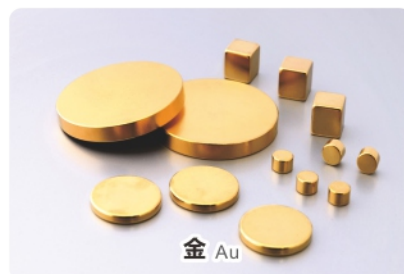
埃弗洛 Everlube



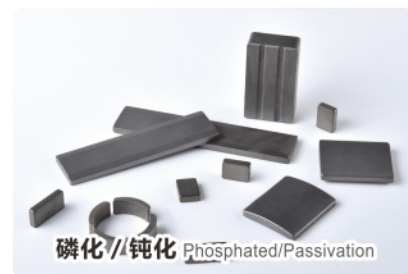
蓝白锌 Cr3+Zn



黑环氧 Black Epoxy

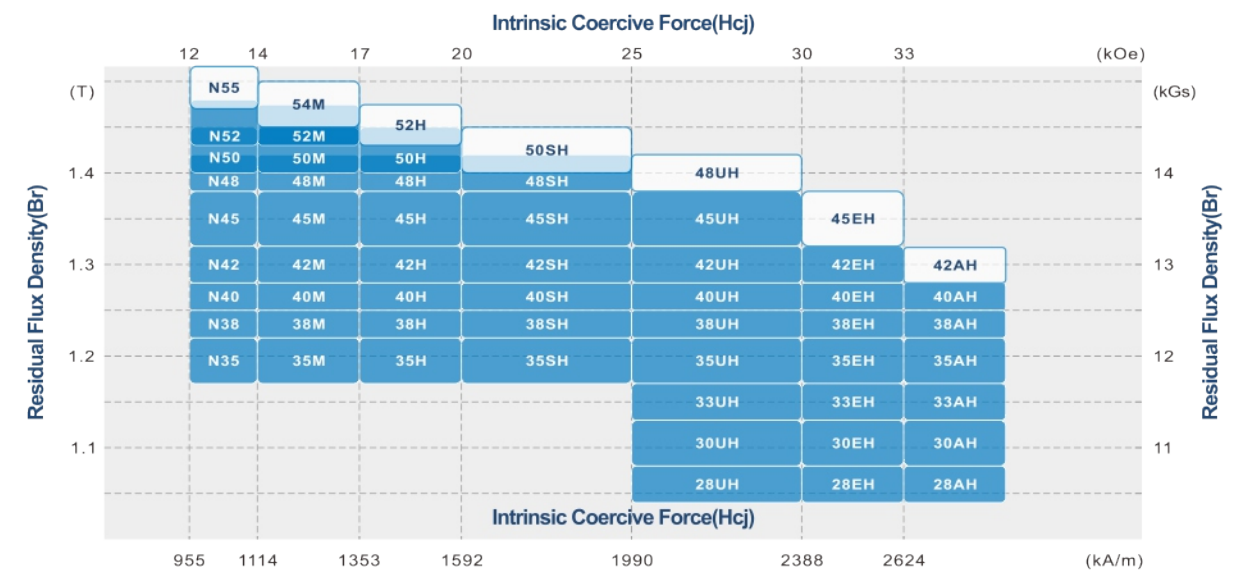


金 Au



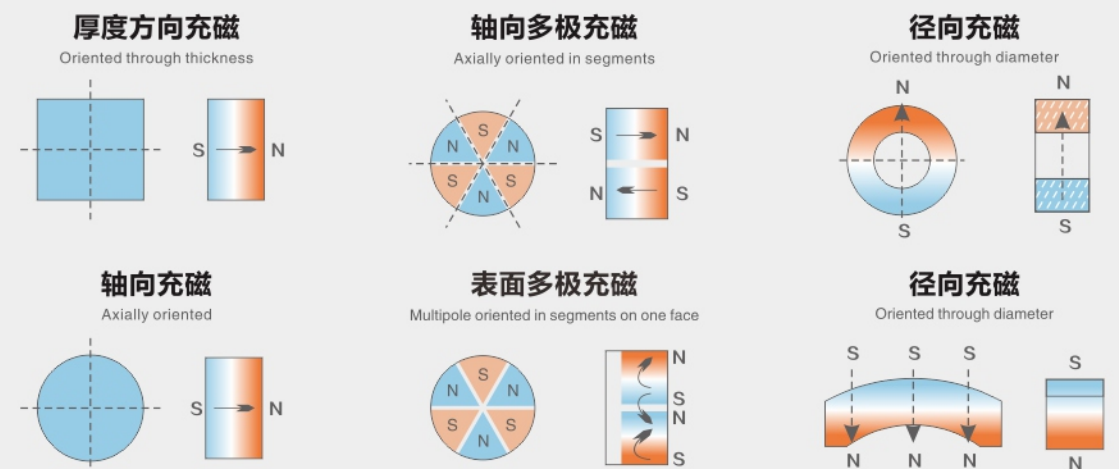
磷化/钝化 Phosphated/Passivation

产品磁性能分布 Magnetic Property distribution chart



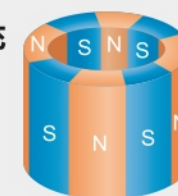
充磁方向 Directions of Magnetization

常规充磁产品 Conventional Product

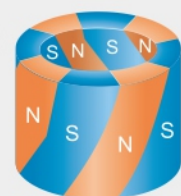


辐射环 Radial Oriented Ring

内外径辐射多极直充 Multi-Poles Magnetised Radial Orientation



内外径辐射多极斜充 Multi-poles Skew Magnetised Radial Orientation



低失重产品
LOW WEIGHT LOSS PRODUCT

低失重产品：在高温高压和高湿的条件下，表面未经处理的磁体的单位失重率可以定性的反映磁体的使用寿命，低失重磁体可达到小于1mg/cm²的业内一流水平。

Under high temperature, high pressure, and high humidity, the weight loss level of uncoated magnets reflect the corrosion resistance ability of a bare magnet, it is highly related to the serving life of application products.

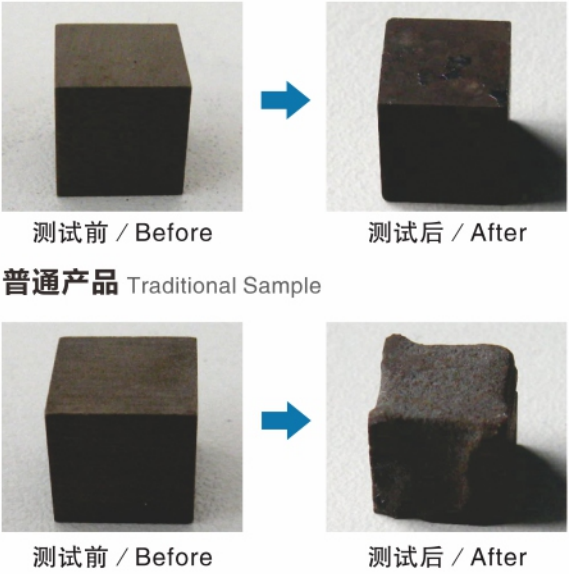
产品 Product	测试时间 Test Time	HAST试验条件 HAST Test Condition	试验结果 Test Result
批量产品 Bulk Production	168小时 168 hours	132°C ±2°C, 3个大气压, 100% 湿度 132°C ±2°C, 3atm, 100% RH	≤ 1.0mg/cm²
试验样品 Experimental Sample	60天 60 days		



HAST试验机

产品测试前后对比
Comparison photo after HAST test

低失重产品 Low weight loss product



测试前 / Before

测试后 / After

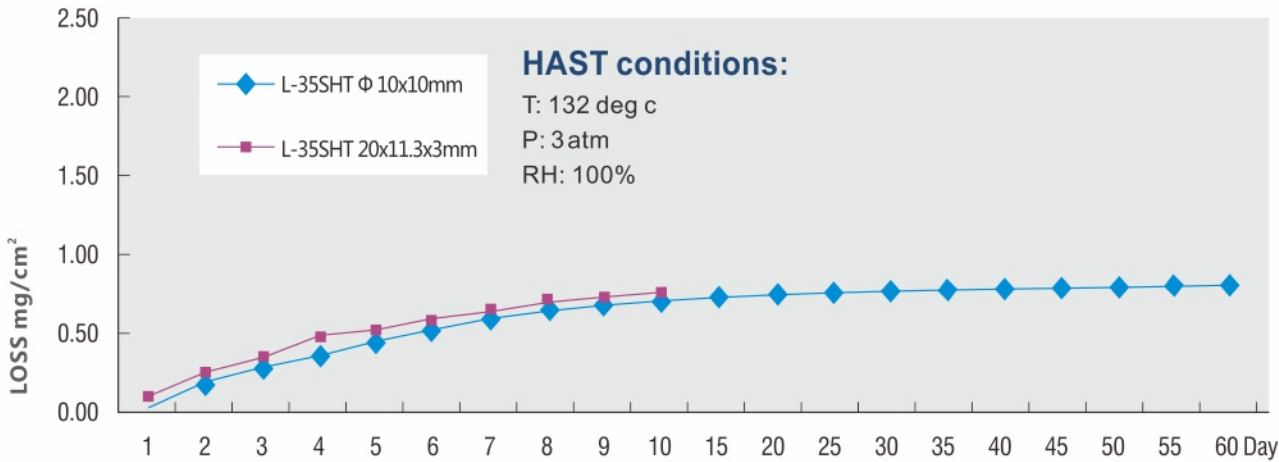
普通产品 Traditional Sample

测试前 / Before

测试后 / After

FESTURED PRODUCTS
特色产品

L-35SH-T磁体HAST试验失重曲线图
WEIGHT LOSS CURVE OF UNCOATED L-35SH-T MAGNET WITH HAST



低温度系数产品

LOW TEMPERATURE COEFFICIENT PRODUCT

普菲特磁业通过优化的配方设计和改进的制程工艺，使得同等牌号的产品具有更高的耐热稳定性和更低的热退磁率。

Pufeite use own optimized formula and advanced production technics improved and enhanced the magnet temperature resistance ability, which get better thermo stabilization and less demagnetization in the same grade.

温度系数参考数据

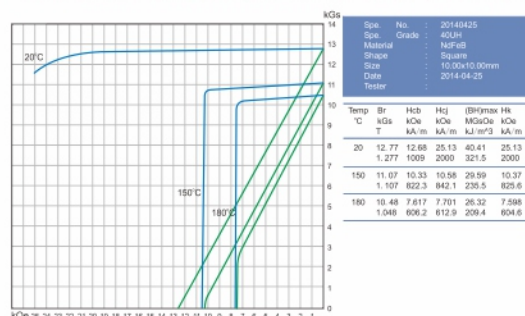
Reference data of temperature coefficient

剩磁温度系数 αB_r	-0.08~-0.11% / $^{\circ}\text{C}$
内禀矫顽力温度系数 βH_{cj}	-0.25~-0.6% / $^{\circ}\text{C}$



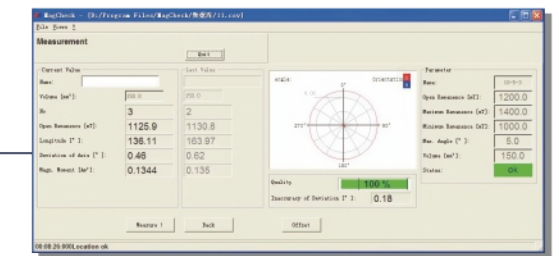
变温测磁仪 Hysteresigraph

NIM-200C HYSTERESIGRAPH TEST REPORT



低磁偏角产品

LOW DEVIATION ANGLE PRODUCT



进口高精度磁偏角测试仪
Magnetic deviation angle tester

一般来说，传感器应用领域对NdFeB磁偏角有更高要求，我司专业的团队、精良的测试设备以及良好的QC生产控制体系，使得我司一次成品合格率达到业内领先水平（具体看产品尺寸及要求）。

Generally speaking, Sensors have higher standard for magnetic angle deviation. Our professional team, advanced equipment and well-trained QC staff, makes Pufeite the leading company who has very high qualified rate of low deviation angle product. (it depends on dimensions and requirements).



- 1. 检验产能: 400万片/年/台**
Capacity: 4Millions pcs/Year/Set
- 2. 应用领域: 对磁化方向有高精度要求的应用, 比如传感器**
Application: Applications which has higher requirement to the magnetizing direction, such as sensors.
- 3. 产品形状: 小方块, 小圆环等**
Shape: Blocks and Ring magnet.
- 4. 使用效果: 使用至今, 无一客户投诉**
Feedback after using: No complaining since we use it.

全自动磁偏角测试仪

Full-Automatic Magnetic deviation angle tester

低磁偏角要求产品多应用于传感器等高端领域，需求量大且要求高，为满足客户要求，我司和相关厂家联合研发了全自动磁偏角测试设备，并采购多台应用于我司产品检验，经过多年的使用，效果非常良好，能确保出厂产品100%满足客户要求，消除客户对出厂产品的顾虑。

Low deviation angle product was mostly used in sensor application with high requirement and huge quantity. In order to meet the requirement from clients, Pufeite work together with test equipment company to research and develop full-automatic deviation angle tester, which we bought and used to inspect magnets in past years, it ensure our shipping product 100% qualified.

NdFeB 辐射环

RADIAL ORIENTED RING MAGNET

广泛应用于机器人、工业自动化生产线等领域
It was widely used in the application of robotics and industrial automatic production line etc.

什么是辐射环？What is Radial Ring Magnet？

辐射环（烧结钕铁硼）是指辐射取向的磁环，产品的取向从圆心向四周呈辐射状取向。它的充磁方式多样，有单极充和多极充，有直充和斜充等，常见的多极充有：2极、4极、8极、10极、12极等，充磁极数及斜充的角度由最终充磁夹具决定。

Ring magnet magnetized in Radial Direction is developed successfully which is using shaping method by new multipole radiation orientation, and meet different requirements of permanent motors. Fundamentally changed the past situation that radial ring magnet only relied on the magnetic tile assembly, greatly improve the performance of the motor.

The popular poles include: 2 pole, 4 poles, 8 poles, 10 poles, 12 poles etc, the number of poles and the skew angle were decided by the magnetizing tooling.

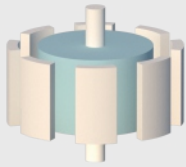
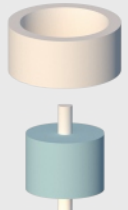
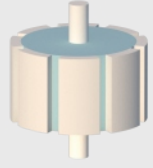
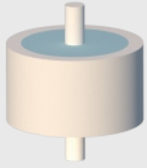
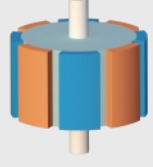
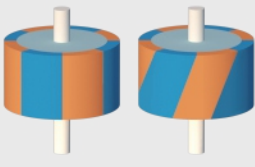
辐射环尺寸 Dimensions					
图示及充磁方式 Sketch	参数 Dimension	范围 Dimension	尺寸公差 Tolerance	同轴度 Coaxiality	圆柱度 Cylindricity
 多极直充  多极斜充	外径 OD	20-75mm	± 0.05mm	0.1	0.04
	内径 ID	15-68mm			
	壁厚 T	2-7mm			
	高度 H	5-50mm			
我司能生产的性能 / Grade		N30-N48, 30M-45M, 30H-42H 30SH-40SH, 30UH-38UH, 28EH-35EH			
常用镀层 / Coating		镍铜镍, 环氧树脂 NiCuNi, Epoxy etc.			
应用领域 / Applications		机器人、工业自动化生产线等, 比如液晶面板生产线 Robotics and Industrial Automatic Production Line etc.			

以上数据为我司目前的工艺水平，产品的尺寸、性能和公差随着以后工艺的改进也会有变化，具体请联系我司专业工程师。
Above data only represents our current technology, the dimensions, performance and tolerance will be changed when the technology improves in future, please contact our professional engineer for the details.

辐射环的应用优势 The advantages of Radial Ring Magnet	
生产工艺: Assembly technique	减少电机部件数量，简化组装工艺，提高装配效率。 Less parts, simplify assembly process, easily realize automatic assembly.
产品精度: Product Precision	更好的同轴度，垂直度，转子外径尺寸精度高。 Outer Diameter Higher precision, Better Coaxiality and Verticality.
充磁方式: Magnetization way	灵活可选的充磁方式（极数及直、斜充），大大减小电机的齿槽力矩。 Very flexible to choose different ways of magnetizing, include magnetizing poles and angles.
安 全 性: Safety	可靠性高，不会有脱落风险。 Highly reliable, no risk of magnet peel off.
电机性能: Motor performance	气隙小，电机运转更加平稳，低噪音，运转速度高。 Very small air gap, motor has smoother operating performance with less noise and vibration.

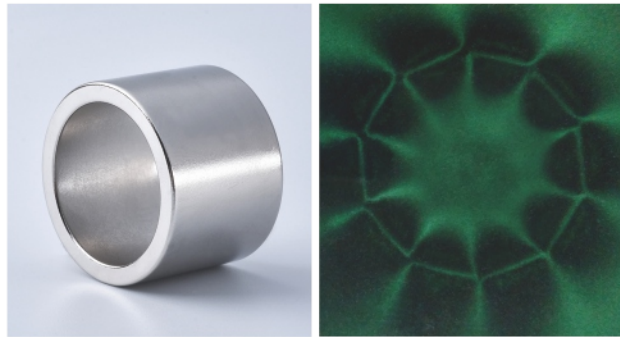
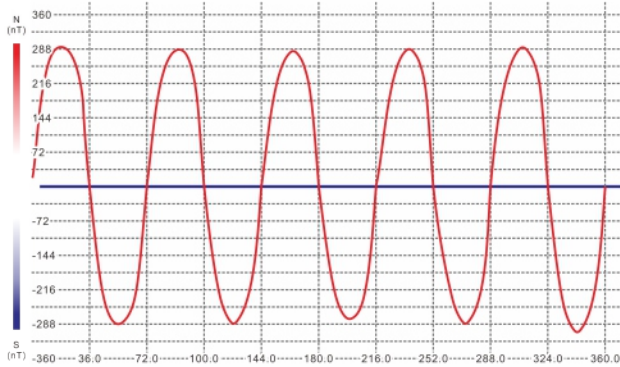
辐射环的优点

Advantages of a radiation ring

瓦形磁石 Arc Magnet	辐射环 Radial Ring Magnet
	 易组装 Easily Assembly
	 尺寸精度高 Higher Precision
	 充磁方向灵活 Flexible Magnetizing

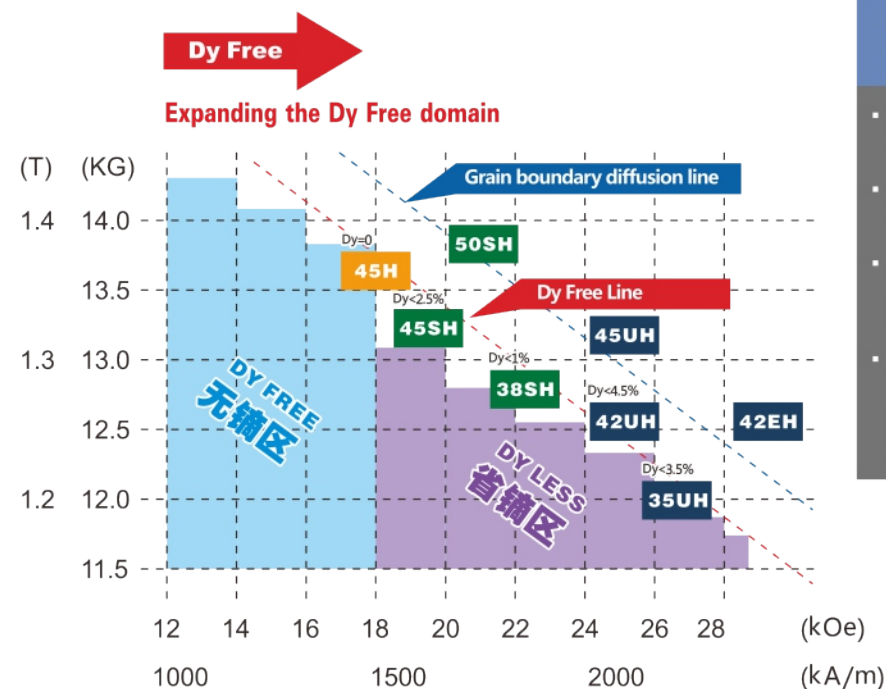
10 极辐射环表磁波形图

10 poles Radial Ring Magnet Surface Flux Density Distribution Chart



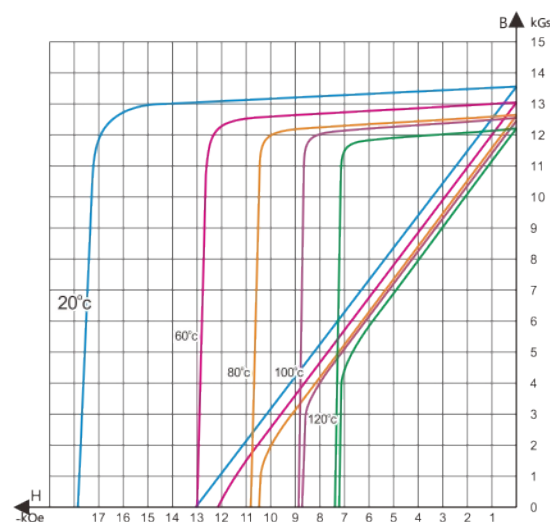
重稀土减少、零重稀土工艺

DFP-Dy (Heavy Rare Earth) Free/Less Process



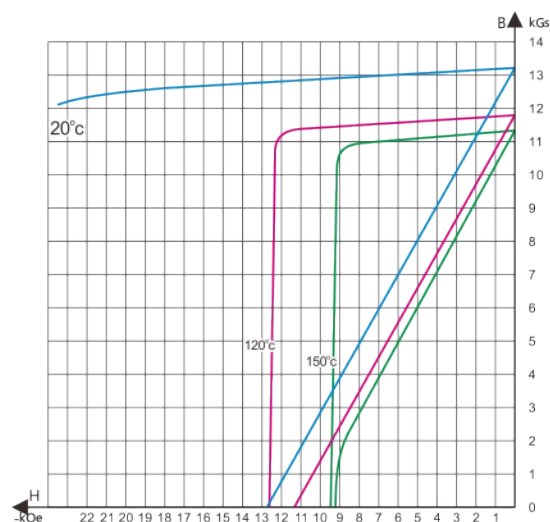
特点 Features

- 持续优化工艺流程
Constantly Improving the Process
- 晶粒细化
Refining the Particle Size
- 原材料配方优化
Improve and Optimize raw material composition
- 晶界扩散工艺应用
(渗镨、渗铽工艺)
Grain boundary diffusion (Dy, Tb)



45H 变温曲线图——无镨

Demagnetization Curve of 45H --- Free of Dy



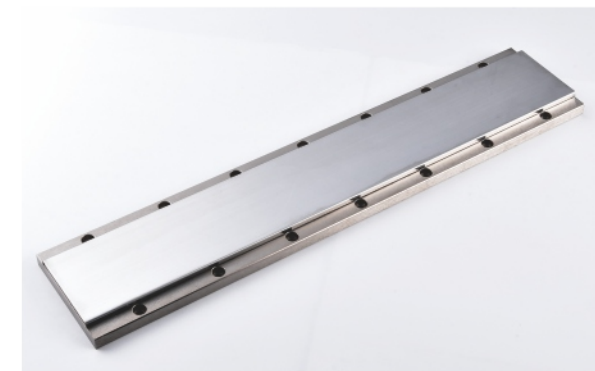
42UH 变温曲线图——省镨

Demagnetization Curve of 42UH --- Less of Dy

直线电机 Linear Motor



U型直线电机 U shape Linear Motor



平板直线电机 Flat Linear Motor

直线电机是将电能直接转化为直线机械运动的装置，由于无中间机械转化机构，因此它的结构简单，元器件少，对机械加工的要求低，实现了无磨擦、零间隙转动。在计算机和功率元件的控制下，能够轻易实现高速和高加速直线运动，从而提高工业设备的速度和效率。

Direct drive linear motors have high force density, high stiffness, enable extremely smooth velocity control and require minimal maintenance.

It typically consists of magnet track and magnets, with very good acceleration capabilities and short settling times, which make them ideal for precise, rapid movements.

特性 Features	产品 Product	U型直线电机 U shape Linear Motor	平板直线电机 Flat Linear Motor
长度 Length		定制化 customized	
材料 Material		N, M, H, SH性能钕铁硼磁钢, Q235A不锈钢板 N, M, H, SH grade Neodymium (Nd) magnet and Q235A stainless steel.	
应用领域 Application		半导体设备, FPD工业 (液晶面板生产线), 自动化搬运, 电子工业, PCB设备, 重载精密控制系统等。 Semiconductor industry, FPD industry, SMT, PCB, CNC machine etc.	
产品优势 Benefits of Linear Motor		- 运动平稳 Smooth motion - 无齿槽力及电磁吸力 Zero cogging and no electromagnetic attraction - 高负载、高加速度——适用于快速移动大的载荷 Strong overload capacity - 高定位精度, 定子与转子无机械接触, 电机部分几乎免维护 Maintenance-free, with the grating application to achieve high precision.....	
关键词 Key words		超高精度, 高加速, 直线驱动 Maximum precision, High cycle speed, Linear Movement	

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We can provide a complete service from consult, design to sampling and bulk production, and we are happy to answering your questions about our products, Should you have any questions, please contact our professional engineer.

磁性联轴器

Magnetic Couplings

工作原理：

永磁联轴器是通过永磁体的磁力将原动机与工作机联接起来的一种新型联轴器，它无需直接的机械联接，而是利用稀土永磁体之间的相互作用，利用磁场可穿透一定的空间距离和物质材料的特性，进行机械能量的传递。永磁联轴器的出现，彻底解决了某些机械装置中动密封存在的泄漏问题。

Magnetic coupling is a new generation of coupling, which by using the power generated by permanent magnets to transmit drive torque. it consists of external rotor, internal rotor and isolating cover.

Magnetic coupling was widely used in pump and agitator systems to isolate the electric motor drive from highly toxic and/or aggressive liquids. This has the advantage of removing dynamic seals which have a finite lifetime and are prone to leakage. They replace mechanical seals with a complete and air-tight static permanent seal. Magnetic couplings can also be used as a torque limiter to protect system drive components.



特性Features	产品Product	磁性联轴器 Magnetic Couplings
尺寸 Dimension		内径: D22 – D210mm 或定制 外径: D50 – D300mm 或定制 Inner Diameter: D22 – D210mm or customized. Outer Diameter: D50 – D300mm or customized.
材料 Material		N, H, SH, UH性能钕铁硼磁钢， Q235A, 304/316L不锈钢 N, H, SH, UH grade Neodymium (Nd) magnet and Q235A, 304/316L stainless steel.
应用领域 Application		液压领域，制药行业，造纸行业，食品行业，化工行业，压缩机行业等 Hydraulic sectors, dosing systems, compressors, industrial ovens, pharmaceutical industry, chemical industry etc.
产品优势 Benefits of Magnetic couplings		- 隔离套阻止介质泄漏，起密封作用 Hermetic separation, no Leakage - 柔性联接，传动平稳，减少系统振动传递 Smooth Motion, Vibration reduction - 高效率 High efficiency - 各种负载可以实现精确控制与调节 Various loads can be precisely controlled and regulated. - 实现电机的软启动/停止，具有过载保护功能 Realize the motor soft start / stop, with overload protection.
关键词 Key words		无泄漏，密封传动，超高效率 No leakage, Hermetic separation, Very high efficiency.

磁力棒

Magnetic Rod

磁棒主要应用于磁力架构成的磁性分离器中，其由高性能磁铁和不锈钢管通过组装，焊接和抛光加工而成，也被称为磁棒，磁性过滤棒等。其可以有效的吸除松散的或者流动的原料中的铁杂质和金属小颗粒。

Magnetic rod, the main part of different magnetic grate separators, are made from high power magnets and stainless tube by well welding and polishing, they are also named magnetic rod, magnetic bar, magnetic filter bar etc. they can effectively remove ferrous chips and metal particles from loosely packed, free flowing materials.



特性Features	产品Product	磁力棒 Magnetic Rod
最高表磁 Surface Gauss		8000—14000 Gauss 或可定制化 / customized
尺寸 Dimension		- 外径: D15-D60mm或定制 D25是最常见尺寸 (1 英寸) Outer Diameter: D15-D60 mm or customized. D25 is the most popular (1 inch) - 长度: 100-1500mm 或定制 Length: 100 – 1500mm or customized.
材料 Material		N35, N38, H, SH 性能NdFeB磁钢， SS304/316/316L不锈钢管。 N35, N38, H, SH grade Neodymium (Nd) magnet and SS304/316/316L stainless steel tube.
应用领域 Application		磁力棒应用非常广泛， 主要应用于食品， 选矿， 医药， 染料及回收等行业， 主要作用为生产过程的铁杂质过滤和质量控制， 比如用来分离婴儿食品加工物料中的铁屑类杂质。 Mainly used in food production, agriculture, pharmaceutical and recycling industries. it was popular used to remove iron impurities in pharmaceutical and food industrial.
产品优势 Benefits of Magnetic Rod		- 易拆卸和清洗 Easily installed, uninstall and surface clean. - 无能耗， 零污染 No energy consume, zero pollution. - 工作效能高效稳定 Work Highly effective and constant performance. - 设计及生产应用灵活 Custom flexible design in any size and shape. - 表磁最高可以达到12000-14000高斯 Surface gauss up to 12000-14000 gauss.
关键词 Key words		去除铁屑杂质, 超高表磁 Remove iron impurities, Super High surface Gauss.

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磁性吸盘挂钩 Pot Magnet, Magnetic Hook

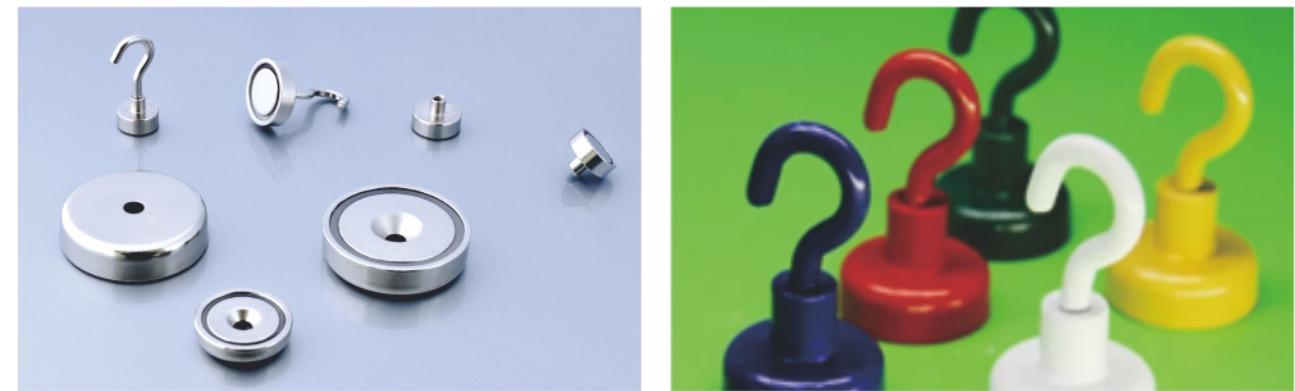
1. 磁性吸盘由钕铁硼磁铁和铁质壳体组成，外部铁壳包围，形成特殊磁路，磁铁吸力被放大到原有吸力的2-4倍。

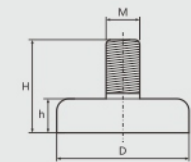
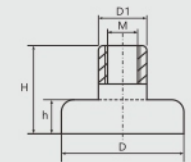
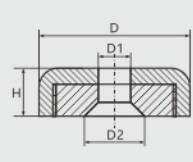
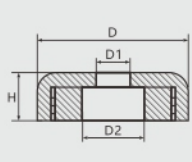
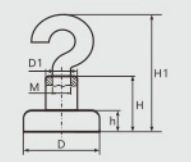
2. 磁性挂钩由上部分的挂钩和下部分的吸盘所组合而成，表面一般处理成烤漆，镀镍，镀锌等，彩色钕铁硼磁性挂钩，有多种颜色可选：红、白、绿、蓝、橙、紫、黄、黑等。

吸盘和挂钩都具有体积小、吸力大的特点，当垂直吸附于材质表面时，可以达到吸力最大化，在生产生活中具有重要的实用价值。吸盘和挂钩的吸力大小不仅由内置磁铁性能、外部铁壳构造及加工公差等决定，还取决于所吸附表面的材质、厚度、平整度及摩擦力的大小等。

NdFeB Pot Magnet and Magnetic Hook are suitable for small sized magnetic products with maximum pull strength (Especially when in direct contact with ferromagnetic e.g. mild steel surfaces). The pull force achieved is related to the surface that is being clamped onto (material type, thickness, flatness, friction levels etc), its quality (e.g. rust free), its size (thickness plus total surface area) and the grade of Neodymium magnet.

We are offering pot magnet and magnetic hook in a variety of different sizes from D10mm to D120mm, different size get different pull force, Ni plated is the most popular coating, but we can also paint outer steel cup and hook with different colors if requested, such as Yellow, Red, White, Blue, Black and more.



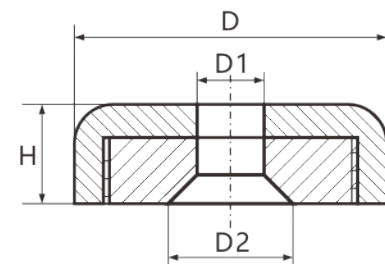
特性 Features	产品 Product	外螺纹吸盘 Pot Magnet with Male Threaded	内螺纹吸盘 Pot Magnet with Female Threaded	沉头孔吸盘 Pot Magnet with Countersunk Mounting	直孔吸盘 Pot Magnet with Through Hole Mounting	磁性挂钩 Magnetic Hook
设计 Design						
产品外径 Diameter(mm)		D6-D120或定制 D6-D120 or Customized	D6-D120或定制 D6-D120 or Customized	D10-D120或定制 D10-D120 or Customized	D10-D120或定制 D10-D120 or Customized	D6-D80或定制 D6-D80 or Customized
吸力 Attraction(Kg)		0.5kg-400kg	0.5kg-400kg	1kg-400kg	1kg-400kg	0.5kg-200kg

MAGNETIC ASSEMBLY

磁性组件

沉头孔吸盘是目前最为常见的产品，针对市场上最常见的规格，我司根据生产经验和测试数据积累，整理出如下表格，以供有需要的朋友参考。

Pot Magnet with Countersunk Mounting is the most popular on the market, after years of production and test of different pot magnet, we conclude below table for your reference.



型号 Model	D	D1	D2	H	自重 Weight (g)	拉脱力 Attraction (Kg)
TA16	16	3.5	6.5	5.2	7	6
TA20	20	4.5	8.6	7.2	15	9
TA25	25	5.5	11	7.7	24	19
TA32	32	5.5	11	7.8	39	32
TA36	36	6.5	12	7.6	50	41
TA40	40	6.5	12	7.8	69	52
TA42	42	6.5	12	8.8	77	61
TA48	48	8.5	19	10.8	120	75
TA60	60	8.5	19	15	243	115
TA75	75	10.5	21	17.8	480	163

其他磁性组件

Other Magnetic Assembly:

磁性徽章
Name Badge Magnet



方形沉孔吸盘
Rectangular Pot Magnet



圆形吊环磁钩
Eyelet Hook Magnet



金属磁图钉
Steel Pin Magnet

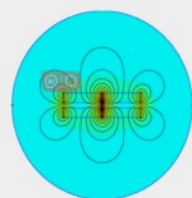
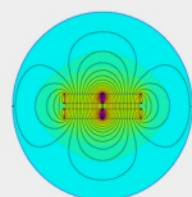
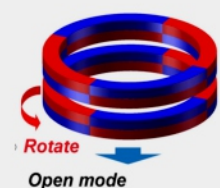


我司可提供不同尺寸和要求的定制化服务，如您有任何疑问，请联系我们工程师。
We can provide a complete service from consult, design to sampling and bulk production, and we are happy to answering your questions about our products, Should you have any questions, please contact our professional engineer.

香水磁帽 Perfume Cap



Off mode



MAGNETIC ASSEMBLY 磁性组件



PFT075A
15mm
D:28.6mm H:30mm



PFT075B
15mm
D:28.6mm H:30mm



PFT075C
15mm
D:28.6mm H:30mm



PFT043M
15mm
D:35mm H:31mm



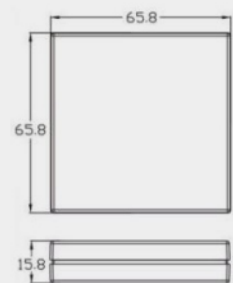
PFT128M
15mm
D:35mm H:25mm



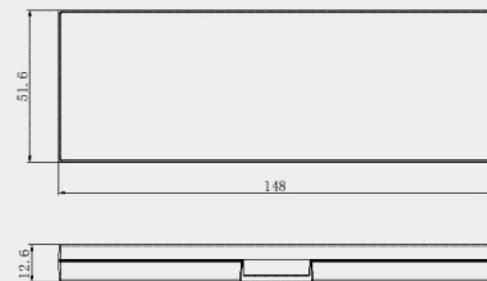
PFT218M
15mm
D:35mm D52mm H:40mm

粉盒

Compact Case Collection



Item No. 型号	System 结构	Main Material 主要材料	Dimension/Size (mm) 产品尺寸
WCP-009-073A/B/C/D	磁性	ABS & AS	L65.8*W65.8*H15.8mm



Item No. 型号	System 结构	Main Material 主要材料	Dimension/Size (mm) 产品尺寸
WCP-009-074A/B/C	磁性	ABS+AS	L148*W51.6*H12.6mm

磁铁口红管

Magnet Lipstick Tube Collection





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