

www.xf-magnet.com

宁波鑫丰磁业有限公司

NINGBO XINFENG MAGNET INDUSTRY CO.,LTD

地址: 宁波鄞州区首南街道李花桥工业区
Add: Lihuaqiao Industrial Zone, Shounan Street, Yinzhou Distr. Ningbo
Tel: +86-574-88160005 Fax: +86-574-88160007

Sales Branch 宁波浩丰磁性科技有限公司

NINGBO HAOFENG MAGNET TECHNOLOGY CO.,LTD

Add: Room 1204, No.500,Middle Taikang Road Yinzhou Distr. Ningbo,China
Tel: +86-574-88469138 Fax:+86-574-89065087
E-mail:Info@xf-magnet.com

鑫丰磁业
XINFENG MAGNET
www.xf-magnet.com



鑫丰磁业 能源转换专家
XINFENG MAGNET Expert of energy transformation



鑫丰磁业 能源转换专家
XINFENG MAGNET Expert of energy transformation


鑫丰磁业 吸引世界

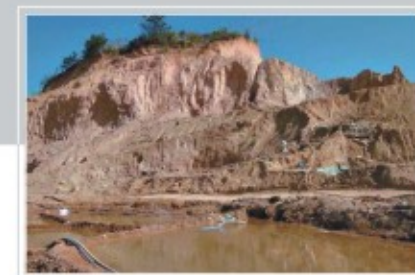
Xinfeng magnet attracts the world

www.xf-magnet.com



Research / Manufacture / Application

研究 / 生产 / 应用 



Ningbo Xinfeng Magnet Industry CO., Ltd. was established in year 2004, which is a high-tech company and committed to research, manufacture and application of sintered NdFeB permanent magnet, with annual capacity of 1200 tons. Mainly manufacture and sell motor magnets, speaker magnets, devices magnets and magnetic components etc. The company owns a sales branch -- Ningbo Haofeng Magnet Technology Co., Ltd., which is aimed to market its products home and abroad. Xinfeng magnets have exported mainly to Europe, North America and Asian countries, who has gained a good international reputation.

宁波鑫丰磁业有限公司成立于2004年，是一家从事钕铁硼(NdFeB)永磁材料的研究、生产、应用开发为一体的高科技新型企业，专业生产各种牌号规格的烧结稀土钕铁硼永磁材料，年产量可达1200吨。公司产销电机磁铁、喇叭磁铁、磁设备等以及相关配套的磁性组件。公司产品目前广泛应用于电机、无线通讯产品、航空、VCM、仪器仪表等领域，并远销欧、美、亚洲等世界各国，赢得良好国际信誉。

COMPANY PROFILE

企业简介 



OUR GOAL

我们的目标

Committed to becoming the most professional
solution expert of motor magnets
致力于成为中国最专业的电机磁铁解决方案专家

OUR BUSINESS PHILOSOPHY

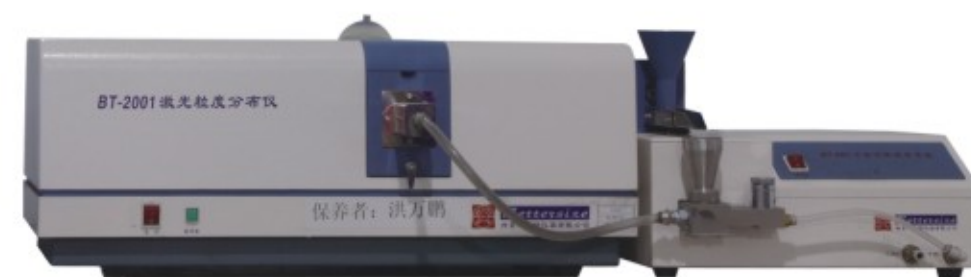
我们的经营理念

Quality-oriented and mutual benefit
“品质+共赢”是我们的经营理念

OUR SERVICE CONCEPTION

我们的服务理念

Faith-based, customer first
诚信为本，用户至上



QUALITY CONTROL

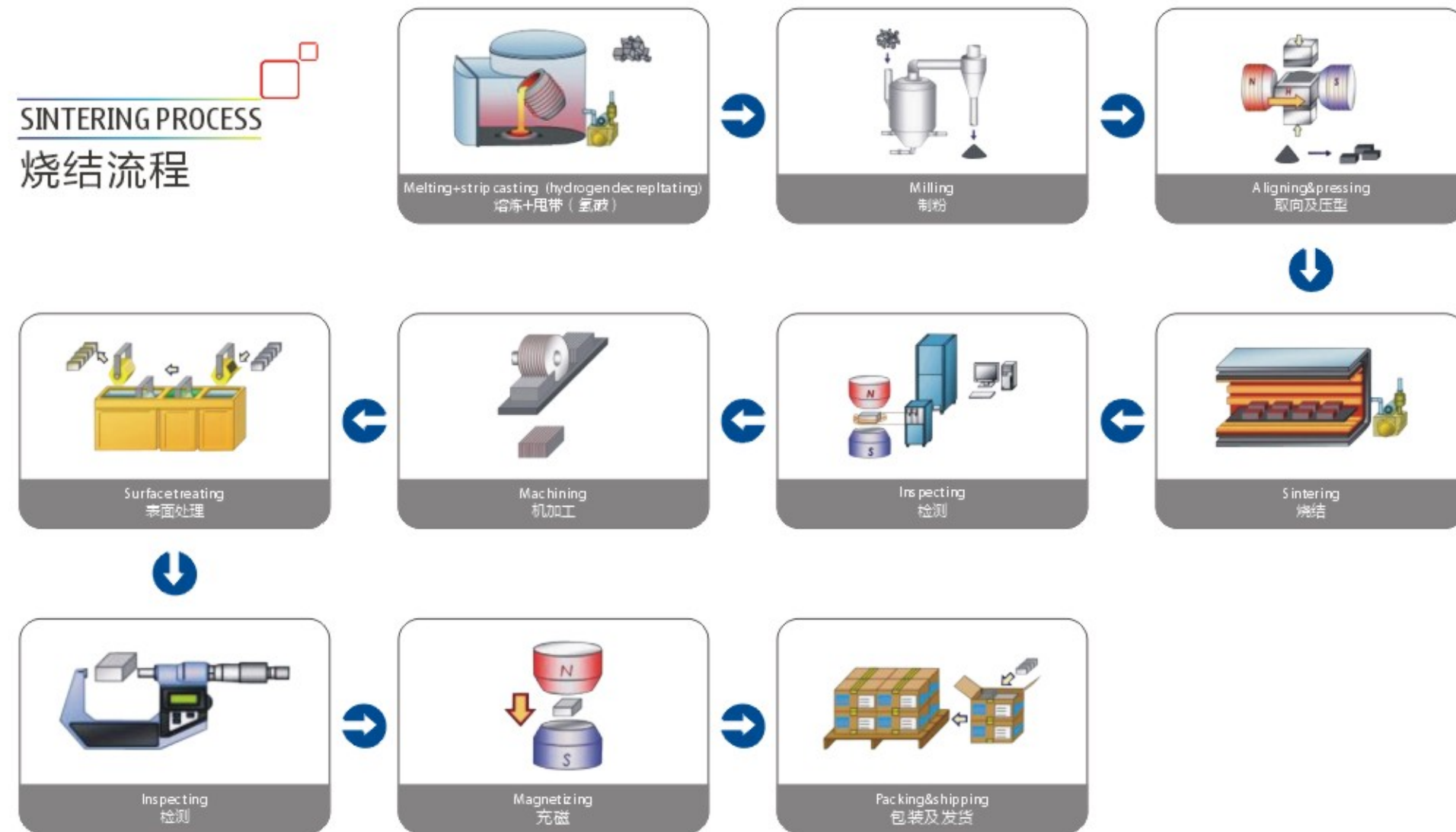
品质控制

The company has the capability to meet different strict testing
requirements with those inspection equipments.
公司拥有齐全的检测设备，能满足各种产品的严苛检验要求。



SINTERING PROCESS

烧结流程



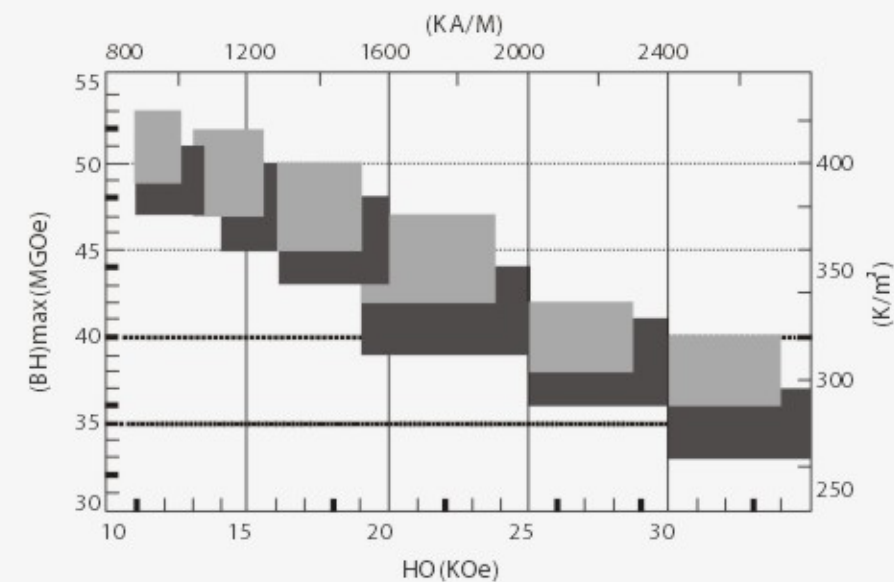
SINTERED NdFeB 烧结钕铁硼

Sintered Ndfeb magnet has many good properties, such as lower weight loss, high consistency, high coercivity and high energy. It also has favorable mechanical prosperities, which enable us to make different shapes. Our factory has gradually developed grades of N/H/SH/UH/EH series with various shapes such as arc, blocks, discs, rings and irregular shapes, totally more than 500 different items. Those magnets are widely used in motor, computer, wind power, speakers and medical equipments etc.

烧结钕铁硼产品具有高磁能积、高矫顽力、高一致性等特性，而且具有良好的机械性，拥有当代磁王之称。本公司先后研发生产出N/H/SH/UH/EH等系列的各种方块、环形、瓦型及各种异型500多种规格型号的产品，广泛应用于电机、喇叭、风力发电、通讯设备、医疗器材等领域。

MAGNETIC PERFORMANCES

磁性能分布图



鑫丰磁业 能源转换专家

XINFENG MAGNET, Expert of energy transformation

SURFACE TREATMENT

表面处理

NdFeB magnets have corrosion potential and are easily oxidized in the normal temperature. Thus, there is a great need of plating with high corrosion resistance. XF MAG has developed its own plating unit, who could offer different magnets related products with effective solutions.

烧结钕铁硼由于其特殊的结构在常温种非常容易被氧化和腐蚀，因此对钕铁硼产品进行表面处理就显得尤为重要。公司自有电镀车间，为不同应用的磁性产品提供了多种镀层解决方案，并对镀层的外观、防腐蚀性、结合力等进行严格管控。

Zinc Coating:
good corrosion protection and salt spray resistance
锌镀层: 较强的抗腐蚀能力, 抗盐雾试验能力较强

Nickel Coating:
excellent corrosion protection and superior heat resistance
镍镀层: 耐腐蚀性强, 优异的抗高温性

Epoxy:
excellent corrosion resistance & salt spray, heat resistance
环氧镀层: 耐腐蚀, 耐高温, 突出的抗盐雾试验

SURFACE TREATMENT ENVIRONMENT

电镀环境



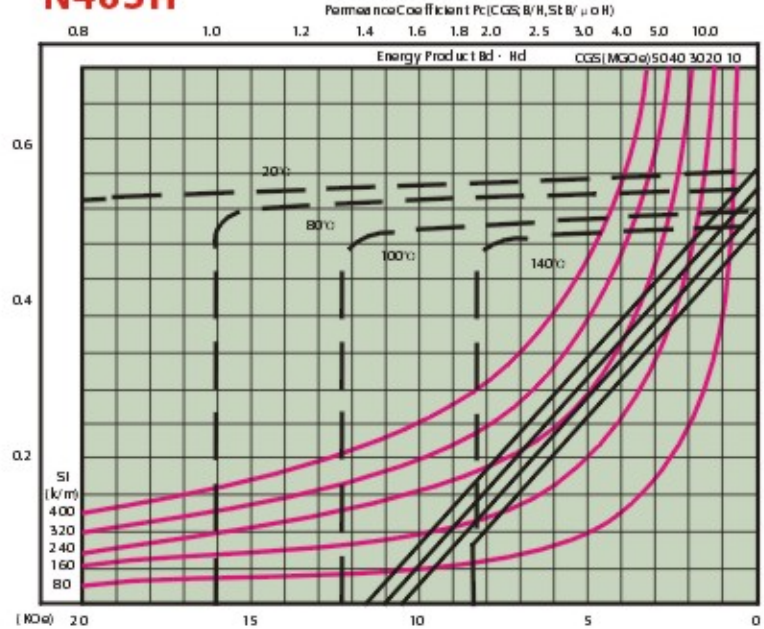
Available Coating for Sintered NdFeB Magnets

烧结钕铁硼适用镀层

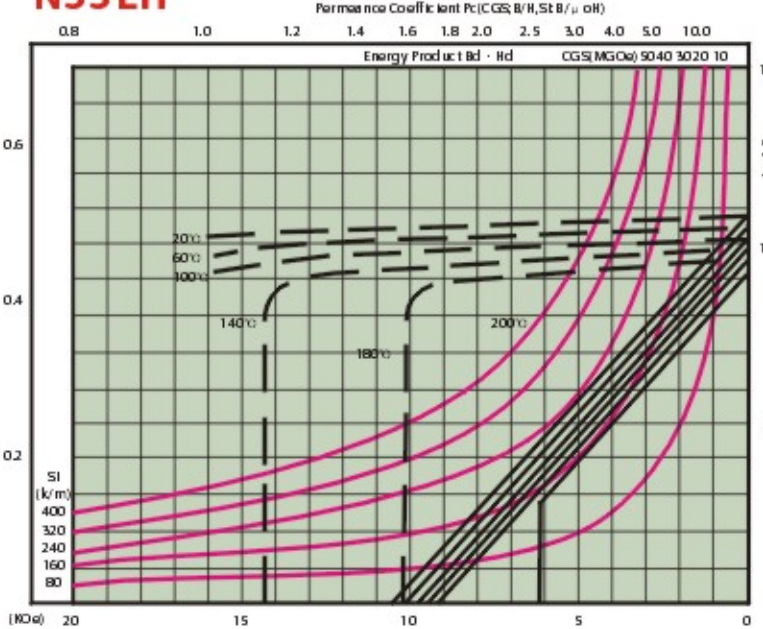
Surface Types / 类型	Coating Structure / 镀层	Thickness(um) / 厚度	Color(s) / 颜色		SST(hours)/盐雾试验	PCT(hours)/压力试验
			Silver	银白色		
Nickel 镍	Ni+Ni	10-20	Black	亮黑色	>24-72	>24-72
	Ni-Cu-Ni					
Zinc 锌	Zn	8-15	Blue	蓝白色	>16-48 >36-72	>12
	Color Zn		Multicolor	彩色		
Sn 锡	Ni+Cu+Sn	10-20	Silver	银色	>36-72	>48
Au 金	Ni+Cu+Ni+Au	10-15	Gold	金色	>12	>48
Ag 银	Ni+Cu+Ni+Ag	10-15	Silver	银色	>12	>48
Epoxy 环氧	Epoxy	10-20	Black/Gray 黑色/灰色		>48 >72-108 >72-108	>12 >24 >12
	Ni+Cu+Epoxy	15-30				
	Zn+Epoxy	15-25				
Passivation 钝化	/	1-3	Dark Gray	黑灰色	Temporary Protection 临时保护	/
Phosphated 磷化	/	1-3	Dark Gray	黑灰色	Temporary Protection 临时保护	/
Parylene 帕利灵	Parylene	5-25	Transparent	透明色	Superior Corrosion & Salt Spray Resistance 极好的耐腐蚀和耐盐雾能力	

MASTER CURVE
典型曲线

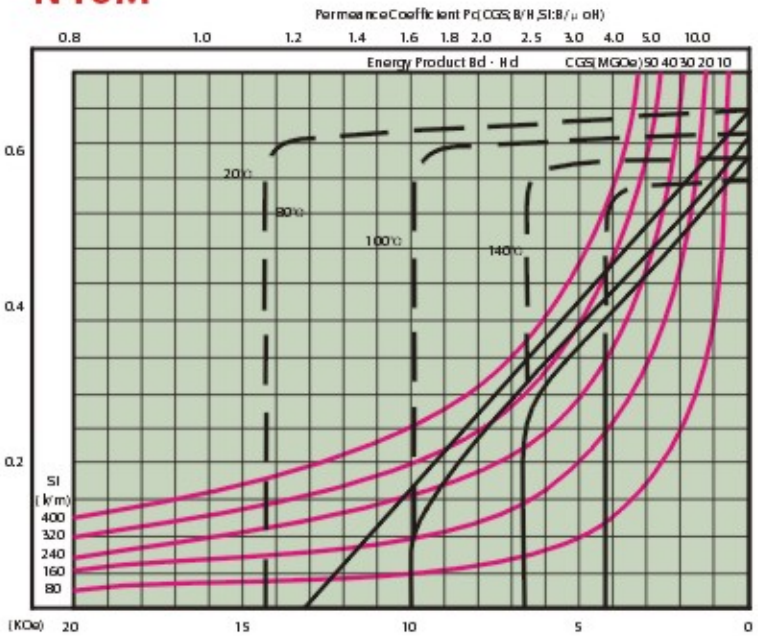
N48SH



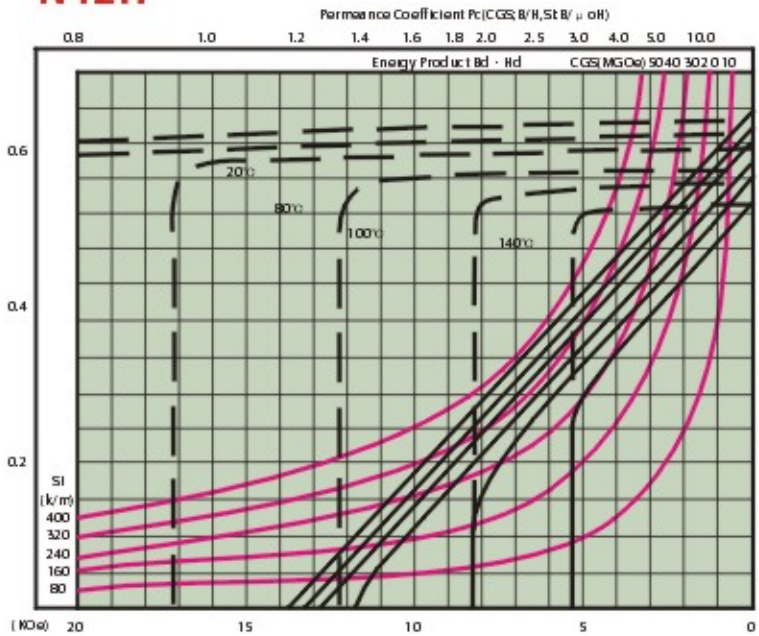
N33EH



N48M



N42H



磁性能表

MAGNETIC CHARACTERISTICS OF SINTERED NDFEB

序号 No.	牌号 No.	性能 Properties 单位 Unit	剩磁 Residual Magnetic Flux Density Br				矫顽力 Coercivity Force Hcb		内禀矫顽力 Intrinsic Coercivity Force Hcj		最大磁能积 Maximum Product Energy (BH)max			
			KGs		T		KOe	KA/m	KOe	KA/m	MGOe		KJ/m ³	
			最小值 Min	最大值 Max	最小值 Min	最大值 Max					最小值 Min	最大值 Max	最小值 Min	最大值 Max
1	N35		11.7	12.2	1.17	1.22	≥10.8	≥860	≥12	≥955	33	36	263	287
2	N38		12.2	12.6	1.12	1.26	≥10.8	≥860	≥12	≥955	35	39	279	310
3	N40		12.6	13.0	1.26	1.30	≥10.8	≥860	≥12	≥955	38	41	302	326
4	N42		13.0	13.4	1.30	1.34	≥10.8	≥860	≥12	≥955	40	43	318	342
5	N45		13.3	13.7	1.33	1.37	≥10.8	≥860	≥12	≥955	42	45	334	358
6	N48		13.7	14.1	1.37	1.41	≥10.5	≥836	≥11	≥875	45	49	358	390
7	N50		14.1	14.4	1.41	1.44	≥10.5	≥836	≥11	≥875	47	51	374	406
8	N52		14.4	14.8	1.44	1.48	≥10.5	≥836	≥11	≥875	50	53	398	422
9	N35M		11.7	12.2	1.17	1.22	≥11.0	≥876	≥14	≥1114	33	36	263	287
10	N38M		12.2	12.6	1.12	1.26	≥11.5	≥916	≥14	≥1114	35	39	279	310
11	N40M		12.6	13.0	1.26	1.30	≥11.8	≥936	≥14	≥1114	38	41	302	326
12	N42M		13.0	13.4	1.30	1.34	≥12.0	≥955	≥14	≥1114	40	43	318	342
13	N45M		13.3	13.7	1.33	1.37	≥12.2	≥971	≥14	≥1114	42	45	334	358
14	N48M		13.7	14.1	1.37	1.41	≥12.5	≥955	≥14	≥1114	45	49	358	390
15	N50M		14.1	14.4	1.41	1.44	≥12.5	≥955	≥13	≥1035	47	51	374	406
16	N35H		11.7	12.2	1.17	1.22	≥11.0	≥876	≥17	≥1353	33	36	263	287
17	N38H		12.2	12.6	1.12	1.26	≥11.5	≥916	≥17	≥1353	35	39	279	310
18	N40H		12.6	13.0	1.26	1.30	≥11.8	≥939	≥16	≥1273	38	41	302	326
19	N42H		13.0	13.4	1.30	1.34	≥12.1	≥963	≥16	≥1273	40	43	318	342
20	N45H		13.3	13.7	1.33	1.37	≥12.5	≥995	≥16	≥1273	42	45	334	358
21	N48H		13.6	14.1	1.36	1.41	≥12.7	≥1011	≥16	≥1273	45	49	358	390
22	N35SH(T)		11.7	12.2	1.17	1.22	≥11.1	≥883	≥20	≥1592	33	36	263	287
23	N38SH(T)		12.2	12.6	1.12	1.26	≥11.6	≥923	≥20	≥1592	35	39	279	310
24	N40SH(T)		12.6	13.0	1.26	1.30	≥11.8	≥939	≥20	≥1592	38	41	302	326
25	N42SH(T)		12.9	13.4	1.29	1.34	≥12.0	≥955	≥19	≥1512	40	43	318	342
26	N45SH(T)		13.2	13.7	1.32	1.37	≥12.4	≥987	≥19	≥1512	42	45	334	358
27	N33UH(T)		11.4	11.7	1.14	1.17	≥10.8	≥859	≥25	≥1990	31	36	247	287
28	N35UH(T)		11.7	12.2	1.17	1.22	≥11.2	≥981	≥25	≥1990	33	36	263	287
29	N38UH(T)		12.2	12.6	1.12	1.26	≥11.6	≥923	≥25	≥1990	35	39	279	310
30	N40UH(T)		12.6	13.0	1.26	1.30	≥12.0	≥955	≥25	≥1990	38	41	302	326
31	N33EH(T)		11.4	11.7	1.14	1.17	≥10.3	≥820	≥30	≥2388	31	36	247	287
32	N35EH(T)		11.7	12.2	1.17	1.22	≥10.8	≥859	≥30	≥2388	33	36	263	287
33	N38EH(T)		12.2	12.6	1.12	1.26	≥11.1	≥883	≥30	≥2388	35	39	279	310

注：牌号中T表示有温度特性要求、且有抗腐蚀性要求的NdFeB磁体，矫顽力温度系数（20℃~150℃）在-0.65~-0.50%/℃之内。
Note:The marked "T" stands for the material required temperature condition, corrosion resistance and coercivity temperature coefficient（20℃~150℃）From -0.65 to -0.50%/℃

It offers the possibility to miniaturize the size of digital products with the constant enhancement of NdFeB Energy, thus, the upgrading in the area of Digital Products has become very fast where the NdFeB magnet is applied. (such as digital cameras, vibrator magnet in the mobile phone, monitoring equipment, CD-rom) To meet the requirement of high precession, small size and irregular shape in electronic products, the company has designed its own processing technics which cannot be finished by the traditional technics.



随着钕铁硼的能积不断地提高，为数字产品的小型化提供了可能。因此在钕铁硼广泛应用的电子领域产品的升级换代变得异常迅速（如数码相机，手机震动磁钢，监控设备，CD-rom）。为满足电子领域应用产品精度高、规格小且不规则的特点，公司通过自主设计的加工成产工艺，解决并满足了传统工艺无法完成的产品规格和精度要求。



HIGH PRECISION MINISIZED PRODUCTS

高精度微型产品

30 years of precision machining experience ---Small pieces make us brilliant
融合了30年机械加工经验——以小见大，见微知著

Apply in

应用于



Generally speaking, it is required to use NdFeB in the small size of high-power speakers. In loudspeakers units and car audio field, the use of NdFeB is very large. It will be a trend that the NdFeB products replace part of the ferrite magnet speakers with the improvement of stability and high temperature coefficient of NdFeB.

一般而言，要求体积小功率大的喇叭必须使用钕铁硼。在低音喇叭单元和汽车音响领域，钕铁硼的使用量非常巨大。随着钕铁硼稳定性和耐高温系数的提高，逐渐替换掉一部分铁氧体喇叭磁将成为一种趋势。



鑫丰磁业 能源转换专家
XINFENG MAGNET Expert of energy transformation

NdFeB permanent magnet motor is the largest application area of NdFeB accounting for about 70% of the total magnet. Rare-earth permanent magnet motor is in high efficiency and energy saving, the average saving rate is as high as 10%. Recently years, the properties of magnetic material have improved a lot, specially with the improvement in the stability, corrosion resistance, and technology development of electronic devices, NdFeB are widely used in stepper motors, linear motors, servo motor and other areas. Thus, Xinfeng magnet is aimed to becoming the most professional solution expert of motor magnets.

钕铁硼永磁电机是钕铁硼磁体最大的应用领域，约占磁体总量的70%。稀土永磁电机高效节能，平均节电率高达10%。近年来，随着稀土永磁材料性能的不不断提高，特别是钕铁硼永磁材料的热稳定性、耐腐蚀性的改善及电力电子器件技术的进一步发展，钕铁硼被大量使用在步进电机，直线电机，伺服电机等领域中。因此，我们的目标是：致力于成为中国最专业的电机磁铁解决方案专家。

