



35 年磁铁应用专家

35yr magnet application expert

永磁产品的研发、生产、销售
R&D, production and sales of permanent magnet products

地址：广东省东莞市望牛墩镇望洪路 7 号

Address: No. 7 Wanghong Road, Wangniudun Town, Dongguan City, Guangdong Province, China

电话：0769-88561131

Phone: +86 769 8856 1131

网址：www.dawamag.com

Website: www.dawamagnetic.com

邮箱：info@chinadawa.com

Email: info@chinadawa.com

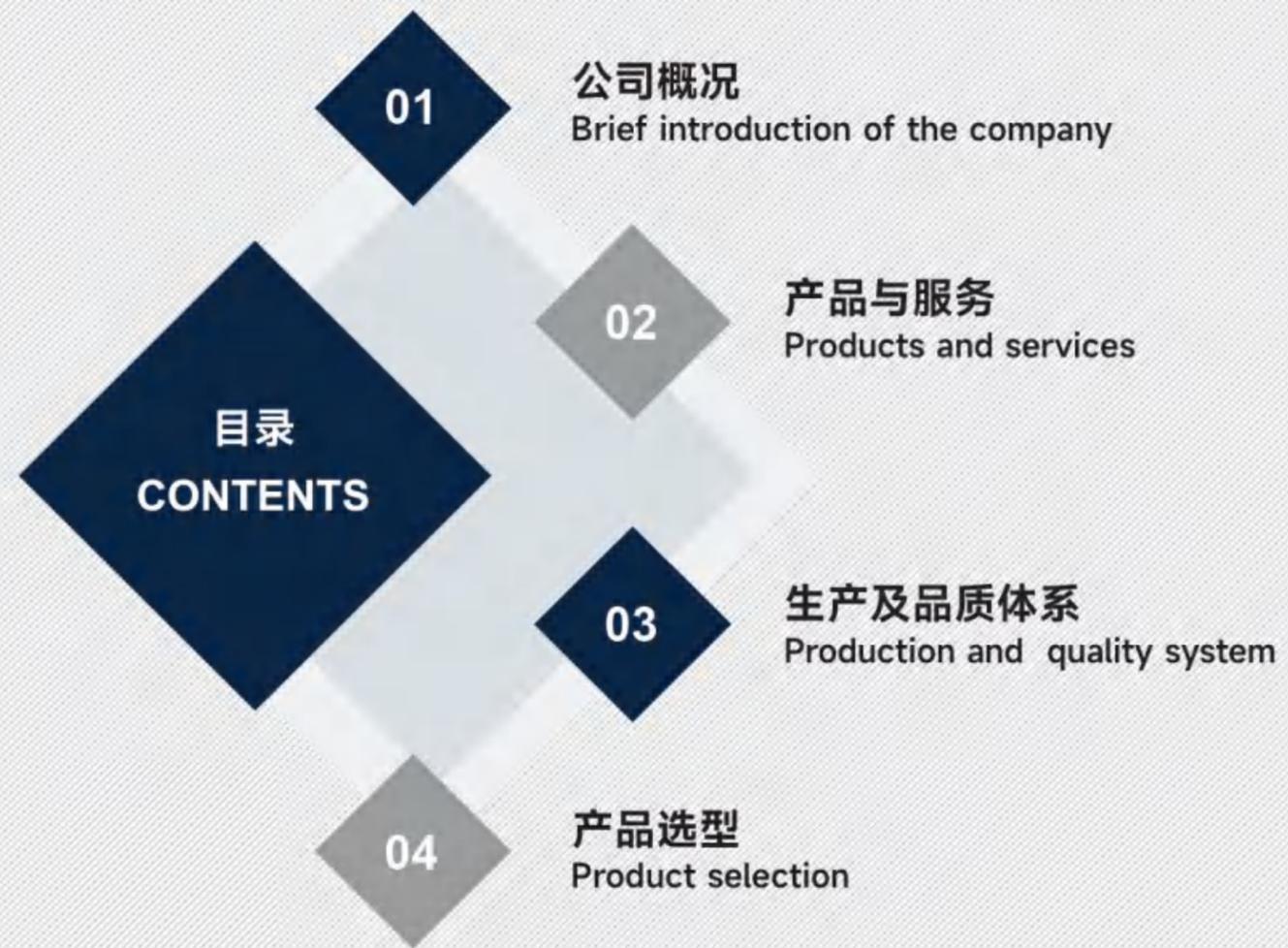


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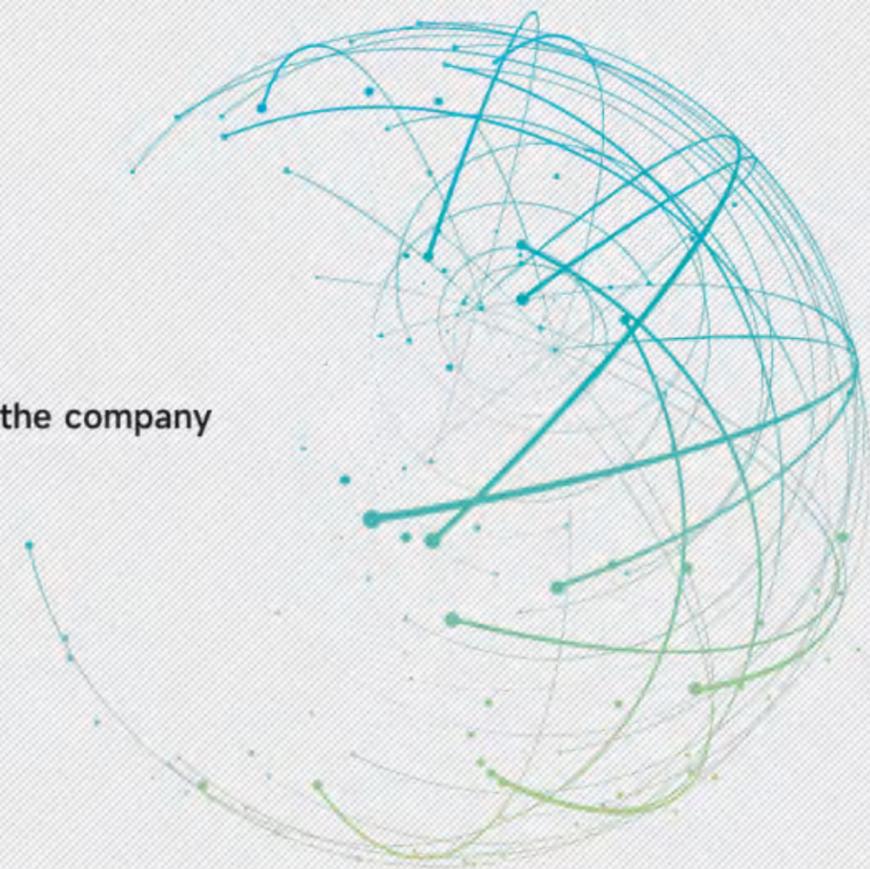
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广东大华磁电有限公司 | 东莞市嘉豪磁性制品有限公司
Guangdong Dawa Magnetelectric Co. Ltd. | Dongguan Jiahao Magnetic Product Co. Ltd.



/01 公司概况

Brief introduction of the company



关于我们 About us

广东大华磁电有限公司 Guangdong Dawa Magnetelectric Co., Ltd.
东莞市嘉豪磁性制品有限公司 Dongguan Jiahao Magnetic Product Co., Ltd

东莞市嘉豪磁性制品有限公司，大华磁电成员，是专业的磁铁生产商，是国家级高新技术企业、广东省专精特新企业，产品广泛应用于消费电子、电声、家电、电机、汽车、医疗、玩具等领域。经过 30 余年的发展，集团自有工厂厂房约 4 万平方米，建立了从原料到成品的完整生产线及完善的质量管控体系，是珠三角为数不多集烧结、机加工、电镀全加工流程与高质量管控的磁铁生产企业。在高精度异型钕铁硼产品加工能力上我司长期投入研发力量，不断优化改进加工工艺，使我司加工能力长期处于行业领先水平。

作为国内第一代耳机、电子烟、玩具磁铁的研发制造企业，我司拥有一支经验丰富的工程师团队，在研发、制造、充磁和组装等方面长期积累经验，能为客户提供创新的多极充磁、磁铁应用解决方案，支持产品开发，缩短研发周期。

我司拥有 ISO14001、ISO9001、IATF16949 及翠鸟认证，致力于成为全球领先的精密磁铁设计与制造专家。



Dongguan Jiahao Magnetic Product Co., Ltd, a member of DAWA Magnetics, is a professional magnet manufacturer, a national high-tech enterprise. Our products are widely used in consumer electronics, electro-acoustic, home appliances, motors, automotive, medical, toys and other fields.

After more than 30 years of development, the group has its own factory building of about 40,000 square meters, established a complete production line from materials to finished products and a complete quality control system, is one of the few magnet manufacturers in Southern China that integrates the full processing flow of sintering, machining and surface treatment. We have long specialized in the high-precision processing of shaped NdFeB products. This expertise ensures our processing capabilities maintain a leading position in the industry.

As the first generation of headphone, electronic cigarette, toy magnet R&D and manufacturing enterprises, our company has a team of experienced engineers, in R&D, manufacturing, magnetization and assembly of long-term experience, can provide customers with innovative multi-pole magnetization, magnet application solutions, support product development to shorten the development cycle.

With ISO14001, ISO9001, IATF16949 and SGS Recycle certifications, our company is committed to becoming the world's leading expert in the design and manufacture of precision magnets.

资质与荣誉 Certificates and honors

企业荣誉

国家级高新技术企业
国家级科技型中小企业
广东省专精特新企业
广东省创新型中小企业
东莞市磁性器件（嘉豪）
工程技术研究中心
东莞市优秀企业

体系认证

ISO14001-2015
ISO9001-2015
IATF16949-2016
翠鸟认证

知识产权

2 项发明授权
7 项发明公布
45 项实用新型
5 项高新技术产品

校企合作

北京科技大学广州新材料
研究院产学研合作基地

Honors

National High-Tech Enterprise
National High-Sci Enterprise
Provincial specialized and sophisticated enterprise
Provincial Innovation enterprise
Dongguan Magnetic Components (Jiahao)
Engineering Technology Research Center
Dongguan Excellent enterprise

System Certifications

ISO14001-2015
ISO9001-2015
IATF16949-2016
SCS Recycle

Patents

2 Authorization of inventions
7 inventions
45 Utility models
5 High tech products

University cooperation

An industry-research cooperation with Guangzhou
New Material Research Institution of Beijing
Science and Technology



品牌端合作伙伴 Brand partners



核心优势 Key advantages

前沿研发 Innovation

丰富的永磁设计研发经验，拥有磁路设计及仿真能力，可配合客户研发

Rich experience in permanent magnet design and R&D, with magnetic circuit design and simulation capabilities, capable of early supplier involvement

为客户提供综合性、定制化解决方案 Total solutions

35 年经验沉淀、位于全球制造业中心东莞，见多识广的团队为您量身定做解决方案

With 35 years of experience and located in Dongguan, the global manufacturing center, our knowledgeable team will provide you with tailor-made solutions.

品质保障 Quality Guarantee

国家级高新技术企业、省级专精特新企业，已获得 ISO14001、ISO9001、IAFT16949 3 大体系认证

State-level high-tech enterprises, provincial-level specialized and sophisticated enterprises; obtained ISO14001, ISO9001, IAFT16949 3 major system certification.

快速响应 Fast response

专业的样品团队，最快 3-5 天出样
Professional sample team, up to 3-5 days sample production lead time

异型加工能力 Precision machining

经验丰富的异型加工团队及设备，可满足方滚圆、跑道、打孔、台阶等多种加工要求，掌握领先的激光加工工艺

Experienced precision machining team and equipment, can meet the square rolling round, runway, punching, steps and other machining requirements, mastering the leading laser processing technology

自研设备及自动化能力 Automation design

专业的工程团队可快速根据产品要求设计非标的加工、充磁设备和自动化产线，实现产能的快速提升

Professional engineers are capable to design non-standard automation and magnetizing equipment to achieve rapid increase in production capacity



/02 产品与服务 Products and services



下游应用领域 Applications

传感器、磁性编码环 Sensors,magnetic ring

人形机器人、游戏机操纵杆

Humanoid robots, game console joysticks

消费电子

Consumer electronics

耳机、手机、可穿戴、电脑、平板、电子书、
键盘、鼠标、无人机、电子烟

Headphones, cell phones, wearables,
laptops, tablets, e-books, keyboards,
mouses, drones, e-cigarettes

汽车

Automotives

减震系统、雨刮电机、座椅电机、撑杆电机、怀挡
传感器、倾斜传感器、方向盘转角传感器、激光
雷达转台、增量式磁码盘、绝对式磁码盘、内饰

Shock absorber system, wiper motor, seat
motor, spacer motors, Wye Sensor, tilt sensor,
steering wheel angle sensor, LIDAR rotary table,
incremental magnetic disk, absolute magnetic
disk, upholstery

智能家电、电动工具、玩具

Smart home appliance, tools, toys

高速吹风机、扫地机、空调、饮水机、净
水器、电动工具

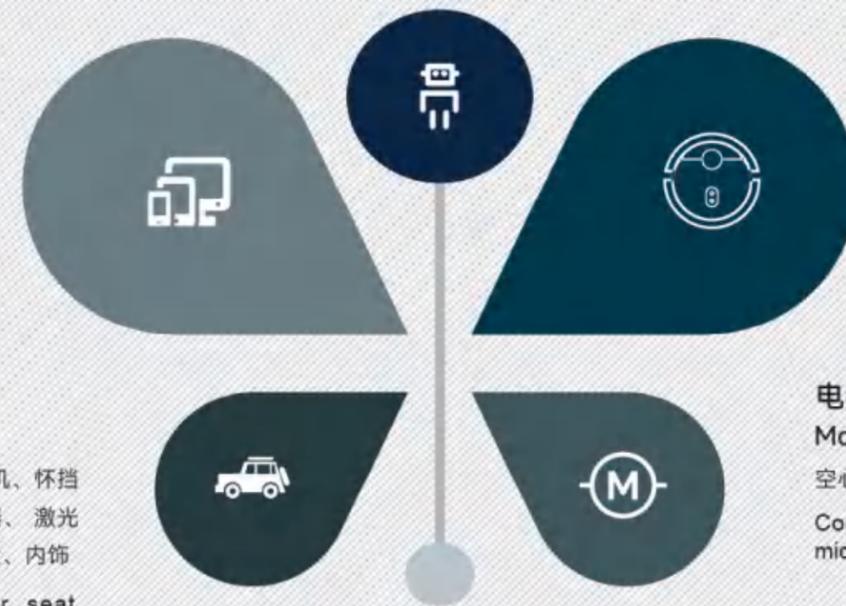
High-speed hair-dryers, sweepers, air
conditioners, water dispensers, water
purifiers, power tools

电机

Motors

空心杯电机、直线电机、伺服电机、微型电机

Coreless motors, linear motors, servo motors,
micro motors



产品系列 Product series



- 01** 提供多种牌号、形状、尺寸的产品覆盖市场上 80% 的应用
We offer a wide range of grades, shapes and sizes to cover 80% of the applications in the market
- 02** 尤其擅长电声、可穿戴、智能家居等创新应用
Especially specializing in innovative applications such as electro-acoustic, wearable and smart home applications
- 03** 在小型、异形、高精度磁铁领域有极致追求
We have the ultimate pursuit in the field of small, shaped and high-precision magnets.



永磁材料 Permanent magnet materials

材料 Material	图示 Picture	最大磁能积 (BH)max (MGOe)	工作温度 Working temperature (°C)	稳定性 Stability	抗氧化性能 Antioxidant property	机械加工性能 Machinability	密度 Density g/cm ³	硬度 Hardness Hv	抗弯强度 Bending strength MPa
烧结钕铁硼 Sintered NdFeB		35-52	-125-220	好 High	易腐蚀 需镀层保护 Low	一般 Medium	7.4-7.8	400-600	250-300
粘结钕铁硼 Bonded NdFeB		2-14	150	好 High	易腐蚀 需镀层保护 Low	通过模具 一次成型 Molded in a single pass	5.5-6.4	80-120	100-160
注塑钕铁硼 Injection NdFeB		10	120	好 High	好 High	通过模具 一次成型 Molded in a single pass	3-5.5	140-150	60-100
烧结钐钴 SmCo		17-30	-250-350	好 High	好 High	一般 Medium	8.3-8.5	550-600	120-150
铸造 / 烧结 铝镍钴 AlNiCo		9	-250-550	易退磁 Low	好 High	一般 Medium	6.9-7.3	520-700	50-310
烧结铁氧体 Sintered Ferrite		5.2	300	好 High	好 High	一般 Medium	3.8-5.5	480-580	100-150

表面处理解决方案 Surface treatments

行业顶尖的电镀团队

Top team across industry

满足尺寸、外观、盐雾、跌落、汗液、达因等一系列要求

Satisfy a series of requirements such as size, appearance, salt spray, drop, perspiration, dyne, etc.

创新助力行业升级

Innovation

通过自研屡次突破盐雾、跌落、汗液、小倒角等极端要求，研发能力行业领先

Through self-research repeatedly break through salt spray, drop, sweat, small chamfer and other extreme requirements; industry-leading R&D capabilities

适应华南市场

Adaptable to South China Market

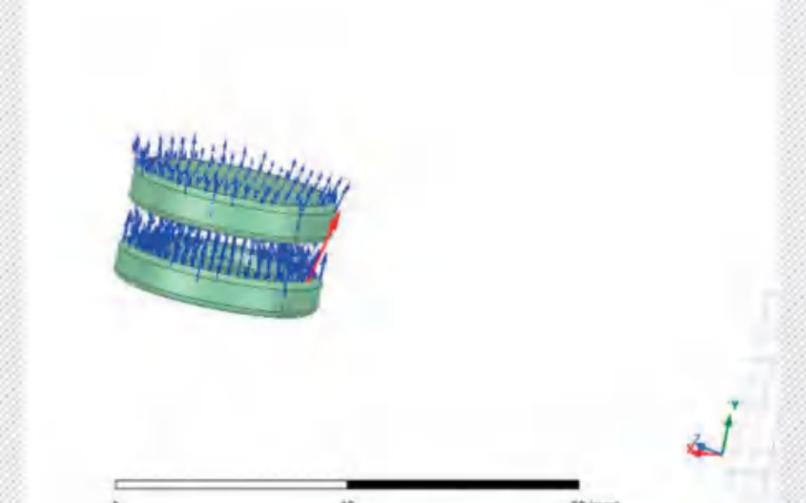
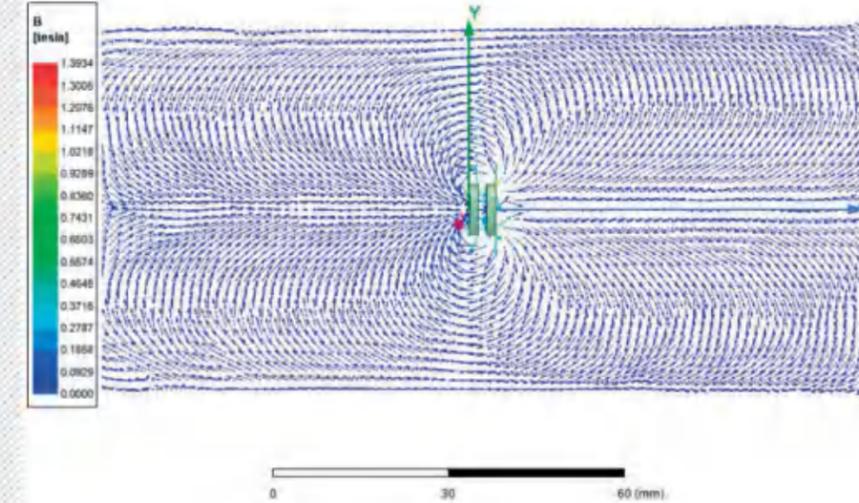
尤其擅长小批量多批次、小型异形产品、电声产品、可穿戴产品要求

Especially good at small batch and multi-batch, small and special products, electro-acoustic products, wearable products.



镀层 Coating	颜色 Color		镀层厚度 Coating thickness (微米μm)	盐雾测试 Salt-spray test (hr)
				GB T6461-2002
蓝白锌 Blue Zn	蓝白色 Blue white		4-15	12-48
彩锌 Color Zn	彩白色 Color white		4-15	12-48
镍 Ni	银白色 Silver		10-20	24-72
化学镍 Chemical Ni	深银白色 Dark silver		10-30	24-96
黑镍 Black Ni	黑色 Black		10-20	24-48
环氧 Epoxy	多种 Multi		10-30-80	48-200
电泳 Electrophoresis	多种 Multi		10-30	48-200
磷化 Phosphid	黑灰色 Gray		1	3
金 Gold	金色 Gold		5-20	48-96

磁路设计及仿真 Mag' circuit design and simulation



磁铁对吸仿真

Two magnet attraction simulation

磁铁选型模拟分析

Simulation analysis for magnet selection

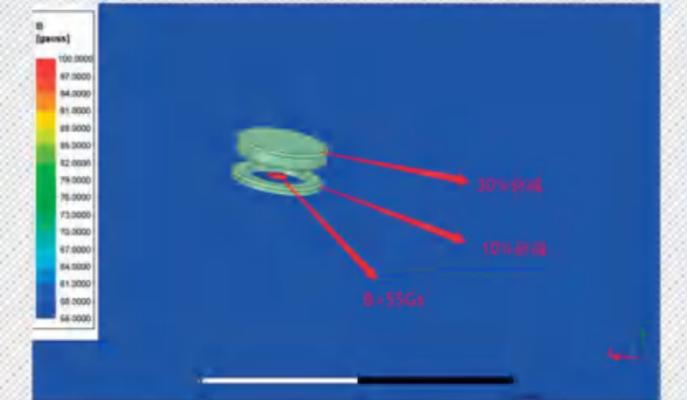
仿真模拟, 形成选材及尺寸建议

Simulation for material selection and size advice

磁铁组件吸力仿真

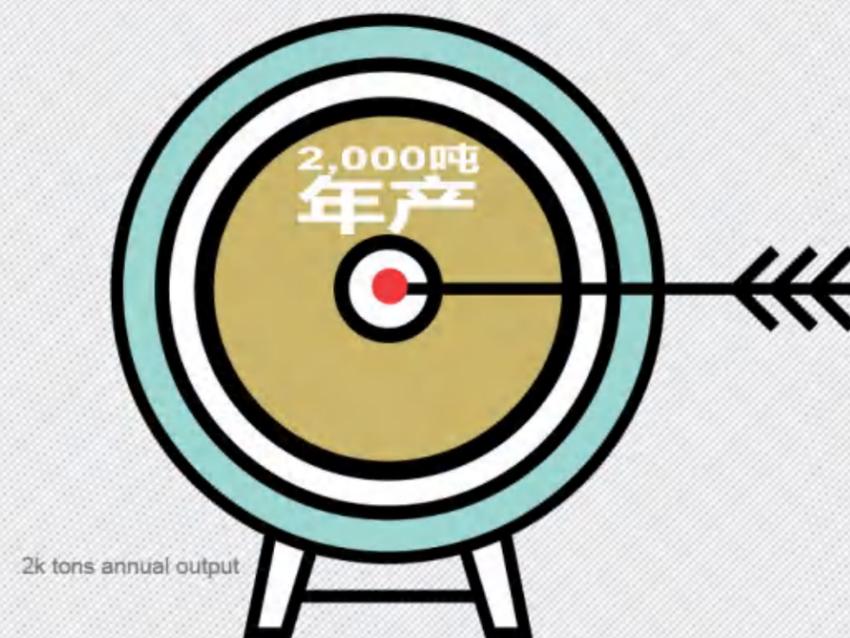
Magnet Assembly Force Simulation

Distance [mm]	Mag_B [mT]	Mag_B [mT]
Step 1	Len(Adaptive)	Step 1
1	0.000000	1463.42310
2	0.111115	1388.758736
3	0.222227	1321.141621
4	0.333346	1261.086213
5	0.444463	1207.369726
6	0.555587	1159.129427
7	0.666690	1116.397929
8	0.777795	1078.099096
9	0.888907	1044.289336
10	1.000020	1014.029341
11	1.111133	987.271364
12	1.222247	963.049195
13	1.333360	940.376420
14	1.444473	918.259996
15	1.555587	896.695022
16	1.666700	875.684725
17	1.777813	855.230484
18	1.888927	835.332095
19	2.000040	815.989483



/03 生产及品质体系

Production and quality system



规模
Scale



4万平方米, 200人
40k m², 200 staffs

生产加工
Material
production
and
Processing



12台烧结炉, 25台多线切片机, 20余台自主研发的加工车床、10台异形加工车床、2台激光加工设备
12 sintering furnaces, 25 wire cutting machines, 20+ self-developed, 10 special shapes lathes, 2 laser cutting machines

表面处理
Surface
treatment



10条电镀线
10 surface treatment lines

品质保证 Quality guarantee

质检实验室
Quality control lab



磁性测量仪
Magnetization characteristic test



布鲁克膜厚 / RoHS 膜厚测试仪
Coating thickness measurement / RoHS Test



全自动 CCD 外观检测机
Automatic CCD visual inspection machine



盐雾测试
Salt-spray test



二元投影
Projection machine



恒温恒湿 / 冷热冲击测试
Constant temperature & humidity / thermal shock test



高精度磁偏角测量仪
High-precision magnetic declination measuring instrument



/ 04 产品选型 Product selection



磁性能 Magnetic properties

烧结成型 NdFeB 磁性能 Magnetic Properties of sintering molding NdFeB										
品种 Variety	牌号 Grade	Br		Hcj		Hcb		(BH)max		工作温度 Operating temperature °C
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
		最小值 Min		最小值 Min		最小值 Min		范围值 Range value		
N	N54	1.45	14.5	875	11	836	10.5	406 - 438	51 - 55	≤ 80
	N52	1.42	14.2	960	12	836	10.5	390 - 422	49 - 53	
	N50	1.39	13.9	960	12	836	10.5	374 - 406	47 - 51	
	N48	1.37	13.7	960	12	836	10.5	358 - 390	45 - 49	
	N45	1.33	13.3	960	12	860	10.8	342 - 366	43 - 46	
	N42	1.29	12.9	960	12	860	10.8	318 - 342	40 - 43	
	N40	1.26	12.6	960	12	860	10.8	302 - 326	38 - 41	
	N38	1.23	12.3	960	12	860	10.8	287 - 310	36 - 39	
	N35	1.18	11.8	960	12	860	10.8	263 - 287	33 - 36	
M	N52M	1.42	14.2	1035	13	995	12.5	390 - 422	49 - 53	≤ 100
	N50M	1.39	13.9	1114	14	1035	13.0	374 - 406	47 - 51	
	N48M	1.37	13.7	1114	14	1012	12.7	358 - 390	45 - 49	
	N45M	1.33	13.3	1114	14	971	12.2	342 - 366	43 - 46	
	N42M	1.29	12.9	1114	14	938	11.8	318 - 342	40 - 43	
	N40M	1.26	12.6	1114	14	910	11.4	302 - 326	38 - 41	
	N38M	1.23	12.3	1114	14	876	11.0	287 - 310	36 - 39	
	N35M	1.18	11.8	1114	14	860	10.8	263 - 287	33 - 36	
H	N54H	1.44	14.4	1274	16	1092	13.7	406 - 446	51 - 55	≤ 120
	N52H	1.42	14.2	1353	17	1066	13.4	390 - 422	49 - 53	
	N50H	1.39	13.9	1274	16	1035	13.0	374 - 406	47 - 51	
	N48H	1.37	13.7	1274	16	1000	12.8	358 - 390	45 - 49	
	N45H	1.33	13.3	1353	17	995	12.5	342 - 366	43 - 46	
	N42H	1.29	12.9	1353	17	957	12.0	318 - 342	40 - 43	
	N40H	1.26	12.6	1353	17	930	11.7	302 - 326	38 - 41	
	N38H	1.23	12.3	1353	17	910	11.4	287 - 310	36 - 39	
	N35H	1.18	11.8	1353	17	876	11.0	263 - 287	33 - 36	
	N33H	1.14	11.4	1353	17	844	10.6	247 - 271	31 - 34	

磁性能 Magnetic properties

烧结成型 NdFeB 磁性能 Magnetic Properties of sintering molding NdFeB										
品种 Variety	牌号 Grade	Br		Hcj		Hcb		(BH)max		工作温度 Operating temperature °C
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
		最小值 Min		最小值 Min		最小值 Min		范围值 Range value		
SH	N48SH	1.37	13.7	1512	19	1035	12.8	358 - 390	45 - 49	≤ 150
	N45SH	1.33	13.3	1592	20	938	11.8	342 - 366	43 - 46	
	N42SH	1.29	12.9	1592	20	938	11.8	318 - 342	40 - 43	
	N40SH	1.26	12.6	1592	20	912	11.5	302 - 326	38 - 41	
	N38SH	1.23	12.3	1592	20	886	11.1	287 - 310	36 - 39	
	N35SH	1.18	11.8	1592	20	876	11.0	263 - 287	33 - 36	
	N33SH	1.14	11.4	1592	20	836	10.5	247 - 271	31 - 34	
	N30SH	1.08	10.8	1592	20	816	10.3	223 - 247	28 - 31	
UH	N45UH	1.33	13.3	1911	24	976	12.2	342 - 366	43 - 46	≤ 180
	N42UH	1.29	12.9	1990	25	938	11.8	318 - 342	40 - 43	
	N40UH	1.26	12.6	1990	25	912	11.5	302 - 326	38 - 41	
	N38UH	1.23	12.3	1990	25	886	11.1	287 - 310	36 - 39	
	N35UH	1.18	11.8	1990	25	845	10.6	263 - 287	33 - 36	
	N33UH	1.14	11.4	1990	25	816	10.3	247 - 271	31 - 34	
	N30UH	1.08	10.8	1990	25	756	9.5	223 - 247	28 - 31	
EH	N42EH	1.28	12.8	2308	29	971	12.2	310 - 342	39 - 43	≤ 200
	N40EH	1.25	12.5	2388	30	947	11.9	295 - 326	37 - 41	
	N38EH	1.22	12.2	2388	30	923	11.6	279 - 310	35 - 39	
	N35EH	1.18	11.8	2388	30	883	11.1	263 - 287	33 - 36	
	N33EH	1.14	11.4	2388	30	816	10.3	247 - 271	31 - 34	
	N30EH	1.08	10.8	2388	30	756	9.5	223 - 247	28 - 31	
TH	N28EH	1.05	10.5	2388	30	756	9.5	207 - 231	26 - 29	≤ 230
	N38TH	1.22	12.2	2627	33	923	11.6	279 - 310	35 - 39	
	N35TH	1.18	11.8	2786	35	845	10.6	263 - 287	33 - 36	
	N33TH	1.14	11.4	2786	35	816	10.2	247 - 271	31 - 34	
	N30TH	1.08	10.8	2786	35	804	10.1	223 - 247	28 - 31	
	N28TH	1.05	10.5	2786	35	756	9.5	207 - 231	26 - 29	

磁性能 Magnetic properties

烧结成型 NdFeB 磁性能 Magnetic Properties of sintering molding NdFeB										
品种 Variety	牌号 Grade	Br		Hcj		Hcb		(BH)max		工作温度 Operating temperature °C
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
		最小值 Min		最小值 Min		最小值 Min		范围值 Range value		
注: 1. 以上性能依照国标 GB/T 13560-2017 2. 以上参数和特征均为室温 20°C 下的数据 3. 最大工作温度受产品规格、镀层类型及工作环境影响。上述性能表中的“最高使用温度”系按热退磁测试 (L 高度 /D 直径 =0.7 圆柱样品, 饱和磁化, 在开路条件下加热至目标温度并保持 2 小时, 冷却回室温; 不可逆开路磁通损失 ≤ 5%) 确定。实际应用中, 请结合产品规格、镀层及现场环境对温度等级作出最终判定。 Note: 1.The above performance is in accordance with the national standard GB/T 13560-2017 2.The above parameters and characteristics are data at room temperature(20°C) 3.The maximum operating temperature is influenced by product specifications, the type of surface plating/coating and the operating environment. The "Maximum Operating Temperature" listed in this table is determined by the thermal demagnetization test (cylindrical specimen with L/D = 0.7, fully magnetized, heated in open-circuit to the target temperature, held for 2 hours, then cooled to room temperature; irreversible open-circuit flux loss ≤ 5%). For actual applications, determine the suitable temperature rating by considering product specifications, plating and site conditions.										

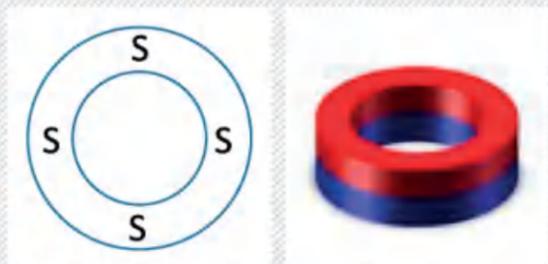
压制成型 NdFeB 磁性能 Magnetic Properties of press molding NdFeB															
牌号 Grade		BNP-3	BNP-4	BNP-5	BNP-6	BNP-7	BNP-8	BNP-8A	BNP-9	BNP-9H	BNP-10	BNP-11	BNP-12D	BNP-12L	BNP-13L
剩余磁感应强度 Br Residual Induction	mT	400-510	460-520	470-550	550-600	570-650	620-670	620-680	650-700	650-700	670-720	680-740	720-770	730-770	780-830
	KGs	4.0-5.1	4.6-5.2	4.7-5.5	5.5-6.0	5.7-6.5	6.2-6.7	6.2-6.8	6.5-7.0	6.5-7.0	6.7-7.2	6.8-7.4	7.2-7.7	7.3-7.7	7.8-8.3
矫顽力 Hcb Coercive Force	KA/m	240-320	240-320	240-360	320-376	320-408	400-456	400-480	416-456	432-488	424-480	400-480	440-520	368-448	400-480
	KOe	3.0-4.0	3.0-4.0	3.0-4.5	4.0-4.7	4.0-5.1	5.0-5.7	5.0-6.0	5.2-5.7	5.4-6.1	5.3-6.0	5.0-6.0	5.5-6.5	4.6-5.6	5.0-6.0
内禀矫顽力 Hcj Intrinsic Coercive Force	kA/m	504-720	504-720	520-720	560-720	560-720	640-800	1040-1280	680-800	920-1040	640-800	640-800	720-880	520-640	480-640
	KOe	6.3-9.0	6.3-9.0	6.5-9.0	7.0-9.0	7.0-9.0	8.0-10.0	13.0-16.0	8.5-10.0	11.5-13.0	8.0-10.0	8.0-10.0	9.0-11.0	6.5-8.0	6.0-8.0
最大磁能积 (BH)max Max. Energy Product	KJ/m ³	24-34	32-38	40-50	45-54	52-64	64-76	65-73	68-76	72-82	76-84	80-88	88-96	80-88	88-104
	MGOe	3.0-4.2	4.0-4.8	5.0-6.2	5.8-6.8	6.5-8.0	8.0-9.5	8.2-9.2	8.5-9.5	9.0-10.2	9.5-10.5	10.0-11.0	11.0-12.0	10.0-11.0	11.0-13.0

磁性能 Magnetic properties

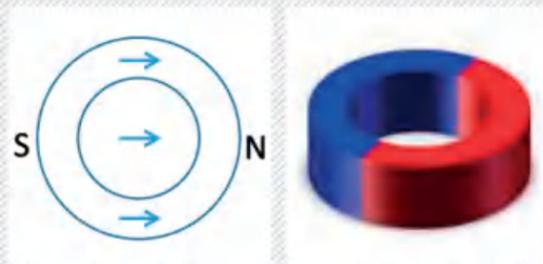
注射成型 NdFeB 磁性能 Magnetic Properties of injection molding NdFeB								
牌号 Grade		BNI-3	BNI-4	BNI-5	BNI-6	BNI-7	BNI-5SR	BNI-6SR
基体 Resin Binder		尼龙十二 PA12					聚苯硫醚 PPS	
剩余磁感应强度 Br Residual Induction	mT	350-450	400-500	450-550	500-600	550-650	450-550	500-600
	KGs	3.5-4.5	4.0-5.0	4.5-5.5	5.0-6.0	5.5-6.5	4.5-5.5	5.0-6.0
矫顽力 Hcb Coercive Force	kA/m	200-280	240-320	304-360	328-384	344-400	320-400	320-400
	KOe	2.5-3.5	3.0-4.0	3.8-4.5	4.1-4.8	4.3-5.0	4.0-5.0	4.0-5.0
内禀矫顽力 Hcj Intrinsic Coercive Force	kA/m	400-640	560-720	640-800	640-800	640-800	880-1120	880-1120
	KOe	5.0-8.0	7.0-9.0	8.0-10.0	8.0-10.0	8.0-10.0	11.0-14.0	11.0-14.0
最大磁能积 (BH)max Max. Energy Product	kA/m ³	20-28	28-36	36-44	44-52	52-60	36-44	44-52
	MGOe	2.5-3.5	3.5-4.5	4.5-5.5	5.5-6.5	6.5-7.5	4.5-5.5	5.5-6.5

注射成型各向异性铁氧体 & 钕铁硼磁性能 Magnetic Properties of injection molding anisotropic Ferrite & NdFeB								
牌号 Grade		AFI-1.5	AFI-1.8	AFI-1.9	AFI-2.0	ANI-12	ANI-15	
基体 Resin Binder		PA6 + Ferrite				Pa12 + NdFeB		
磁性能 Magnetic Properties	剩余磁感应强度 Br Residual Induction	mT	225-265	260-300	265-305	275-315	700-800	770-850
		KGs	2.25-2.65	2.60-3.00	2.65-3.05	2.75-3.15	7.0-8.0	7.7-8.5
	矫顽力 Hcb Coercive Force	KA/m	160-200	175-215	180-220	185-225	445-500	480-560
		KOe	2.00-2.50	2.19-2.69	2.25-2.75	2.31-2.81	5.6-6.3	6.0-7.0
	内禀矫顽力 Hcj Intrinsic Coercive Force	kA/m	230-270	215-250	220-255	225-260	915-995	1040-1200
		KOe	2.87-3.37	2.69-3.15	2.75-3.20	2.81-3.25	11.5-12.5	13-15
	最大磁能积 (BH)max Max. Energy Product	KJ/m ³	11.2-12.8	14.4-16.0	15.2-16.8	16-17.6	92-100	104-116
		MGOe	1.40-1.60	1.8-2.0	1.9-2.1	2.0-2.2	11.5-12.5	13-14.5

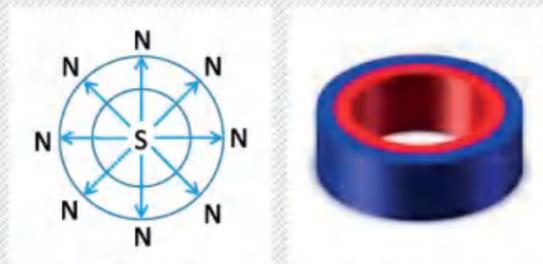
充磁方向 Magnetizing directions



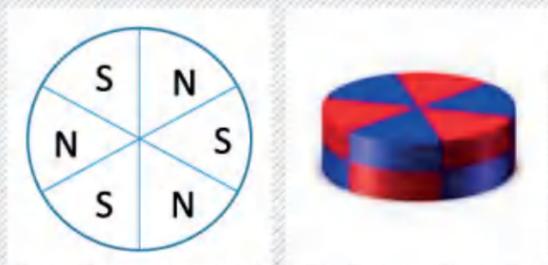
轴向充磁
Axial-magnetized



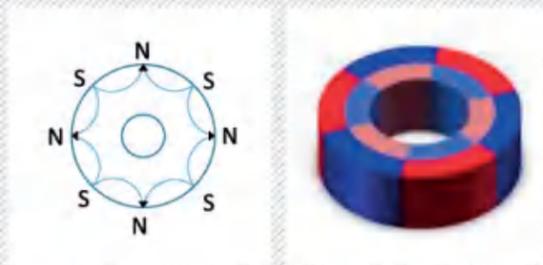
径向充磁
Diametrical-magnetized



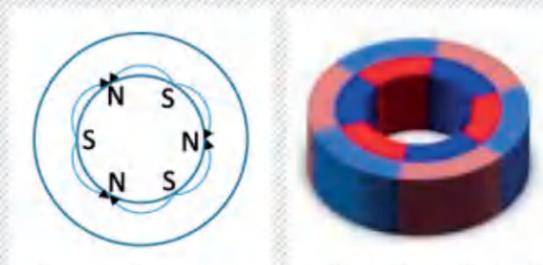
辐向充磁
Radially-magnetized



多极轴向充磁
Multi-polar axial magnetized



多极外充
Multi-polar magnetized through O.D.



多极内充
Multi-polar magnetized through I.D.

期待与您，开启一段不凡的合作之旅

