企业文化

ENTERPRISE CULTURE
• Honesty, Positive, Cautious, Responsibility, Love.
• 诚、正、慎、责、爱

企业愿景

ENTERPRISE VISION
• Leader of highly sophisticated in applications of rare earth material.
• Top Choice partner for cost effective magnetic material.
• 高尖端稀土磁材应用领域领导者
• 高性价比磁材首选合作伙伴
2004年
工厂成立
In year 2004 Ningbo Xinfeng Magnet Industry Co., Ltd was established.

2007年
产能规模达到800吨/年
In year 2007 the production capacity reached 800 tons/year.

2008年
确定电子及电机领域战略地位；
高性能磁体产能规模达到1200吨/年；
通过ISO9001管理体系认证
In year 2008 determined the strategic position of electronic and motor fields;
High performance magnet production reached 1200 tons/year;
ISO9001 certification approved.

2009年
建立机加工事业部；
政府批准成立公司工程中心；
与西北工业大学建立高性能磁体研发合作关系及建立联合实验室；
独立成立对外贸易子公司
In year 2009 the establishment of Machining Department;
The establishment of district-level engineer center was approved by the government;
The establishment of high performance magnet R & D cooperation relationship with Northwestern Polytechnical University and the establishment of the Joint Laboratory;
The establishment of an independent foreign trade subsidiary.

2011年
启动烧结钕铁硼辐射环项目；
启动磁路设计及组件事业部；
通过TUV莱茵TS16949
In year 2011 start-up sintered radiation project;
Develop the circuit and component design division;
TS 16949 of TUV certification approved.

2014年
批量生产烧结钕铁硼辐射环项目；
西北工业大学电机学院电机方案设计合作；
通过市级企业工程（技术）中心
In year 2014 mass production for sintered NdFeB radiation ring;
Cooperated with Northwestern Poly technical University about the motor design project;
Municipal enterprise engineer center approved.
宁波鑫丰磁业有限公司成立于2004年，是一家从事稀土烧结钕铁硼NdFeB永磁材料的研发、生产、销售、服务及应用开发为一体的高新技术型企业。专业生产各种牌号性能的稀土烧结钕铁硼材料，年生产量约1200吨。钕铁硼材料具有环保、节能、高效等特点广泛应用于新能源汽车、高速节能电机、工业控制电机、永磁直流电机、无线通讯产品、航空、DVD/数码电子、医疗仪器等领域。

公司执行ISO/TS16949:2009质量体系，以“品质、共赢”为经营理念，产品远销欧、美、亚州等世界各国，赢得良好的国际信誉。

Ningbo Xinfeng Magnet Industry Co., Ltd was a high-tech company established in year 2004, which specializes in researching, manufacturing and application of sintered NdFeB permanent magnet, with annual output reaches to 1200tons. Material has the characteristics of eco-friendly, energy saving, high efficiency which is widely used in new energy vehicles, high-speed energy-saving elevator, industrial control motor, permanent magnet DC motor, wireless communication products, aviation, DVD/digital electronics, medical equipment and many other fields.

ISO/TS16949:2009 is our quality system, with the business philosophy "quality, win-win situation", our product are exported to Europe, America, Asia and so on, which gained a good reputation among the world.
**High cost-effective**
- Technology for reducing removing dysprosium percent to meet customer’s demand.

**Production and design integration**
- More professional knowledge on application fields, magnetic circuit diagnosis and design ability, development of various optimization scheme.

**High performance**
- The processing of high performance, high consistency, low weight loss, high precision machining.
品质控制 QUALITY CONTROL

IS/ISO16949:2009体系
IS/ISO16949:2009 system

激光粒度分布仪
Laser particle size distribution instrument

岛津ICPS稀氬含氧量光谱仪
SHIMADZU ICPS content of rare earth spectroscopy

高低温磁测仪
High and low temperature magnetic tester
日立-扫描电子显微镜
Hitachi - scanning electron microscope

激光无损镀层测厚仪
Laser nondestructive coating thickness gauge

影像测量仪
Image measuring instrument

PCT高压试验箱
PCT high voltage test box

HAST高压低失重测试仪
HAST high pressure and low weight loss tester

氧氮分析仪
Oxygen nitrogen analyzer
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、瓦性及各种异型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。
Sintered NdFeB magnet has many properties, such as lower weight loss, high consistency, coercivity and energy, the favorable mechanical prosperities allowed it to be made in different shapes. Our factory has developed grades of N/H/SH/UH/EH series with various shapes gradually. Such as arc, block, disc, ring and irregular shape, totally more than 500 different items, which are widely used in motor, computer, wind power, speakers and medical equipments and so on.
辐射环使用优势
Advantages of using radiation ring motor:

1. 装配方便，装配工艺简单，减少工艺变差引起的品质波动。
2. 辐射环相比自贴式装配具有更好的同心度，电机的动平衡性能更好。
3. 静音效果好。
4. 不需要转子护套，工作气隙均匀，可以设计更小的工作气隙增加功率密度。
5. 高速性能好，减少内部结构磁涡流，降低发热量。

1. Easily to assemble, simply assembly process, reducing quality fluctuations caused by process variation
2. Better concentricity and better dynamic balance of the motor while comparing to arc magnet assembly.
3. Good mute
4. Without rotor sleeve, well-distributed working air gap, smaller working air gap to increase the power density
5. High-speed performance, reduced internal structure of magnet eddy-current, reduced calorific value
电机类应用 MOTOR APPLICATIONS

NdFeB permanent magnet motor is the largest application area of NdFeB material, accounting for more than half. 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%. NdFeB are widely used in Permanent magnet synchronous motor, linear motors, servo motors and other areas. Thus, we aimed to becoming the most professional solution expert of motor magnets in China.

高一致性、高精度、低温度系数、低失重。
High consistency, high precision, bottom temperature coefficient, low weight loss.
随着钕铁硼的能积不断提高，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，手机震动磁铁，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。

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 precision, small size and irregular shape in electronic products, the company has designed its own processing technology which cannot be finished by the traditional technology.

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

<<< 应用于 Apply in
一般而言，要求体积小功率大的喇叭必须使用钕铁硼。在高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。

Generally speaking, NdFeB is required to be used in the small size of high-power speakers. Among loudspeakers units and car audio field, the demands of NdFeB is very large. It will be a trend that the NdFeB material replace part of the ferrite magnet used in speakers with the improvement of stability and high temperature coefficient of NdFeB.
磁性组件 MAGNETIC ASSEMBLY

公司通过与西北工业大学材料研究所等知名院校的合作，结合自身的机械加工能力，可为客户提供整套磁路设计、组件配套加工服务。
XFMAG provide solutions & designs for customers on magnetic circuit design and magnetic assembly, in favor of cooperating with the Material Institute of Northwest Polytechnic University.
| Grade | Kgs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | L/D >0.7 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| N35  | 12.3| 11.8| 1.23| 1.18| 10.9| 868 | 12.0| 955 | 36  | 33  | 287 | 263 | 80  |
| N38  | 12.6| 12.3| 1.26| 1.23| 11.3| 899 | 12.6| 955 | 39  | 36  | 311 | 287 | 80  |
| N40  | 12.9| 12.6| 1.29| 1.26| 11.4| 907 | 12.6| 955 | 41  | 38  | 327 | 302 | 80  |
| N42  | 13.3| 12.9| 1.33| 1.29| 11.5| 915 | 12.6| 955 | 43  | 40  | 342 | 318 | 80  |
| N45  | 13.7| 13.3| 1.37| 1.33| 11.0| 876 | 11.5| 876 | 46  | 43  | 366 | 342 | 80  |
| N48  | 14.1| 13.7| 1.41| 1.37| 10.5| 836 | 11.1| 876 | 49  | 45  | 390 | 358 | 80  |
| N50  | 14.5| 14.0| 1.45| 1.4  | 10.5| 836 | 11.1| 876 | 51  | 47  | 406 | 374 | 60  |
| N52  | 14.8| 14.3| 1.48| 1.43| 10.5| 836 | 11.1| 876 | 53  | 49  | 422 | 390 | 60  |
| 35M  | 12.3| 11.8| 1.23| 1.18| 10.9| 868 | 14.4| 1114| 36  | 34  | 287 | 271 | 100 |
| 38M  | 12.6| 12.3| 1.26| 1.23| 11.3| 899 | 14.4| 1114| 39  | 36  | 311 | 287 | 100 |
| 40M  | 12.9| 12.6| 1.29| 1.26| 11.6| 923 | 14.4| 1114| 41  | 38  | 327 | 302 | 100 |
| 42M  | 13.3| 12.9| 1.33| 1.29| 12.0| 955 | 14.4| 1114| 43  | 40  | 342 | 318 | 100 |
| 45M  | 13.7| 13.3| 1.37| 1.33| 12.5| 995 | 14.4| 1114| 46  | 43  | 366 | 342 | 100 |
| 48M  | 14.1| 13.7| 1.41| 1.37| 12.9| 1027| 14.4| 1114| 49  | 45  | 390 | 358 | 100 |
| 50M  | 14.5| 14.0| 1.45| 1.40| 13.0| 1033| 14.4| 1114| 51  | 47  | 406 | 374 | 100 |
| 35H  | 12.3| 11.8| 1.23| 1.18| 10.9| 868 | 17.1| 1353| 36  | 33  | 287 | 263 | 120 |
| 38H  | 12.6| 12.3| 1.26| 1.23| 11.3| 899 | 17.1| 1353| 39  | 36  | 311 | 287 | 120 |
| 40H  | 12.9| 12.6| 1.29| 1.26| 11.6| 923 | 17.1| 1353| 41  | 38  | 327 | 302 | 120 |
| 42H  | 13.3| 12.9| 1.33| 1.29| 12.0| 955 | 17.1| 1353| 43  | 40  | 342 | 318 | 120 |
| 45H  | 13.7| 13.3| 1.37| 1.33| 12.3| 979 | 17.1| 1353| 46  | 43  | 366 | 342 | 120 |
| 48H  | 14.1| 13.7| 1.41| 1.37| 12.5| 995 | 17.1| 1353| 49  | 46  | 390 | 358 | 120 |
| 50H  | 14.5| 14.0| 1.45| 1.40| 13.0| 1033| 17.1| 1353| 51  | 47  | 406 | 374 | 120 |
| 35H  | 12.3| 11.8| 1.23| 1.18| 10.9| 868 | 20.2| 1592| 36  | 33  | 287 | 263 | 150 |
| 38H  | 12.6| 12.3| 1.26| 1.23| 11.4| 907 | 20.2| 1592| 39  | 36  | 311 | 287 | 150 |
| 40H  | 12.9| 12.6| 1.29| 1.26| 11.6| 939 | 20.2| 1592| 41  | 38  | 326 | 302 | 150 |
| 42H  | 13.3| 12.9| 1.33| 1.29| 12.4| 967 | 20.2| 1592| 43  | 40  | 342 | 318 | 150 |
| 45H  | 13.7| 13.2| 1.37| 1.32| 12.6| 1003| 20.2| 1592| 46  | 42  | 366 | 334 | 150 |
| 33H  | 11.8| 11.4| 1.18| 1.14| 10.7| 852 | 25.2| 1989| 34  | 31  | 271 | 247 | 180 |
| 35H  | 12.3| 11.8| 1.23| 1.18| 10.8| 860 | 25.2| 1989| 36  | 33  | 287 | 263 | 180 |
| 38H  | 12.6| 12.3| 1.26| 1.23| 11.3| 899 | 25.2| 1989| 39  | 36  | 311 | 287 | 180 |
| 40H  | 12.9| 12.5| 1.29| 1.25| 11.3| 899 | 25.2| 1989| 41  | 38  | 326 | 302 | 180 |
| 33EH | 11.8| 11.4| 1.18| 1.14| 10.3| 820 | 30.3| 2388| 34  | 31  | 271 | 247 | 200 |
| 35EH | 12.3| 11.7| 1.23| 1.17| 10.5| 836 | 30.3| 2388| 36  | 33  | 287 | 263 | 200 |
| 38EH | 12.6| 12.2| 1.26| 1.22| 11.3| 899 | 30.3| 2388| 39  | 35  | 311 | 278 | 200 |

注：以上磁性能参数是在20℃~23℃室温条件下测试。Remark:All the data is tested in room temperature 20℃~23℃.
## Available Coating for Sintered NdFeB Magnets

<table>
<thead>
<tr>
<th>Surface Types / 类型</th>
<th>Coating Structure / 镀层</th>
<th>Thickness (μm) / 厚度</th>
<th>Color(s) / 颜色</th>
<th>SST(hours) / 盐雾试验</th>
<th>PCT(hours) / 压力试验</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel 镍</td>
<td>Ni+Ni Ni-Cu+Ni</td>
<td>10-20</td>
<td>Silver 银白色</td>
<td>&gt;24-72</td>
<td>&gt;24-72</td>
</tr>
<tr>
<td>Zinc 锌</td>
<td>Zn Color Zn</td>
<td>8-15</td>
<td>Blue 蓝白色</td>
<td>&gt;16-48</td>
<td>&gt;12</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Multicolor 彩色</td>
<td>&gt;36-72</td>
<td>&gt;12</td>
</tr>
<tr>
<td>Sn 锡</td>
<td>Ni+Cu+Sn</td>
<td>10-20</td>
<td>Silver 银色</td>
<td>&gt;36-72</td>
<td>&gt;48</td>
</tr>
<tr>
<td>Au 金</td>
<td>Ni+Cu+Ni+Au</td>
<td>10-15</td>
<td>Gold 金色</td>
<td>&gt;12</td>
<td>&gt;48</td>
</tr>
<tr>
<td>Ag 银</td>
<td>Ni+Cu+Ni+Ag</td>
<td>10-15</td>
<td>Silver 银色</td>
<td>&gt;12</td>
<td>&gt;48</td>
</tr>
<tr>
<td>Epoxy 环氧</td>
<td>Epoxy Ni+Cu+Epoxy Zn+Epoxy</td>
<td>10-20</td>
<td>Black/Gray 黑色/灰色</td>
<td>&gt;48</td>
<td>&gt;48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15-30</td>
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<td>&gt;72-108</td>
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<td></td>
<td>15-25</td>
<td></td>
<td>&gt;72-108</td>
<td></td>
</tr>
<tr>
<td>Passivation 钝化</td>
<td></td>
<td>1-3</td>
<td>Dark Gray 黑灰色</td>
<td>Temporary Protection</td>
<td>/</td>
</tr>
<tr>
<td>Phosphated 磷化</td>
<td></td>
<td>1-3</td>
<td>Dark Gray 黑灰色</td>
<td>Temporary Protection</td>
<td>/</td>
</tr>
<tr>
<td>Parylene 帕利灵</td>
<td>Parylene</td>
<td>5-25</td>
<td>Transparent 透明色</td>
<td>Superior Corrosion &amp; Salt Spray Resistance</td>
<td>/</td>
</tr>
</tbody>
</table>
应用领域  APPLICATION FIELD

XFMAG are widely used in the field of computer science, electronic devices, instruments and meters, wind power automobile motors, motors, speaker systems, auto motors and so on.
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: Li Huaqiao 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 Talkang Road, Yinzhou Distr. Ningbo, China
Tel: +86-574-88469138  Fax: +86-574-89065087
E-mail: info@xf-magnet.com

www.xf-magnet.com