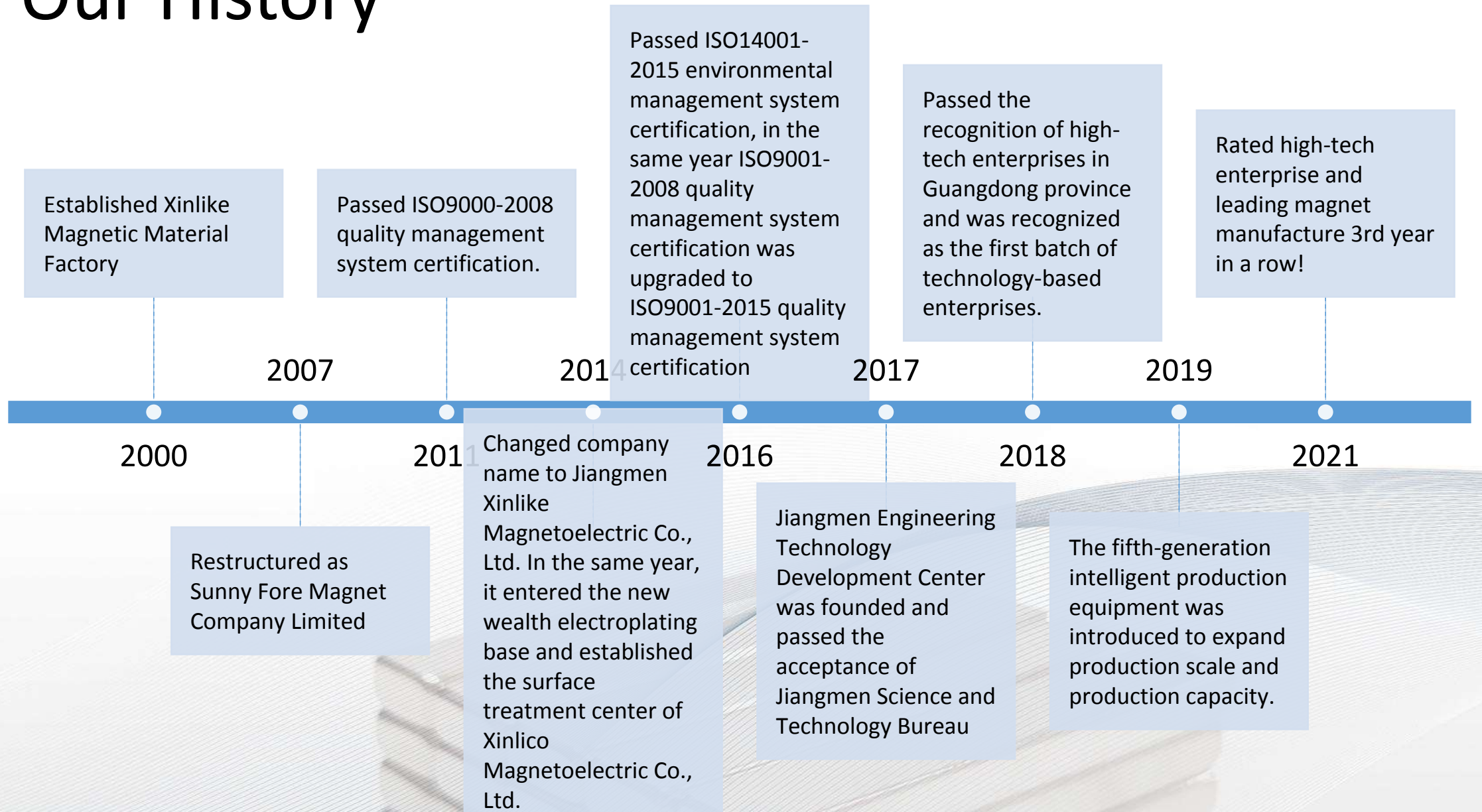


Company Profile

- **Sunny Fore Magnet Company Limited located in Jiangmen City, an emerging manufacturing base in the Greater Bay Area of Guangdong Province, China. Since its establishment nearly 20 years ago, the company has been continuously innovating and reforming, and has always been specializing in the research and development and production of magnetic material products.**
- **At present, our leading products are sintered NdFeB magnets, bonded NdFeB magnets, rubber ferrite permanent magnets and sintered ferrite permanent magnets. Widely used in toys, hardware, electronics, electro-acoustics, electromechanical devices, instruments, instrumentation, medical technology and other devices and equipment that require permanent magnets.**
- **Sunny Fore Magnet Company Limited has advanced production equipment and testing instruments, has a strong R&D and technical team. It has successfully passed the ISO9001:2015 quality system certification and ISO4001:2015 environmental management system certification and has been recognized as a high-tech business and technology companies in Guangdong Province. Sunny Fore Magnet Company Limited adheres to the quality policy of customer first, quality first, fine management, and continuous improvement, and provides customers with competitive products in future.**

Our History



Company Culture

Core Values

Integrity, Promise to Customers, Teamwork, Passion, Quality, Innovation

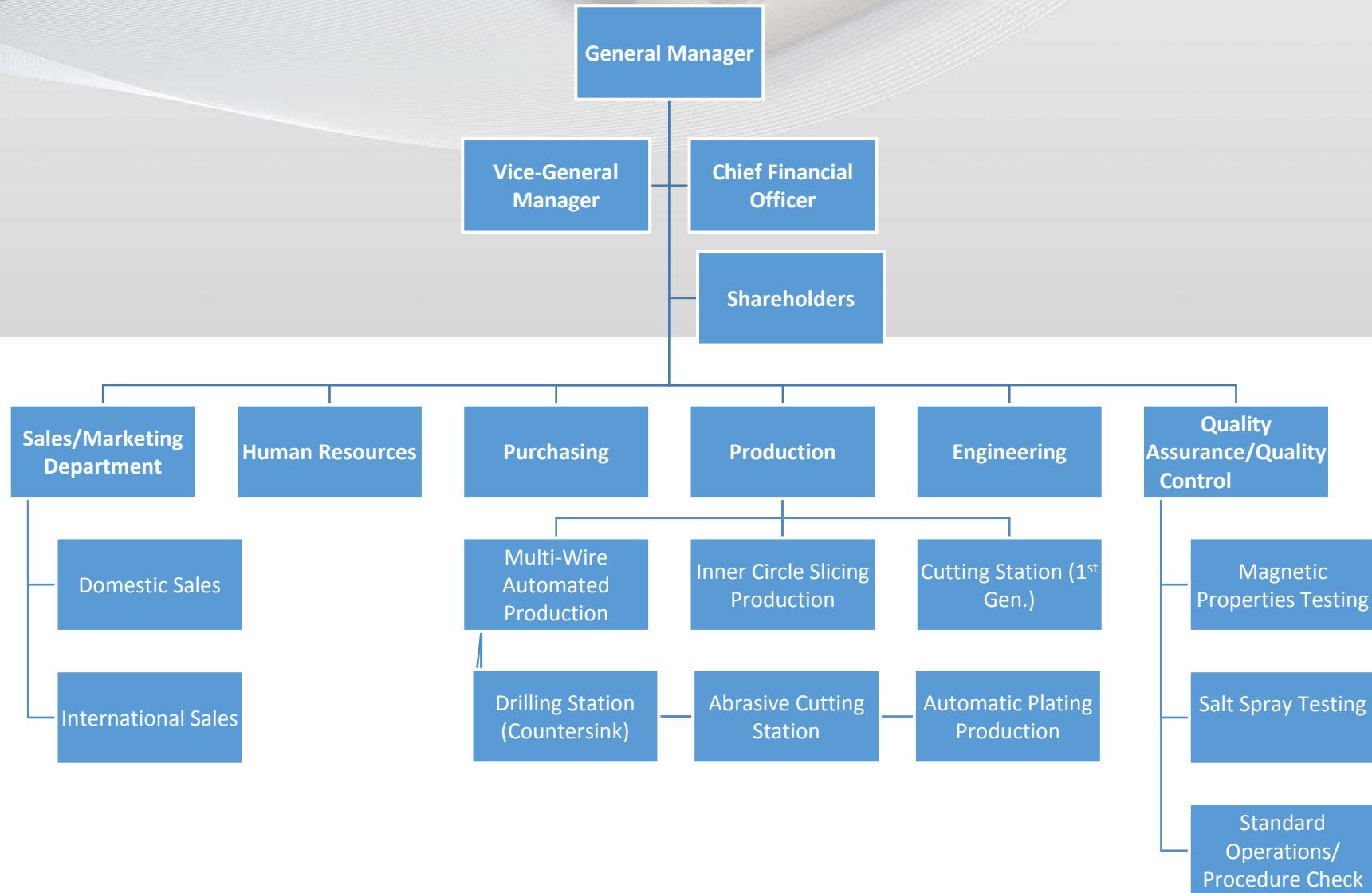
Business Philosophy

Encourage growth & Develop visions and achieve goals

Organizational Alignment

Compatibility between paths, both strategic and cultural as a glue to performance excellence.

Organization Structure



Awards & Certifications



IOS14001 : 2015



ISO9001:2015



Domain Name Certificate



Trademark certificate



Product patent #1



Utility patent



Product patent #2



ROHS Report



Factory Dynamics





Product Introduction

Thailand Distributor :

www.7-mars.com

Energy Power Save CO.,LTD.

Tel : +66(02) 114 7145-9 Auto 5Line

Email : info@7-mars.com

Magnet Products

Round magnets, square magnets, ring magnets, countersunk magnets, convex magnets, arc magnets, special-shaped magnets, rubber magnets, bonded NdFeB, ferrite, etc.



Sintered NdFeB Permanent Magnet



Magnetic properties of bonded NdFeB permanent magnets

材料牌号 Grade	剩磁 Br	矫顽力 Hcb	内禀矫顽力 Hcj	最大磁能积 (BH) _{max}	主要应用 Application	
XLC-N4	600-700mT	160-240kA/m	240-440kA/m	29-36kJ/m ³	文具 Stationery	
	6000-7000Gs	2000-3000 Oe	3000-5500 Oe	3.6-4.5MGOe		
XLC-N6	500-600mT	300-360kA/m	640-800kA/m	40-56kJ/m ³	吸力器 Holder	
	5000-6000Gs	3800-4500 Oe	8000-1000 Oe	5.0-7.0MGOe		
XLC-N8	600-670mT	360-440kA/m	640-880kA/m	60-68kJ/m ³		
	6000-6700Gs	4500-5500 Oe	8000-11000 Oe	7.5-8.5MGOe		
XLC-N8L	600-680mT	300-400kA/m	560-680kA/m	56-68kJ/m ³		
	6000-6800Gs	3770-5030 Oe	7040-8550 Oe	7.0-8.5MGOe		
XLC-N8H	560-650mT	400-464kA/m	960-1360kA/m	60-72kJ/m ³		
	5600-6500Gs	5000-5800 Oe	13000-17000 Oe	7.5-9.0MGOe		
XLC-N10	650-700mT	400-440kA/m	640-880kA/m	68-80kJ/m ³		微电机 Micro-motor
	6500-7000Gs	5000-5500 Oe	8000-11000 Oe	8.5-10.0MGOe		
XLC-N10L	615-685mT	380-450kA/m	650-780kA/m	65-78kJ/m ³		
	6150-6850Gs	4780-5660 Oe	8170-9800 Oe	8.2-9.8MGOe		
XLC-N12	700-800mT	416-480kA/m	640-880kA/m	80-96kJ/m ³		
	7000-8000Gs	5200-6000 Oe	8000-11000 Oe	10.0-12.0MGOe		

Rubber Ferrite Permanent Magnet



Rubber ferrite permanent magnet characteristics table

型号 TYPE	项目 ITEM	剩磁 Br	矫顽力 Hcb	内禀矫顽力 Hcj	最大磁能积 (BH) max	材料 MATERIAL	应用 APPLICATION
XLC-R1 等方性胶磁 Isotropic Rubber		165-180mT	90-110kA m	120-150kA m	4.5-4.6kj/m ³	BaO. 6Fe ₂ O ₃ Sro. 6Fe ₂ O ₃ MIX CPE	玩具TOY 文具 STATIONERY 吸力器HOLDER
		1600-1800Gs	1130-1380 Oe	1500-1880 Oe	0.56-0.76MGOe		
XLC-R2 异方性胶磁 Anisoropic Rubber magnet		230-250mT	160-185kA m	215-235kA m	10.2-12.0j/m ³	Sro. 6Fe ₂ O ₃ MIX NBR or CPE	微电机 MICRO MOTOR 文具 STATIONERY 吸力器HOLDER
		2300-2500Gs	2000-2300 Oe	2700-2950 Oe	1.3-1.5MGOe		

Other physical properties of rubber ferrite permanent magnet

	密度 DENSITY	肖氏硬度 HARDNESS	温度系数 BRTEMPERATURE COEFICIENT	使用温度 OPERATION TEMPERATURE	弹性 SPRING	生产方式 PRODUCTIVE METHOD
单位 UNIT	g/cm ³	shored	%/℃	℃		
XLC-R1	3.6-3.7	30-45	-0.2	=-40-80	良好GOOD	挤出EXTRUSION 压延法ROLLING
XLC-R2	3.6-3.7	30-60	-0.2	=-40-81	良好GOOD	压延法ROLLING

Round Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.



Square countersunk Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.



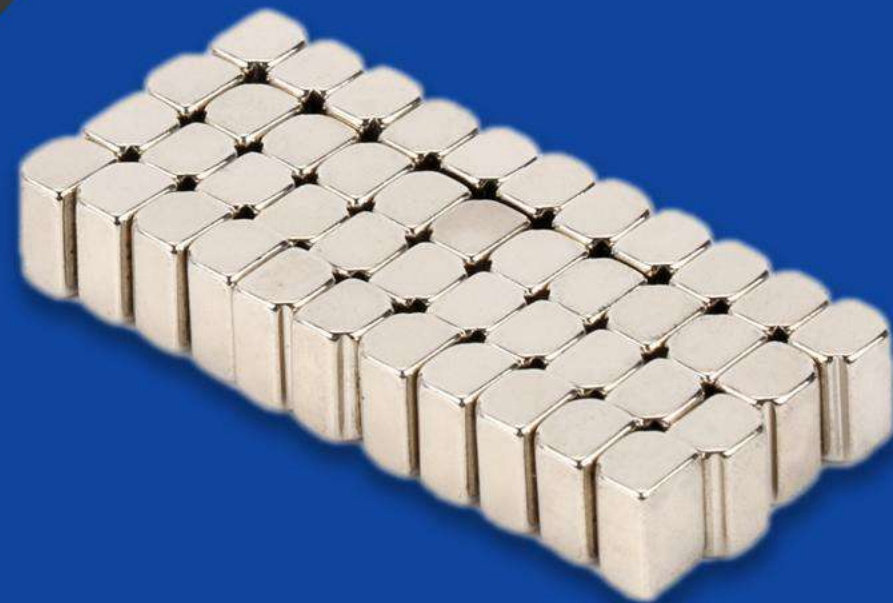
Arc Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.



Shaped Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.



Round Countersunk Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification. Accept customized for size, grade and coating.



Square Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.



Injection Ferrite Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.



Component Magnet

Direct Factory supply, production quantity 100,000 pieces per day, available inventory for every specification Accept customized for size, grade and coating.





Why Choose Us?

- **R&D Customization – Experienced & One stop solution for all Magnets.**
- **Industry Standard Magnetic Materials (High Strength & Durable).**
- **Specialized Electroplating production line to prevent anti-corrosion.**
- **Cost-effective**
- **Seamless Transition regarding order-to-delivery process (ODP) – Factory direct, Standard QC, Quality Assurance, Quick & Efficient shipments, Business Integrity.**

Magnet Application



Clothing/sewing button



Electronics



Motor



Lighting



Luxury packaging



Acoustic



Smart phone



Mini Motors



Electronic Accessories



Holder



Attaching



Home/Kitchen



Gift box packaging



Smart Electronic



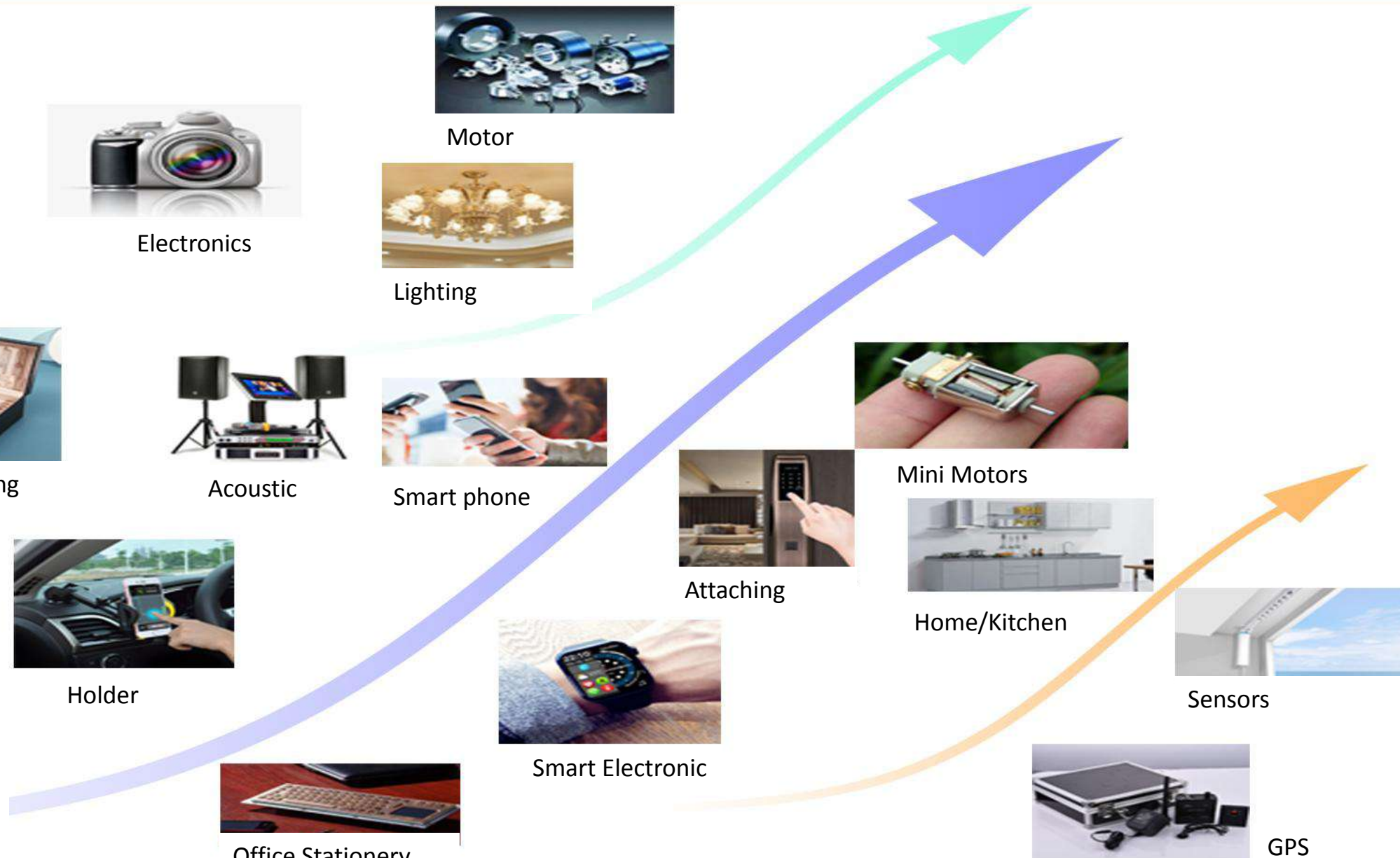
Sensors



Office Stationery



GPS





Car Roof Sensor Control System



Car Steering System



Car Air Conditioning System



Sensor Control System



Car Windows Lifting System



Car Seat Adjusting System Motor



Car Cooling Pump System



Torque Sensor System





Water pump/sensors in home appliances



Fan BLDC motor



Fridge door attachment magnets



Air Conditioning BLDC motor



Sensor BLDC motor



Kitchen Ventilation Motor

Magnetic performance table

Item 类别	Grade 性能	Remanence; Br 剩磁				Coercive Force; bHc 磁感应强度		Intrinsic Coercive Force; iHc 内禀磁感应强度		Max Energy Product; (BH)max 最大磁能积				Working temp. ℃ 工作温度
		kGS		T		Koe	KA/m	Koe	KA/m	MGoe Max	Min	KJ/m³ Max	Min	
		Max	Min	Max	Min									
N	N30	11.2	10.8	1.12	1.08	≥9.8	≥780	≥12	≥955	30	28	239	223	≤80
	N33	11.7	11.4	1.17	1.14	≥10.3	≥820	≥12	≥955	33	31	263	247	≤80
	N35	12.1	11.7	1.21	1.17	≥10.5	≥836	≥12	≥955	35	33	279	263	≤80
	N38	12.6	12.2	1.26	1.22	≥10.5	≥836	≥12	≥955	38	36	303	287	≤80
	N40	12.9	12.6	1.29	1.26	≥10.5	≥836	≥12	≥955	40	38	318	303	≤80
	N42	13.2	12.9	1.32	1.29	≥10.5	≥836	≥12	≥955	43	41	342	326	≤80
	N45	13.7	13.3	1.37	1.33	≥10.5	≥836	≥12	≥955	45	43	358	342	≤80
	N48	14.0	13.7	1.40	1.37	≥10.5	≥836	≥12	≥955	48	45	374	358	≤80
	N50	14.6	14.0	1.46	1.40	≥10.5	≥836	≥12	≥955	51	47	390	358	≤80
	N52	14.6	14.2	1.46	1.42	≥10.5	≥836	≥11	≥876	53	49	422	390	≤80
M	N54	14.9	14.5	1.49	1.45	≥10.5	≥836	≥11	≥876	55	51	438	406	≤80
	N30M	11.2	10.8	1.12	1.08	≥9.8	≥780	≥14	≥1114	30	28	239	223	≤100
	N33M	11.7	11.4	1.17	1.14	≥10.3	≥820	≥14	≥1114	33	31	263	247	≤100
	N35M	12.1	11.7	1.21	1.17	≥10.8	≥860	≥14	≥1114	35	33	279	263	≤100
	N38M	12.6	12.2	1.26	1.22	≥10.8	≥860	≥14	≥1114	38	36	303	287	≤100
	N40M	12.9	12.6	1.29	1.26	≥10.8	≥860	≥14	≥1114	40	38	318	303	≤100
	N42M	13.2	12.9	1.32	1.29	≥10.8	≥860	≥14	≥1114	42	40	342	326	≤100
	N45M	13.7	13.2	1.37	1.32	≥10.8	≥860	≥14	≥1114	45	42	358	342	≤100
	N48M	14.3	13.7	1.43	1.37	≥10.8	≥860	≥14	≥1114	49	45	390	358	≤100
	N50M	14.4	14.0	1.44	1.40	≥13.4	≥1066	≥14	≥1114	51	47	406	374	≤100
H	N52M	14.6	14.2	1.46	1.42	≥13.2	≥1059	≥14	≥1114	53	49	422	390	≤100
	N27H	10.6	10.2	1.06	1.02	≥9.3	≥740	≥17	≥1353	27	25	315	199	≤120
	N30H	11.2	10.8	1.12	1.08	≥9.8	≥780	≥17	≥1353	30	28	239	223	≤120
	N33H	11.7	11.4	1.17	1.14	≥10.3	≥820	≥17	≥1353	33	31	263	247	≤120
	N35H	12.1	11.7	1.21	1.17	≥10.8	≥860	≥17	≥1353	35	33	279	263	≤120
	N38H	12.6	12.2	1.26	1.22	≥11.5	≥915	≥17	≥1353	38	36	303	287	≤120
	N40H	12.9	12.6	1.29	1.26	≥11.5	≥915	≥17	≥1353	40	38	318	303	≤120
	N42H	13.2	12.9	1.32	1.29	≥11.5	≥915	≥17	≥1353	42	40	342	326	≤120
	N45H	13.7	13.3	1.37	1.33	≥12.5	≥999	≥17	≥1353	46	42	366	334	≤120
	N48H	14.1	13.7	1.41	1.37	≥12.9	≥1029	≥17	≥1353	49	45	390	358	≤120
SH	N50H	14.4	14.0	1.44	1.40	≥13.2	≥1051	≥17	≥1353	51	47	406	374	≤120
	N52H	14.6	14.2	1.46	1.42	≥13.4	≥1066	≥17	≥1353	53	49	422	390	≤120
	N33SH	12.0	11.4	1.20	1.14	≥10.8	≥856	≥20	≥1592	35	31	279	247	≤150
	N35SH	12.3	11.7	1.23	1.17	≥11	≥879	≥20	≥1592	37	33	295	263	≤150
	N38SH	12.7	12.3	1.27	1.23	≥11.6	≥924	≥20	≥1592	40	36	318	287	≤150
	N40SH	13.0	12.6	1.30	1.26	≥11.9	≥946	≥20	≥1592	42	38	334	302	≤150
	N42SH	13.3	12.9	1.33	1.29	≥12.2	≥969	≥20	≥1592	44	40	350	318	≤150
	N45SH	13.7	13.3	1.37	1.33	≥12.5	≥999	≥20	≥1592	46	42	366	334	≤150
	N48SH	14.1	13.7	1.41	1.37	≥12.9	≥1029	≥20	≥1592	49	45	390	358	≤150
	N50SH	14.4	14.0	1.44	1.40	≥13.2	≥1051	≥20	≥1592	51	47	406	374	≤150
UH	N52SH	14.6	14.2	1.46	1.42	≥13.4	≥1066	≥20	≥1592	53	49	422	390	≤150
	N30UH	11.5	10.9	1.15	1.09	≥10.3	≥819	≥25	≥1990	32	28	255	223	≤180
	N33UH	12.0	11.4	1.20	1.14	≥10.8	≥856	≥25	≥1990	35	31	279	247	≤180
	N35UH	12.3	11.7	1.23	1.17	≥11	≥879	≥25	≥1990	37	33	295	263	≤180
	N38UH	12.7	12.3	1.27	1.23	≥11.6	≥924	≥25	≥1990	40	36	318	287	≤180
	N40UH	13.0	12.6	1.30	1.26	≥11.9	≥946	≥25	≥1990	42	38	334	302	≤180
	N42UH	13.3	12.9	1.33	1.29	≥12.2	≥969	≥25	≥1990	44	40	350	318	≤180
	N45UH	13.7	13.3	1.37	1.33	≥12.5	≥999	≥25	≥1990	46	42	366	334	≤180
	N30EH	11.5	10.9	1.15	1.09	≥10.3	≥819	≥30	≥2388	32	28	255	223	≤200
	N33EH	12.0	11.4	1.20	1.14	≥10.8	≥856	≥30	≥2388	35	31	279	247	≤200
EH	N35EH	12.3	11.7	1.23	1.17	≥11	≥879	≥30	≥2388	37	33	296	263	≤200
	N38EH	12.7	12.3	1.27	1.23	≥11.6	≥924	≥30	≥2388	40	36	318	287	≤200
	N40EH	13.0	12.6	1.30	1.26	≥11.9	≥946	≥30	≥2388	42	38	334	302	≤200
	N42EH	13.3	12.9	1.33	1.29	≥12.2	≥969	≥30	≥2388	44	40	350	318	≤200
AH	N30AH	11.5	10.9	1.15	1.09	≥10.3	≥819	≥35	≥2786	32	28	255	223	≤230
	N33AH	12.0	11.4	1.20	1.14	≥10.8	≥856	≥35	≥2786	35	31	279	247	≤230
	N35AH	12.3	11.7	1.23	1.17	≥11	≥879	≥35	≥2786	37	33	295	263	≤230
	N38AH	12.6	12.2	1.26	1.22	≥11.6	≥924	≥35	≥2786	40	36	318	287	≤230

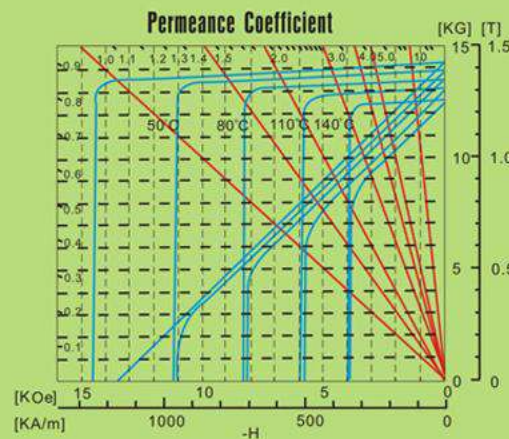
Physical Properties

Temp. Coeff. of Br(Br温度系数)	-0.09~-0.11%/℃
Density (密度)	7.45~7.6g/cm³
Vickers hardness (维氏硬度)	600Hv
Tensile Strength (抗拉强度)	8.0kg/mm²
Specific Heat (比热容)	0.12kCal/(kg.℃)
Young's Modulus (杨氏模量)	1.6X1011N/m²
Poisson's Ratio (松泊比率)	0.24
Curie Temperature (居里温度)	310-340℃
Temp. Coeff. of Hc(Hc温度系数)	0.5~-0.60%/℃
Electrical Resistivity (电阻系数)	140μΩ.cm
Flexural Strength (抗弯强度)	25kg/mm
Coeff. of Thermal Expansion (热膨胀系数)	4x10⁻⁶/℃
Thermal Conductivity (热传导率)	7.7kcal (m.h.℃)
Rigidity (硬度)	0.64N/m²
Compressibility (压缩系数)	9.8x10⁻¹²m²/N
Relative Recoil Permeability urec (I回复磁导率)	1.05

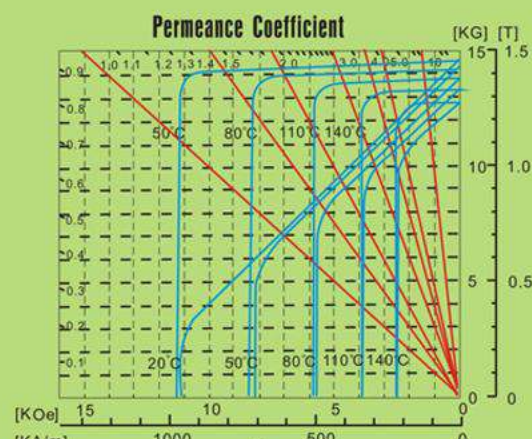
Magnetic Properties Unit Measurement & Conversion

参数及表示 Unit and Symbol	国际单位 SI-units	单位换算 Conversion table
磁感应强度B Flux density B	T (Tesla)	1T=1Vs/m²=10kGs
磁极化强度J Polarization Strength J	T (Tesla)	1T=1Vs/m²=10kGs
磁场强度H Magnetic field strength H	A/m	1KA/m=4πOe≈12.57Oe
磁能积 (BH)m Energy density (Bhm)	KJ/m³	1KJ/m³=0.126MGOe
磁通 Magnetic flux Φ	Wb (Weber)	1Wb=1Vs=10⁸Mx

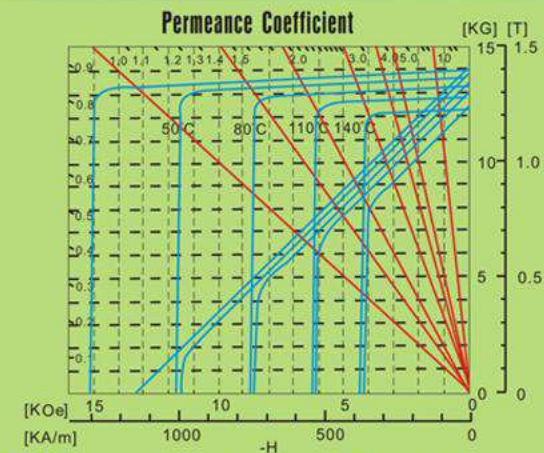
Demagnetization curve



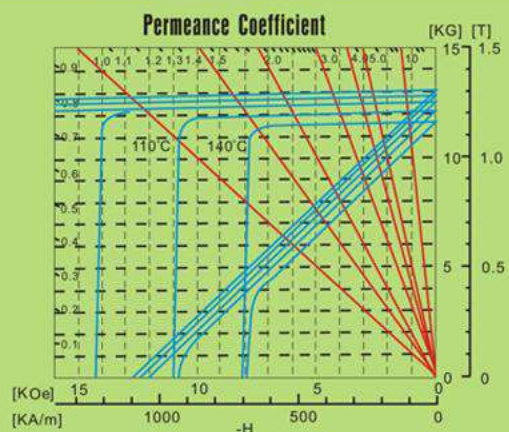
N50Demagnetization Curves at Different Temperature
N50在不同温度下的退磁曲线



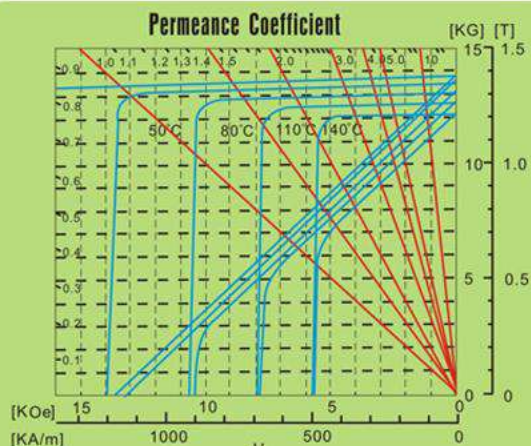
N52Demagnetization Curves at Different Temperature
N52在不同温度下的退磁曲线



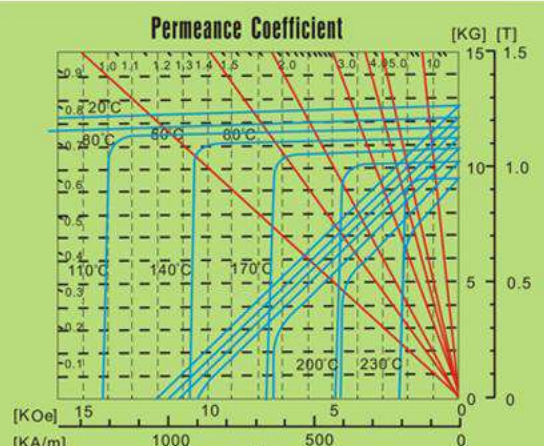
N50MDemagnetization Curves at Different Temperature
N50M在不同温度下的退磁曲线



N42SHDemagnetization Curves at Different Temperature
N42SH在不同温度下的退磁曲线



N48HDemagnetization Curves at Different Temperature
N48H在不同温度下的退磁曲线



N40UHDemagnetization Curves at Different Temperature
N40UH在不同温度下的退磁曲线

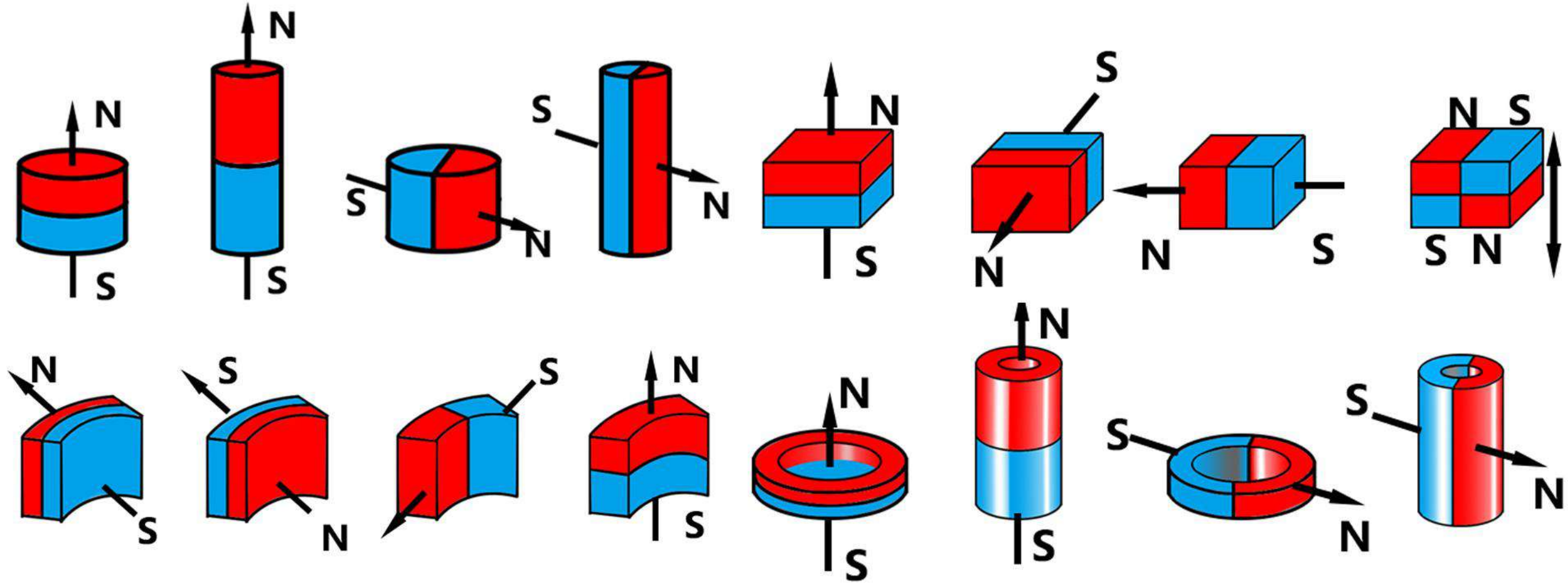
Surface Treatment

The NdFeB body is easily corroded. In order to overcome this defect, the surface is often coated. Commonly used methods include blue-white zinc plating, color zinc plating, nickel plating, double-layer nickel, nickel-copper-nickel plating; epoxy plating; (temporary protection) passivation, etc.
Surface treatment index

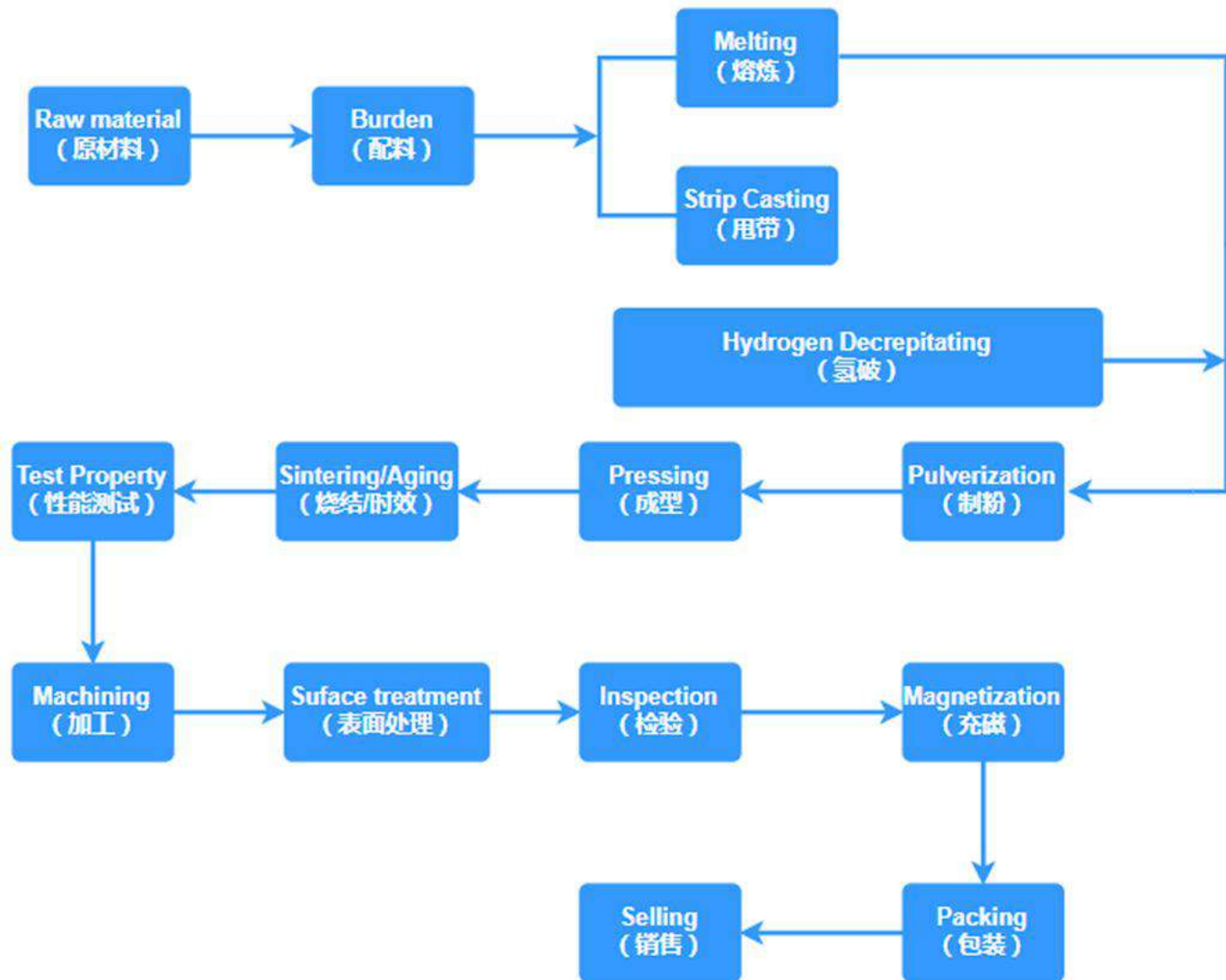
Coating	Zn	Colour	Ni	Double Ni	NiCuNi	Epoxy	Passivation
Performance							
Colour	White	Multicolour	Silver	Silver	Silver	Black	Silver
Thickness (μm)	10-15	10-15	10-20	15-20	15-30	10-30	1-5
Pressure Cooker Test (120 C, 2atm, 100%RH)	>15hr	>24hr	>15hr	>24hr	>48hr	>24hr	>44hr
Salt Spray Test (5%Nacl, 35°C, 1.2atm)	>24hr	>72hr	>4hr	>24hr	>48hr	>300hr	>8hr



Magnetizing direction



Process flow



质量目标:

交付产品验收
合格率: 98.5%

内外部质量
损失率: $\leq 0.9\%$

顾客
满意度 > 95分

新力科磁铁有限公司

质量方针:

顾客至上
品质第一
精细管理
持续改进

新力科磁铁有限公司



Multi-Wire Cutting Machine (High Speed/Arc Cutting) 3rd Gen



Inner Circle Slicing Equipment (2nd Gen.)



Cutting Station (1st Gen.)



Drilling Equipment (Countersink)



Abrasive Cutting Station



Automatic Plating Production Line (Electroplating)



Quality Assurance Department



Product Packaging Department (Special Packaging by request)



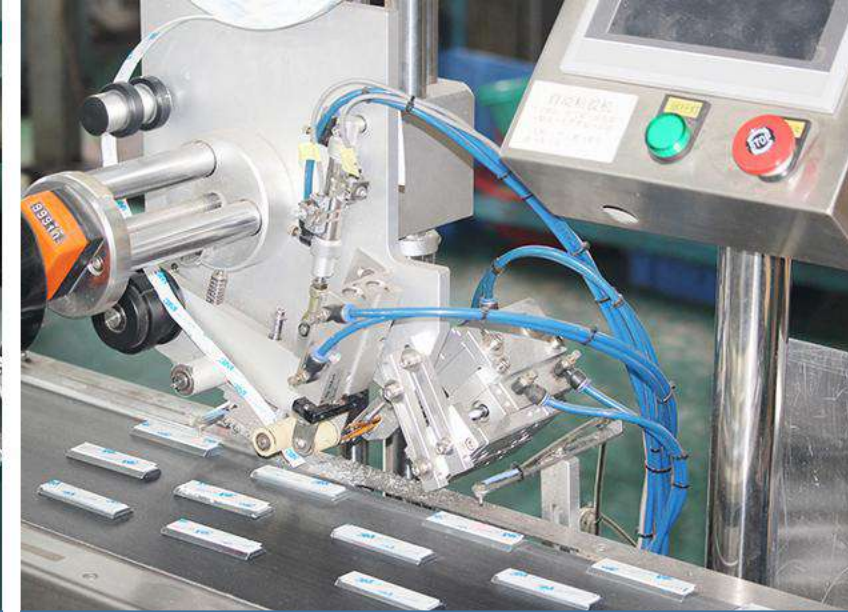
Office (Sales/Logistics)



Automatic Insertion Machine



Automated Separator/Insertion Machine



Automatic Adhesive Pad Application



3D Projector



Magnetic Properties Detector



Light Source Color Light Box



Electronic Pull Force Testing Machine



Sorting Machine (Thickness)



3D Printer



Gauss Meter



Magnetic Detector



Working Surface Temperature Sensor



Automatic Multi-wire Cutting



Multipole Magnetic Properties Detection



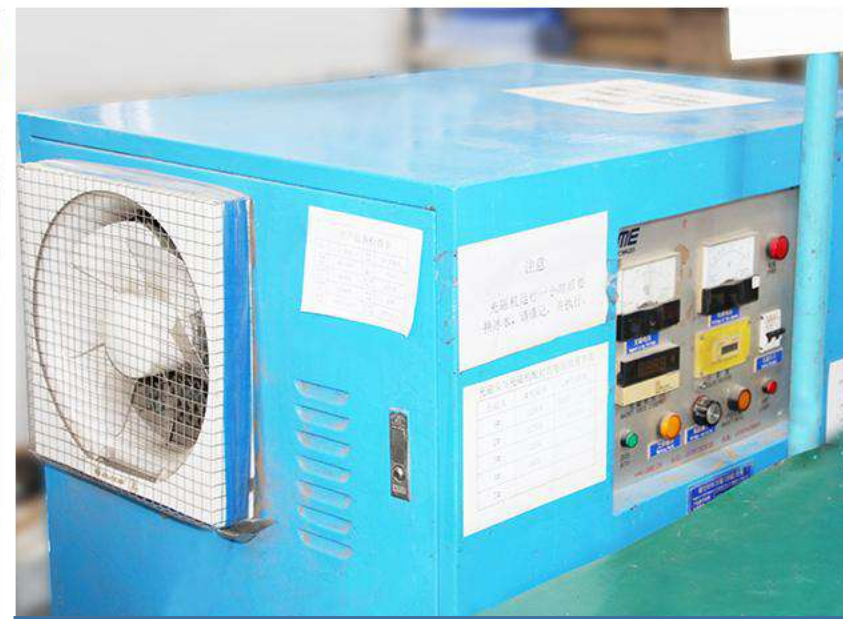
Salt Spray Tester



Monopole Magnetizer #1



Multi-Pole Magnetizer



Monopole Magnetizer #2

Our Customers:

