NEODYMIUM IRON BORON MAGNETS

Highest energy product of any permanent magnet on the market

FEATURES

Sintered neodymium iron boron (NdFeB) magnets are powerful permanent magnets. They are known for their high energy product, meaning they offer a high magnetic field output for their size and weight. NdFeB magnets are widely used in various applications due to their strength and compact size.

- **HIGH ENERGY PRODUCT**
- **STRENGTH**
- **CORROSION RESISTANCE**
- **TEMPERATURE SENSITIVITY**

100% EMPLOYEE OWNED
THOMAS & SKINNER INC.

TRUSTED MANUFACTURER

Thomas & Skinner is a trusted provider of high-performance metal solutions. With over a century of experience, we're a trusted leader in producing high quality permanent magnets that are engineered to provide solutions for a variety of operating temperature and energy product requirements. Our engineers have a deep understanding of the science behind our high performance metals allowing us to provide world-class customer service and expertise to provide solutions to optimize design performance based on your unique needs.

317.923.2501 thomas-skinner.com info@thomas-skinner.com

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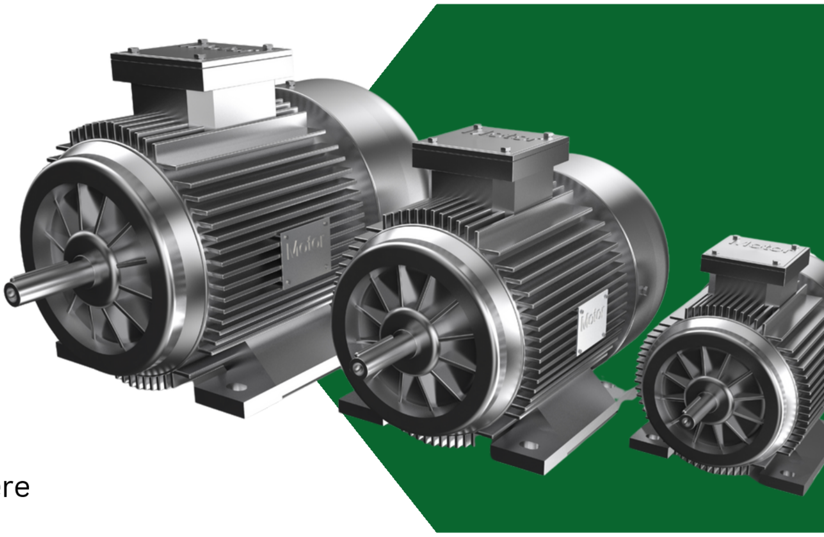
APPLICATIONS

- **Electric Motors:** Commonly used in high-performance motors, brushless DC motors, and electric vehicle motors.
- **Speakers:** Strength allows for smaller and more powerful speakers.
- **Sensors:** Used in various sensors and magnetic separation applications.
- **Magnetic Resonance Imaging (MRI):** Generate the magnetic fields in some MRI machines.
- **Other applications:** Used in computer disk drives, medical equipment, and various other devices where strong magnetic fields are needed.



NEODYMIUM IRON BORON (NdFeB)
Summary of main grades of NdFeB

	Maximum Operating Temperature	Temperature Coefficient of Br	Residual Induction Br		Coercivity Hc		Intrinsic Coercivity iHc		Maximum Energy Product (BH)max	
	°C	%/°C	kG	T	kOe	kA/m	kOe	kA/m	MGOe	kJ/m3
Grade	typ	typ	typ	typ	typ	typ	min	min	typ	typ
T&S 30										
H	120	-0.12	10.8	1.08	10.0	796	11	876	30	238.8
SH	150	-0.12	10.8	1.08	10.1	805	25	1990	30	238.8
UH	180	-0.12	10.8	1.08	10.6	844	25	1990	30	238.8
EH	200	-0.12	10.8	1.08	10.6	844	30	2388	30	238.8
T&S 40										
N	80	-0.12	12.5	1.25	11.5	915	12	955	40	318.4
M	100	-0.12	12.5	1.25	12.1	963	14	1114	40	318.4
H	120	-0.12	12.5	1.25	12.5	995	17	1353	40	318.4
SH	150	-0.12	12.5	1.25	12.5	995	20	1592	40	318.4
UH	180	-0.12	12.5	1.25	12.4	987	25	1990	40	318.4
T&S 42										
N	80	-0.12	12.8	1.28	11.5	915	12	955	42	334.3
M	100	-0.12	12.8	1.28	12.4	987	14	1114	42	334.3
H	120	-0.12	12.8	1.28	12.6	1003	17	1353	42	334.3
SH	150	-0.12	12.8	1.28	12.6	1003	20	4592	42	334.3
T&S 45										
N	80	-0.12	13.2	1.32	11.5	915	12	955	45	358.2
M	100	-0.12	13.2	1.32	13.0	1035	14	1114	45	358.2
H	120	-0.12	13.2	1.32	13.0	1035	16	1274	45	358.2
SH	150	-0.12	13.2	1.32	13.0	1035	20	1592	45	358.2
T&S 48										
N	80	-0.12	13.6	1.36	11.5	915	12	955	48	382.1
M	100	-0.12	13.6	1.36	13.0	1035	14	1114	48	382.1
H	120	-0.12	13.6	1.36	13.5	1075	16	1274	48	382.1
T&S 50										
N	60	-0.12	13.9	1.39	11.0	876	11	876	50	398.0
M	90	-0.12	13.9	1.39	13.0	1035	14	1114	50	398.0
T&S 52										
N	60	-0.12	14.3	1.43	10.5	836	11	876	52	413.9

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Thomas and Skinner, Inc.
High Performance Metals

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