

Global and China NdFeB Industry Report, 2014-2018

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### The Vertical Portal for China Business Intelligence

#### STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

#### REPORT OBJECTIVES

- To establish a comprehensive, factual, annually updated and costeffective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

#### **METHODOLOGY**

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications.

Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

#### **INFORMATION SOURCES**

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

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# **Abstract**

As the third-generation rare earth permanent magnet material, NdFeB is featured with small size, light weight, strong magnetic force and other characteristics as well as widely used in consumer electronics, transportation, wind power, automobile, medical equipment and other fields.

The growth of China's downstream demand for new energy vehicles and wind power equipment, the tightened supply of rare earth material and other factors have boosted the global NdFeB capacity to by degrees shift to China in recent years. In 2013, China's NdFeB output was 94 kt, accounting for 91.0% of the global output; wherein, China's high-performance NdFeB output hit 22 kt, sharing 54.3% of the global total.

As for companies, Hitachi Metals, Shin-Etsu Chemical and TDK have monopolized 48% share of the world's high-performance NdFeB market.

Hitachi Metals holds 615 patents as the world's largest manufacturer of high-performance NdFeB. As of the end of 2013, it had authorized eight Chinese NdFeB companies with 149 patents, of which four ones had been expired. Currently, all NdFeB production bases of Hitachi Metals are located in Japan, while its subsidiaries/branches

The high-performance NdFeB of **Shin-Etsu Chemical** are mainly used in hybrid cars, EPS, VCM, consumer electronics and other fields. In early 2013, the company put its Hybrid Car-Use NdFeB Production Base Project (Phase I) in Fujian into production with the annual output of 3 kt of rare earth magnetic alloy sheets which are completely exported to Japan.

In addition to Japanese companies, Zhong Ke San Huan, Zhenghai Magnetic Material, Ningbo Yunsheng, Baotou Steel Rare-earth and other Chinese key enterprises also highlight high-performance NdFeB and have launched a number of projects to enhance the high-performance NdFeB capacity.

**Zhong Ke San Huan**: The company acts as China's largest NdFeB manufacturer. At the end of August 2014, the company's subsidiary Tianjin Sanhuan Lucky New Material Inc. planned to invest RMB200 million in building a 2 kt/a high-performance NdFeB automated production line, and expand its capacity to 5kt/a in accordance with market demand.

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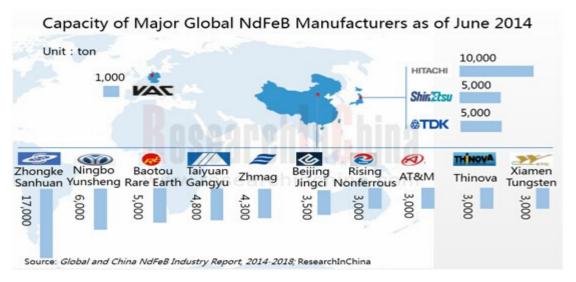


**Zhenghai Magnetic Material**: Early in 2012, it lavished RMB190 million in expanding high-performance NdFeB permanent magnet capacity. The project is expected to be completed in December 2014, with the additional high-performance NdFeB capacity of 2 kt/a.

**Baotou Steel Rare-earth**: It accomplished the commissioning of 15 kt/a NdFeB Strip Casting Alloy and 5 kt/a NdFeB Magnet Project (Phase II) in May 2014, and the products will be mainly used for wind power generation, high-end permanent magnetic resonance imaging devices, automotive motors and other high-end areas.

The report focuses on the following:

- The global NdFeB market size, market structure, competitive landscape, etc.;
- Chinese NdFeB market size, market structure, competition, import and export, etc.;
- Downstream NdFeB demand, competition pattern, etc.;
- Operation of 5 global and 15 Chinese NdFeB manufacturers.



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