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Global Magnetic Modules for Wind Power Generation Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Magnetic Modules for Wind Power Generation market size was valued at US$ 2585 million in 2024 and is forecast to a readjusted size of USD 3717 million by 2031 with a CAGR of 6.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Magnetic modules for wind power generation are key magnetic components used in wind turbine power generation systems. They mainly include permanent magnets (such as neodymium iron boron NdFeB, samarium cobalt SmCo), electromagnets and supporting magnetic conductive structures, and are used in core parts such as generator rotors, pitch control systems, and yaw drives. Their function is to efficiently convert wind energy into electrical energy and improve power generation efficiency (permanent magnet direct drive motors can achieve an efficiency of more than 95%). Such modules need to have high magnetic energy product, corrosion resistance, and wide temperature stability of -40°C to 150°C to adapt to harsh environments.

This report is a detailed and comprehensive analysis for global Magnetic Modules for Wind Power Generation market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with

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market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Magnetic Modules for Wind Power Generation market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Magnetic Modules for Wind Power Generation market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Magnetic Modules for Wind Power Generation market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Magnetic Modules for Wind Power Generation market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Magnetic Modules for Wind Power Generation
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Magnetic Modules for Wind Power Generation market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Stanford Magnets, Bakker Magnetic, IMA Magnetic, Hitachi Metals, VACUUMSCHMELZE, Tongchuang Magnet, ZhongKeSanHuan, JL MAG Rare-Earth, Nordex, TDK, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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Magnetic Modules for Wind Power Generation market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

NdFeB Magnetic Module

Ferrite Magnetic Module

Market segment by Application

Direct Drive Permanent Magnet Wind Turbine

Semi-direct Drive Permanent Magnet Wind Turbine

Major players covered

Stanford Magnets

Bakker Magnetic

IMA Magnetic

Hitachi Metals

VACUUMSCHMELZE

Tongchuang Magnet

ZhongKeSanHuan

JL MAG Rare-Earth

Nordex

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TDK

Xray - GreyB

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:
Chapter 1, to describe Magnetic Modules for Wind Power Generation product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Magnetic Modules for Wind Power Generation, with price, sales quantity, revenue, and global market share of Magnetic Modules for Wind Power Generation from 2020 to 2025.
Chapter 3, the Magnetic Modules for Wind Power Generation competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Magnetic Modules for Wind Power Generation breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.
Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Magnetic Modules for Wind Power Generation market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.
Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.
Chapter 13, the key raw materials and key suppliers, and industry chain of Magnetic Modules for Wind Power Generation.
Chapter 14 and 15, to describe Magnetic Modules for Wind Power Generation sales channel, distributors, customers, research findings and conclusion.

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4 CONSUMPTION ANALYSIS BY REGION

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