

Global Wind Turbines Electromagnetic Safety Brake Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Wind Turbines Electromagnetic Safety Brake market size was valued at US\$ 224 million in 2025 and is forecast to a readjusted size of US\$ 343 million by 2032 with a CAGR of 6.0% during review period.

In 2025, global Wind Turbines Electromagnetic Safety Brake production is approximately 162,161 units, with an average global market price of around US\$1,342 per unit. Gross margin is about 34%, and the cost is around US\$886 per unit. Global production capacity is estimated to be around 200,600 units. A Wind Turbine Electromagnetic Safety Brake is an electromagnetic braking device used for safety protection and position holding in wind turbines. It typically uses electromagnetic force, spring force, and friction components to achieve fast release, braking, holding, and fail-safe locking. The product is mainly used in pitch systems, yaw systems, drive motors, and auxiliary transmission units. During power failure, system fault, emergency shutdown, or maintenance, it can automatically lock the motor or moving components to prevent blade pitch loss, abnormal nacelle rotation, or reverse movement of equipment. Compared with general electromagnetic brakes, wind turbine electromagnetic safety brakes place greater emphasis on high reliability, power-off braking, high protection rating, vibration resistance, temperature resistance, and long-term maintenance-free operation.

As wind turbines move toward larger capacity, offshore deployment, intelligent operation, and lower maintenance requirements, wind turbine electromagnetic safety brakes are developing toward higher braking torque, longer service life, lower noise, stronger corrosion resistance, and higher safety redundancy. Future demand will mainly

come from new wind power installations, replacement of aging turbine components, upgrades of pitch and yaw systems, and rising demand for high-protection braking components in offshore wind projects. In terms of technology, manufacturers are focusing more on fail-safe design, spring-applied electromagnetic release structures, longer-life friction materials, condition monitoring, lightweight design, and modular installation, turning electromagnetic safety brakes into an important part of intelligent safety control systems for wind turbines.

Report Scope

This report is a detailed and comprehensive analysis for global Wind Turbines Electromagnetic Safety Brake 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 market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Wind Turbines Electromagnetic Safety Brake market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wind Turbines Electromagnetic Safety Brake market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wind Turbines Electromagnetic Safety Brake market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wind Turbines Electromagnetic Safety Brake market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Wind Turbines Electromagnetic Safety Brake

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 Wind Turbines Electromagnetic Safety Brake 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 Svendborg Brakes, mayr power transmission, PRECIMA Magnettechnik, KEB Automation, Miki Pulley, Ogura Industrial, Warner Electric, Stromag, INTORQ, Vulkan, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Wind Turbines Electromagnetic Safety Brake market is split by Type and by Application. For the period 2021-2032, 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

Electromagnetic Disc Brake

Electromagnetic Drum Brake

Electromagnetic Caliper Brake

Others

Market segment by Technology

Power-Off Electromagnetic Brake

Power-On Electromagnetic Brake

Permanent Magnet Electromagnetic Brake

Market segment by Application

Offshore Wind Energy

Onshore Wind Energy

Major players covered

Svendborg Brakes

mayr power transmission

PRECIMA Magnettechnik

KEB Automation

Miki Pulley

Ogura Industrial

Warner Electric

Stromag

INTORQ

Vulkan

Chengdu CDC Technology Co., Ltd.

Antec Group

Klam Retarder

Reach Machinery Co., Ltd.

Jiangxi Huawu Brake Co., Ltd.

Qingdao Huarui Auto Parts Co., Ltd.

Jiaozuo Brake Group Co., Ltd.

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)

Chapter Outline

Chapter 1, to describe Wind Turbines Electromagnetic Safety Brake product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wind Turbines Electromagnetic Safety Brake, with price, sales quantity, revenue, and global market share of Wind Turbines Electromagnetic Safety Brake from 2021 to 2026.

Chapter 3, the Wind Turbines Electromagnetic Safety Brake competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wind Turbines Electromagnetic Safety Brake breakdown data are shown

at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Wind Turbines Electromagnetic Safety Brake market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Wind Turbines Electromagnetic Safety Brake.

Chapter 14 and 15, to describe Wind Turbines Electromagnetic Safety Brake sales channel, distributors, customers, research findings and conclusion.

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