

Global Wind Turbines Electromagnetic Safety Brake Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wind Turbines Electromagnetic Safety Brake market size is expected to reach \$ 343 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

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 studies the global Wind Turbines Electromagnetic Safety Brake production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wind Turbines Electromagnetic Safety Brake and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wind Turbines Electromagnetic Safety Brake that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wind Turbines Electromagnetic Safety Brake total production and demand, 2021-2032, (Units)

Global Wind Turbines Electromagnetic Safety Brake total production value, 2021-2032, (USD Million)

Global Wind Turbines Electromagnetic Safety Brake production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Wind Turbines Electromagnetic Safety Brake consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Wind Turbines Electromagnetic Safety Brake domestic production, consumption, key domestic manufacturers and share

Global Wind Turbines Electromagnetic Safety Brake production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Wind Turbines Electromagnetic Safety Brake production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Wind Turbines Electromagnetic Safety Brake production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Wind Turbines Electromagnetic Safety

Brake market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wind Turbines Electromagnetic Safety Brake market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Wind Turbines Electromagnetic Safety Brake Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wind Turbines Electromagnetic Safety Brake Market, Segmentation by Type:

Electromagnetic Disc Brake

Electromagnetic Drum Brake

Electromagnetic Caliper Brake

Others

Global Wind Turbines Electromagnetic Safety Brake Market, Segmentation by Technology:

Power-Off Electromagnetic Brake

Power-On Electromagnetic Brake

Permanent Magnet Electromagnetic Brake

Global Wind Turbines Electromagnetic Safety Brake Market, Segmentation by Application:

Offshore Wind Energy

Onshore Wind Energy

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Wind Turbines Electromagnetic Safety Brake market?
2. What is the demand of the global Wind Turbines Electromagnetic Safety Brake market?
3. What is the year over year growth of the global Wind Turbines Electromagnetic Safety Brake market?
4. What is the production and production value of the global Wind Turbines Electromagnetic Safety Brake market?
5. Who are the key producers in the global Wind Turbines Electromagnetic Safety Brake market?
6. What are the growth factors driving the market demand?

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