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Global Permanent-magnet Synchronous Variable-frequency Drivers Market Growth 2025-2031

https://marketpublishers.com/r/G93835C162C7EN.html
Date: August 2025
Pages: 135
Price: US$ 3,660.00 (Single User License)
ID: G93835C162C7EN

Abstracts

The global Permanent-magnet Synchronous Variable-frequency Drivers market size is predicted to grow from US$ 1778 million in 2025 to US$ 2570 million in 2031; it is expected to grow at a CAGR of 6.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The Permanent-magnet Synchronous Variable-frequency Drivers are mechatronic devices that integrate permanent-magnet synchronous motors (PMSMs) with variable-frequency speed regulation technology. The PMSMs generate a magnetic field using permanent magnets, eliminating the need for additional excitation current and offering high power density and efficiency. The variable-frequency system precisely controls the motor's speed and torque by adjusting the power frequency and voltage. Integrated with the motor and frequency converter, it has a compact structure, reduces intermediate energy losses, and features fast response, a wide speed regulation range, and stable and reliable operation, making it an energy-efficient motor drive product.

United States market for Permanent-magnet Synchronous Variable-frequency Drivers is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Permanent-magnet Synchronous Variable-frequency Drivers is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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Europe market for Permanent-magnet Synchronous Variable-frequency Drivers is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Permanent-magnet Synchronous Variable-frequency Drivers players cover Danfoss, Rockwell, GE Power, YASKAWA, MITSUBISHI, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Permanent-magnet Synchronous Variable-frequency Drivers Industry Forecast” looks at past sales and reviews total world Permanent-magnet Synchronous Variable-frequency Drivers sales in 2024, providing a comprehensive analysis by region and market sector of projected Permanent-magnet Synchronous Variable-frequency Drivers sales for 2025 through 2031. With Permanent-magnet Synchronous Variable-frequency Drivers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Permanent-magnet Synchronous Variable-frequency Drivers industry.

This Insight Report provides a comprehensive analysis of the global Permanent-magnet Synchronous Variable-frequency Drivers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Permanent-magnet Synchronous Variable-frequency Drivers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Permanent-magnet Synchronous Variable-frequency Drivers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Permanent-magnet Synchronous Variable-frequency Drivers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Permanent-magnet Synchronous Variable-frequency Drivers.

This report presents a comprehensive overview, market shares, and growth opportunities of Permanent-magnet Synchronous Variable-frequency Drivers market by product type, application, key manufacturers and key regions and countries.

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Segmentation by Type:

- Flameproof Type
- Flameproof and Intrinsically Safe Type
- Others

Segmentation by Application:

- Port
- Coal
- Steel
- Metallurgy
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China

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- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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Danfoss

Rockwell

GE Power

YASKAWA

MITSUBISHI

Fuji Electric

National Energy Investment Group Co., Ltd.

Harbin Electric Corporation

Dianguang Explosion-proof Technology Co., Ltd.

CITIC HIC Kaicheng Intelligence Equipment Co., Ltd.

Shandong Haina Intelligent Equipment Technology Co., Ltd.

Libo Heavy Industries Science & Technology Co., Ltd.

Wolong Electric Group Co., Ltd.

Shunhua Electric (Kunshan) Co., Ltd.

Anhui Mingteng Permanent-Magnetic Machinery&Electrical Equipment Co., Ltd.

China TX Iiot Technology Co., Ltd.

Shandong Bocheng Electric Co., Ltd

Shanghai SANCH Electric Technology Co., Ltd.

Zhixin Electric (Tianjin) Co., Ltd.

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Permanent-magnet Synchronous Variable-frequency Drivers market?
What factors are driving Permanent-magnet Synchronous Variable-frequency Drivers market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Permanent-magnet Synchronous Variable-frequency Drivers market opportunities vary by end market size?
How does Permanent-magnet Synchronous Variable-frequency Drivers break out by Type, by Application?

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