

Global Hairpin Winding Permanent Magnet Motor Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Hairpin Winding Permanent Magnet Motor market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

Hairpin Winding Permanent Magnet Motor refers to a type of electric motor that uses hairpin windings in its stator to generate a magnetic field. The motor also incorporates permanent magnets in the rotor to enhance its efficiency and performance. Hairpin windings are a unique type of winding configuration where the copper windings are shaped like a hairpin, allowing for a compact and efficient design. The hairpin winding arrangement in the stator enables better heat dissipation, reduced copper losses, and improved power density compared to traditional winding designs. This leads to higher motor efficiency, lower operating temperatures, and increased power output. The use of permanent magnets in the rotor enhances the motor's magnetic field strength, resulting in higher torque and power density. Permanent magnet motors are known for their improved efficiency, compact size, and high power-to-weight ratio.

Hairpin winding permanent magnet motors find applications in various industries, including automotive, aerospace, and industrial sectors, where high efficiency, compact size, and high power output are required.

The Global Info Research report includes an overview of the development of the Hairpin Winding Permanent Magnet Motor industry chain, the market status of Energy & Power (Internal Rotor Motor, External Rotor Motor), Aerospace (Internal Rotor Motor, External Rotor Motor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Hairpin

Winding Permanent Magnet Motor.

Regionally, the report analyzes the Hairpin Winding Permanent Magnet Motor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Hairpin Winding Permanent Magnet Motor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Hairpin Winding Permanent Magnet Motor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Hairpin Winding Permanent Magnet Motor industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Internal Rotor Motor, External Rotor Motor).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Hairpin Winding Permanent Magnet Motor market.

Regional Analysis: The report involves examining the Hairpin Winding Permanent Magnet Motor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Hairpin Winding Permanent Magnet Motor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Hairpin Winding Permanent Magnet Motor:

Company Analysis: Report covers individual Hairpin Winding Permanent Magnet Motor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Hairpin Winding Permanent Magnet Motor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Energy & Power, Aerospace).

Technology Analysis: Report covers specific technologies relevant to Hairpin Winding Permanent Magnet Motor. It assesses the current state, advancements, and potential future developments in Hairpin Winding Permanent Magnet Motor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Hairpin Winding Permanent Magnet Motor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Hairpin Winding Permanent Magnet Motor market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Internal Rotor Motor

External Rotor Motor

Market segment by Application

Energy & Power

Aerospace

Automobile

Industrial Automation

Others

Major players covered

Schaeffler AG

ZF Group

Infomedia

LG Magna e-Powertrain

Toyota

HITACHI

ABB

Siemens AG

GE

Bosch

BorgWarner

Nidec

Tesla

wacker

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 Hairpin Winding Permanent Magnet Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hairpin Winding Permanent Magnet Motor, with price, sales, revenue and global market share of Hairpin Winding Permanent Magnet Motor from 2018 to 2023.

Chapter 3, the Hairpin Winding Permanent Magnet Motor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hairpin Winding Permanent Magnet Motor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017

to 2022.and Hairpin Winding Permanent Magnet Motor market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hairpin Winding Permanent Magnet Motor.

Chapter 14 and 15, to describe Hairpin Winding Permanent Magnet Motor sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Hairpin Winding Permanent Magnet Motor
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Hairpin Winding Permanent Magnet Motor Consumption Value by Type: 2018 Versus 2022 Versus 2029
 - 1.3.2 Internal Rotor Motor
 - 1.3.3 External Rotor Motor
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Hairpin Winding Permanent Magnet Motor Consumption Value by Application: 2018 Versus 2022 Versus 2029
 - 1.4.2 Energy & Power
 - 1.4.3 Aerospace
 - 1.4.4 Automobile
 - 1.4.5 Industrial Automation
 - 1.4.6 Others
- 1.5 Global Hairpin Winding Permanent Magnet Motor Market Size & Forecast
 - 1.5.1 Global Hairpin Winding Permanent Magnet Motor Consumption Value (2018 & 2022 & 2029)
 - 1.5.2 Global Hairpin Winding Permanent Magnet Motor Sales Quantity (2018-2029)
 - 1.5.3 Global Hairpin Winding Permanent Magnet Motor Average Price (2018-2029)

2 MANUFACTURERS PROFILES

- 2.1 Schaeffler AG
 - 2.1.1 Schaeffler AG Details
 - 2.1.2 Schaeffler AG Major Business
 - 2.1.3 Schaeffler AG Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.1.4 Schaeffler AG Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.1.5 Schaeffler AG Recent Developments/Updates
- 2.2 ZF Group
 - 2.2.1 ZF Group Details
 - 2.2.2 ZF Group Major Business
 - 2.2.3 ZF Group Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.2.4 ZF Group Hairpin Winding Permanent Magnet Motor Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 ZF Group Recent Developments/Updates

2.3 Infomedica

2.3.1 Infomedica Details

2.3.2 Infomedica Major Business

2.3.3 Infomedica Hairpin Winding Permanent Magnet Motor Product and Services

2.3.4 Infomedica Hairpin Winding Permanent Magnet Motor Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Infomedica Recent Developments/Updates

2.4 LG Magna e-Powertrain

2.4.1 LG Magna e-Powertrain Details

2.4.2 LG Magna e-Powertrain Major Business

2.4.3 LG Magna e-Powertrain Hairpin Winding Permanent Magnet Motor Product and Services

2.4.4 LG Magna e-Powertrain Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 LG Magna e-Powertrain Recent Developments/Updates

2.5 Toyota

2.5.1 Toyota Details

2.5.2 Toyota Major Business

2.5.3 Toyota Hairpin Winding Permanent Magnet Motor Product and Services

2.5.4 Toyota Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 Toyota Recent Developments/Updates

2.6 HITACHI

2.6.1 HITACHI Details

2.6.2 HITACHI Major Business

2.6.3 HITACHI Hairpin Winding Permanent Magnet Motor Product and Services

2.6.4 HITACHI Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 HITACHI Recent Developments/Updates

2.7 ABB

2.7.1 ABB Details

2.7.2 ABB Major Business

2.7.3 ABB Hairpin Winding Permanent Magnet Motor Product and Services

2.7.4 ABB Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 ABB Recent Developments/Updates

2.8 Siemens AG

- 2.8.1 Siemens AG Details
- 2.8.2 Siemens AG Major Business
- 2.8.3 Siemens AG Hairpin Winding Permanent Magnet Motor Product and Services
- 2.8.4 Siemens AG Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.8.5 Siemens AG Recent Developments/Updates
- 2.9 GE
 - 2.9.1 GE Details
 - 2.9.2 GE Major Business
 - 2.9.3 GE Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.9.4 GE Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.9.5 GE Recent Developments/Updates
- 2.10 Bosch
 - 2.10.1 Bosch Details
 - 2.10.2 Bosch Major Business
 - 2.10.3 Bosch Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.10.4 Bosch Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.10.5 Bosch Recent Developments/Updates
- 2.11 BorgWarner
 - 2.11.1 BorgWarner Details
 - 2.11.2 BorgWarner Major Business
 - 2.11.3 BorgWarner Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.11.4 BorgWarner Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.11.5 BorgWarner Recent Developments/Updates
- 2.12 Nidec
 - 2.12.1 Nidec Details
 - 2.12.2 Nidec Major Business
 - 2.12.3 Nidec Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.12.4 Nidec Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.12.5 Nidec Recent Developments/Updates
- 2.13 Tesla
 - 2.13.1 Tesla Details
 - 2.13.2 Tesla Major Business
 - 2.13.3 Tesla Hairpin Winding Permanent Magnet Motor Product and Services
 - 2.13.4 Tesla Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2018-2023)

2.13.5 Tesla Recent Developments/Updates

2.14 wacker

2.14.1 wacker Details

2.14.2 wacker Major Business

2.14.3 wacker Hairpin Winding Permanent Magnet Motor Product and Services

2.14.4 wacker Hairpin Winding Permanent Magnet Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.14.5 wacker Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HAIRPIN WINDING PERMANENT MAGNET MOTOR BY MANUFACTURER

3.1 Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Manufacturer (2018-2023)

3.2 Global Hairpin Winding Permanent Magnet Motor Revenue by Manufacturer (2018-2023)

3.3 Global Hairpin Winding Permanent Magnet Motor Average Price by Manufacturer (2018-2023)

3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of Hairpin Winding Permanent Magnet Motor by Manufacturer Revenue (\$MM) and Market Share (%): 2022

3.4.2 Top 3 Hairpin Winding Permanent Magnet Motor Manufacturer Market Share in 2022

3.4.2 Top 6 Hairpin Winding Permanent Magnet Motor Manufacturer Market Share in 2022

3.5 Hairpin Winding Permanent Magnet Motor Market: Overall Company Footprint Analysis

3.5.1 Hairpin Winding Permanent Magnet Motor Market: Region Footprint

3.5.2 Hairpin Winding Permanent Magnet Motor Market: Company Product Type Footprint

3.5.3 Hairpin Winding Permanent Magnet Motor Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Hairpin Winding Permanent Magnet Motor Market Size by Region

4.1.1 Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2018-2029)

4.1.2 Global Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2018-2029)

4.1.3 Global Hairpin Winding Permanent Magnet Motor Average Price by Region (2018-2029)

4.2 North America Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029)

4.3 Europe Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029)

4.4 Asia-Pacific Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029)

4.5 South America Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029)

4.6 Middle East and Africa Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2029)

5.2 Global Hairpin Winding Permanent Magnet Motor Consumption Value by Type (2018-2029)

5.3 Global Hairpin Winding Permanent Magnet Motor Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2029)

6.2 Global Hairpin Winding Permanent Magnet Motor Consumption Value by Application (2018-2029)

6.3 Global Hairpin Winding Permanent Magnet Motor Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2029)

7.2 North America Hairpin Winding Permanent Magnet Motor Sales Quantity by

Application (2018-2029)

7.3 North America Hairpin Winding Permanent Magnet Motor Market Size by Country

7.3.1 North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2029)

7.3.2 North America Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2029)

8.2 Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2029)

8.3 Europe Hairpin Winding Permanent Magnet Motor Market Size by Country

8.3.1 Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2029)

8.3.2 Europe Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

9.1 Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Hairpin Winding Permanent Magnet Motor Market Size by Region

9.3.1 Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

- 9.3.4 Japan Market Size and Forecast (2018-2029)
- 9.3.5 Korea Market Size and Forecast (2018-2029)
- 9.3.6 India Market Size and Forecast (2018-2029)
- 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
- 9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

- 10.1 South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2029)
- 10.2 South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2029)
- 10.3 South America Hairpin Winding Permanent Magnet Motor Market Size by Country
 - 10.3.1 South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2029)
 - 10.3.2 South America Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2029)
 - 10.3.3 Brazil Market Size and Forecast (2018-2029)
 - 10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2029)
- 11.2 Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Hairpin Winding Permanent Magnet Motor Market Size by Country
 - 11.3.1 Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2029)
 - 11.3.2 Middle East & Africa Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2029)
 - 11.3.3 Turkey Market Size and Forecast (2018-2029)
 - 11.3.4 Egypt Market Size and Forecast (2018-2029)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
 - 11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 Hairpin Winding Permanent Magnet Motor Market Drivers
- 12.2 Hairpin Winding Permanent Magnet Motor Market Restraints
- 12.3 Hairpin Winding Permanent Magnet Motor Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
 - 12.5.1 Influence of COVID-19
 - 12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Hairpin Winding Permanent Magnet Motor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Hairpin Winding Permanent Magnet Motor
- 13.3 Hairpin Winding Permanent Magnet Motor Production Process
- 13.4 Hairpin Winding Permanent Magnet Motor Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Hairpin Winding Permanent Magnet Motor Typical Distributors
- 14.3 Hairpin Winding Permanent Magnet Motor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 2. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 3. Schaeffler AG Basic Information, Manufacturing Base and Competitors
- Table 4. Schaeffler AG Major Business
- Table 5. Schaeffler AG Hairpin Winding Permanent Magnet Motor Product and Services
- Table 6. Schaeffler AG Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 7. Schaeffler AG Recent Developments/Updates
- Table 8. ZF Group Basic Information, Manufacturing Base and Competitors
- Table 9. ZF Group Major Business
- Table 10. ZF Group Hairpin Winding Permanent Magnet Motor Product and Services
- Table 11. ZF Group Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 12. ZF Group Recent Developments/Updates
- Table 13. Infomeia Basic Information, Manufacturing Base and Competitors
- Table 14. Infomeia Major Business
- Table 15. Infomeia Hairpin Winding Permanent Magnet Motor Product and Services
- Table 16. Infomeia Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 17. Infomeia Recent Developments/Updates
- Table 18. LG Magna e-Powertrain Basic Information, Manufacturing Base and Competitors
- Table 19. LG Magna e-Powertrain Major Business
- Table 20. LG Magna e-Powertrain Hairpin Winding Permanent Magnet Motor Product and Services
- Table 21. LG Magna e-Powertrain Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 22. LG Magna e-Powertrain Recent Developments/Updates
- Table 23. Toyota Basic Information, Manufacturing Base and Competitors

Table 24. Toyota Major Business

Table 25. Toyota Hairpin Winding Permanent Magnet Motor Product and Services

Table 26. Toyota Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Toyota Recent Developments/Updates

Table 28. HITACHI Basic Information, Manufacturing Base and Competitors

Table 29. HITACHI Major Business

Table 30. HITACHI Hairpin Winding Permanent Magnet Motor Product and Services

Table 31. HITACHI Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. HITACHI Recent Developments/Updates

Table 33. ABB Basic Information, Manufacturing Base and Competitors

Table 34. ABB Major Business

Table 35. ABB Hairpin Winding Permanent Magnet Motor Product and Services

Table 36. ABB Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. ABB Recent Developments/Updates

Table 38. Siemens AG Basic Information, Manufacturing Base and Competitors

Table 39. Siemens AG Major Business

Table 40. Siemens AG Hairpin Winding Permanent Magnet Motor Product and Services

Table 41. Siemens AG Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. Siemens AG Recent Developments/Updates

Table 43. GE Basic Information, Manufacturing Base and Competitors

Table 44. GE Major Business

Table 45. GE Hairpin Winding Permanent Magnet Motor Product and Services

Table 46. GE Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 47. GE Recent Developments/Updates

Table 48. Bosch Basic Information, Manufacturing Base and Competitors

Table 49. Bosch Major Business

Table 50. Bosch Hairpin Winding Permanent Magnet Motor Product and Services

Table 51. Bosch Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2018-2023)

Table 52. Bosch Recent Developments/Updates

Table 53. BorgWarner Basic Information, Manufacturing Base and Competitors

Table 54. BorgWarner Major Business

Table 55. BorgWarner Hairpin Winding Permanent Magnet Motor Product and Services

Table 56. BorgWarner Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. BorgWarner Recent Developments/Updates

Table 58. Nidec Basic Information, Manufacturing Base and Competitors

Table 59. Nidec Major Business

Table 60. Nidec Hairpin Winding Permanent Magnet Motor Product and Services

Table 61. Nidec Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Nidec Recent Developments/Updates

Table 63. Tesla Basic Information, Manufacturing Base and Competitors

Table 64. Tesla Major Business

Table 65. Tesla Hairpin Winding Permanent Magnet Motor Product and Services

Table 66. Tesla Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Tesla Recent Developments/Updates

Table 68. wacker Basic Information, Manufacturing Base and Competitors

Table 69. wacker Major Business

Table 70. wacker Hairpin Winding Permanent Magnet Motor Product and Services

Table 71. wacker Hairpin Winding Permanent Magnet Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 72. wacker Recent Developments/Updates

Table 73. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 74. Global Hairpin Winding Permanent Magnet Motor Revenue by Manufacturer (2018-2023) & (USD Million)

Table 75. Global Hairpin Winding Permanent Magnet Motor Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 76. Market Position of Manufacturers in Hairpin Winding Permanent Magnet Motor, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 77. Head Office and Hairpin Winding Permanent Magnet Motor Production Site of

Key Manufacturer

Table 78. Hairpin Winding Permanent Magnet Motor Market: Company Product Type Footprint

Table 79. Hairpin Winding Permanent Magnet Motor Market: Company Product Application Footprint

Table 80. Hairpin Winding Permanent Magnet Motor New Market Entrants and Barriers to Market Entry

Table 81. Hairpin Winding Permanent Magnet Motor Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2018-2023) & (K Units)

Table 83. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2024-2029) & (K Units)

Table 84. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2018-2023) & (USD Million)

Table 85. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2024-2029) & (USD Million)

Table 86. Global Hairpin Winding Permanent Magnet Motor Average Price by Region (2018-2023) & (US\$/Unit)

Table 87. Global Hairpin Winding Permanent Magnet Motor Average Price by Region (2024-2029) & (US\$/Unit)

Table 88. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2023) & (K Units)

Table 89. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2024-2029) & (K Units)

Table 90. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Type (2018-2023) & (USD Million)

Table 91. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Type (2024-2029) & (USD Million)

Table 92. Global Hairpin Winding Permanent Magnet Motor Average Price by Type (2018-2023) & (US\$/Unit)

Table 93. Global Hairpin Winding Permanent Magnet Motor Average Price by Type (2024-2029) & (US\$/Unit)

Table 94. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2023) & (K Units)

Table 95. Global Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2024-2029) & (K Units)

Table 96. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Application (2018-2023) & (USD Million)

Table 97. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Application (2024-2029) & (USD Million)

Table 98. Global Hairpin Winding Permanent Magnet Motor Average Price by Application (2018-2023) & (US\$/Unit)

Table 99. Global Hairpin Winding Permanent Magnet Motor Average Price by Application (2024-2029) & (US\$/Unit)

Table 100. North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2023) & (K Units)

Table 101. North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2024-2029) & (K Units)

Table 102. North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2023) & (K Units)

Table 103. North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2024-2029) & (K Units)

Table 104. North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2023) & (K Units)

Table 105. North America Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2024-2029) & (K Units)

Table 106. North America Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2023) & (USD Million)

Table 107. North America Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2024-2029) & (USD Million)

Table 108. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2023) & (K Units)

Table 109. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2024-2029) & (K Units)

Table 110. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2023) & (K Units)

Table 111. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2024-2029) & (K Units)

Table 112. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2023) & (K Units)

Table 113. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2024-2029) & (K Units)

Table 114. Europe Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2023) & (USD Million)

Table 115. Europe Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2024-2029) & (USD Million)

Table 116. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by

Type (2018-2023) & (K Units)

Table 117. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2024-2029) & (K Units)

Table 118. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2023) & (K Units)

Table 119. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2024-2029) & (K Units)

Table 120. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2018-2023) & (K Units)

Table 121. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2024-2029) & (K Units)

Table 122. Asia-Pacific Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2018-2023) & (USD Million)

Table 123. Asia-Pacific Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2024-2029) & (USD Million)

Table 124. South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2023) & (K Units)

Table 125. South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2024-2029) & (K Units)

Table 126. South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2023) & (K Units)

Table 127. South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2024-2029) & (K Units)

Table 128. South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2018-2023) & (K Units)

Table 129. South America Hairpin Winding Permanent Magnet Motor Sales Quantity by Country (2024-2029) & (K Units)

Table 130. South America Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2018-2023) & (USD Million)

Table 131. South America Hairpin Winding Permanent Magnet Motor Consumption Value by Country (2024-2029) & (USD Million)

Table 132. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2018-2023) & (K Units)

Table 133. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Type (2024-2029) & (K Units)

Table 134. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2018-2023) & (K Units)

Table 135. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Application (2024-2029) & (K Units)

Table 136. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2018-2023) & (K Units)

Table 137. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity by Region (2024-2029) & (K Units)

Table 138. Middle East & Africa Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2018-2023) & (USD Million)

Table 139. Middle East & Africa Hairpin Winding Permanent Magnet Motor Consumption Value by Region (2024-2029) & (USD Million)

Table 140. Hairpin Winding Permanent Magnet Motor Raw Material

Table 141. Key Manufacturers of Hairpin Winding Permanent Magnet Motor Raw Materials

Table 142. Hairpin Winding Permanent Magnet Motor Typical Distributors

Table 143. Hairpin Winding Permanent Magnet Motor Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Hairpin Winding Permanent Magnet Motor Picture
- Figure 2. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Type in 2022
- Figure 4. Internal Rotor Motor Examples
- Figure 5. External Rotor Motor Examples
- Figure 6. Global Hairpin Winding Permanent Magnet Motor Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 7. Global Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Application in 2022
- Figure 8. Energy & Power Examples
- Figure 9. Aerospace Examples
- Figure 10. Automobile Examples
- Figure 11. Industrial Automation Examples
- Figure 12. Others Examples
- Figure 13. Global Hairpin Winding Permanent Magnet Motor Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 14. Global Hairpin Winding Permanent Magnet Motor Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 15. Global Hairpin Winding Permanent Magnet Motor Sales Quantity (2018-2029) & (K Units)
- Figure 16. Global Hairpin Winding Permanent Magnet Motor Average Price (2018-2029) & (US\$/Unit)
- Figure 17. Global Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Manufacturer in 2022
- Figure 18. Global Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Manufacturer in 2022
- Figure 19. Producer Shipments of Hairpin Winding Permanent Magnet Motor by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 20. Top 3 Hairpin Winding Permanent Magnet Motor Manufacturer (Consumption Value) Market Share in 2022
- Figure 21. Top 6 Hairpin Winding Permanent Magnet Motor Manufacturer (Consumption Value) Market Share in 2022
- Figure 22. Global Hairpin Winding Permanent Magnet Motor Sales Quantity Market

Share by Region (2018-2029)

Figure 23. Global Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Region (2018-2029)

Figure 24. North America Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029) & (USD Million)

Figure 25. Europe Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029) & (USD Million)

Figure 26. Asia-Pacific Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029) & (USD Million)

Figure 27. South America Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029) & (USD Million)

Figure 28. Middle East & Africa Hairpin Winding Permanent Magnet Motor Consumption Value (2018-2029) & (USD Million)

Figure 29. Global Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Type (2018-2029)

Figure 30. Global Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Type (2018-2029)

Figure 31. Global Hairpin Winding Permanent Magnet Motor Average Price by Type (2018-2029) & (US\$/Unit)

Figure 32. Global Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Application (2018-2029)

Figure 33. Global Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Application (2018-2029)

Figure 34. Global Hairpin Winding Permanent Magnet Motor Average Price by Application (2018-2029) & (US\$/Unit)

Figure 35. North America Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Type (2018-2029)

Figure 36. North America Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Application (2018-2029)

Figure 37. North America Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Country (2018-2029)

Figure 38. North America Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Country (2018-2029)

Figure 39. United States Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Canada Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Mexico Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Type (2018-2029)

Figure 43. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Application (2018-2029)

Figure 44. Europe Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Country (2018-2029)

Figure 45. Europe Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Country (2018-2029)

Figure 46. Germany Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. France Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. United Kingdom Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Russia Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Italy Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Type (2018-2029)

Figure 52. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Application (2018-2029)

Figure 53. Asia-Pacific Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Region (2018-2029)

Figure 54. Asia-Pacific Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Region (2018-2029)

Figure 55. China Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Japan Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Korea Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. India Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Southeast Asia Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Australia Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. South America Hairpin Winding Permanent Magnet Motor Sales Quantity

Market Share by Type (2018-2029)

Figure 62. South America Hairpin Winding Permanent Magnet Motor Sales Quantity

Market Share by Application (2018-2029)

Figure 63. South America Hairpin Winding Permanent Magnet Motor Sales Quantity

Market Share by Country (2018-2029)

Figure 64. South America Hairpin Winding Permanent Magnet Motor Consumption

Value Market Share by Country (2018-2029)

Figure 65. Brazil Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Argentina Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Type (2018-2029)

Figure 68. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Application (2018-2029)

Figure 69. Middle East & Africa Hairpin Winding Permanent Magnet Motor Sales Quantity Market Share by Region (2018-2029)

Figure 70. Middle East & Africa Hairpin Winding Permanent Magnet Motor Consumption Value Market Share by Region (2018-2029)

Figure 71. Turkey Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Egypt Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Saudi Arabia Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. South Africa Hairpin Winding Permanent Magnet Motor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. Hairpin Winding Permanent Magnet Motor Market Drivers

Figure 76. Hairpin Winding Permanent Magnet Motor Market Restraints

Figure 77. Hairpin Winding Permanent Magnet Motor Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Hairpin Winding Permanent Magnet Motor in 2022

Figure 80. Manufacturing Process Analysis of Hairpin Winding Permanent Magnet Motor

Figure 81. Hairpin Winding Permanent Magnet Motor Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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