

Global Eddy Current Generators Market Growth 2026-2032

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Abstracts

The global Eddy Current Generators market size is predicted to grow from US\$ 356 million in 2025 to US\$ 565 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

In 2024, global eddy current generators produced about 210,000 units with 260,000 units of capacity, the average unit price is about USD 1,600, and averaging a 34% gross margin. Eddy current generators are non-contact electromagnetic power-generation devices that convert mechanical motion into electricity by rotating a conductive disc or rotor past permanent magnets, inducing circulating eddy currents whose resistance creates usable electrical output; they are widely used in energy harvesting, braking systems, test benches, flywheel systems, wind-turbine auxiliary power modules, and industrial sensing. Their supply chain begins with upstream raw materials such as neodymium-iron-boron (NdFeB) or ferrite permanent magnets, copper/aluminum conductors, laminated steel cores, precision bearings, and CNC-machined housings; midstream manufacturing includes magnet assembly, rotor/stator machining, coil winding, insulation, dynamic balancing, and integration with rectifiers or controllers; downstream integration delivers complete eddy-current generator modules to sectors like automotive, rail braking, industrial automation, renewable energy, aerospace test rigs, and condition-monitoring systems.

United States market for Eddy Current Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Eddy Current Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Eddy Current Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Eddy Current Generators players cover Dynamatic, Magtrol, HORIBA, Klam Retarder, H2W Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Eddy Current Generators Industry Forecast” looks at past sales and reviews total world Eddy Current Generators sales in 2025, providing a comprehensive analysis by region and market sector of projected Eddy Current Generators sales for 2026 through 2032. With Eddy Current Generators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Eddy Current Generators industry.

This Insight Report provides a comprehensive analysis of the global Eddy Current Generators 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 Eddy Current Generators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Eddy Current Generators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Eddy Current Generators 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 Eddy Current Generators.

This report presents a comprehensive overview, market shares, and growth opportunities of Eddy Current Generators market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

NdFeB-magnet Generators

SmCo-magnet Generators

Ferrite-magnet Generators

Segmentation by Speed Class:

Low-speed Generators (10–500 rpm)

Medium-speed Generators (500–5,000 rpm)

High-speed Generators (>5,000 rpm)

Segmentation by Output Power Level:

Micro-power (<10 W)

Small-power (10–500 W)

Medium-power (0.5–10 kW)

High-power (>10 kW)

Segmentation by Application:

Automotive

Marine

Railway

Aerospace

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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.

Dynamatic

Magtrol

HORIBA

Klam Retarder

H2W Technologies

Hongya Power

A&D Technology

SuperFlow Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Eddy Current Generators market?

What factors are driving Eddy Current Generators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Eddy Current Generators market opportunities vary by end market size?

How does Eddy Current Generators break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Eddy Current Generators Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Eddy Current Generators by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Eddy Current Generators by Country/Region, 2021, 2025 & 2032

2.2 Eddy Current Generators Segment by Type

- 2.2.1 NdFeB-magnet Generators
- 2.2.2 SmCo-magnet Generators
- 2.2.3 Ferrite-magnet Generators
- 2.2.4 Eddy Current Generators Sales by Type
 - 2.2.4.1 Global Eddy Current Generators Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Eddy Current Generators Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Eddy Current Generators Sale Price by Type (2021-2026)

2.3 Eddy Current Generators Segment by Speed Class

- 2.3.1 Low-speed Generators (10–500 rpm)
- 2.3.2 Medium-speed Generators (500–5,000 rpm)
- 2.3.3 High-speed Generators (>5,000 rpm)
- 2.3.4 Eddy Current Generators Sales by Speed Class
 - 2.3.4.1 Global Eddy Current Generators Sales Market Share by Speed Class (2021-2026)
 - 2.3.4.2 Global Eddy Current Generators Revenue and Market Share by Speed Class (2021-2026)

- 2.3.4.3 Global Eddy Current Generators Sale Price by Speed Class (2021-2026)
- 2.4 Eddy Current Generators Segment by Output Power Level
 - 2.4.1 Micro-power (<10 W)
 - 2.4.2 Small-power (10–500 W)
 - 2.4.3 Medium-power (0.5–10 kW)
 - 2.4.4 High-power (>10 kW)
 - 2.4.5 Eddy Current Generators Sales by Output Power Level
 - 2.4.5.1 Global Eddy Current Generators Sales Market Share by Output Power Level (2021-2026)
 - 2.4.5.2 Global Eddy Current Generators Revenue and Market Share by Output Power Level (2021-2026)
 - 2.4.5.3 Global Eddy Current Generators Sale Price by Output Power Level (2021-2026)
- 2.5 Eddy Current Generators Segment by Application
 - 2.5.1 Automotive
 - 2.5.2 Marine
 - 2.5.3 Railway
 - 2.5.4 Aerospace
 - 2.5.5 Industrial
 - 2.5.6 Others
 - 2.5.7 Eddy Current Generators Sales by Application
 - 2.5.7.1 Global Eddy Current Generators Sale Market Share by Application (2021-2026)
 - 2.5.7.2 Global Eddy Current Generators Revenue and Market Share by Application (2021-2026)
 - 2.5.7.3 Global Eddy Current Generators Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Eddy Current Generators Breakdown Data by Company
 - 3.1.1 Global Eddy Current Generators Annual Sales by Company (2021-2026)
 - 3.1.2 Global Eddy Current Generators Sales Market Share by Company (2021-2026)
- 3.2 Global Eddy Current Generators Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Eddy Current Generators Revenue by Company (2021-2026)
 - 3.2.2 Global Eddy Current Generators Revenue Market Share by Company (2021-2026)
- 3.3 Global Eddy Current Generators Sale Price by Company
- 3.4 Key Manufacturers Eddy Current Generators Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers Eddy Current Generators Product Location Distribution
- 3.4.2 Players Eddy Current Generators Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EDDY CURRENT GENERATORS BY GEOGRAPHIC REGION

- 4.1 World Historic Eddy Current Generators Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Eddy Current Generators Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Eddy Current Generators Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Eddy Current Generators Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Eddy Current Generators Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Eddy Current Generators Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Eddy Current Generators Sales Growth
- 4.4 APAC Eddy Current Generators Sales Growth
- 4.5 Europe Eddy Current Generators Sales Growth
- 4.6 Middle East & Africa Eddy Current Generators Sales Growth

5 AMERICAS

- 5.1 Americas Eddy Current Generators Sales by Country
 - 5.1.1 Americas Eddy Current Generators Sales by Country (2021-2026)
 - 5.1.2 Americas Eddy Current Generators Revenue by Country (2021-2026)
- 5.2 Americas Eddy Current Generators Sales by Type (2021-2026)
- 5.3 Americas Eddy Current Generators Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Eddy Current Generators Sales by Region

6.1.1 APAC Eddy Current Generators Sales by Region (2021-2026)

6.1.2 APAC Eddy Current Generators Revenue by Region (2021-2026)

6.2 APAC Eddy Current Generators Sales by Type (2021-2026)

6.3 APAC Eddy Current Generators Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Eddy Current Generators by Country

7.1.1 Europe Eddy Current Generators Sales by Country (2021-2026)

7.1.2 Europe Eddy Current Generators Revenue by Country (2021-2026)

7.2 Europe Eddy Current Generators Sales by Type (2021-2026)

7.3 Europe Eddy Current Generators Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Eddy Current Generators by Country

8.1.1 Middle East & Africa Eddy Current Generators Sales by Country (2021-2026)

8.1.2 Middle East & Africa Eddy Current Generators Revenue by Country (2021-2026)

8.2 Middle East & Africa Eddy Current Generators Sales by Type (2021-2026)

8.3 Middle East & Africa Eddy Current Generators Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Eddy Current Generators

10.3 Manufacturing Process Analysis of Eddy Current Generators

10.4 Industry Chain Structure of Eddy Current Generators

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Eddy Current Generators Distributors

11.3 Eddy Current Generators Customer

12 WORLD FORECAST REVIEW FOR EDDY CURRENT GENERATORS BY GEOGRAPHIC REGION

12.1 Global Eddy Current Generators Market Size Forecast by Region

12.1.1 Global Eddy Current Generators Forecast by Region (2027-2032)

12.1.2 Global Eddy Current Generators Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Eddy Current Generators Forecast by Type (2027-2032)

12.7 Global Eddy Current Generators Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Dynamatic

13.1.1 Dynamatic Company Information

13.1.2 Dynamatic Eddy Current Generators Product Portfolios and Specifications

13.1.3 Dynamatic Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Dynamatic Main Business Overview

13.1.5 Dynamatic Latest Developments

13.2 Magtrol

13.2.1 Magtrol Company Information

13.2.2 Magtrol Eddy Current Generators Product Portfolios and Specifications

13.2.3 Magtrol Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Magtrol Main Business Overview

13.2.5 Magtrol Latest Developments

13.3 HORIBA

13.3.1 HORIBA Company Information

13.3.2 HORIBA Eddy Current Generators Product Portfolios and Specifications

13.3.3 HORIBA Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 HORIBA Main Business Overview

13.3.5 HORIBA Latest Developments

13.4 Klam Retarder

13.4.1 Klam Retarder Company Information

13.4.2 Klam Retarder Eddy Current Generators Product Portfolios and Specifications

13.4.3 Klam Retarder Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Klam Retarder Main Business Overview

13.4.5 Klam Retarder Latest Developments

13.5 H2W Technologies

13.5.1 H2W Technologies Company Information

13.5.2 H2W Technologies Eddy Current Generators Product Portfolios and Specifications

13.5.3 H2W Technologies Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 H2W Technologies Main Business Overview

13.5.5 H2W Technologies Latest Developments

13.6 Hongya Power

13.6.1 Hongya Power Company Information

13.6.2 Hongya Power Eddy Current Generators Product Portfolios and Specifications

13.6.3 Hongya Power Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Hongya Power Main Business Overview

13.6.5 Hongya Power Latest Developments

13.7 A&D Technology

13.7.1 A&D Technology Company Information

13.7.2 A&D Technology Eddy Current Generators Product Portfolios and Specifications

13.7.3 A&D Technology Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 A&D Technology Main Business Overview

13.7.5 A&D Technology Latest Developments

13.8 SuperFlow Technologies

13.8.1 SuperFlow Technologies Company Information

13.8.2 SuperFlow Technologies Eddy Current Generators Product Portfolios and Specifications

13.8.3 SuperFlow Technologies Eddy Current Generators Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 SuperFlow Technologies Main Business Overview

13.8.5 SuperFlow Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Eddy Current Generators Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Eddy Current Generators Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of NdFeB-magnet Generators

Table 4. Major Players of SmCo-magnet Generators

Table 5. Major Players of Ferrite-magnet Generators

Table 6. Global Eddy Current Generators Sales by Type (2021-2026) & (K Units)

Table 7. Global Eddy Current Generators Sales Market Share by Type (2021-2026)

Table 8. Global Eddy Current Generators Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Eddy Current Generators Revenue Market Share by Type (2021-2026)

Table 10. Global Eddy Current Generators Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Low-speed Generators (10–500 rpm)

Table 12. Major Players of Medium-speed Generators (500–5,000 rpm)

Table 13. Major Players of High-speed Generators (>5,000 rpm)

Table 14. Global Eddy Current Generators Sales by Speed Class (2021-2026) & (K Units)

Table 15. Global Eddy Current Generators Sales Market Share by Speed Class (2021-2026)

Table 16. Global Eddy Current Generators Revenue by Speed Class (2021-2026) & (\$ million)

Table 17. Global Eddy Current Generators Revenue Market Share by Speed Class (2021-2026)

Table 18. Global Eddy Current Generators Sale Price by Speed Class (2021-2026) & (US\$/Unit)

Table 19. Major Players of Micro-power (<10 W)

Table 20. Major Players of Small-power (10–500 W)

Table 21. Major Players of Medium-power (0.5–10 kW)

Table 22. Major Players of High-power (>10 kW)

Table 23. Global Eddy Current Generators Sales by Output Power Level (2021-2026) & (K Units)

Table 24. Global Eddy Current Generators Sales Market Share by Output Power Level (2021-2026)

Table 25. Global Eddy Current Generators Revenue by Output Power Level

(2021-2026) & (\$ million)

Table 26. Global Eddy Current Generators Revenue Market Share by Output Power Level (2021-2026)

Table 27. Global Eddy Current Generators Sale Price by Output Power Level (2021-2026) & (US\$/Unit)

Table 28. Global Eddy Current Generators Sale by Application (2021-2026) & (K Units)

Table 29. Global Eddy Current Generators Sale Market Share by Application (2021-2026)

Table 30. Global Eddy Current Generators Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Eddy Current Generators Revenue Market Share by Application (2021-2026)

Table 32. Global Eddy Current Generators Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Eddy Current Generators Sales by Company (2021-2026) & (K Units)

Table 34. Global Eddy Current Generators Sales Market Share by Company (2021-2026)

Table 35. Global Eddy Current Generators Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Eddy Current Generators Revenue Market Share by Company (2021-2026)

Table 37. Global Eddy Current Generators Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Eddy Current Generators Producing Area Distribution and Sales Area

Table 39. Players Eddy Current Generators Products Offered

Table 40. Eddy Current Generators Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Eddy Current Generators Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global Eddy Current Generators Sales Market Share Geographic Region (2021-2026)

Table 45. Global Eddy Current Generators Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Eddy Current Generators Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Eddy Current Generators Sales by Country/Region (2021-2026) & (K

Units)

Table 48. Global Eddy Current Generators Sales Market Share by Country/Region (2021-2026)

Table 49. Global Eddy Current Generators Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Eddy Current Generators Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Eddy Current Generators Sales by Country (2021-2026) & (K Units)

Table 52. Americas Eddy Current Generators Sales Market Share by Country (2021-2026)

Table 53. Americas Eddy Current Generators Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Eddy Current Generators Sales by Type (2021-2026) & (K Units)

Table 55. Americas Eddy Current Generators Sales by Application (2021-2026) & (K Units)

Table 56. APAC Eddy Current Generators Sales by Region (2021-2026) & (K Units)

Table 57. APAC Eddy Current Generators Sales Market Share by Region (2021-2026)

Table 58. APAC Eddy Current Generators Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Eddy Current Generators Sales by Type (2021-2026) & (K Units)

Table 60. APAC Eddy Current Generators Sales by Application (2021-2026) & (K Units)

Table 61. Europe Eddy Current Generators Sales by Country (2021-2026) & (K Units)

Table 62. Europe Eddy Current Generators Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Eddy Current Generators Sales by Type (2021-2026) & (K Units)

Table 64. Europe Eddy Current Generators Sales by Application (2021-2026) & (K Units)

Table 65. Middle East & Africa Eddy Current Generators Sales by Country (2021-2026) & (K Units)

Table 66. Middle East & Africa Eddy Current Generators Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Eddy Current Generators Sales by Type (2021-2026) & (K Units)

Table 68. Middle East & Africa Eddy Current Generators Sales by Application (2021-2026) & (K Units)

Table 69. Key Market Drivers & Growth Opportunities of Eddy Current Generators

Table 70. Key Market Challenges & Risks of Eddy Current Generators

Table 71. Key Industry Trends of Eddy Current Generators

Table 72. Eddy Current Generators Raw Material

Table 73. Key Suppliers of Raw Materials
Table 74. Eddy Current Generators Distributors List
Table 75. Eddy Current Generators Customer List
Table 76. Global Eddy Current Generators Sales Forecast by Region (2027-2032) & (K Units)
Table 77. Global Eddy Current Generators Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas Eddy Current Generators Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Americas Eddy Current Generators Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC Eddy Current Generators Sales Forecast by Region (2027-2032) & (K Units)
Table 81. APAC Eddy Current Generators Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe Eddy Current Generators Sales Forecast by Country (2027-2032) & (K Units)
Table 83. Europe Eddy Current Generators Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa Eddy Current Generators Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Middle East & Africa Eddy Current Generators Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Global Eddy Current Generators Sales Forecast by Type (2027-2032) & (K Units)
Table 87. Global Eddy Current Generators Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 88. Global Eddy Current Generators Sales Forecast by Application (2027-2032) & (K Units)
Table 89. Global Eddy Current Generators Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 90. Dynamatic Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors
Table 91. Dynamatic Eddy Current Generators Product Portfolios and Specifications
Table 92. Dynamatic Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 93. Dynamatic Main Business
Table 94. Dynamatic Latest Developments
Table 95. Magtrol Basic Information, Eddy Current Generators Manufacturing Base,

Sales Area and Its Competitors

Table 96. Magtrol Eddy Current Generators Product Portfolios and Specifications

Table 97. Magtrol Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Magtrol Main Business

Table 99. Magtrol Latest Developments

Table 100. HORIBA Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors

Table 101. HORIBA Eddy Current Generators Product Portfolios and Specifications

Table 102. HORIBA Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. HORIBA Main Business

Table 104. HORIBA Latest Developments

Table 105. Klam Retarder Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors

Table 106. Klam Retarder Eddy Current Generators Product Portfolios and Specifications

Table 107. Klam Retarder Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Klam Retarder Main Business

Table 109. Klam Retarder Latest Developments

Table 110. H2W Technologies Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors

Table 111. H2W Technologies Eddy Current Generators Product Portfolios and Specifications

Table 112. H2W Technologies Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. H2W Technologies Main Business

Table 114. H2W Technologies Latest Developments

Table 115. Hongya Power Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors

Table 116. Hongya Power Eddy Current Generators Product Portfolios and Specifications

Table 117. Hongya Power Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Hongya Power Main Business

Table 119. Hongya Power Latest Developments

Table 120. A&D Technology Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors

Table 121. A&D Technology Eddy Current Generators Product Portfolios and Specifications

Table 122. A&D Technology Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. A&D Technology Main Business

Table 124. A&D Technology Latest Developments

Table 125. SuperFlow Technologies Basic Information, Eddy Current Generators Manufacturing Base, Sales Area and Its Competitors

Table 126. SuperFlow Technologies Eddy Current Generators Product Portfolios and Specifications

Table 127. SuperFlow Technologies Eddy Current Generators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. SuperFlow Technologies Main Business

Table 129. SuperFlow Technologies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Eddy Current Generators
- Figure 2. Eddy Current Generators Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Eddy Current Generators Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Eddy Current Generators Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Eddy Current Generators Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Eddy Current Generators Sales Market Share by Country/Region (2025)
- Figure 10. Eddy Current Generators Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of NdFeB-magnet Generators
- Figure 12. Product Picture of SmCo-magnet Generators
- Figure 13. Product Picture of Ferrite-magnet Generators
- Figure 14. Global Eddy Current Generators Sales Market Share by Type in 2026
- Figure 15. Global Eddy Current Generators Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Low-speed Generators (10–500 rpm)
- Figure 17. Product Picture of Medium-speed Generators (500–5,000 rpm)
- Figure 18. Product Picture of High-speed Generators (>5,000 rpm)
- Figure 19. Global Eddy Current Generators Sales Market Share by Speed Class in 2026
- Figure 20. Global Eddy Current Generators Revenue Market Share by Speed Class (2021-2026)
- Figure 21. Product Picture of Micro-power (<10 W)
- Figure 22. Product Picture of Small-power (10–500 W)
- Figure 23. Product Picture of Medium-power (0.5–10 kW)
- Figure 24. Product Picture of High-power (>10 kW)
- Figure 25. Global Eddy Current Generators Sales Market Share by Output Power Level in 2026
- Figure 26. Global Eddy Current Generators Revenue Market Share by Output Power Level (2021-2026)
- Figure 27. Eddy Current Generators Consumed in Automotive
- Figure 28. Global Eddy Current Generators Market: Automotive (2021-2026) & (K Units)

Figure 29. Eddy Current Generators Consumed in Marine

Figure 30. Global Eddy Current Generators Market: Marine (2021-2026) & (K Units)

Figure 31. Eddy Current Generators Consumed in Railway

Figure 32. Global Eddy Current Generators Market: Railway (2021-2026) & (K Units)

Figure 33. Eddy Current Generators Consumed in Aerospace

Figure 34. Global Eddy Current Generators Market: Aerospace (2021-2026) & (K Units)

Figure 35. Eddy Current Generators Consumed in Industrial

Figure 36. Global Eddy Current Generators Market: Industrial (2021-2026) & (K Units)

Figure 37. Eddy Current Generators Consumed in Others

Figure 38. Global Eddy Current Generators Market: Others (2021-2026) & (K Units)

Figure 39. Global Eddy Current Generators Sale Market Share by Application (2025)

Figure 40. Global Eddy Current Generators Revenue Market Share by Application in 2026

Figure 41. Eddy Current Generators Sales by Company in 2026 (K Units)

Figure 42. Global Eddy Current Generators Sales Market Share by Company in 2026

Figure 43. Eddy Current Generators Revenue by Company in 2026 (\$ millions)

Figure 44. Global Eddy Current Generators Revenue Market Share by Company in 2026

Figure 45. Global Eddy Current Generators Sales Market Share by Geographic Region (2021-2026)

Figure 46. Global Eddy Current Generators Revenue Market Share by Geographic Region in 2026

Figure 47. Americas Eddy Current Generators Sales 2021-2026 (K Units)

Figure 48. Americas Eddy Current Generators Revenue 2021-2026 (\$ millions)

Figure 49. APAC Eddy Current Generators Sales 2021-2026 (K Units)

Figure 50. APAC Eddy Current Generators Revenue 2021-2026 (\$ millions)

Figure 51. Europe Eddy Current Generators Sales 2021-2026 (K Units)

Figure 52. Europe Eddy Current Generators Revenue 2021-2026 (\$ millions)

Figure 53. Middle East & Africa Eddy Current Generators Sales 2021-2026 (K Units)

Figure 54. Middle East & Africa Eddy Current Generators Revenue 2021-2026 (\$ millions)

Figure 55. Americas Eddy Current Generators Sales Market Share by Country in 2026

Figure 56. Americas Eddy Current Generators Revenue Market Share by Country (2021-2026)

Figure 57. Americas Eddy Current Generators Sales Market Share by Type (2021-2026)

Figure 58. Americas Eddy Current Generators Sales Market Share by Application (2021-2026)

Figure 59. United States Eddy Current Generators Revenue Growth 2021-2026 (\$

millions)

Figure 60. Canada Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 61. Mexico Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 62. Brazil Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 63. APAC Eddy Current Generators Sales Market Share by Region in 2026

Figure 64. APAC Eddy Current Generators Revenue Market Share by Region
(2021-2026)

Figure 65. APAC Eddy Current Generators Sales Market Share by Type (2021-2026)

Figure 66. APAC Eddy Current Generators Sales Market Share by Application
(2021-2026)

Figure 67. China Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 68. Japan Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 69. South Korea Eddy Current Generators Revenue Growth 2021-2026 (\$
millions)

Figure 70. Southeast Asia Eddy Current Generators Revenue Growth 2021-2026 (\$
millions)

Figure 71. India Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 72. Australia Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 73. China Taiwan Eddy Current Generators Revenue Growth 2021-2026 (\$
millions)

Figure 74. Europe Eddy Current Generators Sales Market Share by Country in 2026

Figure 75. Europe Eddy Current Generators Revenue Market Share by Country
(2021-2026)

Figure 76. Europe Eddy Current Generators Sales Market Share by Type (2021-2026)

Figure 77. Europe Eddy Current Generators Sales Market Share by Application
(2021-2026)

Figure 78. Germany Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 79. France Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 80. UK Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 81. Italy Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 82. Russia Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 83. Middle East & Africa Eddy Current Generators Sales Market Share by
Country (2021-2026)

Figure 84. Middle East & Africa Eddy Current Generators Sales Market Share by Type
(2021-2026)

Figure 85. Middle East & Africa Eddy Current Generators Sales Market Share by
Application (2021-2026)

Figure 86. Egypt Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 87. South Africa Eddy Current Generators Revenue Growth 2021-2026 (\$

millions)

Figure 88. Israel Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 89. Turkey Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 90. GCC Countries Eddy Current Generators Revenue Growth 2021-2026 (\$ millions)

Figure 91. Manufacturing Cost Structure Analysis of Eddy Current Generators in 2026

Figure 92. Manufacturing Process Analysis of Eddy Current Generators

Figure 93. Industry Chain Structure of Eddy Current Generators

Figure 94. Channels of Distribution

Figure 95. Global Eddy Current Generators Sales Market Forecast by Region (2027-2032)

Figure 96. Global Eddy Current Generators Revenue Market Share Forecast by Region (2027-2032)

Figure 97. Global Eddy Current Generators Sales Market Share Forecast by Type (2027-2032)

Figure 98. Global Eddy Current Generators Revenue Market Share Forecast by Type (2027-2032)

Figure 99. Global Eddy Current Generators Sales Market Share Forecast by Application (2027-2032)

Figure 100. Global Eddy Current Generators Revenue Market Share Forecast by Application (2027-2032)

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