

Global Giant Magnetoresistive (GMR) Sensors Market Growth (Status and Outlook) 2025-2031

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Abstracts

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The global Giant Magnetoresistive (GMR) Sensors market size is predicted to grow from US\$ 282 million in 2025 to US\$ 418 million in 2031; it is expected to grow at a CAGR of 6.7% from 2025 to 2031.

Giant magnetoresistance (GMR) is primarily a quantum mechanical magnetoresistance effect, which is detected in the multilayers composed of alternating non-magnetic as well as ferromagnetic conductive layers. Giant magnetoresistive sensors are employed for speed, position and angle sensing. Major application area of giant magnetoresistive sensor includes automotive, industry, consumer electronics, aerospace and defense among others.

Global Giant Magnetoresistive (GMR) Sensors key players include Infineon Technologies AG, Allegro MicroSystems, Hitachi Metals, etc. Global top three manufacturers hold a share over 55%.

Asia-Pacific is the largest market, with a share over 30%, followed by North America and Europe, both have a share over 50 percent.

In terms of product, Standard Multilayer is the largest segment, with a share over 30%. And in terms of application, the largest application is Automotive, followed by Industrial Applications.

LPI (LP Information)' newest research report, the "Giant Magnetoresistive (GMR) Sensors Industry Forecast" looks at past sales and reviews total world Giant

Magnetoresistive (GMR) Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Giant Magnetoresistive (GMR) Sensors sales for 2025 through 2031. With Giant Magnetoresistive (GMR) Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Giant Magnetoresistive (GMR) Sensors industry.

This Insight Report provides a comprehensive analysis of the global Giant Magnetoresistive (GMR) Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Giant Magnetoresistive (GMR) Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Giant Magnetoresistive (GMR) Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Giant Magnetoresistive (GMR) Sensors 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 Giant Magnetoresistive (GMR) Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Giant Magnetoresistive (GMR) Sensors market by product type, application, key players and key regions and countries.

Segmentation by Type:

Standard Multilayer

High Temperature Multilayer

Low Hysteresis High Temperature Multilayer

Spin Valve

Other

Segmentation by Application:

Automotive

Consumer Electronics

Industrial Applications

Aerospace & Defense

Medical Biological

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 analyzing the company's coverage, product portfolio, its market penetration.

Infineon Technologies AG

Allegro MicroSystems

Hitachi Metals

NVE

Yamaha

Robert Bosch GmbH

Alps Electric

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 Giant Magnetoresistive (GMR) Sensors Market Size (2020-2031)
 - 2.1.2 Giant Magnetoresistive (GMR) Sensors Market Size CAGR by Region (2020 VS 2024 VS 2031)
 - 2.1.3 World Current & Future Analysis for Giant Magnetoresistive (GMR) Sensors by Country/Region (2020, 2024 & 2031)
- 2.2 Giant Magnetoresistive (GMR) Sensors Segment by Type
 - 2.2.1 Standard Multilayer
 - 2.2.2 High Temperature Multilayer
 - 2.2.3 Low Hysteresis High Temperature Multilayer
 - 2.2.4 Spin Valve
 - 2.2.5 Other
- 2.3 Giant Magnetoresistive (GMR) Sensors Market Size by Type
 - 2.3.1 Giant Magnetoresistive (GMR) Sensors Market Size CAGR by Type (2020 VS 2024 VS 2031)
 - 2.3.2 Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Type (2020-2025)
- 2.4 Giant Magnetoresistive (GMR) Sensors Segment by Application
 - 2.4.1 Automotive
 - 2.4.2 Consumer Electronics
 - 2.4.3 Industrial Applications
 - 2.4.4 Aerospace & Defense
 - 2.4.5 Medical Biological
 - 2.4.6 Others

2.5 Giant Magnetoresistive (GMR) Sensors Market Size by Application

2.5.1 Giant Magnetoresistive (GMR) Sensors Market Size CAGR by Application (2020 VS 2024 VS 2031)

2.5.2 Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Application (2020-2025)

3 GIANT MAGNETORESISTIVE (GMR) SENSORS MARKET SIZE BY PLAYER

3.1 Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Player

3.1.1 Global Giant Magnetoresistive (GMR) Sensors Revenue by Player (2020-2025)

3.1.2 Global Giant Magnetoresistive (GMR) Sensors Revenue Market Share by Player (2020-2025)

3.2 Global Giant Magnetoresistive (GMR) Sensors Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 GIANT MAGNETORESISTIVE (GMR) SENSORS BY REGION

4.1 Giant Magnetoresistive (GMR) Sensors Market Size by Region (2020-2025)

4.2 Global Giant Magnetoresistive (GMR) Sensors Annual Revenue by Country/Region (2020-2025)

4.3 Americas Giant Magnetoresistive (GMR) Sensors Market Size Growth (2020-2025)

4.4 APAC Giant Magnetoresistive (GMR) Sensors Market Size Growth (2020-2025)

4.5 Europe Giant Magnetoresistive (GMR) Sensors Market Size Growth (2020-2025)

4.6 Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size Growth (2020-2025)

5 AMERICAS

5.1 Americas Giant Magnetoresistive (GMR) Sensors Market Size by Country (2020-2025)

5.2 Americas Giant Magnetoresistive (GMR) Sensors Market Size by Type (2020-2025)

5.3 Americas Giant Magnetoresistive (GMR) Sensors Market Size by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Giant Magnetoresistive (GMR) Sensors Market Size by Region (2020-2025)

6.2 APAC Giant Magnetoresistive (GMR) Sensors Market Size by Type (2020-2025)

6.3 APAC Giant Magnetoresistive (GMR) Sensors Market Size by Application
(2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Giant Magnetoresistive (GMR) Sensors Market Size by Country
(2020-2025)

7.2 Europe Giant Magnetoresistive (GMR) Sensors Market Size by Type (2020-2025)

7.3 Europe Giant Magnetoresistive (GMR) Sensors Market Size by Application
(2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Giant Magnetoresistive (GMR) Sensors by Region (2020-2025)

8.2 Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size by Type
(2020-2025)

8.3 Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size by
Application (2020-2025)

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 GLOBAL GIANT MAGNETORESISTIVE (GMR) SENSORS MARKET FORECAST

10.1 Global Giant Magnetoresistive (GMR) Sensors Forecast by Region (2026-2031)

10.1.1 Global Giant Magnetoresistive (GMR) Sensors Forecast by Region (2026-2031)

10.1.2 Americas Giant Magnetoresistive (GMR) Sensors Forecast

10.1.3 APAC Giant Magnetoresistive (GMR) Sensors Forecast

10.1.4 Europe Giant Magnetoresistive (GMR) Sensors Forecast

10.1.5 Middle East & Africa Giant Magnetoresistive (GMR) Sensors Forecast

10.2 Americas Giant Magnetoresistive (GMR) Sensors Forecast by Country (2026-2031)

10.2.1 United States Market Giant Magnetoresistive (GMR) Sensors Forecast

10.2.2 Canada Market Giant Magnetoresistive (GMR) Sensors Forecast

10.2.3 Mexico Market Giant Magnetoresistive (GMR) Sensors Forecast

10.2.4 Brazil Market Giant Magnetoresistive (GMR) Sensors Forecast

10.3 APAC Giant Magnetoresistive (GMR) Sensors Forecast by Region (2026-2031)

10.3.1 China Giant Magnetoresistive (GMR) Sensors Market Forecast

10.3.2 Japan Market Giant Magnetoresistive (GMR) Sensors Forecast

10.3.3 Korea Market Giant Magnetoresistive (GMR) Sensors Forecast

10.3.4 Southeast Asia Market Giant Magnetoresistive (GMR) Sensors Forecast

10.3.5 India Market Giant Magnetoresistive (GMR) Sensors Forecast

10.3.6 Australia Market Giant Magnetoresistive (GMR) Sensors Forecast

10.4 Europe Giant Magnetoresistive (GMR) Sensors Forecast by Country (2026-2031)

10.4.1 Germany Market Giant Magnetoresistive (GMR) Sensors Forecast

10.4.2 France Market Giant Magnetoresistive (GMR) Sensors Forecast

10.4.3 UK Market Giant Magnetoresistive (GMR) Sensors Forecast

10.4.4 Italy Market Giant Magnetoresistive (GMR) Sensors Forecast

10.4.5 Russia Market Giant Magnetoresistive (GMR) Sensors Forecast

10.5 Middle East & Africa Giant Magnetoresistive (GMR) Sensors Forecast by Region (2026-2031)

- 10.5.1 Egypt Market Giant Magnetoresistive (GMR) Sensors Forecast
- 10.5.2 South Africa Market Giant Magnetoresistive (GMR) Sensors Forecast
- 10.5.3 Israel Market Giant Magnetoresistive (GMR) Sensors Forecast
- 10.5.4 Turkey Market Giant Magnetoresistive (GMR) Sensors Forecast
- 10.6 Global Giant Magnetoresistive (GMR) Sensors Forecast by Type (2026-2031)
- 10.7 Global Giant Magnetoresistive (GMR) Sensors Forecast by Application (2026-2031)
 - 10.7.1 GCC Countries Market Giant Magnetoresistive (GMR) Sensors Forecast

11 KEY PLAYERS ANALYSIS

11.1 Infineon Technologies AG

- 11.1.1 Infineon Technologies AG Company Information
 - 11.1.2 Infineon Technologies AG Giant Magnetoresistive (GMR) Sensors Product Offered
 - 11.1.3 Infineon Technologies AG Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)
 - 11.1.4 Infineon Technologies AG Main Business Overview
 - 11.1.5 Infineon Technologies AG Latest Developments
- ### **11.2 Allegro MicroSystems**
- 11.2.1 Allegro MicroSystems Company Information
 - 11.2.2 Allegro MicroSystems Giant Magnetoresistive (GMR) Sensors Product Offered
 - 11.2.3 Allegro MicroSystems Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)
 - 11.2.4 Allegro MicroSystems Main Business Overview
 - 11.2.5 Allegro MicroSystems Latest Developments

11.3 Hitachi Metals

- 11.3.1 Hitachi Metals Company Information
- 11.3.2 Hitachi Metals Giant Magnetoresistive (GMR) Sensors Product Offered
- 11.3.3 Hitachi Metals Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)
- 11.3.4 Hitachi Metals Main Business Overview
- 11.3.5 Hitachi Metals Latest Developments

11.4 NVE

- 11.4.1 NVE Company Information
- 11.4.2 NVE Giant Magnetoresistive (GMR) Sensors Product Offered
- 11.4.3 NVE Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)
- 11.4.4 NVE Main Business Overview

11.4.5 NVE Latest Developments

11.5 Yamaha

11.5.1 Yamaha Company Information

11.5.2 Yamaha Giant Magnetoresistive (GMR) Sensors Product Offered

11.5.3 Yamaha Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.5.4 Yamaha Main Business Overview

11.5.5 Yamaha Latest Developments

11.6 Robert Bosch GmbH

11.6.1 Robert Bosch GmbH Company Information

11.6.2 Robert Bosch GmbH Giant Magnetoresistive (GMR) Sensors Product Offered

11.6.3 Robert Bosch GmbH Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.6.4 Robert Bosch GmbH Main Business Overview

11.6.5 Robert Bosch GmbH Latest Developments

11.7 Alps Electric

11.7.1 Alps Electric Company Information

11.7.2 Alps Electric Giant Magnetoresistive (GMR) Sensors Product Offered

11.7.3 Alps Electric Giant Magnetoresistive (GMR) Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.7.4 Alps Electric Main Business Overview

11.7.5 Alps Electric Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

LIST OF TABLES

Table 1. Giant Magnetoresistive (GMR) Sensors Market Size CAGR by Region (2020 VS 2024 VS 2031) & (\$ millions)

Table 2. Giant Magnetoresistive (GMR) Sensors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Standard Multilayer

Table 4. Major Players of High Temperature Multilayer

Table 5. Major Players of Low Hysteresis High Temperature Multilayer

Table 6. Major Players of Spin Valve

Table 7. Major Players of Other

Table 8. Giant Magnetoresistive (GMR) Sensors Market Size CAGR by Type (2020 VS 2024 VS 2031) & (\$ millions)

Table 9. Global Giant Magnetoresistive (GMR) Sensors Market Size byType (2020-2025) & (\$ millions)
Table 10. Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share byType (2020-2025)
Table 11. Giant Magnetoresistive (GMR) Sensors Market Size CAGR by Application (2020 VS 2024 VS 2031) & (\$ millions)
Table 12. Global Giant Magnetoresistive (GMR) Sensors Market Size by Application (2020-2025) & (\$ millions)
Table 13. Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Application (2020-2025)
Table 14. Global Giant Magnetoresistive (GMR) Sensors Revenue by Player (2020-2025) & (\$ millions)
Table 15. Global Giant Magnetoresistive (GMR) Sensors Revenue Market Share by Player (2020-2025)
Table 16. Giant Magnetoresistive (GMR) Sensors Key Players Head office and Products Offered
Table 17. Giant Magnetoresistive (GMR) Sensors Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 18. New Products and Potential Entrants
Table 19. Mergers & Acquisitions, Expansion
Table 20. Global Giant Magnetoresistive (GMR) Sensors Market Size by Region (2020-2025) & (\$ millions)
Table 21. Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Region (2020-2025)
Table 22. Global Giant Magnetoresistive (GMR) Sensors Revenue by Country/Region (2020-2025) & (\$ millions)
Table 23. Global Giant Magnetoresistive (GMR) Sensors Revenue Market Share by Country/Region (2020-2025)
Table 24. Americas Giant Magnetoresistive (GMR) Sensors Market Size by Country (2020-2025) & (\$ millions)
Table 25. Americas Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Country (2020-2025)
Table 26. Americas Giant Magnetoresistive (GMR) Sensors Market Size byType (2020-2025) & (\$ millions)
Table 27. Americas Giant Magnetoresistive (GMR) Sensors Market Size Market Share byType (2020-2025)
Table 28. Americas Giant Magnetoresistive (GMR) Sensors Market Size by Application (2020-2025) & (\$ millions)
Table 29. Americas Giant Magnetoresistive (GMR) Sensors Market Size Market Share

by Application (2020-2025)

Table 30. APAC Giant Magnetoresistive (GMR) Sensors Market Size by Region (2020-2025) & (\$ millions)

Table 31. APAC Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Region (2020-2025)

Table 32. APAC Giant Magnetoresistive (GMR) Sensors Market Size byType (2020-2025) & (\$ millions)

Table 33. APAC Giant Magnetoresistive (GMR) Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 34. Europe Giant Magnetoresistive (GMR) Sensors Market Size by Country (2020-2025) & (\$ millions)

Table 35. Europe Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Country (2020-2025)

Table 36. Europe Giant Magnetoresistive (GMR) Sensors Market Size byType (2020-2025) & (\$ millions)

Table 37. Europe Giant Magnetoresistive (GMR) Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 38. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size by Region (2020-2025) & (\$ millions)

Table 39. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size byType (2020-2025) & (\$ millions)

Table 40. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 41. Key Market Drivers & Growth Opportunities of Giant Magnetoresistive (GMR) Sensors

Table 42. Key Market Challenges & Risks of Giant Magnetoresistive (GMR) Sensors

Table 43. Key IndustryTrends of Giant Magnetoresistive (GMR) Sensors

Table 44. Global Giant Magnetoresistive (GMR) Sensors Market SizeForecast by Region (2026-2031) & (\$ millions)

Table 45. Global Giant Magnetoresistive (GMR) Sensors Market Size Market ShareForecast by Region (2026-2031)

Table 46. Global Giant Magnetoresistive (GMR) Sensors Market SizeForecast byType (2026-2031) & (\$ millions)

Table 47. Global Giant Magnetoresistive (GMR) Sensors Market SizeForecast by Application (2026-2031) & (\$ millions)

Table 48. InfineonTechnologies AG Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 49. InfineonTechnologies AG Giant Magnetoresistive (GMR) Sensors Product Offered

Table 50. InfineonTechnologies AG Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 51. InfineonTechnologies AG Main Business

Table 52. InfineonTechnologies AG Latest Developments

Table 53. Allegro MicroSystems Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 54. Allegro MicroSystems Giant Magnetoresistive (GMR) Sensors Product Offered

Table 55. Allegro MicroSystems Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 56. Allegro MicroSystems Main Business

Table 57. Allegro MicroSystems Latest Developments

Table 58. Hitachi Metals Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 59. Hitachi Metals Giant Magnetoresistive (GMR) Sensors Product Offered

Table 60. Hitachi Metals Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 61. Hitachi Metals Main Business

Table 62. Hitachi Metals Latest Developments

Table 63. NVE Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 64. NVE Giant Magnetoresistive (GMR) Sensors Product Offered

Table 65. NVE Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 66. NVE Main Business

Table 67. NVE Latest Developments

Table 68. Yamaha Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 69. Yamaha Giant Magnetoresistive (GMR) Sensors Product Offered

Table 70. Yamaha Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 71. Yamaha Main Business

Table 72. Yamaha Latest Developments

Table 73. Robert Bosch GmbH Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 74. Robert Bosch GmbH Giant Magnetoresistive (GMR) Sensors Product Offered

Table 75. Robert Bosch GmbH Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 76. Robert Bosch GmbH Main Business

Table 77. Robert Bosch GmbH Latest Developments

Table 78. Alps Electric Details, CompanyType, Giant Magnetoresistive (GMR) Sensors Area Served and Its Competitors

Table 79. Alps Electric Giant Magnetoresistive (GMR) Sensors Product Offered

Table 80. Alps Electric Giant Magnetoresistive (GMR) Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 81. Alps Electric Main Business

Table 82. Alps Electric Latest Developments

LIST OFFIGURES

Figure 1. Giant Magnetoresistive (GMR) Sensors Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Giant Magnetoresistive (GMR) Sensors Market Size Growth Rate (2020-2031) (\$ millions)

Figure 6. Giant Magnetoresistive (GMR) Sensors Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Figure 7. Giant Magnetoresistive (GMR) Sensors Sales Market Share by Country/Region (2024)

Figure 8. Giant Magnetoresistive (GMR) Sensors Sales Market Share by Country/Region (2020, 2024 & 2031)

Figure 9. Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share byType in 2024

Figure 10. Giant Magnetoresistive (GMR) Sensors in Automotive

Figure 11. Global Giant Magnetoresistive (GMR) Sensors Market: Automotive (2020-2025) & (\$ millions)

Figure 12. Giant Magnetoresistive (GMR) Sensors in Consumer Electronics

Figure 13. Global Giant Magnetoresistive (GMR) Sensors Market: Consumer Electronics (2020-2025) & (\$ millions)

Figure 14. Giant Magnetoresistive (GMR) Sensors in Industrial Applications

Figure 15. Global Giant Magnetoresistive (GMR) Sensors Market: Industrial Applications (2020-2025) & (\$ millions)

Figure 16. Giant Magnetoresistive (GMR) Sensors in Aerospace & Defense

Figure 17. Global Giant Magnetoresistive (GMR) Sensors Market: Aerospace & Defense (2020-2025) & (\$ millions)

Figure 18. Giant Magnetoresistive (GMR) Sensors in Medical Biological

Figure 19. Global Giant Magnetoresistive (GMR) Sensors Market: Medical Biological (2020-2025) & (\$ millions)

Figure 20. Giant Magnetoresistive (GMR) Sensors in Others

Figure 21. Global Giant Magnetoresistive (GMR) Sensors Market: Others (2020-2025) & (\$ millions)

Figure 22. Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Application in 2024

Figure 23. Global Giant Magnetoresistive (GMR) Sensors Revenue Market Share by Player in 2024

Figure 24. Global Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Region (2020-2025)

Figure 25. Americas Giant Magnetoresistive (GMR) Sensors Market Size 2020-2025 (\$ millions)

Figure 26. APAC Giant Magnetoresistive (GMR) Sensors Market Size 2020-2025 (\$ millions)

Figure 27. Europe Giant Magnetoresistive (GMR) Sensors Market Size 2020-2025 (\$ millions)

Figure 28. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size 2020-2025 (\$ millions)

Figure 29. Americas Giant Magnetoresistive (GMR) Sensors Value Market Share by Country in 2024

Figure 30. United States Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 31. Canada Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 32. Mexico Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 33. Brazil Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 34. APAC Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Region in 2024

Figure 35. APAC Giant Magnetoresistive (GMR) Sensors Market Size Market Share byType (2020-2025)

Figure 36. APAC Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Application (2020-2025)

Figure 37. China Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 38. Japan Giant Magnetoresistive (GMR) Sensors Market Size Growth

2020-2025 (\$ millions)

Figure 39. South Korea Giant Magnetoresistive (GMR) Sensors Market Size Growth

2020-2025 (\$ millions)

Figure 40. Southeast Asia Giant Magnetoresistive (GMR) Sensors Market Size Growth

2020-2025 (\$ millions)

Figure 41. India Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 42. Australia Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 43. Europe Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Country in 2024

Figure 44. Europe Giant Magnetoresistive (GMR) Sensors Market Size Market Share byType (2020-2025)

Figure 45. Europe Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Application (2020-2025)

Figure 46. Germany Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 47. France Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 48. UK Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 49. Italy Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 50. Russia Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 51. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Region (2020-2025)

Figure 52. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size Market Share byType (2020-2025)

Figure 53. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size Market Share by Application (2020-2025)

Figure 54. Egypt Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 55. South Africa Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 56. Israel Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 57. Turkey Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 58. GCC Countries Giant Magnetoresistive (GMR) Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 59. Americas Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 60. APAC Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 61. Europe Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 62. Middle East & Africa Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 63. United States Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 64. Canada Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 65. Mexico Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 66. Brazil Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 67. China Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 68. Japan Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 69. Korea Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 70. Southeast Asia Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 71. India Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 72. Australia Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 73. Germany Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 74. France Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 75. UK Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 76. Italy Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 77. Russia Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$

millions)

Figure 78. Egypt Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 79. South Africa Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 80. Israel Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 81. Turkey Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

Figure 82. Global Giant Magnetoresistive (GMR) Sensors Market Size Market ShareForecast byType (2026-2031)

Figure 83. Global Giant Magnetoresistive (GMR) Sensors Market Size Market ShareForecast by Application (2026-2031)

Figure 84. GCC Countries Giant Magnetoresistive (GMR) Sensors Market Size 2026-2031 (\$ millions)

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