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Global Magnetic Sensors for Robots Market Growth 2025-2031

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Abstracts

The global Magnetic Sensors for Robots market size is predicted to grow from US$ 218 million in 2025 to US$ 313 million in 2031; it is expected to grow at a CAGR of 6.2% from 2025 to 2031.

Robot magnetic sensors are devices used to detect changes in magnetic fields and convert them into electrical signals. They are installed on components such as motors and encoders and are widely used in scenarios such as robot navigation, positioning, attitude control, and object detection. Common magnetic sensor types include Hall effect sensors, magnetoresistive sensors, and fluxgate sensors. The growth in the scale of humanoid robots in 2024 is expected to bring broader commercial space to magnetic sensors.

United States market for Magnetic Sensors for Robots is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Magnetic Sensors for Robots is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Magnetic Sensors for Robots is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Magnetic Sensors for Robots players cover Honeywell, Analog Devices, Infineon Technologies, Texas Instruments, NXP Semiconductors, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Magnetic Sensors for Robots

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Industry Forecast" looks at past sales and reviews total world Magnetic Sensors for Robots sales in 2024, providing a comprehensive analysis by region and market sector of projected Magnetic Sensors for Robots sales for 2025 through 2031. With Magnetic Sensors for Robots sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Magnetic Sensors for Robots industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetic Sensors for Robots 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 Magnetic Sensors for Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnetic Sensors for Robots market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hall Effect Sensor

Magnetoresistive Sensor

Fluxgate Sensor

Segmentation by Application:

Industrial Robot

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Service Robot

Special Robot

Medical Robot

Agricultural Robot

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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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.

Honeywell

Analog Devices

Infineon Technologies

Texas Instruments

NXP Semiconductors

Allegro MicroSystems

Asahi Kasei Microdevices

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TDK

Melexis

STMicroelectronics

Key Questions Addressed in this Report
What is the 10-year outlook for the global Magnetic Sensors for Robots market?
What factors are driving Magnetic Sensors for Robots market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Magnetic Sensors for Robots market opportunities vary by end market size?
How does Magnetic Sensors for Robots break out by Type, by Application?

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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 Magnetic Sensors for Robots Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Magnetic Sensors for Robots by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Magnetic Sensors for Robots by Country/Region, 2020, 2024 & 2031
2.2 Magnetic Sensors for Robots Segment by Type
  2.2.1 Hall Effect Sensor
  2.2.2 Magnetoresistive Sensor
  2.2.3 Fluxgate Sensor
2.3 Magnetic Sensors for Robots Sales by Type
  2.3.1 Global Magnetic Sensors for Robots Sales Market Share by Type (2020-2025)
  2.3.2 Global Magnetic Sensors for Robots Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Magnetic Sensors for Robots Sale Price by Type (2020-2025)
2.4 Magnetic Sensors for Robots Segment by Application
  2.4.1 Industrial Robot
  2.4.2 Service Robot
  2.4.3 Special Robot
  2.4.4 Medical Robot
  2.4.5 Agricultural Robot
2.5 Magnetic Sensors for Robots Sales by Application
  2.5.1 Global Magnetic Sensors for Robots Sale Market Share by Application (2020-2025)

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2.5.2 Global Magnetic Sensors for Robots Revenue and Market Share by Application (2020-2025)
2.5.3 Global Magnetic Sensors for Robots Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Magnetic Sensors for Robots Breakdown Data by Company
3.1.1 Global Magnetic Sensors for Robots Annual Sales by Company (2020-2025)
3.1.2 Global Magnetic Sensors for Robots Sales Market Share by Company (2020-2025)
3.2 Global Magnetic Sensors for Robots Annual Revenue by Company (2020-2025)
3.2.1 Global Magnetic Sensors for Robots Revenue by Company (2020-2025)
3.2.2 Global Magnetic Sensors for Robots Revenue Market Share by Company (2020-2025)
3.3 Global Magnetic Sensors for Robots Sale Price by Company
3.4 Key Manufacturers Magnetic Sensors for Robots Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Magnetic Sensors for Robots Product Location Distribution
3.4.2 Players Magnetic Sensors for Robots Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MAGNETIC SENSORS FOR ROBOTS BY GEOGRAPHIC REGION

4.1 World Historic Magnetic Sensors for Robots Market Size by Geographic Region (2020-2025)
4.1.1 Global Magnetic Sensors for Robots Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Magnetic Sensors for Robots Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Magnetic Sensors for Robots Market Size by Country/Region (2020-2025)
4.2.1 Global Magnetic Sensors for Robots Annual Sales by Country/Region (2020-2025)
4.2.2 Global Magnetic Sensors for Robots Annual Revenue by Country/Region

+357 96 030922
info@marketpublishers.com

(2020-2025)
4.3 Americas Magnetic Sensors for Robots Sales Growth
4.4 APAC Magnetic Sensors for Robots Sales Growth
4.5 Europe Magnetic Sensors for Robots Sales Growth
4.6 Middle East & Africa Magnetic Sensors for Robots Sales Growth

5 AMERICAS

5.1 Americas Magnetic Sensors for Robots Sales by Country
  5.1.1 Americas Magnetic Sensors for Robots Sales by Country (2020-2025)
  5.1.2 Americas Magnetic Sensors for Robots Revenue by Country (2020-2025)
5.2 Americas Magnetic Sensors for Robots Sales by Type (2020-2025)
5.3 Americas Magnetic Sensors for Robots Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Magnetic Sensors for Robots Sales by Region
  6.1.1 APAC Magnetic Sensors for Robots Sales by Region (2020-2025)
  6.1.2 APAC Magnetic Sensors for Robots Revenue by Region (2020-2025)
6.2 APAC Magnetic Sensors for Robots Sales by Type (2020-2025)
6.3 APAC Magnetic Sensors for Robots Sales by Application (2020-2025)
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 Magnetic Sensors for Robots by Country
  7.1.1 Europe Magnetic Sensors for Robots Sales by Country (2020-2025)
  7.1.2 Europe Magnetic Sensors for Robots Revenue by Country (2020-2025)
7.2 Europe Magnetic Sensors for Robots Sales by Type (2020-2025)

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7.3 Europe Magnetic Sensors for Robots Sales 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 Magnetic Sensors for Robots by Country
  8.1.1 Middle East & Africa Magnetic Sensors for Robots Sales by Country (2020-2025)
  8.1.2 Middle East & Africa Magnetic Sensors for Robots Revenue by Country (2020-2025)
8.2 Middle East & Africa Magnetic Sensors for Robots Sales by Type (2020-2025)
8.3 Middle East & Africa Magnetic Sensors for Robots Sales 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 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Magnetic Sensors for Robots
10.3 Manufacturing Process Analysis of Magnetic Sensors for Robots
10.4 Industry Chain Structure of Magnetic Sensors for Robots

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels

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info@marketpublishers.com

11.2 Magnetic Sensors for Robots Distributors
11.3 Magnetic Sensors for Robots Customer

12 WORLD FORECAST REVIEW FOR MAGNETIC SENSORS FOR ROBOTS BY GEOGRAPHIC REGION

12.1 Global Magnetic Sensors for Robots Market Size Forecast by Region
  12.1.1 Global Magnetic Sensors for Robots Forecast by Region (2026-2031)
  12.1.2 Global Magnetic Sensors for Robots Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Magnetic Sensors for Robots Forecast by Type (2026-2031)
12.7 Global Magnetic Sensors for Robots Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Honeywell
  13.1.1 Honeywell Company Information
  13.1.2 Honeywell Magnetic Sensors for Robots Product Portfolios and Specifications
  13.1.3 Honeywell Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
  13.1.4 Honeywell Main Business Overview
  13.1.5 Honeywell Latest Developments
13.2 Analog Devices
  13.2.1 Analog Devices Company Information
  13.2.2 Analog Devices Magnetic Sensors for Robots Product Portfolios and Specifications
  13.2.3 Analog Devices Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
  13.2.4 Analog Devices Main Business Overview
  13.2.5 Analog Devices Latest Developments
13.3 Infineon Technologies
  13.3.1 Infineon Technologies Company Information
  13.3.2 Infineon Technologies Magnetic Sensors for Robots Product Portfolios and Specifications
  13.3.3 Infineon Technologies Magnetic Sensors for Robots Sales, Revenue, Price and

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Gross Margin (2020-2025)
13.3.4 Infineon Technologies Main Business Overview
13.3.5 Infineon Technologies Latest Developments
13.4 Texas Instruments
13.4.1 Texas Instruments Company Information
13.4.2 Texas Instruments Magnetic Sensors for Robots Product Portfolios and Specifications
13.4.3 Texas Instruments Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Texas Instruments Main Business Overview
13.4.5 Texas Instruments Latest Developments
13.5 NXP Semiconductors
13.5.1 NXP Semiconductors Company Information
13.5.2 NXP Semiconductors Magnetic Sensors for Robots Product Portfolios and Specifications
13.5.3 NXP Semiconductors Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 NXP Semiconductors Main Business Overview
13.5.5 NXP Semiconductors Latest Developments
13.6 Allegro MicroSystems
13.6.1 Allegro MicroSystems Company Information
13.6.2 Allegro MicroSystems Magnetic Sensors for Robots Product Portfolios and Specifications
13.6.3 Allegro MicroSystems Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Allegro MicroSystems Main Business Overview
13.6.5 Allegro MicroSystems Latest Developments
13.7 Asahi Kasei Microdevices
13.7.1 Asahi Kasei Microdevices Company Information
13.7.2 Asahi Kasei Microdevices Magnetic Sensors for Robots Product Portfolios and Specifications
13.7.3 Asahi Kasei Microdevices Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Asahi Kasei Microdevices Main Business Overview
13.7.5 Asahi Kasei Microdevices Latest Developments
13.8 TDK
13.8.1 TDK Company Information
13.8.2 TDK Magnetic Sensors for Robots Product Portfolios and Specifications
13.8.3 TDK Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin

+357 96 030922
info@marketpublishers.com

(2020-2025)
13.8.4 TDK Main Business Overview
13.8.5 TDK Latest Developments
13.9 Melexis
13.9.1 Melexis Company Information
13.9.2 Melexis Magnetic Sensors for Robots Product Portfolios and Specifications
13.9.3 Melexis Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 Melexis Main Business Overview
13.9.5 Melexis Latest Developments
13.10 STMicroelectronics
13.10.1 STMicroelectronics Company Information
13.10.2 STMicroelectronics Magnetic Sensors for Robots Product Portfolios and Specifications
13.10.3 STMicroelectronics Magnetic Sensors for Robots Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 STMicroelectronics Main Business Overview
13.10.5 STMicroelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Magnetic Sensors for Robots Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Magnetic Sensors for Robots Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Hall Effect Sensor
Table 4. Major Players of Magnetoresistive Sensor
Table 5. Major Players of Fluxgate Sensor
Table 6. Global Magnetic Sensors for Robots Sales by Type (2020-2025) & (K Units)
Table 7. Global Magnetic Sensors for Robots Sales Market Share by Type (2020-2025)
Table 8. Global Magnetic Sensors for Robots Revenue by Type (2020-2025) & ($ million)
Table 9. Global Magnetic Sensors for Robots Revenue Market Share by Type (2020-2025)
Table 10. Global Magnetic Sensors for Robots Sale Price by Type (2020-2025) & (US$/Unit)
Table 11. Global Magnetic Sensors for Robots Sale by Application (2020-2025) & (K Units)
Table 12. Global Magnetic Sensors for Robots Sale Market Share by Application (2020-2025)
Table 13. Global Magnetic Sensors for Robots Revenue by Application (2020-2025) & ($ million)
Table 14. Global Magnetic Sensors for Robots Revenue Market Share by Application (2020-2025)
Table 15. Global Magnetic Sensors for Robots Sale Price by Application (2020-2025) & (US$/Unit)
Table 16. Global Magnetic Sensors for Robots Sales by Company (2020-2025) & (K Units)
Table 17. Global Magnetic Sensors for Robots Sales Market Share by Company (2020-2025)
Table 18. Global Magnetic Sensors for Robots Revenue by Company (2020-2025) & ($ millions)
Table 19. Global Magnetic Sensors for Robots Revenue Market Share by Company (2020-2025)
Table 20. Global Magnetic Sensors for Robots Sale Price by Company (2020-2025) & (US$/Unit)

+357 96 030922
info@marketpublishers.com

Table 21. Key Manufacturers Magnetic Sensors for Robots Producing Area Distribution and Sales Area
Table 22. Players Magnetic Sensors for Robots Products Offered
Table 23. Magnetic Sensors for Robots Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Magnetic Sensors for Robots Sales by Geographic Region (2020-2025) & (K Units)
Table 27. Global Magnetic Sensors for Robots Sales Market Share Geographic Region (2020-2025)
Table 28. Global Magnetic Sensors for Robots Revenue by Geographic Region (2020-2025) & ($ millions)
Table 29. Global Magnetic Sensors for Robots Revenue Market Share by Geographic Region (2020-2025)
Table 30. Global Magnetic Sensors for Robots Sales by Country/Region (2020-2025) & (K Units)
Table 31. Global Magnetic Sensors for Robots Sales Market Share by Country/Region (2020-2025)
Table 32. Global Magnetic Sensors for Robots Revenue by Country/Region (2020-2025) & ($ millions)
Table 33. Global Magnetic Sensors for Robots Revenue Market Share by Country/Region (2020-2025)
Table 34. Americas Magnetic Sensors for Robots Sales by Country (2020-2025) & (K Units)
Table 35. Americas Magnetic Sensors for Robots Sales Market Share by Country (2020-2025)
Table 36. Americas Magnetic Sensors for Robots Revenue by Country (2020-2025) & ($ millions)
Table 37. Americas Magnetic Sensors for Robots Sales by Type (2020-2025) & (K Units)
Table 38. Americas Magnetic Sensors for Robots Sales by Application (2020-2025) & (K Units)
Table 39. APAC Magnetic Sensors for Robots Sales by Region (2020-2025) & (K Units)
Table 40. APAC Magnetic Sensors for Robots Sales Market Share by Region (2020-2025)
Table 41. APAC Magnetic Sensors for Robots Revenue by Region (2020-2025) & ($ millions)
Table 42. APAC Magnetic Sensors for Robots Sales by Type (2020-2025) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 43. APAC Magnetic Sensors for Robots Sales by Application (2020-2025) & (K Units)
Table 44. Europe Magnetic Sensors for Robots Sales by Country (2020-2025) & (K Units)
Table 45. Europe Magnetic Sensors for Robots Revenue by Country (2020-2025) & ($ millions)
Table 46. Europe Magnetic Sensors for Robots Sales by Type (2020-2025) & (K Units)
Table 47. Europe Magnetic Sensors for Robots Sales by Application (2020-2025) & (K Units)
Table 48. Middle East & Africa Magnetic Sensors for Robots Sales by Country (2020-2025) & (K Units)
Table 49. Middle East & Africa Magnetic Sensors for Robots Revenue Market Share by Country (2020-2025)
Table 50. Middle East & Africa Magnetic Sensors for Robots Sales by Type (2020-2025) & (K Units)
Table 51. Middle East & Africa Magnetic Sensors for Robots Sales by Application (2020-2025) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Magnetic Sensors for Robots
Table 53. Key Market Challenges & Risks of Magnetic Sensors for Robots
Table 54. Key Industry Trends of Magnetic Sensors for Robots
Table 55. Magnetic Sensors for Robots Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Magnetic Sensors for Robots Distributors List
Table 58. Magnetic Sensors for Robots Customer List
Table 59. Global Magnetic Sensors for Robots Sales Forecast by Region (2026-2031) & (K Units)
Table 60. Global Magnetic Sensors for Robots Revenue Forecast by Region (2026-2031) & ($ millions)
Table 61. Americas Magnetic Sensors for Robots Sales Forecast by Country (2026-2031) & (K Units)
Table 62. Americas Magnetic Sensors for Robots Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 63. APAC Magnetic Sensors for Robots Sales Forecast by Region (2026-2031) & (K Units)
Table 64. APAC Magnetic Sensors for Robots Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 65. Europe Magnetic Sensors for Robots Sales Forecast by Country (2026-2031) & (K Units)
Table 66. Europe Magnetic Sensors for Robots Revenue Forecast by Country

+357 96 030922
info@marketpublishers.com

(2026-2031) & ($ millions)
Table 67. Middle East & Africa Magnetic Sensors for Robots Sales Forecast by Country (2026-2031) & (K Units)
Table 68. Middle East & Africa Magnetic Sensors for Robots Revenue Forecast by Country (2026-2031) & ($ millions)
Table 69. Global Magnetic Sensors for Robots Sales Forecast by Type (2026-2031) & (K Units)
Table 70. Global Magnetic Sensors for Robots Revenue Forecast by Type (2026-2031) & ($ millions)
Table 71. Global Magnetic Sensors for Robots Sales Forecast by Application (2026-2031) & (K Units)
Table 72. Global Magnetic Sensors for Robots Revenue Forecast by Application (2026-2031) & ($ millions)
Table 73. Honeywell Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 74. Honeywell Magnetic Sensors for Robots Product Portfolios and Specifications
Table 75. Honeywell Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 76. Honeywell Main Business
Table 77. Honeywell Latest Developments
Table 78. Analog Devices Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 79. Analog Devices Magnetic Sensors for Robots Product Portfolios and Specifications
Table 80. Analog Devices Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 81. Analog Devices Main Business
Table 82. Analog Devices Latest Developments
Table 83. Infineon Technologies Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 84. Infineon Technologies Magnetic Sensors for Robots Product Portfolios and Specifications
Table 85. Infineon Technologies Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 86. Infineon Technologies Main Business
Table 87. Infineon Technologies Latest Developments
Table 88. Texas Instruments Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 89. Texas Instruments Magnetic Sensors for Robots Product Portfolios and

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info@marketpublishers.com

Specifications
Table 90. Texas Instruments Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 91. Texas Instruments Main Business
Table 92. Texas Instruments Latest Developments
Table 93. NXP Semiconductors Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 94. NXP Semiconductors Magnetic Sensors for Robots Product Portfolios and Specifications
Table 95. NXP Semiconductors Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 96. NXP Semiconductors Main Business
Table 97. NXP Semiconductors Latest Developments
Table 98. Allegro MicroSystems Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 99. Allegro MicroSystems Magnetic Sensors for Robots Product Portfolios and Specifications
Table 100. Allegro MicroSystems Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 101. Allegro MicroSystems Main Business
Table 102. Allegro MicroSystems Latest Developments
Table 103. Asahi Kasei Microdevices Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 104. Asahi Kasei Microdevices Magnetic Sensors for Robots Product Portfolios and Specifications
Table 105. Asahi Kasei Microdevices Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 106. Asahi Kasei Microdevices Main Business
Table 107. Asahi Kasei Microdevices Latest Developments
Table 108. TDK Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 109. TDK Magnetic Sensors for Robots Product Portfolios and Specifications
Table 110. TDK Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 111. TDK Main Business
Table 112. TDK Latest Developments
Table 113. Melexis Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 114. Melexis Magnetic Sensors for Robots Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 115. Melexis Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 116. Melexis Main Business
Table 117. Melexis Latest Developments
Table 118. STMicroelectronics Basic Information, Magnetic Sensors for Robots Manufacturing Base, Sales Area and Its Competitors
Table 119. STMicroelectronics Magnetic Sensors for Robots Product Portfolios and Specifications
Table 120. STMicroelectronics Magnetic Sensors for Robots Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 121. STMicroelectronics Main Business
Table 122. STMicroelectronics Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Magnetic Sensors for Robots
Figure 2. Magnetic Sensors for Robots Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Magnetic Sensors for Robots Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Magnetic Sensors for Robots Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Magnetic Sensors for Robots Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Magnetic Sensors for Robots Sales Market Share by Country/Region (2024)
Figure 10. Magnetic Sensors for Robots Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Hall Effect Sensor
Figure 12. Product Picture of Magnetoresistive Sensor
Figure 13. Product Picture of Fluxgate Sensor
Figure 14. Global Magnetic Sensors for Robots Sales Market Share by Type in 2025
Figure 15. Global Magnetic Sensors for Robots Revenue Market Share by Type (2020-2025)
Figure 16. Magnetic Sensors for Robots Consumed in Industrial Robot
Figure 17. Global Magnetic Sensors for Robots Market: Industrial Robot (2020-2025) & (K Units)
Figure 18. Magnetic Sensors for Robots Consumed in Service Robot
Figure 19. Global Magnetic Sensors for Robots Market: Service Robot (2020-2025) & (K Units)
Figure 20. Magnetic Sensors for Robots Consumed in Special Robot
Figure 21. Global Magnetic Sensors for Robots Market: Special Robot (2020-2025) & (K Units)
Figure 22. Magnetic Sensors for Robots Consumed in Medical Robot
Figure 23. Global Magnetic Sensors for Robots Market: Medical Robot (2020-2025) & (K Units)
Figure 24. Magnetic Sensors for Robots Consumed in Agricultural Robot
Figure 25. Global Magnetic Sensors for Robots Market: Agricultural Robot (2020-2025) & (K Units)
Figure 26. Global Magnetic Sensors for Robots Sale Market Share by Application

+357 96 030922
info@marketpublishers.com

(2024)
Figure 27. Global Magnetic Sensors for Robots Revenue Market Share by Application in 2025
Figure 28. Magnetic Sensors for Robots Sales by Company in 2025 (K Units)
Figure 29. Global Magnetic Sensors for Robots Sales Market Share by Company in 2025
Figure 30. Magnetic Sensors for Robots Revenue by Company in 2025 ($ millions)
Figure 31. Global Magnetic Sensors for Robots Revenue Market Share by Company in 2025
Figure 32. Global Magnetic Sensors for Robots Sales Market Share by Geographic Region (2020-2025)
Figure 33. Global Magnetic Sensors for Robots Revenue Market Share by Geographic Region in 2025
Figure 34. Americas Magnetic Sensors for Robots Sales 2020-2025 (K Units)
Figure 35. Americas Magnetic Sensors for Robots Revenue 2020-2025 ($ millions)
Figure 36. APAC Magnetic Sensors for Robots Sales 2020-2025 (K Units)
Figure 37. APAC Magnetic Sensors for Robots Revenue 2020-2025 ($ millions)
Figure 38. Europe Magnetic Sensors for Robots Sales 2020-2025 (K Units)
Figure 39. Europe Magnetic Sensors for Robots Revenue 2020-2025 ($ millions)
Figure 40. Middle East & Africa Magnetic Sensors for Robots Sales 2020-2025 (K Units)
Figure 41. Middle East & Africa Magnetic Sensors for Robots Revenue 2020-2025 ($ millions)
Figure 42. Americas Magnetic Sensors for Robots Sales Market Share by Country in 2025
Figure 43. Americas Magnetic Sensors for Robots Revenue Market Share by Country (2020-2025)
Figure 44. Americas Magnetic Sensors for Robots Sales Market Share by Type (2020-2025)
Figure 45. Americas Magnetic Sensors for Robots Sales Market Share by Application (2020-2025)
Figure 46. United States Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 47. Canada Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 48. Mexico Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 49. Brazil Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 50. APAC Magnetic Sensors for Robots Sales Market Share by Region in 2025
Figure 51. APAC Magnetic Sensors for Robots Revenue Market Share by Region

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(2020-2025)
Figure 52. APAC Magnetic Sensors for Robots Sales Market Share by Type (2020-2025)
Figure 53. APAC Magnetic Sensors for Robots Sales Market Share by Application (2020-2025)
Figure 54. China Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 55. Japan Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 56. South Korea Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 57. Southeast Asia Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 58. India Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 59. Australia Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 60. China Taiwan Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 61. Europe Magnetic Sensors for Robots Sales Market Share by Country in 2025
Figure 62. Europe Magnetic Sensors for Robots Revenue Market Share by Country (2020-2025)
Figure 63. Europe Magnetic Sensors for Robots Sales Market Share by Type (2020-2025)
Figure 64. Europe Magnetic Sensors for Robots Sales Market Share by Application (2020-2025)
Figure 65. Germany Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 66. France Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 67. UK Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 68. Italy Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 69. Russia Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 70. Middle East & Africa Magnetic Sensors for Robots Sales Market Share by Country (2020-2025)
Figure 71. Middle East & Africa Magnetic Sensors for Robots Sales Market Share by Type (2020-2025)
Figure 72. Middle East & Africa Magnetic Sensors for Robots Sales Market Share by Application (2020-2025)
Figure 73. Egypt Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 74. South Africa Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)

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Figure 75. Israel Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 76. Turkey Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 77. GCC Countries Magnetic Sensors for Robots Revenue Growth 2020-2025 ($ millions)
Figure 78. Manufacturing Cost Structure Analysis of Magnetic Sensors for Robots in 2025
Figure 79. Manufacturing Process Analysis of Magnetic Sensors for Robots
Figure 80. Industry Chain Structure of Magnetic Sensors for Robots
Figure 81. Channels of Distribution
Figure 82. Global Magnetic Sensors for Robots Sales Market Forecast by Region (2026-2031)
Figure 83. Global Magnetic Sensors for Robots Revenue Market Share Forecast by Region (2026-2031)
Figure 84. Global Magnetic Sensors for Robots Sales Market Share Forecast by Type (2026-2031)
Figure 85. Global Magnetic Sensors for Robots Revenue Market Share Forecast by Type (2026-2031)
Figure 86. Global Magnetic Sensors for Robots Sales Market Share Forecast by Application (2026-2031)
Figure 87. Global Magnetic Sensors for Robots Revenue Market Share Forecast by Application (2026-2031)

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