

# Global Automobile Magnetic Encoder Market Growth 2024-2030

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## Abstracts

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The basic definition of an encoder is a sensor of mechanical motion which generates digital signals in response to motion. Encoders are able to provide motion control system users with information concerning position, velocity and/or direction.

The automotive industry utilize encoders as sensors of mechanical motion may be applied to controlling speed

The global Automobile Magnetic Encoder market size is projected to grow from US\$ 357.9 million in 2023 to US\$ 616.9 million in 2030; it is expected to grow at a CAGR of 8.1% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Automobile Magnetic Encoder Industry Forecast” looks at past sales and reviews total world Automobile Magnetic Encoder sales in 2023, providing a comprehensive analysis by region and market sector of projected Automobile Magnetic Encoder sales for 2024 through 2030. With Automobile Magnetic Encoder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automobile Magnetic Encoder industry.

This Insight Report provides a comprehensive analysis of the global Automobile Magnetic Encoder 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 Automobile Magnetic Encoder portfolios and capabilities, market entry strategies,

market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automobile Magnetic Encoder market.

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

The automotive encoder market has seen significant growth due to the increasing electrification and automation of vehicles, as well as stricter emissions regulations that require more precise engine control. Here are some key trends in the automotive encoder market:

- 1. Electrification of Vehicles:** The shift towards electric vehicles (EVs) and hybrid electric vehicles (HEVs) is driving the demand for encoders. Encoder technology is crucial for accurate monitoring of motor speeds, position, and other parameters in these vehicles.
- 2. Advanced Driver-Assistance Systems (ADAS)** The proliferation of ADAS features, such as lane keep assist, adaptive cruise control, and autonomous driving systems, requires precise sensor data. Encoders provide the necessary feedback for these systems to function effectively.
- 3. Lightweight and Compact Design:** With the emphasis on fuel efficiency and overall vehicle weight reduction, there is a demand for lightweight and compact encoders that can be integrated into various vehicle components without adding significant weight.
- 4. High-Precision and High-Resolution:** As vehicles become more sophisticated, the need for higher precision and resolution in encoder measurements has increased. This is particularly important for applications such as engine control units (ECUs) and transmission systems.
- 5. Digital Encoder Growth:** Digital encoders, which offer higher noise immunity and easier integration with digital systems, are gaining popularity over traditional analog encoders. The shift towards digital technology in vehicles is driving this trend.
- 6. Encoder Solutions:** The trend towards wireless and networked sensor systems is

prompting the development of wireless encoders. These devices eliminate the need for wiring, making them easier to install and maintain in complex vehicle architectures.

7. **Stricter Emissions and Safety Regulations:** Tighter emissions standards and safety regulations are pushing automakers to use more precise encoders to monitor and control engine operations, ensuring compliance with legal requirements.

8. **Integration of Multiple Sensors:** Modern vehicles are seeing an increase in the integration of multiple sensors for various applications. Encoder manufacturers are working on providing combined solutions or sensors that can serve multiple functions to reduce the number of components required.

9. **Aftermarket Opportunities:** The growing focus on connected cars and vehicle lifecycle management is creating opportunities for encoders in the aftermarket. Repair and maintenance services can benefit from advanced encoder technology for diagnostics and performance monitoring.

10. **Smart Encoder Technologies:** Smart encoders, equipped with advanced features such as diagnostics, self-tuning, and condition monitoring, are becoming more common. These smart encoders can provide valuable data to vehicle manufacturers and owners for improved maintenance and reliability.

Overall, the automotive encoder market is expected to continue growing as vehicles become more automated, electrified, and connected. The trend is towards higher precision, digitalization, wireless connectivity, and smart functionality in encoder solutions.

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

Segmentation by type

Incremental Magnetic Encoder

Absolute Magnetic Encoder

Segmentation by application

Fuel Vehicle

Electric Vehicle

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.

Heidenhain

Dynapar

Tamagawa

Baumer

Pepperl+Fuchs

Renishaw

Broadcom

Sensata Technologies

Freudenberg Sealing Technologies

KACO

Bourns

Balluff

TE Connectivity

Hutchinson

Kubler

TR-Electronic

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Automobile Magnetic Encoder market?

What factors are driving Automobile Magnetic Encoder market growth, globally and by region?

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

How do Automobile Magnetic Encoder market opportunities vary by end market size?

How does Automobile Magnetic Encoder break out type, 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 Automobile Magnetic Encoder Annual Sales 2019-2030
  - 2.1.2 World Current & Future Analysis for Automobile Magnetic Encoder by Geographic Region, 2019, 2023 & 2030
  - 2.1.3 World Current & Future Analysis for Automobile Magnetic Encoder by Country/Region, 2019, 2023 & 2030
- 2.2 Automobile Magnetic Encoder Segment by Type
  - 2.2.1 Incremental Magnetic Encoder
  - 2.2.2 Absolute Magnetic Encoder
- 2.3 Automobile Magnetic Encoder Sales by Type
  - 2.3.1 Global Automobile Magnetic Encoder Sales Market Share by Type (2019-2024)
  - 2.3.2 Global Automobile Magnetic Encoder Revenue and Market Share by Type (2019-2024)
  - 2.3.3 Global Automobile Magnetic Encoder Sale Price by Type (2019-2024)
- 2.4 Automobile Magnetic Encoder Segment by Application
  - 2.4.1 Fuel Vehicle
  - 2.4.2 Electric Vehicle
- 2.5 Automobile Magnetic Encoder Sales by Application
  - 2.5.1 Global Automobile Magnetic Encoder Sale Market Share by Application (2019-2024)
  - 2.5.2 Global Automobile Magnetic Encoder Revenue and Market Share by Application (2019-2024)
  - 2.5.3 Global Automobile Magnetic Encoder Sale Price by Application (2019-2024)

### **3 GLOBAL AUTOMOBILE MAGNETIC ENCODER BY COMPANY**

- 3.1 Global Automobile Magnetic Encoder Breakdown Data by Company
  - 3.1.1 Global Automobile Magnetic Encoder Annual Sales by Company (2019-2024)
  - 3.1.2 Global Automobile Magnetic Encoder Sales Market Share by Company (2019-2024)
- 3.2 Global Automobile Magnetic Encoder Annual Revenue by Company (2019-2024)
  - 3.2.1 Global Automobile Magnetic Encoder Revenue by Company (2019-2024)
  - 3.2.2 Global Automobile Magnetic Encoder Revenue Market Share by Company (2019-2024)
- 3.3 Global Automobile Magnetic Encoder Sale Price by Company
- 3.4 Key Manufacturers Automobile Magnetic Encoder Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers Automobile Magnetic Encoder Product Location Distribution
  - 3.4.2 Players Automobile Magnetic Encoder Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)
- 3.6 New Products and Potential Entrants
- 3.7 Mergers & Acquisitions, Expansion

### **4 WORLD HISTORIC REVIEW FOR AUTOMOBILE MAGNETIC ENCODER BY GEOGRAPHIC REGION**

- 4.1 World Historic Automobile Magnetic Encoder Market Size by Geographic Region (2019-2024)
  - 4.1.1 Global Automobile Magnetic Encoder Annual Sales by Geographic Region (2019-2024)
  - 4.1.2 Global Automobile Magnetic Encoder Annual Revenue by Geographic Region (2019-2024)
- 4.2 World Historic Automobile Magnetic Encoder Market Size by Country/Region (2019-2024)
  - 4.2.1 Global Automobile Magnetic Encoder Annual Sales by Country/Region (2019-2024)
  - 4.2.2 Global Automobile Magnetic Encoder Annual Revenue by Country/Region (2019-2024)
- 4.3 Americas Automobile Magnetic Encoder Sales Growth
- 4.4 APAC Automobile Magnetic Encoder Sales Growth
- 4.5 Europe Automobile Magnetic Encoder Sales Growth



#### 4.6 Middle East & Africa Automobile Magnetic Encoder Sales Growth

### **5 AMERICAS**

#### 5.1 Americas Automobile Magnetic Encoder Sales by Country

##### 5.1.1 Americas Automobile Magnetic Encoder Sales by Country (2019-2024)

##### 5.1.2 Americas Automobile Magnetic Encoder Revenue by Country (2019-2024)

#### 5.2 Americas Automobile Magnetic Encoder Sales by Type

#### 5.3 Americas Automobile Magnetic Encoder Sales by Application

#### 5.4 United States

#### 5.5 Canada

#### 5.6 Mexico

#### 5.7 Brazil

### **6 APAC**

#### 6.1 APAC Automobile Magnetic Encoder Sales by Region

##### 6.1.1 APAC Automobile Magnetic Encoder Sales by Region (2019-2024)

##### 6.1.2 APAC Automobile Magnetic Encoder Revenue by Region (2019-2024)

#### 6.2 APAC Automobile Magnetic Encoder Sales by Type

#### 6.3 APAC Automobile Magnetic Encoder Sales by Application

#### 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 Automobile Magnetic Encoder by Country

##### 7.1.1 Europe Automobile Magnetic Encoder Sales by Country (2019-2024)

##### 7.1.2 Europe Automobile Magnetic Encoder Revenue by Country (2019-2024)

#### 7.2 Europe Automobile Magnetic Encoder Sales by Type

#### 7.3 Europe Automobile Magnetic Encoder Sales by Application

#### 7.4 Germany

#### 7.5 France

#### 7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Automobile Magnetic Encoder by Country

8.1.1 Middle East & Africa Automobile Magnetic Encoder Sales by Country  
(2019-2024)

8.1.2 Middle East & Africa Automobile Magnetic Encoder Revenue by Country  
(2019-2024)

8.2 Middle East & Africa Automobile Magnetic Encoder Sales by Type

8.3 Middle East & Africa Automobile Magnetic Encoder Sales by Application

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 Automobile Magnetic Encoder

10.3 Manufacturing Process Analysis of Automobile Magnetic Encoder

10.4 Industry Chain Structure of Automobile Magnetic Encoder

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Automobile Magnetic Encoder Distributors

11.3 Automobile Magnetic Encoder Customer

## **12 WORLD FORECAST REVIEW FOR AUTOMOBILE MAGNETIC ENCODER BY GEOGRAPHIC REGION**

- 12.1 Global Automobile Magnetic Encoder Market Size Forecast by Region
  - 12.1.1 Global Automobile Magnetic Encoder Forecast by Region (2025-2030)
  - 12.1.2 Global Automobile Magnetic Encoder Annual Revenue Forecast by Region (2025-2030)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Automobile Magnetic Encoder Forecast by Type
- 12.7 Global Automobile Magnetic Encoder Forecast by Application

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Heidenhain
  - 13.1.1 Heidenhain Company Information
  - 13.1.2 Heidenhain Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.1.3 Heidenhain Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.1.4 Heidenhain Main Business Overview
  - 13.1.5 Heidenhain Latest Developments
- 13.2 Dynapar
  - 13.2.1 Dynapar Company Information
  - 13.2.2 Dynapar Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.2.3 Dynapar Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.2.4 Dynapar Main Business Overview
  - 13.2.5 Dynapar Latest Developments
- 13.3 Tamagawa
  - 13.3.1 Tamagawa Company Information
  - 13.3.2 Tamagawa Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.3.3 Tamagawa Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.3.4 Tamagawa Main Business Overview
  - 13.3.5 Tamagawa Latest Developments
- 13.4 Baumer
  - 13.4.1 Baumer Company Information

- 13.4.2 Baumer Automobile Magnetic Encoder Product Portfolios and Specifications
- 13.4.3 Baumer Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.4.4 Baumer Main Business Overview
- 13.4.5 Baumer Latest Developments
- 13.5 Pepperl+Fuchs
  - 13.5.1 Pepperl+Fuchs Company Information
  - 13.5.2 Pepperl+Fuchs Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.5.3 Pepperl+Fuchs Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.5.4 Pepperl+Fuchs Main Business Overview
  - 13.5.5 Pepperl+Fuchs Latest Developments
- 13.6 Renishaw
  - 13.6.1 Renishaw Company Information
  - 13.6.2 Renishaw Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.6.3 Renishaw Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.6.4 Renishaw Main Business Overview
  - 13.6.5 Renishaw Latest Developments
- 13.7 Broadcom
  - 13.7.1 Broadcom Company Information
  - 13.7.2 Broadcom Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.7.3 Broadcom Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.7.4 Broadcom Main Business Overview
  - 13.7.5 Broadcom Latest Developments
- 13.8 Sensata Technologies
  - 13.8.1 Sensata Technologies Company Information
  - 13.8.2 Sensata Technologies Automobile Magnetic Encoder Product Portfolios and Specifications
  - 13.8.3 Sensata Technologies Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.8.4 Sensata Technologies Main Business Overview
  - 13.8.5 Sensata Technologies Latest Developments
- 13.9 Freudenberg Sealing Technologies
  - 13.9.1 Freudenberg Sealing Technologies Company Information
  - 13.9.2 Freudenberg Sealing Technologies Automobile Magnetic Encoder Product Portfolios and Specifications

13.9.3 Freudenberg Sealing Technologies Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.9.4 Freudenberg Sealing Technologies Main Business Overview

13.9.5 Freudenberg Sealing Technologies Latest Developments

13.10 KACO

13.10.1 KACO Company Information

13.10.2 KACO Automobile Magnetic Encoder Product Portfolios and Specifications

13.10.3 KACO Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.10.4 KACO Main Business Overview

13.10.5 KACO Latest Developments

13.11 Bourns

13.11.1 Bourns Company Information

13.11.2 Bourns Automobile Magnetic Encoder Product Portfolios and Specifications

13.11.3 Bourns Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.11.4 Bourns Main Business Overview

13.11.5 Bourns Latest Developments

13.12 Balluff

13.12.1 Balluff Company Information

13.12.2 Balluff Automobile Magnetic Encoder Product Portfolios and Specifications

13.12.3 Balluff Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.12.4 Balluff Main Business Overview

13.12.5 Balluff Latest Developments

13.13 TE Connectivity

13.13.1 TE Connectivity Company Information

13.13.2 TE Connectivity Automobile Magnetic Encoder Product Portfolios and Specifications

13.13.3 TE Connectivity Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.13.4 TE Connectivity Main Business Overview

13.13.5 TE Connectivity Latest Developments

13.14 Hutchinson

13.14.1 Hutchinson Company Information

13.14.2 Hutchinson Automobile Magnetic Encoder Product Portfolios and Specifications

13.14.3 Hutchinson Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.14.4 Hutchinson Main Business Overview

13.14.5 Hutchinson Latest Developments

13.15 Kubler

13.15.1 Kubler Company Information

13.15.2 Kubler Automobile Magnetic Encoder Product Portfolios and Specifications

13.15.3 Kubler Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.15.4 Kubler Main Business Overview

13.15.5 Kubler Latest Developments

13.16 TR-Electronic

13.16.1 TR-Electronic Company Information

13.16.2 TR-Electronic Automobile Magnetic Encoder Product Portfolios and Specifications

13.16.3 TR-Electronic Automobile Magnetic Encoder Sales, Revenue, Price and Gross Margin (2019-2024)

13.16.4 TR-Electronic Main Business Overview

13.16.5 TR-Electronic Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Automobile Magnetic Encoder Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Automobile Magnetic Encoder Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Incremental Magnetic Encoder

Table 4. Major Players of Absolute Magnetic Encoder

Table 5. Global Automobile Magnetic Encoder Sales by Type (2019-2024) & (K Units)

Table 6. Global Automobile Magnetic Encoder Sales Market Share by Type (2019-2024)

Table 7. Global Automobile Magnetic Encoder Revenue by Type (2019-2024) & (\$ million)

Table 8. Global Automobile Magnetic Encoder Revenue Market Share by Type (2019-2024)

Table 9. Global Automobile Magnetic Encoder Sale Price by Type (2019-2024) & (US\$/Unit)

Table 10. Global Automobile Magnetic Encoder Sales by Application (2019-2024) & (K Units)

Table 11. Global Automobile Magnetic Encoder Sales Market Share by Application (2019-2024)

Table 12. Global Automobile Magnetic Encoder Revenue by Application (2019-2024)

Table 13. Global Automobile Magnetic Encoder Revenue Market Share by Application (2019-2024)

Table 14. Global Automobile Magnetic Encoder Sale Price by Application (2019-2024) & (US\$/Unit)

Table 15. Global Automobile Magnetic Encoder Sales by Company (2019-2024) & (K Units)

Table 16. Global Automobile Magnetic Encoder Sales Market Share by Company (2019-2024)

Table 17. Global Automobile Magnetic Encoder Revenue by Company (2019-2024) (\$ Millions)

Table 18. Global Automobile Magnetic Encoder Revenue Market Share by Company (2019-2024)

Table 19. Global Automobile Magnetic Encoder Sale Price by Company (2019-2024) & (US\$/Unit)

Table 20. Key Manufacturers Automobile Magnetic Encoder Producing Area Distribution

and Sales Area

Table 21. Players Automobile Magnetic Encoder Products Offered

Table 22. Automobile Magnetic Encoder Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global Automobile Magnetic Encoder Sales by Geographic Region (2019-2024) & (K Units)

Table 26. Global Automobile Magnetic Encoder Sales Market Share Geographic Region (2019-2024)

Table 27. Global Automobile Magnetic Encoder Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 28. Global Automobile Magnetic Encoder Revenue Market Share by Geographic Region (2019-2024)

Table 29. Global Automobile Magnetic Encoder Sales by Country/Region (2019-2024) & (K Units)

Table 30. Global Automobile Magnetic Encoder Sales Market Share by Country/Region (2019-2024)

Table 31. Global Automobile Magnetic Encoder Revenue by Country/Region (2019-2024) & (\$ millions)

Table 32. Global Automobile Magnetic Encoder Revenue Market Share by Country/Region (2019-2024)

Table 33. Americas Automobile Magnetic Encoder Sales by Country (2019-2024) & (K Units)

Table 34. Americas Automobile Magnetic Encoder Sales Market Share by Country (2019-2024)

Table 35. Americas Automobile Magnetic Encoder Revenue by Country (2019-2024) & (\$ Millions)

Table 36. Americas Automobile Magnetic Encoder Revenue Market Share by Country (2019-2024)

Table 37. Americas Automobile Magnetic Encoder Sales by Type (2019-2024) & (K Units)

Table 38. Americas Automobile Magnetic Encoder Sales by Application (2019-2024) & (K Units)

Table 39. APAC Automobile Magnetic Encoder Sales by Region (2019-2024) & (K Units)

Table 40. APAC Automobile Magnetic Encoder Sales Market Share by Region (2019-2024)

Table 41. APAC Automobile Magnetic Encoder Revenue by Region (2019-2024) & (\$



Millions)

Table 42. APAC Automobile Magnetic Encoder Revenue Market Share by Region (2019-2024)

Table 43. APAC Automobile Magnetic Encoder Sales by Type (2019-2024) & (K Units)

Table 44. APAC Automobile Magnetic Encoder Sales by Application (2019-2024) & (K Units)

Table 45. Europe Automobile Magnetic Encoder Sales by Country (2019-2024) & (K Units)

Table 46. Europe Automobile Magnetic Encoder Sales Market Share by Country (2019-2024)

Table 47. Europe Automobile Magnetic Encoder Revenue by Country (2019-2024) & (\$ Millions)

Table 48. Europe Automobile Magnetic Encoder Revenue Market Share by Country (2019-2024)

Table 49. Europe Automobile Magnetic Encoder Sales by Type (2019-2024) & (K Units)

Table 50. Europe Automobile Magnetic Encoder Sales by Application (2019-2024) & (K Units)

Table 51. Middle East & Africa Automobile Magnetic Encoder Sales by Country (2019-2024) & (K Units)

Table 52. Middle East & Africa Automobile Magnetic Encoder Sales Market Share by Country (2019-2024)

Table 53. Middle East & Africa Automobile Magnetic Encoder Revenue by Country (2019-2024) & (\$ Millions)

Table 54. Middle East & Africa Automobile Magnetic Encoder Revenue Market Share by Country (2019-2024)

Table 55. Middle East & Africa Automobile Magnetic Encoder Sales by Type (2019-2024) & (K Units)

Table 56. Middle East & Africa Automobile Magnetic Encoder Sales by Application (2019-2024) & (K Units)

Table 57. Key Market Drivers & Growth Opportunities of Automobile Magnetic Encoder

Table 58. Key Market Challenges & Risks of Automobile Magnetic Encoder

Table 59. Key Industry Trends of Automobile Magnetic Encoder

Table 60. Automobile Magnetic Encoder Raw Material

Table 61. Key Suppliers of Raw Materials

Table 62. Automobile Magnetic Encoder Distributors List

Table 63. Automobile Magnetic Encoder Customer List

Table 64. Global Automobile Magnetic Encoder Sales Forecast by Region (2025-2030) & (K Units)

Table 65. Global Automobile Magnetic Encoder Revenue Forecast by Region

(2025-2030) & (\$ millions)

Table 66. Americas Automobile Magnetic Encoder Sales Forecast by Country

(2025-2030) & (K Units)

Table 67. Americas Automobile Magnetic Encoder Revenue Forecast by Country

(2025-2030) & (\$ millions)

Table 68. APAC Automobile Magnetic Encoder Sales Forecast by Region (2025-2030)

& (K Units)

Table 69. APAC Automobile Magnetic Encoder Revenue Forecast by Region

(2025-2030) & (\$ millions)

Table 70. Europe Automobile Magnetic Encoder Sales Forecast by Country

(2025-2030) & (K Units)

Table 71. Europe Automobile Magnetic Encoder Revenue Forecast by Country

(2025-2030) & (\$ millions)

Table 72. Middle East & Africa Automobile Magnetic Encoder Sales Forecast by

Country (2025-2030) & (K Units)

Table 73. Middle East & Africa Automobile Magnetic Encoder Revenue Forecast by

Country (2025-2030) & (\$ millions)

Table 74. Global Automobile Magnetic Encoder Sales Forecast by Type (2025-2030) &

(K Units)

Table 75. Global Automobile Magnetic Encoder Revenue Forecast by Type (2025-2030)

& (\$ Millions)

Table 76. Global Automobile Magnetic Encoder Sales Forecast by Application

(2025-2030) & (K Units)

Table 77. Global Automobile Magnetic Encoder Revenue Forecast by Application

(2025-2030) & (\$ Millions)

Table 78. Heidenhain Basic Information, Automobile Magnetic Encoder Manufacturing  
Base, Sales Area and Its Competitors

Table 79. Heidenhain Automobile Magnetic Encoder Product Portfolios and  
Specifications

Table 80. Heidenhain Automobile Magnetic Encoder Sales (K Units), Revenue (\$  
Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 81. Heidenhain Main Business

Table 82. Heidenhain Latest Developments

Table 83. Dynapar Basic Information, Automobile Magnetic Encoder Manufacturing  
Base, Sales Area and Its Competitors

Table 84. Dynapar Automobile Magnetic Encoder Product Portfolios and Specifications

Table 85. Dynapar Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million),  
Price (US\$/Unit) and Gross Margin (2019-2024)

Table 86. Dynapar Main Business

Table 87. Dynapar Latest Developments

Table 88. Tamagawa Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 89. Tamagawa Automobile Magnetic Encoder Product Portfolios and Specifications

Table 90. Tamagawa Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 91. Tamagawa Main Business

Table 92. Tamagawa Latest Developments

Table 93. Baumer Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 94. Baumer Automobile Magnetic Encoder Product Portfolios and Specifications

Table 95. Baumer Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 96. Baumer Main Business

Table 97. Baumer Latest Developments

Table 98. Pepperl+Fuchs Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 99. Pepperl+Fuchs Automobile Magnetic Encoder Product Portfolios and Specifications

Table 100. Pepperl+Fuchs Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 101. Pepperl+Fuchs Main Business

Table 102. Pepperl+Fuchs Latest Developments

Table 103. Renishaw Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 104. Renishaw Automobile Magnetic Encoder Product Portfolios and Specifications

Table 105. Renishaw Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 106. Renishaw Main Business

Table 107. Renishaw Latest Developments

Table 108. Broadcom Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 109. Broadcom Automobile Magnetic Encoder Product Portfolios and Specifications

Table 110. Broadcom Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 111. Broadcom Main Business

Table 112. Broadcom Latest Developments

Table 113. Sensata Technologies Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 114. Sensata Technologies Automobile Magnetic Encoder Product Portfolios and Specifications

Table 115. Sensata Technologies Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 116. Sensata Technologies Main Business

Table 117. Sensata Technologies Latest Developments

Table 118. Freudenberg Sealing Technologies Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 119. Freudenberg Sealing Technologies Automobile Magnetic Encoder Product Portfolios and Specifications

Table 120. Freudenberg Sealing Technologies Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 121. Freudenberg Sealing Technologies Main Business

Table 122. Freudenberg Sealing Technologies Latest Developments

Table 123. KACO Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 124. KACO Automobile Magnetic Encoder Product Portfolios and Specifications

Table 125. KACO Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 126. KACO Main Business

Table 127. KACO Latest Developments

Table 128. Bourns Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 129. Bourns Automobile Magnetic Encoder Product Portfolios and Specifications

Table 130. Bourns Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 131. Bourns Main Business

Table 132. Bourns Latest Developments

Table 133. Balluff Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 134. Balluff Automobile Magnetic Encoder Product Portfolios and Specifications

Table 135. Balluff Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 136. Balluff Main Business

Table 137. Balluff Latest Developments

Table 138. TE Connectivity Basic Information, Automobile Magnetic Encoder

Manufacturing Base, Sales Area and Its Competitors

Table 139. TE Connectivity Automobile Magnetic Encoder Product Portfolios and Specifications

Table 140. TE Connectivity Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 141. TE Connectivity Main Business

Table 142. TE Connectivity Latest Developments

Table 143. Hutchinson Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 144. Hutchinson Automobile Magnetic Encoder Product Portfolios and Specifications

Table 145. Hutchinson Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 146. Hutchinson Main Business

Table 147. Hutchinson Latest Developments

Table 148. Kubler Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 149. Kubler Automobile Magnetic Encoder Product Portfolios and Specifications

Table 150. Kubler Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 151. Kubler Main Business

Table 152. Kubler Latest Developments

Table 153. TR-Electronic Basic Information, Automobile Magnetic Encoder Manufacturing Base, Sales Area and Its Competitors

Table 154. TR-Electronic Automobile Magnetic Encoder Product Portfolios and Specifications

Table 155. TR-Electronic Automobile Magnetic Encoder Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 156. TR-Electronic Main Business

Table 157. TR-Electronic Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Automobile Magnetic Encoder
- Figure 2. Automobile Magnetic Encoder Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Automobile Magnetic Encoder Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global Automobile Magnetic Encoder Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Automobile Magnetic Encoder Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Incremental Magnetic Encoder
- Figure 10. Product Picture of Absolute Magnetic Encoder
- Figure 11. Global Automobile Magnetic Encoder Sales Market Share by Type in 2023
- Figure 12. Global Automobile Magnetic Encoder Revenue Market Share by Type (2019-2024)
- Figure 13. Automobile Magnetic Encoder Consumed in Fuel Vehicle
- Figure 14. Global Automobile Magnetic Encoder Market: Fuel Vehicle (2019-2024) & (K Units)
- Figure 15. Automobile Magnetic Encoder Consumed in Electric Vehicle
- Figure 16. Global Automobile Magnetic Encoder Market: Electric Vehicle (2019-2024) & (K Units)
- Figure 17. Global Automobile Magnetic Encoder Sales Market Share by Application (2023)
- Figure 18. Global Automobile Magnetic Encoder Revenue Market Share by Application in 2023
- Figure 19. Automobile Magnetic Encoder Sales Market by Company in 2023 (K Units)
- Figure 20. Global Automobile Magnetic Encoder Sales Market Share by Company in 2023
- Figure 21. Automobile Magnetic Encoder Revenue Market by Company in 2023 (\$ Million)
- Figure 22. Global Automobile Magnetic Encoder Revenue Market Share by Company in 2023
- Figure 23. Global Automobile Magnetic Encoder Sales Market Share by Geographic Region (2019-2024)
- Figure 24. Global Automobile Magnetic Encoder Revenue Market Share by Geographic

## Region in 2023

Figure 25. Americas Automobile Magnetic Encoder Sales 2019-2024 (K Units)

Figure 26. Americas Automobile Magnetic Encoder Revenue 2019-2024 (\$ Millions)

Figure 27. APAC Automobile Magnetic Encoder Sales 2019-2024 (K Units)

Figure 28. APAC Automobile Magnetic Encoder Revenue 2019-2024 (\$ Millions)

Figure 29. Europe Automobile Magnetic Encoder Sales 2019-2024 (K Units)

Figure 30. Europe Automobile Magnetic Encoder Revenue 2019-2024 (\$ Millions)

Figure 31. Middle East & Africa Automobile Magnetic Encoder Sales 2019-2024 (K Units)

Figure 32. Middle East & Africa Automobile Magnetic Encoder Revenue 2019-2024 (\$ Millions)

Figure 33. Americas Automobile Magnetic Encoder Sales Market Share by Country in 2023

Figure 34. Americas Automobile Magnetic Encoder Revenue Market Share by Country in 2023

Figure 35. Americas Automobile Magnetic Encoder Sales Market Share by Type (2019-2024)

Figure 36. Americas Automobile Magnetic Encoder Sales Market Share by Application (2019-2024)

Figure 37. United States Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 38. Canada Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 39. Mexico Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 40. Brazil Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 41. APAC Automobile Magnetic Encoder Sales Market Share by Region in 2023

Figure 42. APAC Automobile Magnetic Encoder Revenue Market Share by Regions in 2023

Figure 43. APAC Automobile Magnetic Encoder Sales Market Share by Type (2019-2024)

Figure 44. APAC Automobile Magnetic Encoder Sales Market Share by Application (2019-2024)

Figure 45. China Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 46. Japan Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 47. South Korea Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 48. Southeast Asia Automobile Magnetic Encoder Revenue Growth 2019-2024

(\$ Millions)

Figure 49. India Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 50. Australia Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 51. China Taiwan Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 52. Europe Automobile Magnetic Encoder Sales Market Share by Country in 2023

Figure 53. Europe Automobile Magnetic Encoder Revenue Market Share by Country in 2023

Figure 54. Europe Automobile Magnetic Encoder Sales Market Share by Type (2019-2024)

Figure 55. Europe Automobile Magnetic Encoder Sales Market Share by Application (2019-2024)

Figure 56. Germany Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 57. France Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 58. UK Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 59. Italy Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 60. Russia Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 61. Middle East & Africa Automobile Magnetic Encoder Sales Market Share by Country in 2023

Figure 62. Middle East & Africa Automobile Magnetic Encoder Revenue Market Share by Country in 2023

Figure 63. Middle East & Africa Automobile Magnetic Encoder Sales Market Share by Type (2019-2024)

Figure 64. Middle East & Africa Automobile Magnetic Encoder Sales Market Share by Application (2019-2024)

Figure 65. Egypt Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 66. South Africa Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 67. Israel Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 68. Turkey Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 69. GCC Country Automobile Magnetic Encoder Revenue Growth 2019-2024 (\$ Millions)

Figure 70. Manufacturing Cost Structure Analysis of Automobile Magnetic Encoder in



2023

Figure 71. Manufacturing Process Analysis of Automobile Magnetic Encoder

Figure 72. Industry Chain Structure of Automobile Magnetic Encoder

Figure 73. Channels of Distribution

Figure 74. Global Automobile Magnetic Encoder Sales Market Forecast by Region (2025-2030)

Figure 75. Global Automobile Magnetic Encoder Revenue Market Share Forecast by Region (2025-2030)

Figure 76. Global Automobile Magnetic Encoder Sales Market Share Forecast by Type (2025-2030)

Figure 77. Global Automobile Magnetic Encoder Revenue Market Share Forecast by Type (2025-2030)

Figure 78. Global Automobile Magnetic Encoder Sales Market Share Forecast by Application (2025-2030)

Figure 79. Global Automobile Magnetic Encoder Revenue Market Share Forecast by Application (2025-2030)

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