

# Global Automobile Magnetic Encoder Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GD81CE0BFCCFEN.html>

Date: April 2024

Pages: 131

Price: US\$ 3,480.00 (Single User License)

ID: GD81CE0BFCCFEN

## Abstracts

According to our (Global Info Research) latest study, the global Automobile Magnetic Encoder market size was valued at USD 376.4 million in 2023 and is forecast to a readjusted size of USD 623 million by 2030 with a CAGR of 7.5% during review period.

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 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.

The Global Info Research report includes an overview of the development of the Automobile Magnetic Encoder industry chain, the market status of Fuel Vehicle (Incremental Magnetic Encoder, Absolute Magnetic Encoder), Electric Vehicle (Incremental Magnetic Encoder, Absolute Magnetic Encoder), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automobile Magnetic Encoder.

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

#### Key Features:

The report presents comprehensive understanding of the Automobile Magnetic Encoder market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Automobile Magnetic Encoder industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Incremental Magnetic Encoder, Absolute Magnetic Encoder).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Automobile Magnetic Encoder market.

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

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Automobile Magnetic Encoder market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Automobile Magnetic Encoder:

**Company Analysis:** Report covers individual Automobile Magnetic Encoder manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Automobile Magnetic Encoder. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Fuel Vehicle, Electric Vehicle).

**Technology Analysis:** Report covers specific technologies relevant to Automobile Magnetic Encoder. It assesses the current state, advancements, and potential future developments in Automobile Magnetic Encoder areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Automobile Magnetic Encoder market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

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

## Market Segmentation

Automobile Magnetic Encoder market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

### Incremental Magnetic Encoder

## Absolute Magnetic Encoder

### Market segment by Application

Fuel Vehicle

Electric Vehicle

### Major players covered

Heidenhain

Dynapar

Tamagawa

Baumer

Pepperl+Fuchs

Renishaw

Broadcom

Sensata Technologies

Freudenberg Sealing Technologies

KACO

Bourns

Balluff

TE Connectivity

Hutchinson

Kubler

TR-Electronic

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automobile Magnetic Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automobile Magnetic Encoder, with price, sales, revenue and global market share of Automobile Magnetic Encoder from 2019 to 2024.

Chapter 3, the Automobile Magnetic Encoder competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automobile Magnetic Encoder breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Automobile Magnetic Encoder market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automobile Magnetic Encoder.

Chapter 14 and 15, to describe Automobile Magnetic Encoder sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Automobile Magnetic Encoder
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Automobile Magnetic Encoder Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 Incremental Magnetic Encoder
  - 1.3.3 Absolute Magnetic Encoder
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Automobile Magnetic Encoder Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Fuel Vehicle
  - 1.4.3 Electric Vehicle
- 1.5 Global Automobile Magnetic Encoder Market Size & Forecast
  - 1.5.1 Global Automobile Magnetic Encoder Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Automobile Magnetic Encoder Sales Quantity (2019-2030)
  - 1.5.3 Global Automobile Magnetic Encoder Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 Heidenhain
  - 2.1.1 Heidenhain Details
  - 2.1.2 Heidenhain Major Business
  - 2.1.3 Heidenhain Automobile Magnetic Encoder Product and Services
  - 2.1.4 Heidenhain Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 Heidenhain Recent Developments/Updates
- 2.2 Dynapar
  - 2.2.1 Dynapar Details
  - 2.2.2 Dynapar Major Business
  - 2.2.3 Dynapar Automobile Magnetic Encoder Product and Services
  - 2.2.4 Dynapar Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.2.5 Dynapar Recent Developments/Updates
- 2.3 Tamagawa
  - 2.3.1 Tamagawa Details



- 2.3.2 Tamagawa Major Business
- 2.3.3 Tamagawa Automobile Magnetic Encoder Product and Services
- 2.3.4 Tamagawa Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.3.5 Tamagawa Recent Developments/Updates
- 2.4 Baumer
  - 2.4.1 Baumer Details
  - 2.4.2 Baumer Major Business
  - 2.4.3 Baumer Automobile Magnetic Encoder Product and Services
  - 2.4.4 Baumer Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 Baumer Recent Developments/Updates
- 2.5 Pepperl+Fuchs
  - 2.5.1 Pepperl+Fuchs Details
  - 2.5.2 Pepperl+Fuchs Major Business
  - 2.5.3 Pepperl+Fuchs Automobile Magnetic Encoder Product and Services
  - 2.5.4 Pepperl+Fuchs Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 Pepperl+Fuchs Recent Developments/Updates
- 2.6 Renishaw
  - 2.6.1 Renishaw Details
  - 2.6.2 Renishaw Major Business
  - 2.6.3 Renishaw Automobile Magnetic Encoder Product and Services
  - 2.6.4 Renishaw Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 Renishaw Recent Developments/Updates
- 2.7 Broadcom
  - 2.7.1 Broadcom Details
  - 2.7.2 Broadcom Major Business
  - 2.7.3 Broadcom Automobile Magnetic Encoder Product and Services
  - 2.7.4 Broadcom Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.7.5 Broadcom Recent Developments/Updates
- 2.8 Sensata Technologies
  - 2.8.1 Sensata Technologies Details
  - 2.8.2 Sensata Technologies Major Business
  - 2.8.3 Sensata Technologies Automobile Magnetic Encoder Product and Services
  - 2.8.4 Sensata Technologies Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.8.5 Sensata Technologies Recent Developments/Updates
- 2.9 Freudenberg Sealing Technologies
  - 2.9.1 Freudenberg Sealing Technologies Details
  - 2.9.2 Freudenberg Sealing Technologies Major Business
  - 2.9.3 Freudenberg Sealing Technologies Automobile Magnetic Encoder Product and Services
  - 2.9.4 Freudenberg Sealing Technologies Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 Freudenberg Sealing Technologies Recent Developments/Updates
- 2.10 KACO
  - 2.10.1 KACO Details
  - 2.10.2 KACO Major Business
  - 2.10.3 KACO Automobile Magnetic Encoder Product and Services
  - 2.10.4 KACO Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.10.5 KACO Recent Developments/Updates
- 2.11 Bourns
  - 2.11.1 Bourns Details
  - 2.11.2 Bourns Major Business
  - 2.11.3 Bourns Automobile Magnetic Encoder Product and Services
  - 2.11.4 Bourns Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.11.5 Bourns Recent Developments/Updates
- 2.12 Balluff
  - 2.12.1 Balluff Details
  - 2.12.2 Balluff Major Business
  - 2.12.3 Balluff Automobile Magnetic Encoder Product and Services
  - 2.12.4 Balluff Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.12.5 Balluff Recent Developments/Updates
- 2.13 TE Connectivity
  - 2.13.1 TE Connectivity Details
  - 2.13.2 TE Connectivity Major Business
  - 2.13.3 TE Connectivity Automobile Magnetic Encoder Product and Services
  - 2.13.4 TE Connectivity Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.13.5 TE Connectivity Recent Developments/Updates
- 2.14 Hutchinson
  - 2.14.1 Hutchinson Details

- 2.14.2 Hutchinson Major Business
- 2.14.3 Hutchinson Automobile Magnetic Encoder Product and Services
- 2.14.4 Hutchinson Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.14.5 Hutchinson Recent Developments/Updates
- 2.15 Kubler
  - 2.15.1 Kubler Details
  - 2.15.2 Kubler Major Business
  - 2.15.3 Kubler Automobile Magnetic Encoder Product and Services
  - 2.15.4 Kubler Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.15.5 Kubler Recent Developments/Updates
- 2.16 TR-Electronic
  - 2.16.1 TR-Electronic Details
  - 2.16.2 TR-Electronic Major Business
  - 2.16.3 TR-Electronic Automobile Magnetic Encoder Product and Services
  - 2.16.4 TR-Electronic Automobile Magnetic Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.16.5 TR-Electronic Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: AUTOMOBILE MAGNETIC ENCODER BY MANUFACTURER**

- 3.1 Global Automobile Magnetic Encoder Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Automobile Magnetic Encoder Revenue by Manufacturer (2019-2024)
- 3.3 Global Automobile Magnetic Encoder Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of Automobile Magnetic Encoder by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 Automobile Magnetic Encoder Manufacturer Market Share in 2023
  - 3.4.2 Top 6 Automobile Magnetic Encoder Manufacturer Market Share in 2023
- 3.5 Automobile Magnetic Encoder Market: Overall Company Footprint Analysis
  - 3.5.1 Automobile Magnetic Encoder Market: Region Footprint
  - 3.5.2 Automobile Magnetic Encoder Market: Company Product Type Footprint
  - 3.5.3 Automobile Magnetic Encoder Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

#### 4.1 Global Automobile Magnetic Encoder Market Size by Region

4.1.1 Global Automobile Magnetic Encoder Sales Quantity by Region (2019-2030)

4.1.2 Global Automobile Magnetic Encoder Consumption Value by Region (2019-2030)

4.1.3 Global Automobile Magnetic Encoder Average Price by Region (2019-2030)

4.2 North America Automobile Magnetic Encoder Consumption Value (2019-2030)

4.3 Europe Automobile Magnetic Encoder Consumption Value (2019-2030)

4.4 Asia-Pacific Automobile Magnetic Encoder Consumption Value (2019-2030)

4.5 South America Automobile Magnetic Encoder Consumption Value (2019-2030)

4.6 Middle East and Africa Automobile Magnetic Encoder Consumption Value (2019-2030)

### 5 MARKET SEGMENT BY TYPE

5.1 Global Automobile Magnetic Encoder Sales Quantity by Type (2019-2030)

5.2 Global Automobile Magnetic Encoder Consumption Value by Type (2019-2030)

5.3 Global Automobile Magnetic Encoder Average Price by Type (2019-2030)

### 6 MARKET SEGMENT BY APPLICATION

6.1 Global Automobile Magnetic Encoder Sales Quantity by Application (2019-2030)

6.2 Global Automobile Magnetic Encoder Consumption Value by Application (2019-2030)

6.3 Global Automobile Magnetic Encoder Average Price by Application (2019-2030)

### 7 NORTH AMERICA

7.1 North America Automobile Magnetic Encoder Sales Quantity by Type (2019-2030)

7.2 North America Automobile Magnetic Encoder Sales Quantity by Application (2019-2030)

7.3 North America Automobile Magnetic Encoder Market Size by Country

7.3.1 North America Automobile Magnetic Encoder Sales Quantity by Country (2019-2030)

7.3.2 North America Automobile Magnetic Encoder Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe Automobile Magnetic Encoder Sales Quantity by Type (2019-2030)
- 8.2 Europe Automobile Magnetic Encoder Sales Quantity by Application (2019-2030)
- 8.3 Europe Automobile Magnetic Encoder Market Size by Country
  - 8.3.1 Europe Automobile Magnetic Encoder Sales Quantity by Country (2019-2030)
  - 8.3.2 Europe Automobile Magnetic Encoder Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
  - 8.3.4 France Market Size and Forecast (2019-2030)
  - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
  - 8.3.6 Russia Market Size and Forecast (2019-2030)
  - 8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Automobile Magnetic Encoder Market Size by Region
  - 9.3.1 Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Region (2019-2030)
  - 9.3.2 Asia-Pacific Automobile Magnetic Encoder Consumption Value by Region (2019-2030)
  - 9.3.3 China Market Size and Forecast (2019-2030)
  - 9.3.4 Japan Market Size and Forecast (2019-2030)
  - 9.3.5 Korea Market Size and Forecast (2019-2030)
  - 9.3.6 India Market Size and Forecast (2019-2030)
  - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
  - 9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

- 10.1 South America Automobile Magnetic Encoder Sales Quantity by Type (2019-2030)
- 10.2 South America Automobile Magnetic Encoder Sales Quantity by Application (2019-2030)
- 10.3 South America Automobile Magnetic Encoder Market Size by Country
  - 10.3.1 South America Automobile Magnetic Encoder Sales Quantity by Country

(2019-2030)

10.3.2 South America Automobile Magnetic Encoder Consumption Value by Country

(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Type

(2019-2030)

11.2 Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Application

(2019-2030)

11.3 Middle East & Africa Automobile Magnetic Encoder Market Size by Country

11.3.1 Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Country

(2019-2030)

11.3.2 Middle East & Africa Automobile Magnetic Encoder Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

12.1 Automobile Magnetic Encoder Market Drivers

12.2 Automobile Magnetic Encoder Market Restraints

12.3 Automobile Magnetic Encoder Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Automobile Magnetic Encoder and Key Manufacturers

13.2 Manufacturing Costs Percentage of Automobile Magnetic Encoder

13.3 Automobile Magnetic Encoder Production Process

13.4 Automobile Magnetic Encoder Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Automobile Magnetic Encoder Typical Distributors

14.3 Automobile Magnetic Encoder Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Automobile Magnetic Encoder Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Automobile Magnetic Encoder Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Heidenhain Basic Information, Manufacturing Base and Competitors

Table 4. Heidenhain Major Business

Table 5. Heidenhain Automobile Magnetic Encoder Product and Services

Table 6. Heidenhain Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Heidenhain Recent Developments/Updates

Table 8. Dynapar Basic Information, Manufacturing Base and Competitors

Table 9. Dynapar Major Business

Table 10. Dynapar Automobile Magnetic Encoder Product and Services

Table 11. Dynapar Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Dynapar Recent Developments/Updates

Table 13. Tamagawa Basic Information, Manufacturing Base and Competitors

Table 14. Tamagawa Major Business

Table 15. Tamagawa Automobile Magnetic Encoder Product and Services

Table 16. Tamagawa Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Tamagawa Recent Developments/Updates

Table 18. Baumer Basic Information, Manufacturing Base and Competitors

Table 19. Baumer Major Business

Table 20. Baumer Automobile Magnetic Encoder Product and Services

Table 21. Baumer Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Baumer Recent Developments/Updates

Table 23. Pepperl+Fuchs Basic Information, Manufacturing Base and Competitors

Table 24. Pepperl+Fuchs Major Business

Table 25. Pepperl+Fuchs Automobile Magnetic Encoder Product and Services

Table 26. Pepperl+Fuchs Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Pepperl+Fuchs Recent Developments/Updates



- Table 28. Renishaw Basic Information, Manufacturing Base and Competitors
- Table 29. Renishaw Major Business
- Table 30. Renishaw Automobile Magnetic Encoder Product and Services
- Table 31. Renishaw Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. Renishaw Recent Developments/Updates
- Table 33. Broadcom Basic Information, Manufacturing Base and Competitors
- Table 34. Broadcom Major Business
- Table 35. Broadcom Automobile Magnetic Encoder Product and Services
- Table 36. Broadcom Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Broadcom Recent Developments/Updates
- Table 38. Sensata Technologies Basic Information, Manufacturing Base and Competitors
- Table 39. Sensata Technologies Major Business
- Table 40. Sensata Technologies Automobile Magnetic Encoder Product and Services
- Table 41. Sensata Technologies Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. Sensata Technologies Recent Developments/Updates
- Table 43. Freudenberg Sealing Technologies Basic Information, Manufacturing Base and Competitors
- Table 44. Freudenberg Sealing Technologies Major Business
- Table 45. Freudenberg Sealing Technologies Automobile Magnetic Encoder Product and Services
- Table 46. Freudenberg Sealing Technologies Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. Freudenberg Sealing Technologies Recent Developments/Updates
- Table 48. KACO Basic Information, Manufacturing Base and Competitors
- Table 49. KACO Major Business
- Table 50. KACO Automobile Magnetic Encoder Product and Services
- Table 51. KACO Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. KACO Recent Developments/Updates
- Table 53. Bourns Basic Information, Manufacturing Base and Competitors
- Table 54. Bourns Major Business
- Table 55. Bourns Automobile Magnetic Encoder Product and Services
- Table 56. Bourns Automobile Magnetic Encoder Sales Quantity (K Units), Average

- Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. Bourns Recent Developments/Updates
- Table 58. Balluff Basic Information, Manufacturing Base and Competitors
- Table 59. Balluff Major Business
- Table 60. Balluff Automobile Magnetic Encoder Product and Services
- Table 61. Balluff Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 62. Balluff Recent Developments/Updates
- Table 63. TE Connectivity Basic Information, Manufacturing Base and Competitors
- Table 64. TE Connectivity Major Business
- Table 65. TE Connectivity Automobile Magnetic Encoder Product and Services
- Table 66. TE Connectivity Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 67. TE Connectivity Recent Developments/Updates
- Table 68. Hutchinson Basic Information, Manufacturing Base and Competitors
- Table 69. Hutchinson Major Business
- Table 70. Hutchinson Automobile Magnetic Encoder Product and Services
- Table 71. Hutchinson Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 72. Hutchinson Recent Developments/Updates
- Table 73. Kubler Basic Information, Manufacturing Base and Competitors
- Table 74. Kubler Major Business
- Table 75. Kubler Automobile Magnetic Encoder Product and Services
- Table 76. Kubler Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 77. Kubler Recent Developments/Updates
- Table 78. TR-Electronic Basic Information, Manufacturing Base and Competitors
- Table 79. TR-Electronic Major Business
- Table 80. TR-Electronic Automobile Magnetic Encoder Product and Services
- Table 81. TR-Electronic Automobile Magnetic Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 82. TR-Electronic Recent Developments/Updates
- Table 83. Global Automobile Magnetic Encoder Sales Quantity by Manufacturer (2019-2024) & (K Units)
- Table 84. Global Automobile Magnetic Encoder Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 85. Global Automobile Magnetic Encoder Average Price by Manufacturer

(2019-2024) & (US\$/Unit)

Table 86. Market Position of Manufacturers in Automobile Magnetic Encoder, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 87. Head Office and Automobile Magnetic Encoder Production Site of Key Manufacturer

Table 88. Automobile Magnetic Encoder Market: Company Product Type Footprint

Table 89. Automobile Magnetic Encoder Market: Company Product Application Footprint

Table 90. Automobile Magnetic Encoder New Market Entrants and Barriers to Market Entry

Table 91. Automobile Magnetic Encoder Mergers, Acquisition, Agreements, and Collaborations

Table 92. Global Automobile Magnetic Encoder Sales Quantity by Region (2019-2024) & (K Units)

Table 93. Global Automobile Magnetic Encoder Sales Quantity by Region (2025-2030) & (K Units)

Table 94. Global Automobile Magnetic Encoder Consumption Value by Region (2019-2024) & (USD Million)

Table 95. Global Automobile Magnetic Encoder Consumption Value by Region (2025-2030) & (USD Million)

Table 96. Global Automobile Magnetic Encoder Average Price by Region (2019-2024) & (US\$/Unit)

Table 97. Global Automobile Magnetic Encoder Average Price by Region (2025-2030) & (US\$/Unit)

Table 98. Global Automobile Magnetic Encoder Sales Quantity by Type (2019-2024) & (K Units)

Table 99. Global Automobile Magnetic Encoder Sales Quantity by Type (2025-2030) & (K Units)

Table 100. Global Automobile Magnetic Encoder Consumption Value by Type (2019-2024) & (USD Million)

Table 101. Global Automobile Magnetic Encoder Consumption Value by Type (2025-2030) & (USD Million)

Table 102. Global Automobile Magnetic Encoder Average Price by Type (2019-2024) & (US\$/Unit)

Table 103. Global Automobile Magnetic Encoder Average Price by Type (2025-2030) & (US\$/Unit)

Table 104. Global Automobile Magnetic Encoder Sales Quantity by Application (2019-2024) & (K Units)

Table 105. Global Automobile Magnetic Encoder Sales Quantity by Application

(2025-2030) & (K Units)

Table 106. Global Automobile Magnetic Encoder Consumption Value by Application (2019-2024) & (USD Million)

Table 107. Global Automobile Magnetic Encoder Consumption Value by Application (2025-2030) & (USD Million)

Table 108. Global Automobile Magnetic Encoder Average Price by Application (2019-2024) & (US\$/Unit)

Table 109. Global Automobile Magnetic Encoder Average Price by Application (2025-2030) & (US\$/Unit)

Table 110. North America Automobile Magnetic Encoder Sales Quantity by Type (2019-2024) & (K Units)

Table 111. North America Automobile Magnetic Encoder Sales Quantity by Type (2025-2030) & (K Units)

Table 112. North America Automobile Magnetic Encoder Sales Quantity by Application (2019-2024) & (K Units)

Table 113. North America Automobile Magnetic Encoder Sales Quantity by Application (2025-2030) & (K Units)

Table 114. North America Automobile Magnetic Encoder Sales Quantity by Country (2019-2024) & (K Units)

Table 115. North America Automobile Magnetic Encoder Sales Quantity by Country (2025-2030) & (K Units)

Table 116. North America Automobile Magnetic Encoder Consumption Value by Country (2019-2024) & (USD Million)

Table 117. North America Automobile Magnetic Encoder Consumption Value by Country (2025-2030) & (USD Million)

Table 118. Europe Automobile Magnetic Encoder Sales Quantity by Type (2019-2024) & (K Units)

Table 119. Europe Automobile Magnetic Encoder Sales Quantity by Type (2025-2030) & (K Units)

Table 120. Europe Automobile Magnetic Encoder Sales Quantity by Application (2019-2024) & (K Units)

Table 121. Europe Automobile Magnetic Encoder Sales Quantity by Application (2025-2030) & (K Units)

Table 122. Europe Automobile Magnetic Encoder Sales Quantity by Country (2019-2024) & (K Units)

Table 123. Europe Automobile Magnetic Encoder Sales Quantity by Country (2025-2030) & (K Units)

Table 124. Europe Automobile Magnetic Encoder Consumption Value by Country (2019-2024) & (USD Million)

Table 125. Europe Automobile Magnetic Encoder Consumption Value by Country (2025-2030) & (USD Million)

Table 126. Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Type (2019-2024) & (K Units)

Table 127. Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Type (2025-2030) & (K Units)

Table 128. Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Application (2019-2024) & (K Units)

Table 129. Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Application (2025-2030) & (K Units)

Table 130. Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Region (2019-2024) & (K Units)

Table 131. Asia-Pacific Automobile Magnetic Encoder Sales Quantity by Region (2025-2030) & (K Units)

Table 132. Asia-Pacific Automobile Magnetic Encoder Consumption Value by Region (2019-2024) & (USD Million)

Table 133. Asia-Pacific Automobile Magnetic Encoder Consumption Value by Region (2025-2030) & (USD Million)

Table 134. South America Automobile Magnetic Encoder Sales Quantity by Type (2019-2024) & (K Units)

Table 135. South America Automobile Magnetic Encoder Sales Quantity by Type (2025-2030) & (K Units)

Table 136. South America Automobile Magnetic Encoder Sales Quantity by Application (2019-2024) & (K Units)

Table 137. South America Automobile Magnetic Encoder Sales Quantity by Application (2025-2030) & (K Units)

Table 138. South America Automobile Magnetic Encoder Sales Quantity by Country (2019-2024) & (K Units)

Table 139. South America Automobile Magnetic Encoder Sales Quantity by Country (2025-2030) & (K Units)

Table 140. South America Automobile Magnetic Encoder Consumption Value by Country (2019-2024) & (USD Million)

Table 141. South America Automobile Magnetic Encoder Consumption Value by Country (2025-2030) & (USD Million)

Table 142. Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Type (2019-2024) & (K Units)

Table 143. Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Type (2025-2030) & (K Units)

Table 144. Middle East & Africa Automobile Magnetic Encoder Sales Quantity by

Application (2019-2024) & (K Units)

Table 145. Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Application (2025-2030) & (K Units)

Table 146. Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Region (2019-2024) & (K Units)

Table 147. Middle East & Africa Automobile Magnetic Encoder Sales Quantity by Region (2025-2030) & (K Units)

Table 148. Middle East & Africa Automobile Magnetic Encoder Consumption Value by Region (2019-2024) & (USD Million)

Table 149. Middle East & Africa Automobile Magnetic Encoder Consumption Value by Region (2025-2030) & (USD Million)

Table 150. Automobile Magnetic Encoder Raw Material

Table 151. Key Manufacturers of Automobile Magnetic Encoder Raw Materials

Table 152. Automobile Magnetic Encoder Typical Distributors

Table 153. Automobile Magnetic Encoder Typical Customers

## LIST OF FIGURES

s

Figure 1. Automobile Magnetic Encoder Picture

Figure 2. Global Automobile Magnetic Encoder Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Automobile Magnetic Encoder Consumption Value Market Share by Type in 2023

Figure 4. Incremental Magnetic Encoder Examples

Figure 5. Absolute Magnetic Encoder Examples

Figure 6. Global Automobile Magnetic Encoder Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global Automobile Magnetic Encoder Consumption Value Market Share by Application in 2023

Figure 8. Fuel Vehicle Examples

Figure 9. Electric Vehicle Examples

Figure 10. Global Automobile Magnetic Encoder Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 11. Global Automobile Magnetic Encoder Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 12. Global Automobile Magnetic Encoder Sales Quantity (2019-2030) & (K Units)

Figure 13. Global Automobile Magnetic Encoder Average Price (2019-2030) & (US\$/Unit)

Figure 14. Global Automobile Magnetic Encoder Sales Quantity Market Share by

Manufacturer in 2023

Figure 15. Global Automobile Magnetic Encoder Consumption Value Market Share by Manufacturer in 2023

Figure 16. Producer Shipments of Automobile Magnetic Encoder by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 17. Top 3 Automobile Magnetic Encoder Manufacturer (Consumption Value) Market Share in 2023

Figure 18. Top 6 Automobile Magnetic Encoder Manufacturer (Consumption Value) Market Share in 2023

Figure 19. Global Automobile Magnetic Encoder Sales Quantity Market Share by Region (2019-2030)

Figure 20. Global Automobile Magnetic Encoder Consumption Value Market Share by Region (2019-2030)

Figure 21. North America Automobile Magnetic Encoder Consumption Value (2019-2030) & (USD Million)

Figure 22. Europe Automobile Magnetic Encoder Consumption Value (2019-2030) & (USD Million)

Figure 23. Asia-Pacific Automobile Magnetic Encoder Consumption Value (2019-2030) & (USD Million)

Figure 24. South America Automobile Magnetic Encoder Consumption Value (2019-2030) & (USD Million)

Figure 25. Middle East & Africa Automobile Magnetic Encoder Consumption Value (2019-2030) & (USD Million)

Figure 26. Global Automobile Magnetic Encoder Sales Quantity Market Share by Type (2019-2030)

Figure 27. Global Automobile Magnetic Encoder Consumption Value Market Share by Type (2019-2030)

Figure 28. Global Automobile Magnetic Encoder Average Price by Type (2019-2030) & (US\$/Unit)

Figure 29. Global Automobile Magnetic Encoder Sales Quantity Market Share by Application (2019-2030)

Figure 30. Global Automobile Magnetic Encoder Consumption Value Market Share by Application (2019-2030)

Figure 31. Global Automobile Magnetic Encoder Average Price by Application (2019-2030) & (US\$/Unit)

Figure 32. North America Automobile Magnetic Encoder Sales Quantity Market Share by Type (2019-2030)

Figure 33. North America Automobile Magnetic Encoder Sales Quantity Market Share by Application (2019-2030)

Figure 34. North America Automobile Magnetic Encoder Sales Quantity Market Share by Country (2019-2030)

Figure 35. North America Automobile Magnetic Encoder Consumption Value Market Share by Country (2019-2030)

Figure 36. United States Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 37. Canada Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 38. Mexico Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Europe Automobile Magnetic Encoder Sales Quantity Market Share by Type (2019-2030)

Figure 40. Europe Automobile Magnetic Encoder Sales Quantity Market Share by Application (2019-2030)

Figure 41. Europe Automobile Magnetic Encoder Sales Quantity Market Share by Country (2019-2030)

Figure 42. Europe Automobile Magnetic Encoder Consumption Value Market Share by Country (2019-2030)

Figure 43. Germany Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. France Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. United Kingdom Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. Russia Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. Italy Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Asia-Pacific Automobile Magnetic Encoder Sales Quantity Market Share by Type (2019-2030)

Figure 49. Asia-Pacific Automobile Magnetic Encoder Sales Quantity Market Share by Application (2019-2030)

Figure 50. Asia-Pacific Automobile Magnetic Encoder Sales Quantity Market Share by Region (2019-2030)

Figure 51. Asia-Pacific Automobile Magnetic Encoder Consumption Value Market Share by Region (2019-2030)

Figure 52. China Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Japan Automobile Magnetic Encoder Consumption Value and Growth Rate



(2019-2030) & (USD Million)

Figure 54. Korea Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. India Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Southeast Asia Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Australia Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. South America Automobile Magnetic Encoder Sales Quantity Market Share by Type (2019-2030)

Figure 59. South America Automobile Magnetic Encoder Sales Quantity Market Share by Application (2019-2030)

Figure 60. South America Automobile Magnetic Encoder Sales Quantity Market Share by Country (2019-2030)

Figure 61. South America Automobile Magnetic Encoder Consumption Value Market Share by Country (2019-2030)

Figure 62. Brazil Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Argentina Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. Middle East & Africa Automobile Magnetic Encoder Sales Quantity Market Share by Type (2019-2030)

Figure 65. Middle East & Africa Automobile Magnetic Encoder Sales Quantity Market Share by Application (2019-2030)

Figure 66. Middle East & Africa Automobile Magnetic Encoder Sales Quantity Market Share by Region (2019-2030)

Figure 67. Middle East & Africa Automobile Magnetic Encoder Consumption Value Market Share by Region (2019-2030)

Figure 68. Turkey Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 69. Egypt Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Saudi Arabia Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. South Africa Automobile Magnetic Encoder Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Automobile Magnetic Encoder Market Drivers

Figure 73. Automobile Magnetic Encoder Market Restraints

Figure 74. Automobile Magnetic Encoder Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of Automobile Magnetic Encoder in 2023

Figure 77. Manufacturing Process Analysis of Automobile Magnetic Encoder

Figure 78. Automobile Magnetic Encoder Industrial Chain

Figure 79. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source

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