

Global AMR Magnetic Encoder Chips Market Growth 2026-2032

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Abstracts

The global AMR Magnetic Encoder Chips market size is predicted to grow from US\$ 194 million in 2025 to US\$ 287 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

An AMR magnetic encoder chip is a magnetic position-sensing device designed based on the Anisotropic Magnetoresistance (AMR) effect. By detecting changes in the direction or intensity of an external magnetic field, it converts information regarding rotational angle, linear displacement, speed, or position into electrical signals, thereby enabling high-precision position measurement and motion control. Typically used in conjunction with a permanent magnet, the chip serves as the core component of a magnetic encoder system, calculating the shaft's position and motion status by monitoring magnetic field variations. The upstream segment of the industry chain primarily comprises suppliers of magnetoresistive materials (AMR thin-film materials), silicon wafers, semiconductor manufacturing equipment, packaging and testing services, and permanent magnets (such as NdFeB and ferrite), alongside supporting electronic components like analog ICs, power management chips, and MCUs. The midstream consists of AMR magnetic encoder chip design and manufacturing companies responsible for magnetoresistive sensing unit design, signal processing algorithm development, ASIC integration, circuit design, wafer fabrication, packaging and testing, and system calibration; their output includes products such as angle encoder chips, rotary position sensor chips, and linear displacement detection chips. Downstream applications primarily span industrial robots, collaborative robots, humanoid robots, AGV/AMR mobile robots, servo motors, automated production lines, power tools, automotive electronics, and medical equipment.

In 2025, global sales volume for AMR magnetic encoder chips is projected to reach 36

million pcs, with a production capacity of approximately 51 million pcs; the average selling price is estimated at \$5.50 per pcs, with an average gross margin of 30%?40%.

AMR magnetic encoder technology is evolving toward miniaturization, high precision, enhanced interference immunity, and greater integration. Traditional standalone AMR sensors are gradually incorporating digital signal processing modules to support multiple output modes?such as AB-phase pulses, SSI, I²C, and PWM. Continuous optimization of magnet design, signal processing algorithms, and temperature compensation techniques enables these encoders to maintain high precision during high-frequency motion, in low-noise environments, and across wide temperature ranges. Future development trends include deep integration with servo controllers and industrial digital twin systems, as well as the adoption of modular, interchangeable, and standardized interface designs.

Global industrial automation, intelligent manufacturing, and robotics industry policies present significant growth opportunities for the AMR magnetic encoder market. Initiatives such as China?s 'Made in China 2025,' Europe?s 'Industry 4.0,' and Japan?s automation upgrade plans are driving the expansion of the robotics and high-precision servo systems sectors, thereby stimulating demand for magnetic encoders.

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

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

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

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

Segmentation by Type:

Absolute

Incremental

Segmentation by Measurement Method:

Rotary

Linear

Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Segmentation by Application:

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

RLS

TE Connectivity

Murata Manufacturing

SG Micro

MEMSIC Semiconductor

CONNTEK

MagnTek

MultiDimension Technology

AKM

Honeywell

Allegro MicroSystems

iC-Haus

Novosense

Key Questions Addressed in this Report

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

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

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

How do AMR Magnetic Encoder Chips market opportunities vary by end market size?

How does AMR Magnetic Encoder Chips break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global AMR Magnetic Encoder Chips Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for AMR Magnetic Encoder Chips by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for AMR Magnetic Encoder Chips by Country/Region, 2021, 2025 & 2032
- 2.2 AMR Magnetic Encoder Chips Segment by Type
 - 2.2.1 Absolute
 - 2.2.2 Incremental
 - 2.2.3 AMR Magnetic Encoder Chips Sales by Type
 - 2.2.3.1 Global AMR Magnetic Encoder Chips Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global AMR Magnetic Encoder Chips Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global AMR Magnetic Encoder Chips Sale Price by Type (2021-2026)
- 2.3 AMR Magnetic Encoder Chips Segment by Measurement Method
 - 2.3.1 Rotary
 - 2.3.2 Linear
 - 2.3.3 AMR Magnetic Encoder Chips Sales by Measurement Method
 - 2.3.3.1 Global AMR Magnetic Encoder Chips Sales Market Share by Measurement Method (2021-2026)
 - 2.3.3.2 Global AMR Magnetic Encoder Chips Revenue and Market Share by Measurement Method (2021-2026)
 - 2.3.3.3 Global AMR Magnetic Encoder Chips Sale Price by Measurement Method

(2021-2026)

2.4 AMR Magnetic Encoder Chips Segment by Angle Measurement Accuracy

2.4.1 0.05°-0.1°

2.4.2 0.1°-1°

2.4.3 1°

2.4.4 AMR Magnetic Encoder Chips Sales by Angle Measurement Accuracy

2.4.4.1 Global AMR Magnetic Encoder Chips Sales Market Share by Angle Measurement Accuracy (2021-2026)

2.4.4.2 Global AMR Magnetic Encoder Chips Revenue and Market Share by Angle Measurement Accuracy (2021-2026)

2.4.4.3 Global AMR Magnetic Encoder Chips Sale Price by Angle Measurement Accuracy (2021-2026)

2.5 AMR Magnetic Encoder Chips Segment by Application

2.5.1 Robotics

2.5.2 Industrial Automation

2.5.3 Automotive Electronics

2.5.4 Medical Equipment

2.5.5 Others

2.5.6 AMR Magnetic Encoder Chips Sales by Application

2.5.6.1 Global AMR Magnetic Encoder Chips Sale Market Share by Application (2021-2026)

2.5.6.2 Global AMR Magnetic Encoder Chips Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global AMR Magnetic Encoder Chips Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global AMR Magnetic Encoder Chips Breakdown Data by Company

3.1.1 Global AMR Magnetic Encoder Chips Annual Sales by Company (2021-2026)

3.1.2 Global AMR Magnetic Encoder Chips Sales Market Share by Company (2021-2026)

3.2 Global AMR Magnetic Encoder Chips Annual Revenue by Company (2021-2026)

3.2.1 Global AMR Magnetic Encoder Chips Revenue by Company (2021-2026)

3.2.2 Global AMR Magnetic Encoder Chips Revenue Market Share by Company (2021-2026)

3.3 Global AMR Magnetic Encoder Chips Sale Price by Company

3.4 Key Manufacturers AMR Magnetic Encoder Chips Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers AMR Magnetic Encoder Chips Product Location Distribution

- 3.4.2 Players AMR Magnetic Encoder Chips Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AMR MAGNETIC ENCODER CHIPS BY GEOGRAPHIC REGION

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

5 AMERICAS

- 5.1 Americas AMR Magnetic Encoder Chips Sales by Country
 - 5.1.1 Americas AMR Magnetic Encoder Chips Sales by Country (2021-2026)
 - 5.1.2 Americas AMR Magnetic Encoder Chips Revenue by Country (2021-2026)
- 5.2 Americas AMR Magnetic Encoder Chips Sales by Type (2021-2026)
- 5.3 Americas AMR Magnetic Encoder Chips Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC AMR Magnetic Encoder Chips Sales by Region

6.1.1 APAC AMR Magnetic Encoder Chips Sales by Region (2021-2026)

6.1.2 APAC AMR Magnetic Encoder Chips Revenue by Region (2021-2026)

6.2 APAC AMR Magnetic Encoder Chips Sales by Type (2021-2026)

6.3 APAC AMR Magnetic Encoder Chips Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe AMR Magnetic Encoder Chips by Country

7.1.1 Europe AMR Magnetic Encoder Chips Sales by Country (2021-2026)

7.1.2 Europe AMR Magnetic Encoder Chips Revenue by Country (2021-2026)

7.2 Europe AMR Magnetic Encoder Chips Sales by Type (2021-2026)

7.3 Europe AMR Magnetic Encoder Chips Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa AMR Magnetic Encoder Chips by Country

8.1.1 Middle East & Africa AMR Magnetic Encoder Chips Sales by Country (2021-2026)

8.1.2 Middle East & Africa AMR Magnetic Encoder Chips Revenue by Country (2021-2026)

8.2 Middle East & Africa AMR Magnetic Encoder Chips Sales by Type (2021-2026)

8.3 Middle East & Africa AMR Magnetic Encoder Chips Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of AMR Magnetic Encoder Chips

10.3 Manufacturing Process Analysis of AMR Magnetic Encoder Chips

10.4 Industry Chain Structure of AMR Magnetic Encoder Chips

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 AMR Magnetic Encoder Chips Distributors

11.3 AMR Magnetic Encoder Chips Customer

12 WORLD FORECAST REVIEW FOR AMR MAGNETIC ENCODER CHIPS BY GEOGRAPHIC REGION

12.1 Global AMR Magnetic Encoder Chips Market Size Forecast by Region

12.1.1 Global AMR Magnetic Encoder Chips Forecast by Region (2027-2032)

12.1.2 Global AMR Magnetic Encoder Chips Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

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

12.6 Global AMR Magnetic Encoder Chips Forecast by Type (2027-2032)

12.7 Global AMR Magnetic Encoder Chips Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 RLS

13.1.1 RLS Company Information

13.1.2 RLS AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.1.3 RLS AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 RLS Main Business Overview

13.1.5 RLS Latest Developments

13.2 TE Connectivity

13.2.1 TE Connectivity Company Information

13.2.2 TE Connectivity AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.2.3 TE Connectivity AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 TE Connectivity Main Business Overview

13.2.5 TE Connectivity Latest Developments

13.3 Murata Manufacturing

13.3.1 Murata Manufacturing Company Information

13.3.2 Murata Manufacturing AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.3.3 Murata Manufacturing AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Murata Manufacturing Main Business Overview

13.3.5 Murata Manufacturing Latest Developments

13.4 SG Micro

13.4.1 SG Micro Company Information

13.4.2 SG Micro AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.4.3 SG Micro AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 SG Micro Main Business Overview

13.4.5 SG Micro Latest Developments

13.5 MEMSIC Semiconductor

13.5.1 MEMSIC Semiconductor Company Information

13.5.2 MEMSIC Semiconductor AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.5.3 MEMSIC Semiconductor AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.5.4 MEMSIC Semiconductor Main Business Overview
- 13.5.5 MEMSIC Semiconductor Latest Developments
- 13.6 CONNTEK
 - 13.6.1 CONNTEK Company Information
 - 13.6.2 CONNTEK AMR Magnetic Encoder Chips Product Portfolios and Specifications
 - 13.6.3 CONNTEK AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 CONNTEK Main Business Overview
 - 13.6.5 CONNTEK Latest Developments
- 13.7 MagnTek
 - 13.7.1 MagnTek Company Information
 - 13.7.2 MagnTek AMR Magnetic Encoder Chips Product Portfolios and Specifications
 - 13.7.3 MagnTek AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 MagnTek Main Business Overview
 - 13.7.5 MagnTek Latest Developments
- 13.8 MultiDimension Technology
 - 13.8.1 MultiDimension Technology Company Information
 - 13.8.2 MultiDimension Technology AMR Magnetic Encoder Chips Product Portfolios and Specifications
 - 13.8.3 MultiDimension Technology AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 MultiDimension Technology Main Business Overview
 - 13.8.5 MultiDimension Technology Latest Developments
- 13.9 AKM
 - 13.9.1 AKM Company Information
 - 13.9.2 AKM AMR Magnetic Encoder Chips Product Portfolios and Specifications
 - 13.9.3 AKM AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 AKM Main Business Overview
 - 13.9.5 AKM Latest Developments
- 13.10 Honeywell
 - 13.10.1 Honeywell Company Information
 - 13.10.2 Honeywell AMR Magnetic Encoder Chips Product Portfolios and Specifications
 - 13.10.3 Honeywell AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Honeywell Main Business Overview
 - 13.10.5 Honeywell Latest Developments

13.11 Allegro MicroSystems

13.11.1 Allegro MicroSystems Company Information

13.11.2 Allegro MicroSystems AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.11.3 Allegro MicroSystems AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Allegro MicroSystems Main Business Overview

13.11.5 Allegro MicroSystems Latest Developments

13.12 iC-Haus

13.12.1 iC-Haus Company Information

13.12.2 iC-Haus AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.12.3 iC-Haus AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 iC-Haus Main Business Overview

13.12.5 iC-Haus Latest Developments

13.13 Novosense

13.13.1 Novosense Company Information

13.13.2 Novosense AMR Magnetic Encoder Chips Product Portfolios and Specifications

13.13.3 Novosense AMR Magnetic Encoder Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Novosense Main Business Overview

13.13.5 Novosense Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. AMR Magnetic Encoder Chips Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. AMR Magnetic Encoder Chips Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Absolute

Table 4. Major Players of Incremental

Table 5. Global AMR Magnetic Encoder Chips Sales by Type (2021-2026) & (Million Pcs)

Table 6. Global AMR Magnetic Encoder Chips Sales Market Share by Type (2021-2026)

Table 7. Global AMR Magnetic Encoder Chips Revenue by Type (2021-2026) & (\$ million)

Table 8. Global AMR Magnetic Encoder Chips Revenue Market Share by Type (2021-2026)

Table 9. Global AMR Magnetic Encoder Chips Sale Price by Type (2021-2026) & (US\$/Pcs)

Table 10. Major Players of Rotary

Table 11. Major Players of Linear

Table 12. Global AMR Magnetic Encoder Chips Sales by Measurement Method (2021-2026) & (Million Pcs)

Table 13. Global AMR Magnetic Encoder Chips Sales Market Share by Measurement Method (2021-2026)

Table 14. Global AMR Magnetic Encoder Chips Revenue by Measurement Method (2021-2026) & (\$ million)

Table 15. Global AMR Magnetic Encoder Chips Revenue Market Share by Measurement Method (2021-2026)

Table 16. Global AMR Magnetic Encoder Chips Sale Price by Measurement Method (2021-2026) & (US\$/Pcs)

Table 17. Major Players of 0.05°-0.1°

Table 18. Major Players of 0.1°-1°

Table 19. Major Players of >1°

Table 20. Global AMR Magnetic Encoder Chips Sales by Angle Measurement Accuracy (2021-2026) & (Million Pcs)

Table 21. Global AMR Magnetic Encoder Chips Sales Market Share by Angle Measurement Accuracy (2021-2026)

Table 22. Global AMR Magnetic Encoder Chips Revenue by Angle Measurement Accuracy (2021-2026) & (\$ million)

Table 23. Global AMR Magnetic Encoder Chips Revenue Market Share by Angle Measurement Accuracy (2021-2026)

Table 24. Global AMR Magnetic Encoder Chips Sale Price by Angle Measurement Accuracy (2021-2026) & (US\$/Pcs)

Table 25. Global AMR Magnetic Encoder Chips Sale by Application (2021-2026) & (Million Pcs)

Table 26. Global AMR Magnetic Encoder Chips Sale Market Share by Application (2021-2026)

Table 27. Global AMR Magnetic Encoder Chips Revenue by Application (2021-2026) & (\$ million)

Table 28. Global AMR Magnetic Encoder Chips Revenue Market Share by Application (2021-2026)

Table 29. Global AMR Magnetic Encoder Chips Sale Price by Application (2021-2026) & (US\$/Pcs)

Table 30. Global AMR Magnetic Encoder Chips Sales by Company (2021-2026) & (Million Pcs)

Table 31. Global AMR Magnetic Encoder Chips Sales Market Share by Company (2021-2026)

Table 32. Global AMR Magnetic Encoder Chips Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global AMR Magnetic Encoder Chips Revenue Market Share by Company (2021-2026)

Table 34. Global AMR Magnetic Encoder Chips Sale Price by Company (2021-2026) & (US\$/Pcs)

Table 35. Key Manufacturers AMR Magnetic Encoder Chips Producing Area Distribution and Sales Area

Table 36. Players AMR Magnetic Encoder Chips Products Offered

Table 37. AMR Magnetic Encoder Chips Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global AMR Magnetic Encoder Chips Sales by Geographic Region (2021-2026) & (Million Pcs)

Table 41. Global AMR Magnetic Encoder Chips Sales Market Share Geographic Region (2021-2026)

Table 42. Global AMR Magnetic Encoder Chips Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global AMR Magnetic Encoder Chips Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global AMR Magnetic Encoder Chips Sales by Country/Region (2021-2026) & (Million Pcs)

Table 45. Global AMR Magnetic Encoder Chips Sales Market Share by Country/Region (2021-2026)

Table 46. Global AMR Magnetic Encoder Chips Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global AMR Magnetic Encoder Chips Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas AMR Magnetic Encoder Chips Sales by Country (2021-2026) & (Million Pcs)

Table 49. Americas AMR Magnetic Encoder Chips Sales Market Share by Country (2021-2026)

Table 50. Americas AMR Magnetic Encoder Chips Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas AMR Magnetic Encoder Chips Sales by Type (2021-2026) & (Million Pcs)

Table 52. Americas AMR Magnetic Encoder Chips Sales by Application (2021-2026) & (Million Pcs)

Table 53. APAC AMR Magnetic Encoder Chips Sales by Region (2021-2026) & (Million Pcs)

Table 54. APAC AMR Magnetic Encoder Chips Sales Market Share by Region (2021-2026)

Table 55. APAC AMR Magnetic Encoder Chips Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC AMR Magnetic Encoder Chips Sales by Type (2021-2026) & (Million Pcs)

Table 57. APAC AMR Magnetic Encoder Chips Sales by Application (2021-2026) & (Million Pcs)

Table 58. Europe AMR Magnetic Encoder Chips Sales by Country (2021-2026) & (Million Pcs)

Table 59. Europe AMR Magnetic Encoder Chips Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe AMR Magnetic Encoder Chips Sales by Type (2021-2026) & (Million Pcs)

Table 61. Europe AMR Magnetic Encoder Chips Sales by Application (2021-2026) & (Million Pcs)

Table 62. Middle East & Africa AMR Magnetic Encoder Chips Sales by Country

(2021-2026) & (Million Pcs)

Table 63. Middle East & Africa AMR Magnetic Encoder Chips Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa AMR Magnetic Encoder Chips Sales by Type (2021-2026) & (Million Pcs)

Table 65. Middle East & Africa AMR Magnetic Encoder Chips Sales by Application (2021-2026) & (Million Pcs)

Table 66. Key Market Drivers & Growth Opportunities of AMR Magnetic Encoder Chips

Table 67. Key Market Challenges & Risks of AMR Magnetic Encoder Chips

Table 68. Key Industry Trends of AMR Magnetic Encoder Chips

Table 69. AMR Magnetic Encoder Chips Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. AMR Magnetic Encoder Chips Distributors List

Table 72. AMR Magnetic Encoder Chips Customer List

Table 73. Global AMR Magnetic Encoder Chips Sales Forecast by Region (2027-2032) & (Million Pcs)

Table 74. Global AMR Magnetic Encoder Chips Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas AMR Magnetic Encoder Chips Sales Forecast by Country (2027-2032) & (Million Pcs)

Table 76. Americas AMR Magnetic Encoder Chips Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC AMR Magnetic Encoder Chips Sales Forecast by Region (2027-2032) & (Million Pcs)

Table 78. APAC AMR Magnetic Encoder Chips Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe AMR Magnetic Encoder Chips Sales Forecast by Country (2027-2032) & (Million Pcs)

Table 80. Europe AMR Magnetic Encoder Chips Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa AMR Magnetic Encoder Chips Sales Forecast by Country (2027-2032) & (Million Pcs)

Table 82. Middle East & Africa AMR Magnetic Encoder Chips Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global AMR Magnetic Encoder Chips Sales Forecast by Type (2027-2032) & (Million Pcs)

Table 84. Global AMR Magnetic Encoder Chips Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global AMR Magnetic Encoder Chips Sales Forecast by Application

(2027-2032) & (Million Pcs)

Table 86. Global AMR Magnetic Encoder Chips Revenue Forecast by Application
(2027-2032) & (\$ millions)

Table 87. RLS Basic Information, AMR Magnetic Encoder Chips Manufacturing Base,
Sales Area and Its Competitors

Table 88. RLS AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 89. RLS AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million),
Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 90. RLS Main Business

Table 91. RLS Latest Developments

Table 92. TE Connectivity Basic Information, AMR Magnetic Encoder Chips
Manufacturing Base, Sales Area and Its Competitors

Table 93. TE Connectivity AMR Magnetic Encoder Chips Product Portfolios and
Specifications

Table 94. TE Connectivity AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue
(\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 95. TE Connectivity Main Business

Table 96. TE Connectivity Latest Developments

Table 97. Murata Manufacturing Basic Information, AMR Magnetic Encoder Chips
Manufacturing Base, Sales Area and Its Competitors

Table 98. Murata Manufacturing AMR Magnetic Encoder Chips Product Portfolios and
Specifications

Table 99. Murata Manufacturing AMR Magnetic Encoder Chips Sales (Million Pcs),
Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 100. Murata Manufacturing Main Business

Table 101. Murata Manufacturing Latest Developments

Table 102. SG Micro Basic Information, AMR Magnetic Encoder Chips Manufacturing
Base, Sales Area and Its Competitors

Table 103. SG Micro AMR Magnetic Encoder Chips Product Portfolios and
Specifications

Table 104. SG Micro AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$
Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 105. SG Micro Main Business

Table 106. SG Micro Latest Developments

Table 107. MEMSIC Semiconductor Basic Information, AMR Magnetic Encoder Chips
Manufacturing Base, Sales Area and Its Competitors

Table 108. MEMSIC Semiconductor AMR Magnetic Encoder Chips Product Portfolios
and Specifications

Table 109. MEMSIC Semiconductor AMR Magnetic Encoder Chips Sales (Million Pcs),

Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 110. MEMSIC Semiconductor Main Business

Table 111. MEMSIC Semiconductor Latest Developments

Table 112. CONNTEK Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 113. CONNTEK AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 114. CONNTEK AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 115. CONNTEK Main Business

Table 116. CONNTEK Latest Developments

Table 117. MagnTek Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 118. MagnTek AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 119. MagnTek AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 120. MagnTek Main Business

Table 121. MagnTek Latest Developments

Table 122. MultiDimension Technology Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 123. MultiDimension Technology AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 124. MultiDimension Technology AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 125. MultiDimension Technology Main Business

Table 126. MultiDimension Technology Latest Developments

Table 127. AKM Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 128. AKM AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 129. AKM AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 130. AKM Main Business

Table 131. AKM Latest Developments

Table 132. Honeywell Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 133. Honeywell AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 134. Honeywell AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$

Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 135. Honeywell Main Business

Table 136. Honeywell Latest Developments

Table 137. Allegro MicroSystems Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 138. Allegro MicroSystems AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 139. Allegro MicroSystems AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 140. Allegro MicroSystems Main Business

Table 141. Allegro MicroSystems Latest Developments

Table 142. iC-Haus Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 143. iC-Haus AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 144. iC-Haus AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 145. iC-Haus Main Business

Table 146. iC-Haus Latest Developments

Table 147. Novosense Basic Information, AMR Magnetic Encoder Chips Manufacturing Base, Sales Area and Its Competitors

Table 148. Novosense AMR Magnetic Encoder Chips Product Portfolios and Specifications

Table 149. Novosense AMR Magnetic Encoder Chips Sales (Million Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 150. Novosense Main Business

Table 151. Novosense Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of AMR Magnetic Encoder Chips
- Figure 2. AMR Magnetic Encoder Chips Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global AMR Magnetic Encoder Chips Sales Growth Rate 2021-2032 (Million Pcs)
- Figure 7. Global AMR Magnetic Encoder Chips Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. AMR Magnetic Encoder Chips Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. AMR Magnetic Encoder Chips Sales Market Share by Country/Region (2025)
- Figure 10. AMR Magnetic Encoder Chips Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Absolute
- Figure 12. Product Picture of Incremental
- Figure 13. Global AMR Magnetic Encoder Chips Sales Market Share by Type in 2026
- Figure 14. Global AMR Magnetic Encoder Chips Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Rotary
- Figure 16. Product Picture of Linear
- Figure 17. Global AMR Magnetic Encoder Chips Sales Market Share by Measurement Method in 2026
- Figure 18. Global AMR Magnetic Encoder Chips Revenue Market Share by Measurement Method (2021-2026)
- Figure 19. Product Picture of 0.05°-0.1°
- Figure 20. Product Picture of 0.1°-1°
- Figure 21. Product Picture of 1°
- Figure 22. Global AMR Magnetic Encoder Chips Sales Market Share by Angle Measurement Accuracy in 2026
- Figure 23. Global AMR Magnetic Encoder Chips Revenue Market Share by Angle Measurement Accuracy (2021-2026)
- Figure 24. AMR Magnetic Encoder Chips Consumed in Robotics
- Figure 25. Global AMR Magnetic Encoder Chips Market: Robotics (2021-2026) & (Million Pcs)

Figure 26. AMR Magnetic Encoder Chips Consumed in Industrial Automation

Figure 27. Global AMR Magnetic Encoder Chips Market: Industrial Automation (2021-2026) & (Million Pcs)

Figure 28. AMR Magnetic Encoder Chips Consumed in Automotive Electronics

Figure 29. Global AMR Magnetic Encoder Chips Market: Automotive Electronics (2021-2026) & (Million Pcs)

Figure 30. AMR Magnetic Encoder Chips Consumed in Medical Equipment

Figure 31. Global AMR Magnetic Encoder Chips Market: Medical Equipment (2021-2026) & (Million Pcs)

Figure 32. AMR Magnetic Encoder Chips Consumed in Others

Figure 33. Global AMR Magnetic Encoder Chips Market: Others (2021-2026) & (Million Pcs)

Figure 34. Global AMR Magnetic Encoder Chips Sale Market Share by Application (2025)

Figure 35. Global AMR Magnetic Encoder Chips Revenue Market Share by Application in 2025

Figure 36. AMR Magnetic Encoder Chips Sales by Company in 2025 (Million Pcs)

Figure 37. Global AMR Magnetic Encoder Chips Sales Market Share by Company in 2025

Figure 38. AMR Magnetic Encoder Chips Revenue by Company in 2025 (\$ millions)

Figure 39. Global AMR Magnetic Encoder Chips Revenue Market Share by Company in 2025

Figure 40. Global AMR Magnetic Encoder Chips Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global AMR Magnetic Encoder Chips Revenue Market Share by Geographic Region in 2025

Figure 42. Americas AMR Magnetic Encoder Chips Sales 2021-2026 (Million Pcs)

Figure 43. Americas AMR Magnetic Encoder Chips Revenue 2021-2026 (\$ millions)

Figure 44. APAC AMR Magnetic Encoder Chips Sales 2021-2026 (Million Pcs)

Figure 45. APAC AMR Magnetic Encoder Chips Revenue 2021-2026 (\$ millions)

Figure 46. Europe AMR Magnetic Encoder Chips Sales 2021-2026 (Million Pcs)

Figure 47. Europe AMR Magnetic Encoder Chips Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa AMR Magnetic Encoder Chips Sales 2021-2026 (Million Pcs)

Figure 49. Middle East & Africa AMR Magnetic Encoder Chips Revenue 2021-2026 (\$ millions)

Figure 50. Americas AMR Magnetic Encoder Chips Sales Market Share by Country in 2025

Figure 51. Americas AMR Magnetic Encoder Chips Revenue Market Share by Country

(2021-2026)

Figure 52. Americas AMR Magnetic Encoder Chips Sales Market Share by Type

(2021-2026)

Figure 53. Americas AMR Magnetic Encoder Chips Sales Market Share by Application

(2021-2026)

Figure 54. United States AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC AMR Magnetic Encoder Chips Sales Market Share by Region in 2025

Figure 59. APAC AMR Magnetic Encoder Chips Revenue Market Share by Region (2021-2026)

Figure 60. APAC AMR Magnetic Encoder Chips Sales Market Share by Type (2021-2026)

Figure 61. APAC AMR Magnetic Encoder Chips Sales Market Share by Application (2021-2026)

Figure 62. China AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 66. India AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 69. Europe AMR Magnetic Encoder Chips Sales Market Share by Country in 2025

Figure 70. Europe AMR Magnetic Encoder Chips Revenue Market Share by Country (2021-2026)

Figure 71. Europe AMR Magnetic Encoder Chips Sales Market Share by Type (2021-2026)

Figure 72. Europe AMR Magnetic Encoder Chips Sales Market Share by Application

(2021-2026)

Figure 73. Germany AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 74. France AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa AMR Magnetic Encoder Chips Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa AMR Magnetic Encoder Chips Sales Market Share by Type (2021-2026)

Figure 80. Middle East & Africa AMR Magnetic Encoder Chips Sales Market Share by Application (2021-2026)

Figure 81. Egypt AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries AMR Magnetic Encoder Chips Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of AMR Magnetic Encoder Chips in 2026

Figure 87. Manufacturing Process Analysis of AMR Magnetic Encoder Chips

Figure 88. Industry Chain Structure of AMR Magnetic Encoder Chips

Figure 89. Channels of Distribution

Figure 90. Global AMR Magnetic Encoder Chips Sales Market Forecast by Region (2027-2032)

Figure 91. Global AMR Magnetic Encoder Chips Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global AMR Magnetic Encoder Chips Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global AMR Magnetic Encoder Chips Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global AMR Magnetic Encoder Chips Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global AMR Magnetic Encoder Chips Revenue Market Share Forecast by

Application (2027-2032)

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