

# Global AMR Magnetic Encoder Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global AMR Magnetic Encoder Chips market size was valued at US\$ 204 million in 2025 and is forecast to a readjusted size of US\$ 296 million by 2032 with a CAGR of 5.6% during review period.

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, I<sup>2</sup>C, 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.

This report is a detailed and comprehensive analysis for global AMR Magnetic Encoder Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global AMR Magnetic Encoder Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global AMR Magnetic Encoder Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global AMR Magnetic Encoder Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global AMR Magnetic Encoder Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AMR Magnetic Encoder Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AMR Magnetic Encoder Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RLS, TE Connectivity, Murata Manufacturing, SG Micro, MEMSIC Semiconductor, CONNTEK, MagnTek, MultiDimension Technology, AKM, Honeywell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

AMR Magnetic Encoder Chips market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## Market segment by Type

### Absolute

Incremental

Market segment by Measurement Method

Rotary

Linear

Market segment by Angle Measurement Accuracy

±0.05°-±0.1°

±0.1°-±1°

±1°

Market segment by Application

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

Major players covered

RLS

TE Connectivity

Murata Manufacturing

SG Micro

MEMSIC Semiconductor

CONNTEK

MagnTek

MultiDimension Technology

AKM

Honeywell

Allegro MicroSystems

iC-Haus

Novosense

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 AMR Magnetic Encoder Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AMR Magnetic Encoder Chips, with price, sales quantity, revenue, and global market share of AMR Magnetic Encoder Chips from 2021 to 2026.

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

Chapter 4, the AMR Magnetic Encoder Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and AMR Magnetic Encoder Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 AMR Magnetic Encoder Chips.

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

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Product Overview and Scope

#### 1.2 Market Estimation Caveats and Base Year

#### 1.3 Market Analysis by Type

##### 1.3.1 Overview: Global AMR Magnetic Encoder Chips Consumption Value by Type: 2021 Versus 2025 Versus 2032

##### 1.3.2 Absolute

##### 1.3.3 Incremental

#### 1.4 Market Analysis by Measurement Method

##### 1.4.1 Overview: Global AMR Magnetic Encoder Chips Consumption Value by Measurement Method: 2021 Versus 2025 Versus 2032

##### 1.4.2 Rotary

##### 1.4.3 Linear

#### 1.5 Market Analysis by Angle Measurement Accuracy

##### 1.5.1 Overview: Global AMR Magnetic Encoder Chips Consumption Value by Angle Measurement Accuracy: 2021 Versus 2025 Versus 2032

##### 1.5.2 ?0.05?-?0.1?

##### 1.5.3 ?0.1?-?1?

##### 1.5.4 ??1?

#### 1.6 Market Analysis by Application

##### 1.6.1 Overview: Global AMR Magnetic Encoder Chips Consumption Value by Application: 2021 Versus 2025 Versus 2032

##### 1.6.2 Robotics

##### 1.6.3 Industrial Automation

##### 1.6.4 Automotive Electronics

##### 1.6.5 Medical Equipment

##### 1.6.6 Others

#### 1.7 Global AMR Magnetic Encoder Chips Market Size & Forecast

##### 1.7.1 Global AMR Magnetic Encoder Chips Consumption Value (2021 & 2025 & 2032)

##### 1.7.2 Global AMR Magnetic Encoder Chips Sales Quantity (2021-2032)

##### 1.7.3 Global AMR Magnetic Encoder Chips Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

#### 2.1 RLS

##### 2.1.1 RLS Details

- 2.1.2 RLS Major Business
- 2.1.3 RLS AMR Magnetic Encoder Chips Product and Services
- 2.1.4 RLS AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 RLS Recent Developments/Updates
- 2.2 TE Connectivity
  - 2.2.1 TE Connectivity Details
  - 2.2.2 TE Connectivity Major Business
  - 2.2.3 TE Connectivity AMR Magnetic Encoder Chips Product and Services
  - 2.2.4 TE Connectivity AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 TE Connectivity Recent Developments/Updates
- 2.3 Murata Manufacturing
  - 2.3.1 Murata Manufacturing Details
  - 2.3.2 Murata Manufacturing Major Business
  - 2.3.3 Murata Manufacturing AMR Magnetic Encoder Chips Product and Services
  - 2.3.4 Murata Manufacturing AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Murata Manufacturing Recent Developments/Updates
- 2.4 SG Micro
  - 2.4.1 SG Micro Details
  - 2.4.2 SG Micro Major Business
  - 2.4.3 SG Micro AMR Magnetic Encoder Chips Product and Services
  - 2.4.4 SG Micro AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 SG Micro Recent Developments/Updates
- 2.5 MEMSIC Semiconductor
  - 2.5.1 MEMSIC Semiconductor Details
  - 2.5.2 MEMSIC Semiconductor Major Business
  - 2.5.3 MEMSIC Semiconductor AMR Magnetic Encoder Chips Product and Services
  - 2.5.4 MEMSIC Semiconductor AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 MEMSIC Semiconductor Recent Developments/Updates
- 2.6 CONNTEK
  - 2.6.1 CONNTEK Details
  - 2.6.2 CONNTEK Major Business
  - 2.6.3 CONNTEK AMR Magnetic Encoder Chips Product and Services
  - 2.6.4 CONNTEK AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

## 2.6.5 CONNTEK Recent Developments/Updates

## 2.7 MagnTek

### 2.7.1 MagnTek Details

### 2.7.2 MagnTek Major Business

### 2.7.3 MagnTek AMR Magnetic Encoder Chips Product and Services

### 2.7.4 MagnTek AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.7.5 MagnTek Recent Developments/Updates

## 2.8 MultiDimension Technology

### 2.8.1 MultiDimension Technology Details

### 2.8.2 MultiDimension Technology Major Business

### 2.8.3 MultiDimension Technology AMR Magnetic Encoder Chips Product and Services

### 2.8.4 MultiDimension Technology AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.8.5 MultiDimension Technology Recent Developments/Updates

## 2.9 AKM

### 2.9.1 AKM Details

### 2.9.2 AKM Major Business

### 2.9.3 AKM AMR Magnetic Encoder Chips Product and Services

### 2.9.4 AKM AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.9.5 AKM Recent Developments/Updates

## 2.10 Honeywell

### 2.10.1 Honeywell Details

### 2.10.2 Honeywell Major Business

### 2.10.3 Honeywell AMR Magnetic Encoder Chips Product and Services

### 2.10.4 Honeywell AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.10.5 Honeywell Recent Developments/Updates

## 2.11 Allegro MicroSystems

### 2.11.1 Allegro MicroSystems Details

### 2.11.2 Allegro MicroSystems Major Business

### 2.11.3 Allegro MicroSystems AMR Magnetic Encoder Chips Product and Services

### 2.11.4 Allegro MicroSystems AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.11.5 Allegro MicroSystems Recent Developments/Updates

## 2.12 iC-Haus

### 2.12.1 iC-Haus Details

### 2.12.2 iC-Haus Major Business

- 2.12.3 iC-Haus AMR Magnetic Encoder Chips Product and Services
- 2.12.4 iC-Haus AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 iC-Haus Recent Developments/Updates
- 2.13 Novosense
  - 2.13.1 Novosense Details
  - 2.13.2 Novosense Major Business
  - 2.13.3 Novosense AMR Magnetic Encoder Chips Product and Services
  - 2.13.4 Novosense AMR Magnetic Encoder Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Novosense Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: AMR MAGNETIC ENCODER CHIPS BY MANUFACTURER**

- 3.1 Global AMR Magnetic Encoder Chips Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global AMR Magnetic Encoder Chips Revenue by Manufacturer (2021-2026)
- 3.3 Global AMR Magnetic Encoder Chips Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of AMR Magnetic Encoder Chips by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 AMR Magnetic Encoder Chips Manufacturer Market Share in 2025
  - 3.4.3 Top 6 AMR Magnetic Encoder Chips Manufacturer Market Share in 2025
- 3.5 AMR Magnetic Encoder Chips Market: Overall Company Footprint Analysis
  - 3.5.1 AMR Magnetic Encoder Chips Market: Region Footprint
  - 3.5.2 AMR Magnetic Encoder Chips Market: Company Product Type Footprint
  - 3.5.3 AMR Magnetic Encoder Chips 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 AMR Magnetic Encoder Chips Market Size by Region
  - 4.1.1 Global AMR Magnetic Encoder Chips Sales Quantity by Region (2021-2032)
  - 4.1.2 Global AMR Magnetic Encoder Chips Consumption Value by Region (2021-2032)
  - 4.1.3 Global AMR Magnetic Encoder Chips Average Price by Region (2021-2032)
- 4.2 North America AMR Magnetic Encoder Chips Consumption Value (2021-2032)
- 4.3 Europe AMR Magnetic Encoder Chips Consumption Value (2021-2032)

- 4.4 Asia-Pacific AMR Magnetic Encoder Chips Consumption Value (2021-2032)
- 4.5 South America AMR Magnetic Encoder Chips Consumption Value (2021-2032)
- 4.6 Middle East & Africa AMR Magnetic Encoder Chips Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2032)
- 5.2 Global AMR Magnetic Encoder Chips Consumption Value by Type (2021-2032)
- 5.3 Global AMR Magnetic Encoder Chips Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2032)
- 6.2 Global AMR Magnetic Encoder Chips Consumption Value by Application (2021-2032)
- 6.3 Global AMR Magnetic Encoder Chips Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2032)
- 7.2 North America AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2032)
- 7.3 North America AMR Magnetic Encoder Chips Market Size by Country
  - 7.3.1 North America AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2032)
  - 7.3.2 North America AMR Magnetic Encoder Chips Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2032)
- 8.2 Europe AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2032)
- 8.3 Europe AMR Magnetic Encoder Chips Market Size by Country
  - 8.3.1 Europe AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe AMR Magnetic Encoder Chips Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Application  
(2021-2032)

9.3 Asia-Pacific AMR Magnetic Encoder Chips Market Size by Region

9.3.1 Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Region  
(2021-2032)

9.3.2 Asia-Pacific AMR Magnetic Encoder Chips Consumption Value by Region  
(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2032)

10.2 South America AMR Magnetic Encoder Chips Sales Quantity by Application  
(2021-2032)

10.3 South America AMR Magnetic Encoder Chips Market Size by Country

10.3.1 South America AMR Magnetic Encoder Chips Sales Quantity by Country  
(2021-2032)

10.3.2 South America AMR Magnetic Encoder Chips Consumption Value by Country  
(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa AMR Magnetic Encoder Chips Market Size by Country

11.3.1 Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa AMR Magnetic Encoder Chips Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 AMR Magnetic Encoder Chips Market Drivers

12.2 AMR Magnetic Encoder Chips Market Restraints

12.3 AMR Magnetic Encoder Chips 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 AMR Magnetic Encoder Chips and Key Manufacturers

13.2 Manufacturing Costs Percentage of AMR Magnetic Encoder Chips

13.3 AMR Magnetic Encoder Chips Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 AMR Magnetic Encoder Chips Typical Distributors

### 14.3 AMR Magnetic Encoder Chips 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 AMR Magnetic Encoder Chips Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global AMR Magnetic Encoder Chips Consumption Value by Measurement Method, (USD Million), 2021 & 2025 & 2032

Table 3. Global AMR Magnetic Encoder Chips Consumption Value by Angle Measurement Accuracy, (USD Million), 2021 & 2025 & 2032

Table 4. Global AMR Magnetic Encoder Chips Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. RLS Basic Information, Manufacturing Base and Competitors

Table 6. RLS Major Business

Table 7. RLS AMR Magnetic Encoder Chips Product and Services

Table 8. RLS AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. RLS Recent Developments/Updates

Table 10. TE Connectivity Basic Information, Manufacturing Base and Competitors

Table 11. TE Connectivity Major Business

Table 12. TE Connectivity AMR Magnetic Encoder Chips Product and Services

Table 13. TE Connectivity AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. TE Connectivity Recent Developments/Updates

Table 15. Murata Manufacturing Basic Information, Manufacturing Base and Competitors

Table 16. Murata Manufacturing Major Business

Table 17. Murata Manufacturing AMR Magnetic Encoder Chips Product and Services

Table 18. Murata Manufacturing AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Murata Manufacturing Recent Developments/Updates

Table 20. SG Micro Basic Information, Manufacturing Base and Competitors

Table 21. SG Micro Major Business

Table 22. SG Micro AMR Magnetic Encoder Chips Product and Services

Table 23. SG Micro AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. SG Micro Recent Developments/Updates

Table 25. MEMSIC Semiconductor Basic Information, Manufacturing Base and Competitors

Table 26. MEMSIC Semiconductor Major Business

Table 27. MEMSIC Semiconductor AMR Magnetic Encoder Chips Product and Services

Table 28. MEMSIC Semiconductor AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. MEMSIC Semiconductor Recent Developments/Updates

Table 30. CONNTEK Basic Information, Manufacturing Base and Competitors

Table 31. CONNTEK Major Business

Table 32. CONNTEK AMR Magnetic Encoder Chips Product and Services

Table 33. CONNTEK AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. CONNTEK Recent Developments/Updates

Table 35. MagnTek Basic Information, Manufacturing Base and Competitors

Table 36. MagnTek Major Business

Table 37. MagnTek AMR Magnetic Encoder Chips Product and Services

Table 38. MagnTek AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. MagnTek Recent Developments/Updates

Table 40. MultiDimension Technology Basic Information, Manufacturing Base and Competitors

Table 41. MultiDimension Technology Major Business

Table 42. MultiDimension Technology AMR Magnetic Encoder Chips Product and Services

Table 43. MultiDimension Technology AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. MultiDimension Technology Recent Developments/Updates

Table 45. AKM Basic Information, Manufacturing Base and Competitors

Table 46. AKM Major Business

Table 47. AKM AMR Magnetic Encoder Chips Product and Services

Table 48. AKM AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. AKM Recent Developments/Updates

Table 50. Honeywell Basic Information, Manufacturing Base and Competitors

Table 51. Honeywell Major Business

Table 52. Honeywell AMR Magnetic Encoder Chips Product and Services

Table 53. Honeywell AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Honeywell Recent Developments/Updates

Table 55. Allegro MicroSystems Basic Information, Manufacturing Base and Competitors

Table 56. Allegro MicroSystems Major Business

Table 57. Allegro MicroSystems AMR Magnetic Encoder Chips Product and Services

Table 58. Allegro MicroSystems AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Allegro MicroSystems Recent Developments/Updates

Table 60. iC-Haus Basic Information, Manufacturing Base and Competitors

Table 61. iC-Haus Major Business

Table 62. iC-Haus AMR Magnetic Encoder Chips Product and Services

Table 63. iC-Haus AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. iC-Haus Recent Developments/Updates

Table 65. Novosense Basic Information, Manufacturing Base and Competitors

Table 66. Novosense Major Business

Table 67. Novosense AMR Magnetic Encoder Chips Product and Services

Table 68. Novosense AMR Magnetic Encoder Chips Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Novosense Recent Developments/Updates

Table 70. Global AMR Magnetic Encoder Chips Sales Quantity by Manufacturer (2021-2026) & (Million Pcs)

Table 71. Global AMR Magnetic Encoder Chips Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global AMR Magnetic Encoder Chips Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 73. Market Position of Manufacturers in AMR Magnetic Encoder Chips, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 74. Head Office and AMR Magnetic Encoder Chips Production Site of Key Manufacturer

Table 75. AMR Magnetic Encoder Chips Market: Company Product Type Footprint

Table 76. AMR Magnetic Encoder Chips Market: Company Product Application

## Footprint

Table 77. AMR Magnetic Encoder Chips New Market Entrants and Barriers to Market Entry

Table 78. AMR Magnetic Encoder Chips Mergers, Acquisition, Agreements, and Collaborations

Table 79. Global AMR Magnetic Encoder Chips Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 80. Global AMR Magnetic Encoder Chips Sales Quantity by Region (2021-2026) & (Million Pcs)

Table 81. Global AMR Magnetic Encoder Chips Sales Quantity by Region (2027-2032) & (Million Pcs)

Table 82. Global AMR Magnetic Encoder Chips Consumption Value by Region (2021-2026) & (USD Million)

Table 83. Global AMR Magnetic Encoder Chips Consumption Value by Region (2027-2032) & (USD Million)

Table 84. Global AMR Magnetic Encoder Chips Average Price by Region (2021-2026) & (US\$/Pcs)

Table 85. Global AMR Magnetic Encoder Chips Average Price by Region (2027-2032) & (US\$/Pcs)

Table 86. Global AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 87. Global AMR Magnetic Encoder Chips Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 88. Global AMR Magnetic Encoder Chips Consumption Value by Type (2021-2026) & (USD Million)

Table 89. Global AMR Magnetic Encoder Chips Consumption Value by Type (2027-2032) & (USD Million)

Table 90. Global AMR Magnetic Encoder Chips Average Price by Type (2021-2026) & (US\$/Pcs)

Table 91. Global AMR Magnetic Encoder Chips Average Price by Type (2027-2032) & (US\$/Pcs)

Table 92. Global AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 93. Global AMR Magnetic Encoder Chips Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 94. Global AMR Magnetic Encoder Chips Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Global AMR Magnetic Encoder Chips Consumption Value by Application (2027-2032) & (USD Million)

Table 96. Global AMR Magnetic Encoder Chips Average Price by Application (2021-2026) & (US\$/Pcs)

Table 97. Global AMR Magnetic Encoder Chips Average Price by Application (2027-2032) & (US\$/Pcs)

Table 98. North America AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 99. North America AMR Magnetic Encoder Chips Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 100. North America AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 101. North America AMR Magnetic Encoder Chips Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 102. North America AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 103. North America AMR Magnetic Encoder Chips Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 104. North America AMR Magnetic Encoder Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America AMR Magnetic Encoder Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 107. Europe AMR Magnetic Encoder Chips Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 108. Europe AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 109. Europe AMR Magnetic Encoder Chips Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 110. Europe AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 111. Europe AMR Magnetic Encoder Chips Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 112. Europe AMR Magnetic Encoder Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Europe AMR Magnetic Encoder Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 115. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Type

(2027-2032) & (Million Pcs)

Table 116. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 117. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 118. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Region (2021-2026) & (Million Pcs)

Table 119. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity by Region (2027-2032) & (Million Pcs)

Table 120. Asia-Pacific AMR Magnetic Encoder Chips Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific AMR Magnetic Encoder Chips Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 123. South America AMR Magnetic Encoder Chips Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 124. South America AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 125. South America AMR Magnetic Encoder Chips Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 126. South America AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 127. South America AMR Magnetic Encoder Chips Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 128. South America AMR Magnetic Encoder Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America AMR Magnetic Encoder Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 131. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 132. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 133. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 134. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 135. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 136. Middle East & Africa AMR Magnetic Encoder Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa AMR Magnetic Encoder Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 138. AMR Magnetic Encoder Chips Raw Material

Table 139. Key Manufacturers of AMR Magnetic Encoder Chips Raw Materials

Table 140. AMR Magnetic Encoder Chips Typical Distributors

Table 141. AMR Magnetic Encoder Chips Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. AMR Magnetic Encoder Chips Picture

Figure 2. Global AMR Magnetic Encoder Chips Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global AMR Magnetic Encoder Chips Revenue Market Share by Type in 2025

Figure 4. Absolute Examples

Figure 5. Incremental Examples

Figure 6. Global AMR Magnetic Encoder Chips Revenue by Measurement Method, (USD Million), 2021 & 2025 & 2032

Figure 7. Global AMR Magnetic Encoder Chips Revenue Market Share by Measurement Method in 2025

Figure 8. Rotary Examples

Figure 9. Linear Examples

Figure 10. Global AMR Magnetic Encoder Chips Revenue by Angle Measurement Accuracy, (USD Million), 2021 & 2025 & 2032

Figure 11. Global AMR Magnetic Encoder Chips Revenue Market Share by Angle Measurement Accuracy in 2025

Figure 12. 0.05°-0.1° Examples

Figure 13. 0.1°-1° Examples

Figure 14. 1° Examples

Figure 15. Global AMR Magnetic Encoder Chips Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 16. Global AMR Magnetic Encoder Chips Revenue Market Share by Application in 2025

Figure 17. Robotics Examples

Figure 18. Industrial Automation Examples

Figure 19. Automotive Electronics Examples

Figure 20. Medical Equipment Examples

Figure 21. Others Examples

Figure 22. Global AMR Magnetic Encoder Chips Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global AMR Magnetic Encoder Chips Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global AMR Magnetic Encoder Chips Sales Quantity (2021-2032) & (Million Pcs)

Figure 25. Global AMR Magnetic Encoder Chips Price (2021-2032) & (US\$/Pcs)

Figure 26. Global AMR Magnetic Encoder Chips Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global AMR Magnetic Encoder Chips Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of AMR Magnetic Encoder Chips by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 AMR Magnetic Encoder Chips Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 AMR Magnetic Encoder Chips Manufacturer (Revenue) Market Share in 2025

Figure 31. Global AMR Magnetic Encoder Chips Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global AMR Magnetic Encoder Chips Consumption Value Market Share by Region (2021-2032)

Figure 33. North America AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 36. South America AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 38. Global AMR Magnetic Encoder Chips Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global AMR Magnetic Encoder Chips Consumption Value Market Share by Type (2021-2032)

Figure 40. Global AMR Magnetic Encoder Chips Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 41. Global AMR Magnetic Encoder Chips Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global AMR Magnetic Encoder Chips Revenue Market Share by Application (2021-2032)

Figure 43. Global AMR Magnetic Encoder Chips Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 44. North America AMR Magnetic Encoder Chips Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America AMR Magnetic Encoder Chips Sales Quantity Market Share

by Application (2021-2032)

Figure 46. North America AMR Magnetic Encoder Chips Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America AMR Magnetic Encoder Chips Consumption Value Market Share by Country (2021-2032)

Figure 48. United States AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe AMR Magnetic Encoder Chips Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe AMR Magnetic Encoder Chips Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe AMR Magnetic Encoder Chips Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe AMR Magnetic Encoder Chips Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 56. France AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific AMR Magnetic Encoder Chips Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific AMR Magnetic Encoder Chips Consumption Value Market Share by Region (2021-2032)

Figure 64. China AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 67. India AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 70. South America AMR Magnetic Encoder Chips Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America AMR Magnetic Encoder Chips Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America AMR Magnetic Encoder Chips Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America AMR Magnetic Encoder Chips Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa AMR Magnetic Encoder Chips Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa AMR Magnetic Encoder Chips Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa AMR Magnetic Encoder Chips Consumption Value (2021-2032) & (USD Million)

Figure 84. AMR Magnetic Encoder Chips Market Drivers

Figure 85. AMR Magnetic Encoder Chips Market Restraints

Figure 86. AMR Magnetic Encoder Chips Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of AMR Magnetic Encoder Chips in 2025

Figure 89. Manufacturing Process Analysis of AMR Magnetic Encoder Chips

Figure 90. AMR Magnetic Encoder Chips Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

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