

# Global AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors market size was valued at US\$ 158 million in 2025 and is forecast to a readjusted size of US\$ 208 million by 2032 with a CAGR of 4.0% during review period.

In 2025, global sales of AGV Magnetic Navigation Sensors reached approximately 1.1 million units, with an average market price of about USD 140 per unit, an annual production capacity of roughly 1.6 units, and an industry-average gross margin of approximately 35%.

AGV magnetic navigation sensors are dedicated magnetic-field sensing devices mounted on automated guided vehicles (AGVs) to detect the magnetic field generated by floor-embedded or surface-mounted magnetic tape, markers, or rails, and to provide lateral offset and heading information to the vehicle controller for path following. Typically based on Hall-effect arrays or other magnetoresistive / coded-magnet technologies, they offer non-contact operation, resistance to dust and oil, high resolution and fast response, and form a key component in conventional magnetic-tape / magnetic-spot guided AGV systems.

On the upstream side, AGV magnetic navigation sensors depend on magnetic-sensing ICs (Hall / MR), MCUs and signal-processing chips, PCBs, connectors and cable harnesses, metal or engineering-plastic housings, and the magnetic tape / spot materials installed on the floor, with semiconductor, magnetic-material, and PCB/harness suppliers forming the key nodes. Midstream players—specialized sensor manufacturers and AGV component suppliers—handle module design, calibration, and

assembly, selling mainly through AGV OEMs, system integrators, and automation solution providers. Downstream consumption is closely tied to new AGV deployments plus retrofits and maintenance: the AGV market itself is already worth several billion dollars, and magnetic guidance remains a cost-effective navigation option within it. Typical magnetic-tape guided AGVs use 1–3 sensors per vehicle, and replacement demand from failures, route changes, and performance upgrades supports a steady aftermarket for these sensors.

This report is a detailed and comprehensive analysis for global AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AGV Magnetic Navigation Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AGV Magnetic Navigation Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AGV Magnetic Navigation Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 AGV Magnetic Navigation Sensors
- 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 AGV Magnetic Navigation Sensors 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 Naviq, Nidec, Multidimension Technology, KCONBOT, Chengdu Hangfa Robotics, Zhejiang Tongzhu, CCFROBOT, Dagasensor, MEMSPlus, etc.

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

## **Market Segmentation**

AGV Magnetic Navigation Sensors 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

Hall-array

TMR

### Market segment by Structure

Linear-array

Magnetic Spot

### Market segment by Application

Intralogistics & Warehousing

Production Line Material Handling

Others

## Major players covered

Naviq

Nidec

Multidimension Technology

KCONBOT

Chengdu Hangfa Robotics

Zhejiang Tongzhu

CCFROBOT

Dagasensor

MEMSPlus

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 AGV Magnetic Navigation Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AGV Magnetic Navigation Sensors, with price, sales quantity, revenue, and global market share of AGV Magnetic Navigation Sensors from 2021 to 2026.

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

Chapter 4, the AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors.

Chapter 14 and 15, to describe AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Hall-array

1.3.3 TMR

1.4 Market Analysis by Structure

1.4.1 Overview: Global AGV Magnetic Navigation Sensors Consumption Value by Structure: 2021 Versus 2025 Versus 2032

1.4.2 Linear-array

1.4.3 Magnetic Spot

1.5 Market Analysis by Application

1.5.1 Overview: Global AGV Magnetic Navigation Sensors Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Intralogistics & Warehousing

1.5.3 Production Line Material Handling

1.5.4 Others

1.6 Global AGV Magnetic Navigation Sensors Market Size & Forecast

1.6.1 Global AGV Magnetic Navigation Sensors Consumption Value (2021 & 2025 & 2032)

1.6.2 Global AGV Magnetic Navigation Sensors Sales Quantity (2021-2032)

1.6.3 Global AGV Magnetic Navigation Sensors Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Naviq

2.1.1 Naviq Details

2.1.2 Naviq Major Business

2.1.3 Naviq AGV Magnetic Navigation Sensors Product and Services

2.1.4 Naviq AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Naviq Recent Developments/Updates

2.2 Nidec

2.2.1 Nidec Details

- 2.2.2 Nidec Major Business
- 2.2.3 Nidec AGV Magnetic Navigation Sensors Product and Services
- 2.2.4 Nidec AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Nidec Recent Developments/Updates
- 2.3 Multidimension Technology
  - 2.3.1 Multidimension Technology Details
  - 2.3.2 Multidimension Technology Major Business
  - 2.3.3 Multidimension Technology AGV Magnetic Navigation Sensors Product and Services
  - 2.3.4 Multidimension Technology AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Multidimension Technology Recent Developments/Updates
- 2.4 KCONBOT
  - 2.4.1 KCONBOT Details
  - 2.4.2 KCONBOT Major Business
  - 2.4.3 KCONBOT AGV Magnetic Navigation Sensors Product and Services
  - 2.4.4 KCONBOT AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 KCONBOT Recent Developments/Updates
- 2.5 Chengdu Hangfa Robotics
  - 2.5.1 Chengdu Hangfa Robotics Details
  - 2.5.2 Chengdu Hangfa Robotics Major Business
  - 2.5.3 Chengdu Hangfa Robotics AGV Magnetic Navigation Sensors Product and Services
  - 2.5.4 Chengdu Hangfa Robotics AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Chengdu Hangfa Robotics Recent Developments/Updates
- 2.6 Zhejiang Tongzhu
  - 2.6.1 Zhejiang Tongzhu Details
  - 2.6.2 Zhejiang Tongzhu Major Business
  - 2.6.3 Zhejiang Tongzhu AGV Magnetic Navigation Sensors Product and Services
  - 2.6.4 Zhejiang Tongzhu AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.6.5 Zhejiang Tongzhu Recent Developments/Updates
- 2.7 CCFROBOT
  - 2.7.1 CCFROBOT Details
  - 2.7.2 CCFROBOT Major Business
  - 2.7.3 CCFROBOT AGV Magnetic Navigation Sensors Product and Services

2.7.4 CCFROBOT AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 CCFROBOT Recent Developments/Updates

2.8 Dagasensor

2.8.1 Dagasensor Details

2.8.2 Dagasensor Major Business

2.8.3 Dagasensor AGV Magnetic Navigation Sensors Product and Services

2.8.4 Dagasensor AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Dagasensor Recent Developments/Updates

2.9 MEMSPlus

2.9.1 MEMSPlus Details

2.9.2 MEMSPlus Major Business

2.9.3 MEMSPlus AGV Magnetic Navigation Sensors Product and Services

2.9.4 MEMSPlus AGV Magnetic Navigation Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 MEMSPlus Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: AGV MAGNETIC NAVIGATION SENSORS BY MANUFACTURER**

3.1 Global AGV Magnetic Navigation Sensors Sales Quantity by Manufacturer (2021-2026)

3.2 Global AGV Magnetic Navigation Sensors Revenue by Manufacturer (2021-2026)

3.3 Global AGV Magnetic Navigation Sensors Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of AGV Magnetic Navigation Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 AGV Magnetic Navigation Sensors Manufacturer Market Share in 2025

3.4.3 Top 6 AGV Magnetic Navigation Sensors Manufacturer Market Share in 2025

3.5 AGV Magnetic Navigation Sensors Market: Overall Company Footprint Analysis

3.5.1 AGV Magnetic Navigation Sensors Market: Region Footprint

3.5.2 AGV Magnetic Navigation Sensors Market: Company Product Type Footprint

3.5.3 AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Market Size by Region

4.1.1 Global AGV Magnetic Navigation Sensors Sales Quantity by Region (2021-2032)

4.1.2 Global AGV Magnetic Navigation Sensors Consumption Value by Region (2021-2032)

4.1.3 Global AGV Magnetic Navigation Sensors Average Price by Region (2021-2032)

4.2 North America AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

4.3 Europe AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

4.4 Asia-Pacific AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

4.5 South America AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

4.6 Middle East & Africa AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2032)

5.2 Global AGV Magnetic Navigation Sensors Consumption Value by Type (2021-2032)

5.3 Global AGV Magnetic Navigation Sensors Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2032)

6.2 Global AGV Magnetic Navigation Sensors Consumption Value by Application (2021-2032)

6.3 Global AGV Magnetic Navigation Sensors Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2032)

7.2 North America AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2032)

7.3 North America AGV Magnetic Navigation Sensors Market Size by Country

7.3.1 North America AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2032)

7.3.2 North America AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2032)

8.2 Europe AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2032)

8.3 Europe AGV Magnetic Navigation Sensors Market Size by Country

8.3.1 Europe AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2032)

8.3.2 Europe AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific AGV Magnetic Navigation Sensors Market Size by Region

9.3.1 Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2032)
- 10.2 South America AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2032)
- 10.3 South America AGV Magnetic Navigation Sensors Market Size by Country
  - 10.3.1 South America AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2032)
  - 10.3.2 South America AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa AGV Magnetic Navigation Sensors Market Size by Country
  - 11.3.1 Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Market Drivers
- 12.2 AGV Magnetic Navigation Sensors Market Restraints
- 12.3 AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors and Key Manufacturers

13.2 Manufacturing Costs Percentage of AGV Magnetic Navigation Sensors

13.3 AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Typical Distributors

14.3 AGV Magnetic Navigation Sensors 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 AGV Magnetic Navigation Sensors Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global AGV Magnetic Navigation Sensors Consumption Value by Structure, (USD Million), 2021 & 2025 & 2032
- Table 3. Global AGV Magnetic Navigation Sensors Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 4. Naviq Basic Information, Manufacturing Base and Competitors
- Table 5. Naviq Major Business
- Table 6. Naviq AGV Magnetic Navigation Sensors Product and Services
- Table 7. Naviq AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 8. Naviq Recent Developments/Updates
- Table 9. Nidec Basic Information, Manufacturing Base and Competitors
- Table 10. Nidec Major Business
- Table 11. Nidec AGV Magnetic Navigation Sensors Product and Services
- Table 12. Nidec AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 13. Nidec Recent Developments/Updates
- Table 14. Multidimension Technology Basic Information, Manufacturing Base and Competitors
- Table 15. Multidimension Technology Major Business
- Table 16. Multidimension Technology AGV Magnetic Navigation Sensors Product and Services
- Table 17. Multidimension Technology AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 18. Multidimension Technology Recent Developments/Updates
- Table 19. KCONBOT Basic Information, Manufacturing Base and Competitors
- Table 20. KCONBOT Major Business
- Table 21. KCONBOT AGV Magnetic Navigation Sensors Product and Services
- Table 22. KCONBOT AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 23. KCONBOT Recent Developments/Updates
- Table 24. Chengdu Hangfa Robotics Basic Information, Manufacturing Base and

## Competitors

Table 25. Chengdu Hangfa Robotics Major Business

Table 26. Chengdu Hangfa Robotics AGV Magnetic Navigation Sensors Product and Services

Table 27. Chengdu Hangfa Robotics AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Chengdu Hangfa Robotics Recent Developments/Updates

Table 29. Zhejiang Tongzhu Basic Information, Manufacturing Base and Competitors

Table 30. Zhejiang Tongzhu Major Business

Table 31. Zhejiang Tongzhu AGV Magnetic Navigation Sensors Product and Services

Table 32. Zhejiang Tongzhu AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Zhejiang Tongzhu Recent Developments/Updates

Table 34. CCFROBOT Basic Information, Manufacturing Base and Competitors

Table 35. CCFROBOT Major Business

Table 36. CCFROBOT AGV Magnetic Navigation Sensors Product and Services

Table 37. CCFROBOT AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. CCFROBOT Recent Developments/Updates

Table 39. Dagasensor Basic Information, Manufacturing Base and Competitors

Table 40. Dagasensor Major Business

Table 41. Dagasensor AGV Magnetic Navigation Sensors Product and Services

Table 42. Dagasensor AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. Dagasensor Recent Developments/Updates

Table 44. MEMSPlus Basic Information, Manufacturing Base and Competitors

Table 45. MEMSPlus Major Business

Table 46. MEMSPlus AGV Magnetic Navigation Sensors Product and Services

Table 47. MEMSPlus AGV Magnetic Navigation Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. MEMSPlus Recent Developments/Updates

Table 49. Global AGV Magnetic Navigation Sensors Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 50. Global AGV Magnetic Navigation Sensors Revenue by Manufacturer

(2021-2026) & (USD Million)

Table 51. Global AGV Magnetic Navigation Sensors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 52. Market Position of Manufacturers in AGV Magnetic Navigation Sensors, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 53. Head Office and AGV Magnetic Navigation Sensors Production Site of Key Manufacturer

Table 54. AGV Magnetic Navigation Sensors Market: Company Product Type Footprint

Table 55. AGV Magnetic Navigation Sensors Market: Company Product Application Footprint

Table 56. AGV Magnetic Navigation Sensors New Market Entrants and Barriers to Market Entry

Table 57. AGV Magnetic Navigation Sensors Mergers, Acquisition, Agreements, and Collaborations

Table 58. Global AGV Magnetic Navigation Sensors Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 59. Global AGV Magnetic Navigation Sensors Sales Quantity by Region (2021-2026) & (K Units)

Table 60. Global AGV Magnetic Navigation Sensors Sales Quantity by Region (2027-2032) & (K Units)

Table 61. Global AGV Magnetic Navigation Sensors Consumption Value by Region (2021-2026) & (USD Million)

Table 62. Global AGV Magnetic Navigation Sensors Consumption Value by Region (2027-2032) & (USD Million)

Table 63. Global AGV Magnetic Navigation Sensors Average Price by Region (2021-2026) & (US\$/Unit)

Table 64. Global AGV Magnetic Navigation Sensors Average Price by Region (2027-2032) & (US\$/Unit)

Table 65. Global AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2026) & (K Units)

Table 66. Global AGV Magnetic Navigation Sensors Sales Quantity by Type (2027-2032) & (K Units)

Table 67. Global AGV Magnetic Navigation Sensors Consumption Value by Type (2021-2026) & (USD Million)

Table 68. Global AGV Magnetic Navigation Sensors Consumption Value by Type (2027-2032) & (USD Million)

Table 69. Global AGV Magnetic Navigation Sensors Average Price by Type (2021-2026) & (US\$/Unit)

Table 70. Global AGV Magnetic Navigation Sensors Average Price by Type

(2027-2032) & (US\$/Unit)

Table 71. Global AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 72. Global AGV Magnetic Navigation Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 73. Global AGV Magnetic Navigation Sensors Consumption Value by Application (2021-2026) & (USD Million)

Table 74. Global AGV Magnetic Navigation Sensors Consumption Value by Application (2027-2032) & (USD Million)

Table 75. Global AGV Magnetic Navigation Sensors Average Price by Application (2021-2026) & (US\$/Unit)

Table 76. Global AGV Magnetic Navigation Sensors Average Price by Application (2027-2032) & (US\$/Unit)

Table 77. North America AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2026) & (K Units)

Table 78. North America AGV Magnetic Navigation Sensors Sales Quantity by Type (2027-2032) & (K Units)

Table 79. North America AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 80. North America AGV Magnetic Navigation Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 81. North America AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 82. North America AGV Magnetic Navigation Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 83. North America AGV Magnetic Navigation Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 84. North America AGV Magnetic Navigation Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 85. Europe AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2026) & (K Units)

Table 86. Europe AGV Magnetic Navigation Sensors Sales Quantity by Type (2027-2032) & (K Units)

Table 87. Europe AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Europe AGV Magnetic Navigation Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Europe AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 90. Europe AGV Magnetic Navigation Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 91. Europe AGV Magnetic Navigation Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 92. Europe AGV Magnetic Navigation Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 93. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2026) & (K Units)

Table 94. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Type (2027-2032) & (K Units)

Table 95. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 96. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 97. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Region (2021-2026) & (K Units)

Table 98. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity by Region (2027-2032) & (K Units)

Table 99. Asia-Pacific AGV Magnetic Navigation Sensors Consumption Value by Region (2021-2026) & (USD Million)

Table 100. Asia-Pacific AGV Magnetic Navigation Sensors Consumption Value by Region (2027-2032) & (USD Million)

Table 101. South America AGV Magnetic Navigation Sensors Sales Quantity by Type (2021-2026) & (K Units)

Table 102. South America AGV Magnetic Navigation Sensors Sales Quantity by Type (2027-2032) & (K Units)

Table 103. South America AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 104. South America AGV Magnetic Navigation Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 105. South America AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 106. South America AGV Magnetic Navigation Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 107. South America AGV Magnetic Navigation Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 108. South America AGV Magnetic Navigation Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by

Type (2021-2026) & (K Units)

Table 110. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 114. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 115. Middle East & Africa AGV Magnetic Navigation Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 116. Middle East & Africa AGV Magnetic Navigation Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 117. AGV Magnetic Navigation Sensors Raw Material

Table 118. Key Manufacturers of AGV Magnetic Navigation Sensors Raw Materials

Table 119. AGV Magnetic Navigation Sensors Typical Distributors

Table 120. AGV Magnetic Navigation Sensors Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. AGV Magnetic Navigation Sensors Picture
- Figure 2. Global AGV Magnetic Navigation Sensors Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global AGV Magnetic Navigation Sensors Revenue Market Share by Type in 2025
- Figure 4. Hall-array Examples
- Figure 5. TMR Examples
- Figure 6. Global AGV Magnetic Navigation Sensors Revenue by Structure, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global AGV Magnetic Navigation Sensors Revenue Market Share by Structure in 2025
- Figure 8. Linear-array Examples
- Figure 9. Magnetic Spot Examples
- Figure 10. Global AGV Magnetic Navigation Sensors Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global AGV Magnetic Navigation Sensors Revenue Market Share by Application in 2025
- Figure 12. Intralogistics & Warehousing Examples
- Figure 13. Production Line Material Handling Examples
- Figure 14. Others Examples
- Figure 15. Global AGV Magnetic Navigation Sensors Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 16. Global AGV Magnetic Navigation Sensors Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 17. Global AGV Magnetic Navigation Sensors Sales Quantity (2021-2032) & (K Units)
- Figure 18. Global AGV Magnetic Navigation Sensors Price (2021-2032) & (US\$/Unit)
- Figure 19. Global AGV Magnetic Navigation Sensors Sales Quantity Market Share by Manufacturer in 2025
- Figure 20. Global AGV Magnetic Navigation Sensors Revenue Market Share by Manufacturer in 2025
- Figure 21. Producer Shipments of AGV Magnetic Navigation Sensors by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 22. Top 3 AGV Magnetic Navigation Sensors Manufacturer (Revenue) Market Share in 2025

Figure 23. Top 6 AGV Magnetic Navigation Sensors Manufacturer (Revenue) Market Share in 2025

Figure 24. Global AGV Magnetic Navigation Sensors Sales Quantity Market Share by Region (2021-2032)

Figure 25. Global AGV Magnetic Navigation Sensors Consumption Value Market Share by Region (2021-2032)

Figure 26. North America AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 27. Europe AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 28. Asia-Pacific AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 29. South America AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 30. Middle East & Africa AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 31. Global AGV Magnetic Navigation Sensors Sales Quantity Market Share by Type (2021-2032)

Figure 32. Global AGV Magnetic Navigation Sensors Consumption Value Market Share by Type (2021-2032)

Figure 33. Global AGV Magnetic Navigation Sensors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 34. Global AGV Magnetic Navigation Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 35. Global AGV Magnetic Navigation Sensors Revenue Market Share by Application (2021-2032)

Figure 36. Global AGV Magnetic Navigation Sensors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 37. North America AGV Magnetic Navigation Sensors Sales Quantity Market Share by Type (2021-2032)

Figure 38. North America AGV Magnetic Navigation Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 39. North America AGV Magnetic Navigation Sensors Sales Quantity Market Share by Country (2021-2032)

Figure 40. North America AGV Magnetic Navigation Sensors Consumption Value Market Share by Country (2021-2032)

Figure 41. United States AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 42. Canada AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

& (USD Million)

Figure 43. Mexico AGV Magnetic Navigation Sensors Consumption Value (2021-2032)

& (USD Million)

Figure 44. Europe AGV Magnetic Navigation Sensors Sales Quantity Market Share by Type (2021-2032)

Figure 45. Europe AGV Magnetic Navigation Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 46. Europe AGV Magnetic Navigation Sensors Sales Quantity Market Share by Country (2021-2032)

Figure 47. Europe AGV Magnetic Navigation Sensors Consumption Value Market Share by Country (2021-2032)

Figure 48. Germany AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 49. France AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 50. United Kingdom AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 51. Russia AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 52. Italy AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 53. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity Market Share by Type (2021-2032)

Figure 54. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 55. Asia-Pacific AGV Magnetic Navigation Sensors Sales Quantity Market Share by Region (2021-2032)

Figure 56. Asia-Pacific AGV Magnetic Navigation Sensors Consumption Value Market Share by Region (2021-2032)

Figure 57. China AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 58. Japan AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 59. South Korea AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 60. India AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

Figure 61. Southeast Asia AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)

- Figure 62. Australia AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 63. South America AGV Magnetic Navigation Sensors Sales Quantity Market Share by Type (2021-2032)
- Figure 64. South America AGV Magnetic Navigation Sensors Sales Quantity Market Share by Application (2021-2032)
- Figure 65. South America AGV Magnetic Navigation Sensors Sales Quantity Market Share by Country (2021-2032)
- Figure 66. South America AGV Magnetic Navigation Sensors Consumption Value Market Share by Country (2021-2032)
- Figure 67. Brazil AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 68. Argentina AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 69. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity Market Share by Type (2021-2032)
- Figure 70. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity Market Share by Application (2021-2032)
- Figure 71. Middle East & Africa AGV Magnetic Navigation Sensors Sales Quantity Market Share by Country (2021-2032)
- Figure 72. Middle East & Africa AGV Magnetic Navigation Sensors Consumption Value Market Share by Country (2021-2032)
- Figure 73. Turkey AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 74. Egypt AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 75. Saudi Arabia AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 76. South Africa AGV Magnetic Navigation Sensors Consumption Value (2021-2032) & (USD Million)
- Figure 77. AGV Magnetic Navigation Sensors Market Drivers
- Figure 78. AGV Magnetic Navigation Sensors Market Restraints
- Figure 79. AGV Magnetic Navigation Sensors Market Trends
- Figure 80. Porters Five Forces Analysis
- Figure 81. Manufacturing Cost Structure Analysis of AGV Magnetic Navigation Sensors in 2025
- Figure 82. Manufacturing Process Analysis of AGV Magnetic Navigation Sensors
- Figure 83. AGV Magnetic Navigation Sensors Industrial Chain
- Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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