

# Global AGV Magnetic Strip Navigation Sensors Market Growth 2026-2032

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## Abstracts

The global AGV Magnetic Strip Navigation Sensors market size is predicted to grow from US\$ 151 million in 2025 to US\$ 201 million in 2032; it is expected to grow at a CAGR of 4.3% from 2026 to 2032.

In 2025, global sales of AGV Magnetic Strip 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 Strip 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 Strip 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.

United States market for AGV Magnetic Strip Navigation Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AGV Magnetic Strip Navigation Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AGV Magnetic Strip Navigation Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AGV Magnetic Strip Navigation Sensors players cover Naviq, Nidec, Multidimension Technology, KCONBOT, Chengdu Hangfa Robotics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AGV Magnetic Strip Navigation Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of AGV Magnetic Strip Navigation Sensors market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Hall-array

TMR

#### Segmentation by Structure:

Linear-array

Magnetic Spot

#### Segmentation by Application:

Intralogistics & Warehousing

Production Line Material Handling

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.

Naviq

Nidec

Multidimension Technology

KCONBOT

Chengdu Hangfa Robotics

Zhejiang Tongzhu

CCFROBOT

Dagasensor

MEMSPlus

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global AGV Magnetic Strip Navigation Sensors market?

What factors are driving AGV Magnetic Strip Navigation Sensors market growth, globally and by region?

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

How do AGV Magnetic Strip Navigation Sensors market opportunities vary by end market size?

How does AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for AGV Magnetic Strip Navigation Sensors by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for AGV Magnetic Strip Navigation Sensors by Country/Region, 2021, 2025 & 2032

#### 2.2 AGV Magnetic Strip Navigation Sensors Segment by Type

- 2.2.1 Hall-array
- 2.2.2 TMR
- 2.2.3 AGV Magnetic Strip Navigation Sensors Sales by Type
  - 2.2.3.1 Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Type (2021-2026)
  - 2.2.3.2 Global AGV Magnetic Strip Navigation Sensors Revenue and Market Share by Type (2021-2026)
  - 2.2.3.3 Global AGV Magnetic Strip Navigation Sensors Sale Price by Type (2021-2026)

#### 2.3 AGV Magnetic Strip Navigation Sensors Segment by Structure

- 2.3.1 Linear-array
- 2.3.2 Magnetic Spot
- 2.3.3 AGV Magnetic Strip Navigation Sensors Sales by Structure
  - 2.3.3.1 Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Structure (2021-2026)
  - 2.3.3.2 Global AGV Magnetic Strip Navigation Sensors Revenue and Market Share by Structure (2021-2026)

2.3.3.3 Global AGV Magnetic Strip Navigation Sensors Sale Price by Structure (2021-2026)

2.4 AGV Magnetic Strip Navigation Sensors Segment by Application

2.4.1 Intralogistics & Warehousing

2.4.2 Production Line Material Handling

2.4.3 Others

2.4.4 AGV Magnetic Strip Navigation Sensors Sales by Application

2.4.4.1 Global AGV Magnetic Strip Navigation Sensors Sale Market Share by Application (2021-2026)

2.4.4.2 Global AGV Magnetic Strip Navigation Sensors Revenue and Market Share by Application (2021-2026)

2.4.4.3 Global AGV Magnetic Strip Navigation Sensors Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global AGV Magnetic Strip Navigation Sensors Breakdown Data by Company

3.1.1 Global AGV Magnetic Strip Navigation Sensors Annual Sales by Company (2021-2026)

3.1.2 Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Company (2021-2026)

3.2 Global AGV Magnetic Strip Navigation Sensors Annual Revenue by Company (2021-2026)

3.2.1 Global AGV Magnetic Strip Navigation Sensors Revenue by Company (2021-2026)

3.2.2 Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Company (2021-2026)

3.3 Global AGV Magnetic Strip Navigation Sensors Sale Price by Company

3.4 Key Manufacturers AGV Magnetic Strip Navigation Sensors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers AGV Magnetic Strip Navigation Sensors Product Location Distribution

3.4.2 Players AGV Magnetic Strip Navigation Sensors 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 AGV MAGNETIC STRIP NAVIGATION SENSORS BY GEOGRAPHIC REGION**

4.1 World Historic AGV Magnetic Strip Navigation Sensors Market Size by Geographic Region (2021-2026)

4.1.1 Global AGV Magnetic Strip Navigation Sensors Annual Sales by Geographic Region (2021-2026)

4.1.2 Global AGV Magnetic Strip Navigation Sensors Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic AGV Magnetic Strip Navigation Sensors Market Size by Country/Region (2021-2026)

4.2.1 Global AGV Magnetic Strip Navigation Sensors Annual Sales by Country/Region (2021-2026)

4.2.2 Global AGV Magnetic Strip Navigation Sensors Annual Revenue by Country/Region (2021-2026)

4.3 Americas AGV Magnetic Strip Navigation Sensors Sales Growth

4.4 APAC AGV Magnetic Strip Navigation Sensors Sales Growth

4.5 Europe AGV Magnetic Strip Navigation Sensors Sales Growth

4.6 Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales Growth

## **5 AMERICAS**

5.1 Americas AGV Magnetic Strip Navigation Sensors Sales by Country

5.1.1 Americas AGV Magnetic Strip Navigation Sensors Sales by Country (2021-2026)

5.1.2 Americas AGV Magnetic Strip Navigation Sensors Revenue by Country (2021-2026)

5.2 Americas AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026)

5.3 Americas AGV Magnetic Strip Navigation Sensors Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC AGV Magnetic Strip Navigation Sensors Sales by Region

6.1.1 APAC AGV Magnetic Strip Navigation Sensors Sales by Region (2021-2026)

6.1.2 APAC AGV Magnetic Strip Navigation Sensors Revenue by Region (2021-2026)

6.2 APAC AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026)

## 6.3 APAC AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors by Country

7.1.1 Europe AGV Magnetic Strip Navigation Sensors Sales by Country (2021-2026)

7.1.2 Europe AGV Magnetic Strip Navigation Sensors Revenue by Country (2021-2026)

### 7.2 Europe AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026)

### 7.3 Europe AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors by Country

8.1.1 Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales by Country (2021-2026)

8.1.2 Middle East & Africa AGV Magnetic Strip Navigation Sensors Revenue by Country (2021-2026)

### 8.2 Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026)

### 8.3 Middle East & Africa AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors
- 10.3 Manufacturing Process Analysis of AGV Magnetic Strip Navigation Sensors
- 10.4 Industry Chain Structure of AGV Magnetic Strip Navigation Sensors

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

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 AGV Magnetic Strip Navigation Sensors Distributors
- 11.3 AGV Magnetic Strip Navigation Sensors Customer

## **12 WORLD FORECAST REVIEW FOR AGV MAGNETIC STRIP NAVIGATION SENSORS BY GEOGRAPHIC REGION**

- 12.1 Global AGV Magnetic Strip Navigation Sensors Market Size Forecast by Region
  - 12.1.1 Global AGV Magnetic Strip Navigation Sensors Forecast by Region (2027-2032)
  - 12.1.2 Global AGV Magnetic Strip Navigation Sensors 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 AGV Magnetic Strip Navigation Sensors Forecast by Type (2027-2032)
- 12.7 Global AGV Magnetic Strip Navigation Sensors Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

## 13.1 Naviq

13.1.1 Naviq Company Information

13.1.2 Naviq AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

13.1.3 Naviq AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Naviq Main Business Overview

13.1.5 Naviq Latest Developments

## 13.2 Nidec

13.2.1 Nidec Company Information

13.2.2 Nidec AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

13.2.3 Nidec AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Nidec Main Business Overview

13.2.5 Nidec Latest Developments

## 13.3 Multidimension Technology

13.3.1 Multidimension Technology Company Information

13.3.2 Multidimension Technology AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

13.3.3 Multidimension Technology AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Multidimension Technology Main Business Overview

13.3.5 Multidimension Technology Latest Developments

## 13.4 KCONBOT

13.4.1 KCONBOT Company Information

13.4.2 KCONBOT AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

13.4.3 KCONBOT AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 KCONBOT Main Business Overview

13.4.5 KCONBOT Latest Developments

## 13.5 Chengdu Hangfa Robotics

13.5.1 Chengdu Hangfa Robotics Company Information

13.5.2 Chengdu Hangfa Robotics AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

13.5.3 Chengdu Hangfa Robotics AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.5.4 Chengdu Hangfa Robotics Main Business Overview
- 13.5.5 Chengdu Hangfa Robotics Latest Developments
- 13.6 Zhejiang Tongzhu
  - 13.6.1 Zhejiang Tongzhu Company Information
  - 13.6.2 Zhejiang Tongzhu AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications
  - 13.6.3 Zhejiang Tongzhu AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 Zhejiang Tongzhu Main Business Overview
  - 13.6.5 Zhejiang Tongzhu Latest Developments
- 13.7 CCFROBOT
  - 13.7.1 CCFROBOT Company Information
  - 13.7.2 CCFROBOT AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications
  - 13.7.3 CCFROBOT AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 CCFROBOT Main Business Overview
  - 13.7.5 CCFROBOT Latest Developments
- 13.8 Dagasensor
  - 13.8.1 Dagasensor Company Information
  - 13.8.2 Dagasensor AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications
  - 13.8.3 Dagasensor AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 Dagasensor Main Business Overview
  - 13.8.5 Dagasensor Latest Developments
- 13.9 MEMSPlus
  - 13.9.1 MEMSPlus Company Information
  - 13.9.2 MEMSPlus AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications
  - 13.9.3 MEMSPlus AGV Magnetic Strip Navigation Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.9.4 MEMSPlus Main Business Overview
  - 13.9.5 MEMSPlus Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. AGV Magnetic Strip Navigation Sensors Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. AGV Magnetic Strip Navigation Sensors Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Hall-array

Table 4. Major Players of TMR

Table 5. Global AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026) & (K Units)

Table 6. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Type (2021-2026)

Table 7. Global AGV Magnetic Strip Navigation Sensors Revenue by Type (2021-2026) & (\$ million)

Table 8. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Type (2021-2026)

Table 9. Global AGV Magnetic Strip Navigation Sensors Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Linear-array

Table 11. Major Players of Magnetic Spot

Table 12. Global AGV Magnetic Strip Navigation Sensors Sales by Structure (2021-2026) & (K Units)

Table 13. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Structure (2021-2026)

Table 14. Global AGV Magnetic Strip Navigation Sensors Revenue by Structure (2021-2026) & (\$ million)

Table 15. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Structure (2021-2026)

Table 16. Global AGV Magnetic Strip Navigation Sensors Sale Price by Structure (2021-2026) & (US\$/Unit)

Table 17. Global AGV Magnetic Strip Navigation Sensors Sale by Application (2021-2026) & (K Units)

Table 18. Global AGV Magnetic Strip Navigation Sensors Sale Market Share by Application (2021-2026)

Table 19. Global AGV Magnetic Strip Navigation Sensors Revenue by Application (2021-2026) & (\$ million)

Table 20. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by

Application (2021-2026)

Table 21. Global AGV Magnetic Strip Navigation Sensors Sale Price by Application (2021-2026) & (US\$/Unit)

Table 22. Global AGV Magnetic Strip Navigation Sensors Sales by Company (2021-2026) & (K Units)

Table 23. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Company (2021-2026)

Table 24. Global AGV Magnetic Strip Navigation Sensors Revenue by Company (2021-2026) & (\$ millions)

Table 25. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Company (2021-2026)

Table 26. Global AGV Magnetic Strip Navigation Sensors Sale Price by Company (2021-2026) & (US\$/Unit)

Table 27. Key Manufacturers AGV Magnetic Strip Navigation Sensors Producing Area Distribution and Sales Area

Table 28. Players AGV Magnetic Strip Navigation Sensors Products Offered

Table 29. AGV Magnetic Strip Navigation Sensors Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 30. New Products and Potential Entrants

Table 31. Market M&A Activity & Strategy

Table 32. Global AGV Magnetic Strip Navigation Sensors Sales by Geographic Region (2021-2026) & (K Units)

Table 33. Global AGV Magnetic Strip Navigation Sensors Sales Market Share Geographic Region (2021-2026)

Table 34. Global AGV Magnetic Strip Navigation Sensors Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 35. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Geographic Region (2021-2026)

Table 36. Global AGV Magnetic Strip Navigation Sensors Sales by Country/Region (2021-2026) & (K Units)

Table 37. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Country/Region (2021-2026)

Table 38. Global AGV Magnetic Strip Navigation Sensors Revenue by Country/Region (2021-2026) & (\$ millions)

Table 39. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Country/Region (2021-2026)

Table 40. Americas AGV Magnetic Strip Navigation Sensors Sales by Country (2021-2026) & (K Units)

Table 41. Americas AGV Magnetic Strip Navigation Sensors Sales Market Share by

Country (2021-2026)

Table 42. Americas AGV Magnetic Strip Navigation Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 43. Americas AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026) & (K Units)

Table 44. Americas AGV Magnetic Strip Navigation Sensors Sales by Application (2021-2026) & (K Units)

Table 45. APAC AGV Magnetic Strip Navigation Sensors Sales by Region (2021-2026) & (K Units)

Table 46. APAC AGV Magnetic Strip Navigation Sensors Sales Market Share by Region (2021-2026)

Table 47. APAC AGV Magnetic Strip Navigation Sensors Revenue by Region (2021-2026) & (\$ millions)

Table 48. APAC AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026) & (K Units)

Table 49. APAC AGV Magnetic Strip Navigation Sensors Sales by Application (2021-2026) & (K Units)

Table 50. Europe AGV Magnetic Strip Navigation Sensors Sales by Country (2021-2026) & (K Units)

Table 51. Europe AGV Magnetic Strip Navigation Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 52. Europe AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026) & (K Units)

Table 53. Europe AGV Magnetic Strip Navigation Sensors Sales by Application (2021-2026) & (K Units)

Table 54. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales by Country (2021-2026) & (K Units)

Table 55. Middle East & Africa AGV Magnetic Strip Navigation Sensors Revenue Market Share by Country (2021-2026)

Table 56. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales by Type (2021-2026) & (K Units)

Table 57. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales by Application (2021-2026) & (K Units)

Table 58. Key Market Drivers & Growth Opportunities of AGV Magnetic Strip Navigation Sensors

Table 59. Key Market Challenges & Risks of AGV Magnetic Strip Navigation Sensors

Table 60. Key Industry Trends of AGV Magnetic Strip Navigation Sensors

Table 61. AGV Magnetic Strip Navigation Sensors Raw Material

Table 62. Key Suppliers of Raw Materials

Table 63. AGV Magnetic Strip Navigation Sensors Distributors List

Table 64. AGV Magnetic Strip Navigation Sensors Customer List

Table 65. Global AGV Magnetic Strip Navigation Sensors Sales Forecast by Region (2027-2032) & (K Units)

Table 66. Global AGV Magnetic Strip Navigation Sensors Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 67. Americas AGV Magnetic Strip Navigation Sensors Sales Forecast by Country (2027-2032) & (K Units)

Table 68. Americas AGV Magnetic Strip Navigation Sensors Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. APAC AGV Magnetic Strip Navigation Sensors Sales Forecast by Region (2027-2032) & (K Units)

Table 70. APAC AGV Magnetic Strip Navigation Sensors Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 71. Europe AGV Magnetic Strip Navigation Sensors Sales Forecast by Country (2027-2032) & (K Units)

Table 72. Europe AGV Magnetic Strip Navigation Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 73. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales Forecast by Country (2027-2032) & (K Units)

Table 74. Middle East & Africa AGV Magnetic Strip Navigation Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Global AGV Magnetic Strip Navigation Sensors Sales Forecast by Type (2027-2032) & (K Units)

Table 76. Global AGV Magnetic Strip Navigation Sensors Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 77. Global AGV Magnetic Strip Navigation Sensors Sales Forecast by Application (2027-2032) & (K Units)

Table 78. Global AGV Magnetic Strip Navigation Sensors Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 79. Naviq Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 80. Naviq AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 81. Naviq AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 82. Naviq Main Business

Table 83. Naviq Latest Developments

Table 84. Nidec Basic Information, AGV Magnetic Strip Navigation Sensors

Manufacturing Base, Sales Area and Its Competitors

Table 85. Nidec AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 86. Nidec AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 87. Nidec Main Business

Table 88. Nidec Latest Developments

Table 89. Multidimension Technology Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 90. Multidimension Technology AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 91. Multidimension Technology AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Multidimension Technology Main Business

Table 93. Multidimension Technology Latest Developments

Table 94. KCONBOT Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 95. KCONBOT AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 96. KCONBOT AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. KCONBOT Main Business

Table 98. KCONBOT Latest Developments

Table 99. Chengdu Hangfa Robotics Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 100. Chengdu Hangfa Robotics AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 101. Chengdu Hangfa Robotics AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Chengdu Hangfa Robotics Main Business

Table 103. Chengdu Hangfa Robotics Latest Developments

Table 104. Zhejiang Tongzhu Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 105. Zhejiang Tongzhu AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 106. Zhejiang Tongzhu AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Zhejiang Tongzhu Main Business

Table 108. Zhejiang Tongzhu Latest Developments

Table 109. CCFROBOT Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 110. CCFROBOT AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 111. CCFROBOT AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. CCFROBOT Main Business

Table 113. CCFROBOT Latest Developments

Table 114. Dagasensor Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 115. Dagasensor AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 116. Dagasensor AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Dagasensor Main Business

Table 118. Dagasensor Latest Developments

Table 119. MEMSPlus Basic Information, AGV Magnetic Strip Navigation Sensors Manufacturing Base, Sales Area and Its Competitors

Table 120. MEMSPlus AGV Magnetic Strip Navigation Sensors Product Portfolios and Specifications

Table 121. MEMSPlus AGV Magnetic Strip Navigation Sensors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. MEMSPlus Main Business

Table 123. MEMSPlus Latest Developments

## List Of Figures

### LIST OF FIGURES

Figure 1. Picture of AGV Magnetic Strip Navigation Sensors

Figure 2. AGV Magnetic Strip Navigation Sensors Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global AGV Magnetic Strip Navigation Sensors Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global AGV Magnetic Strip Navigation Sensors Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. AGV Magnetic Strip Navigation Sensors Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. AGV Magnetic Strip Navigation Sensors Sales Market Share by Country/Region (2025)

Figure 10. AGV Magnetic Strip Navigation Sensors Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Hall-array

Figure 12. Product Picture of TMR

Figure 13. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Type in 2026

Figure 14. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Linear-array

Figure 16. Product Picture of Magnetic Spot

Figure 17. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Structure in 2026

Figure 18. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Structure (2021-2026)

Figure 19. AGV Magnetic Strip Navigation Sensors Consumed in Intralogistics & Warehousing

Figure 20. Global AGV Magnetic Strip Navigation Sensors Market: Intralogistics & Warehousing (2021-2026) & (K Units)

Figure 21. AGV Magnetic Strip Navigation Sensors Consumed in Production Line Material Handling

Figure 22. Global AGV Magnetic Strip Navigation Sensors Market: Production Line Material Handling (2021-2026) & (K Units)

Figure 23. AGV Magnetic Strip Navigation Sensors Consumed in Others

Figure 24. Global AGV Magnetic Strip Navigation Sensors Market: Others (2021-2026) & (K Units)

Figure 25. Global AGV Magnetic Strip Navigation Sensors Sale Market Share by Application (2025)

Figure 26. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Application in 2026

Figure 27. AGV Magnetic Strip Navigation Sensors Sales by Company in 2026 (K Units)

Figure 28. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Company in 2026

Figure 29. AGV Magnetic Strip Navigation Sensors Revenue by Company in 2026 (\$ millions)

Figure 30. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Company in 2026

Figure 31. Global AGV Magnetic Strip Navigation Sensors Sales Market Share by Geographic Region (2021-2026)

Figure 32. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share by Geographic Region in 2026

Figure 33. Americas AGV Magnetic Strip Navigation Sensors Sales 2021-2026 (K Units)

Figure 34. Americas AGV Magnetic Strip Navigation Sensors Revenue 2021-2026 (\$ millions)

Figure 35. APAC AGV Magnetic Strip Navigation Sensors Sales 2021-2026 (K Units)

Figure 36. APAC AGV Magnetic Strip Navigation Sensors Revenue 2021-2026 (\$ millions)

Figure 37. Europe AGV Magnetic Strip Navigation Sensors Sales 2021-2026 (K Units)

Figure 38. Europe AGV Magnetic Strip Navigation Sensors Revenue 2021-2026 (\$ millions)

Figure 39. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales 2021-2026 (K Units)

Figure 40. Middle East & Africa AGV Magnetic Strip Navigation Sensors Revenue 2021-2026 (\$ millions)

Figure 41. Americas AGV Magnetic Strip Navigation Sensors Sales Market Share by Country in 2026

Figure 42. Americas AGV Magnetic Strip Navigation Sensors Revenue Market Share by Country (2021-2026)

Figure 43. Americas AGV Magnetic Strip Navigation Sensors Sales Market Share by Type (2021-2026)

Figure 44. Americas AGV Magnetic Strip Navigation Sensors Sales Market Share by Application (2021-2026)

Figure 45. United States AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 46. Canada AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 47. Mexico AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 48. Brazil AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 49. APAC AGV Magnetic Strip Navigation Sensors Sales Market Share by Region in 2026

Figure 50. APAC AGV Magnetic Strip Navigation Sensors Revenue Market Share by Region (2021-2026)

Figure 51. APAC AGV Magnetic Strip Navigation Sensors Sales Market Share by Type (2021-2026)

Figure 52. APAC AGV Magnetic Strip Navigation Sensors Sales Market Share by Application (2021-2026)

Figure 53. China AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 54. Japan AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 55. South Korea AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 56. Southeast Asia AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 57. India AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 58. Australia AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 59. China Taiwan AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 60. Europe AGV Magnetic Strip Navigation Sensors Sales Market Share by Country in 2026

Figure 61. Europe AGV Magnetic Strip Navigation Sensors Revenue Market Share by Country (2021-2026)

Figure 62. Europe AGV Magnetic Strip Navigation Sensors Sales Market Share by Type (2021-2026)

Figure 63. Europe AGV Magnetic Strip Navigation Sensors Sales Market Share by Application (2021-2026)

Figure 64. Germany AGV Magnetic Strip Navigation Sensors Revenue Growth

2021-2026 (\$ millions)

Figure 65. France AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 66. UK AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 67. Italy AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 68. Russia AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 69. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales Market Share by Country (2021-2026)

Figure 70. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales Market Share by Type (2021-2026)

Figure 71. Middle East & Africa AGV Magnetic Strip Navigation Sensors Sales Market Share by Application (2021-2026)

Figure 72. Egypt AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Africa AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 74. Israel AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 75. Turkey AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 76. GCC Countries AGV Magnetic Strip Navigation Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of AGV Magnetic Strip Navigation Sensors in 2026

Figure 78. Manufacturing Process Analysis of AGV Magnetic Strip Navigation Sensors

Figure 79. Industry Chain Structure of AGV Magnetic Strip Navigation Sensors

Figure 80. Channels of Distribution

Figure 81. Global AGV Magnetic Strip Navigation Sensors Sales Market Forecast by Region (2027-2032)

Figure 82. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share Forecast by Region (2027-2032)

Figure 83. Global AGV Magnetic Strip Navigation Sensors Sales Market Share Forecast by Type (2027-2032)

Figure 84. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share Forecast by Type (2027-2032)

Figure 85. Global AGV Magnetic Strip Navigation Sensors Sales Market Share Forecast

by Application (2027-2032)

Figure 86. Global AGV Magnetic Strip Navigation Sensors Revenue Market Share  
Forecast by Application (2027-2032)

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