

# Global AGV Magnetic Strip 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 Strip 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 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.

This report is a detailed and comprehensive analysis for global AGV Magnetic Strip 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 Strip 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 Strip 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 Strip 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 Strip 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 Strip 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 Strip 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, Degasensor, MEMSPlus, etc.

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

## **Market Segmentation**

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

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

Navigation Sensors from 2021 to 2026.

Chapter 3, the AGV Magnetic Strip 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 Strip 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 Strip 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 Strip Navigation Sensors.

Chapter 14 and 15, to describe AGV Magnetic Strip Navigation Sensors sales channel, distributors, customers, research findings and conclusion.

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