

Global AGV Magnetic Navigation Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AGV Magnetic Navigation Sensors market size is expected to reach \$ 208 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

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 studies the global AGV Magnetic Navigation Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AGV Magnetic Navigation Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AGV Magnetic Navigation Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AGV Magnetic Navigation Sensors total production and demand, 2021-2032, (K Units)

Global AGV Magnetic Navigation Sensors total production value, 2021-2032, (USD Million)

Global AGV Magnetic Navigation Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AGV Magnetic Navigation Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AGV Magnetic Navigation Sensors domestic production, consumption, key domestic manufacturers and share

Global AGV Magnetic Navigation Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AGV Magnetic Navigation Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AGV Magnetic Navigation Sensors production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AGV Magnetic Navigation Sensors market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AGV Magnetic Navigation Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AGV Magnetic Navigation Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AGV Magnetic Navigation Sensors Market, Segmentation by Type:

Hall-array

TMR

Global AGV Magnetic Navigation Sensors Market, Segmentation by Structure:

Linear-array

Magnetic Spot

Global AGV Magnetic Navigation Sensors Market, Segmentation by Application:

Intralogistics & Warehousing

Production Line Material Handling

Others

Companies Profiled:

Naviq

Nidec

Multidimension Technology

KCONBOT

Chengdu Hangfa Robotics

Zhejiang Tongzhu

CCFROBOT

Dagasensor

MEMSPlus

Key Questions Answered:

1. How big is the global AGV Magnetic Navigation Sensors market?
2. What is the demand of the global AGV Magnetic Navigation Sensors market?
3. What is the year over year growth of the global AGV Magnetic Navigation Sensors market?
4. What is the production and production value of the global AGV Magnetic Navigation Sensors market?
5. Who are the key producers in the global AGV Magnetic Navigation Sensors market?
6. What are the growth factors driving the market demand?

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