

Global AGV Magnetic Navigation Sensors Market Growth 2026-2032

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Abstracts

The global AGV Magnetic 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 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.

United States market for AGV Magnetic 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 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 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 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 Navigation Sensors Industry Forecast” looks at past sales and reviews total world AGV Magnetic Navigation Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected AGV Magnetic Navigation Sensors sales for 2026 through 2032. With AGV Magnetic 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 Navigation Sensors industry.

This Insight Report provides a comprehensive analysis of the global AGV Magnetic 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 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 Navigation Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AGV Magnetic 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 Navigation Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of AGV Magnetic 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 Navigation Sensors market?

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

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

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

How does AGV Magnetic Navigation Sensors break out by Type, by Application?

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