

Global Aircraft Magnetic Compass 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 Aircraft Magnetic Compass market size was valued at US\$ 17.99 million in 2025 and is forecast to a readjusted size of US\$ 21.43 million by 2032 with a CAGR of 2.1% during review period.

An aviation magnetic compass is a basic passive heading instrument that can operate independently without external power, satellite signals, or external sensors. It obtains magnetic north by sensing the Earth's natural magnetic field and directly indicates the aircraft's magnetic heading (MH). It has the characteristics of being reliable at all times, never failing, and having electromagnetic/battle damage redundancy. It is an essential emergency backup heading reference for civil aviation, general aviation, and military aircraft, and also the core correction reference for gyro heading and inertial navigation.

In 2025, the global production of aviation magnetic compasses was 46,000 units, with an average price of US\$380 per unit.

Upstream includes high-precision magnetic materials, mechanical components, damping fluids, scale assemblies, and calibration equipment, along with precision manufacturing and calibration technologies. The supply chain is relatively small but requires extremely high accuracy and reliability. Downstream applications are concentrated in the aviation sector, including commercial aircraft, general aviation aircraft, helicopters, and certain military platforms, with particularly strong usage in small aircraft and basic flight training. From a downstream perspective, demand is primarily driven by safety redundancy requirements. Even with advanced avionics systems, magnetic compasses remain essential backup instruments, providing basic directional

reference in case of system failure, resulting in stable but limited growth demand. The industry is evolving toward enhanced reliability and environmental adaptability. Products are being optimized for resistance to vibration, temperature variation, and magnetic interference, while becoming more compact to fit modern cockpit designs. Key drivers include aviation safety regulations and the need for redundant navigation systems, along with moderate demand growth from the expansion of general aviation. Constraints include the widespread adoption of advanced navigation technologies such as inertial and satellite navigation systems, which reduce the functional importance of magnetic compasses, leading to limited market expansion. In addition, long certification cycles and stringent technical standards create high barriers to entry. In terms of profitability, aircraft magnetic compasses are niche, high-reliability aviation components, typically achieving gross margins in the range of 25% to 45%, influenced by precision requirements and certification costs. Due to the limited market size, competition is relatively concentrated, and companies with certification capabilities and long-term customer relationships hold advantages. Profitability depends on order volume, customization level, and after-sales service, while overall earnings remain relatively stable supported by consistent demand.

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

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

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

Global Aircraft Magnetic Compass market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Aircraft Magnetic Compass

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 Aircraft Magnetic Compass 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 SIRS Navigation, Airpath Compass, Precision Aviation, Suzhou Changfeng Instruments, Beijing Instruments, Kanardia, TL Elektronik, etc.

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

Market Segmentation

Aircraft Magnetic Compass 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

Mechanical Magnetic Stripe Magnetic Compass

Inductive Magnetic Compass

Solid-State Electronic Magnetic Compass

Market segment by Installation Methods

Cockpit Direct Reading

Remote Mounting

Market segment by Damping Methods

Liquid Damping

Magnetic Damping

Digital Filter Damping

Market segment by Application

Commercial and Civil Aviation

Private Aviation

Military Aviation

Major players covered

SIRS Navigation

Airpath Compass

Precision Aviation

Suzhou Changfeng Instruments

Beijing Instruments

Kanardia

TL Elektronik

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 Aircraft Magnetic Compass product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Aircraft Magnetic Compass 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 Aircraft Magnetic Compass 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 Aircraft Magnetic Compass.

Chapter 14 and 15, to describe Aircraft Magnetic Compass sales channel, distributors, customers, research findings and conclusion.

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