

# Global Aircraft Magnetic Compass Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G739AB67EA93EN.html>

Date: May 2026

Pages: 99

Price: US\$ 4,480.00 (Single User License)

ID: G739AB67EA93EN

## Abstracts

The global Aircraft Magnetic Compass market size is expected to reach \$ 21.43 million by 2032, rising at a market growth of 2.1% CAGR during the forecast period (2026-2032).

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 studies the global Aircraft Magnetic Compass production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aircraft Magnetic Compass 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 Aircraft Magnetic Compass that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Aircraft Magnetic Compass total production and demand, 2021-2032, (Units)

Global Aircraft Magnetic Compass total production value, 2021-2032, (USD Million)

Global Aircraft Magnetic Compass production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Aircraft Magnetic Compass consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Aircraft Magnetic Compass domestic production, consumption, key domestic manufacturers and share

Global Aircraft Magnetic Compass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Aircraft Magnetic Compass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Aircraft Magnetic Compass production by Application, production, value, CAGR,

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

This report profiles key players in the global Aircraft Magnetic Compass 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aircraft Magnetic Compass market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Aircraft Magnetic Compass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aircraft Magnetic Compass Market, Segmentation by Type:

Mechanical Magnetic Stripe Magnetic Compass

Inductive Magnetic Compass

Solid-State Electronic Magnetic Compass

Global Aircraft Magnetic Compass Market, Segmentation by Installation Methods:

Cockpit Direct Reading

Remote Mounting

Global Aircraft Magnetic Compass Market, Segmentation by Damping Methods:

Liquid Damping

Magnetic Damping

Digital Filter Damping

Global Aircraft Magnetic Compass Market, Segmentation by Application:

Commercial and Civil Aviation

Private Aviation

Military Aviation

Companies Profiled:

SIRS Navigation

Airpath Compass

Precision Aviation

Suzhou Changfeng Instruments

Beijing Instruments

Kanardia

TL Elektronik

**Key Questions Answered:**

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

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