

Global Attitude and Heading Reference Systems (AHRS) Market Size Study & Forecast, by Type, Component, End-use and Regional Forecasts 2025-2035

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Abstracts

The Global Attitude and Heading Reference Systems (AHRS) Market is valued at approximately USD 0.79 billion in 2024 and is anticipated to grow at a robust CAGR of 5.08% over the forecast period 2025–2035. These systems, a critical component of modern avionics, integrate multi-axis sensors to deliver precise 3D orientation data—encompassing pitch, roll, and yaw—that supports critical decision-making across aviation, marine, and unmanned systems. As aircraft and autonomous platforms transition toward more digitally driven operations, the demand for reliable, compact, and high-performance attitude and heading reference solutions is gaining considerable traction. The proliferation of intelligent navigation systems in both military and commercial aviation, alongside the surging adoption of drones and unmanned vehicles, continues to drive transformative growth across the AHRS market.

Fueling this ascent is the increasing emphasis on enhanced flight safety, operational efficiency, and navigational accuracy—especially within fast-moving airspace and congested maritime domains. Governments and defense agencies are deploying advanced AHRS units across rotary and fixed-wing aircraft for GPS-aided navigation and real-time orientation tracking under jamming-prone conditions. Moreover, the rapid expansion of general aviation and the integration of advanced avionics into civil and light aircraft are further accelerating product deployment. The advancement of next-generation AHRS, particularly those embedded with GPS, magnetometers, and MEMS-based inertial sensors, is fostering a shift toward digital cockpits and fly-by-wire systems, enabling enhanced system redundancy and pilot situational awareness.

From a regional perspective, North America dominates the global AHRS landscape, thanks to its mature aerospace ecosystem, strong defense procurement programs, and a high concentration of aviation OEMs and avionics integrators. The U.S. military's ongoing fleet modernization initiatives and the FAA's NextGen air traffic control infrastructure are fueling substantial demand for cutting-edge orientation systems. Europe follows closely with solid investment in commercial aviation safety and marine navigation innovation. Meanwhile, Asia Pacific is anticipated to exhibit the fastest growth rate through 2035, owing to the rising defense budgets across China and India, the growth of indigenous aviation programs, and the increasing utilization of drones and UAVs for commercial and military surveillance purposes.

Major market player included in this report are:

Honeywell International Inc.

Northrop Grumman Corporation

Safran SA

Collins Aerospace

Meggitt PLC

General Electric Company

Moog Inc.

LORD MicroStrain

Sparton Navigation and Exploration

Parker Hannifin Corporation

Trimble Inc.

VectorNav Technologies, LLC

MEMSIC Inc.

Rockwell Collins

Thales Group

Global Attitude and Heading Reference Systems (AHRS) Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Type:

AHRS

ADAHRS

GPS AHRS

By Component:

Inertial Sensors

Magnetic Sensors

Processor

By End-use:

Civil Aviation

Military Aviation

Unmanned Vehicles

Marine

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL AHRS MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top-Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL AHRS MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global AHRS Market (2024–2035)
- 3.2. Drivers
 - 3.2.1. Heightened Flight Safety & Navigational Accuracy
 - 3.2.2. Surge in Unmanned & Autonomous Platforms
- 3.3. Restraints
 - 3.3.1. High MEMS Sensor and Integration Costs
 - 3.3.2. Complexity of System Certification & Validation
- 3.4. Opportunities
 - 3.4.1. Digital Cockpit & Fly-by-Wire Adoption
 - 3.4.2. Expansion of Civil & Defence UAV Applications

CHAPTER 4. GLOBAL AHRS INDUSTRY ANALYSIS

- 4.1. Porter's Five Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's Five Forces Forecast Model (2024–2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economic
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024–2025)
- 4.7. Global Pricing Analysis and Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AHRS MARKET SIZE & FORECASTS BY TYPE 2025–2035

- 5.1. Market Overview
- 5.2. AHRS
 - 5.2.1. Estimates & Forecasts by Region, 2025–2035
- 5.3. ADAHRS
 - 5.3.1. Estimates & Forecasts by Region, 2025–2035
- 5.4. GPS AHRS
 - 5.4.1. Estimates & Forecasts by Region, 2025–2035

CHAPTER 6. GLOBAL AHRS MARKET SIZE & FORECASTS BY COMPONENT 2025–2035

- 6.1. Market Overview
- 6.2. Inertial Sensors
 - 6.2.1. Estimates & Forecasts by Region, 2025–2035
- 6.3. Magnetic Sensors
 - 6.3.1. Estimates & Forecasts by Region, 2025–2035

6.4. Processor

6.4.1. Estimates & Forecasts by Region, 2025–2035

CHAPTER 7. GLOBAL AHRS MARKET SIZE & FORECASTS BY END-USE 2025–2035

7.1. Market Overview

7.2. Civil Aviation

7.2.1. Estimates & Forecasts by Region, 2025–2035

7.3. Military Aviation

7.3.1. Estimates & Forecasts by Region, 2025–2035

7.4. Unmanned Vehicles

7.4.1. Estimates & Forecasts by Region, 2025–2035

7.5. Marine

7.5.1. Estimates & Forecasts by Region, 2025–2035

CHAPTER 8. GLOBAL AHRS MARKET SIZE & FORECASTS BY REGION 2025–2035

8.1. Regional Market Snapshot

8.2. Top Leading & Emerging Countries

8.3. North America AHRS Market

8.3.1. U.S. AHRS Market

8.3.1.1. Type Breakdown & Forecasts, 2025–2035

8.3.1.2. Component Breakdown & Forecasts, 2025–2035

8.3.2. Canada AHRS Market

8.3.2.1. Type Breakdown & Forecasts, 2025–2035

8.3.2.2. Component Breakdown & Forecasts, 2025–2035

8.4. Europe AHRS Market

8.4.1. UK AHRS Market

8.4.1.1. Type Breakdown & Forecasts, 2025–2035

8.4.1.2. Component Breakdown & Forecasts, 2025–2035

8.4.2. Germany AHRS Market

8.4.2.1. Type Breakdown & Forecasts, 2025–2035

8.4.2.2. Component Breakdown & Forecasts, 2025–2035

8.4.3. France AHRS Market

8.4.3.1. Type Breakdown & Forecasts, 2025–2035

8.4.3.2. Component Breakdown & Forecasts, 2025–2035

8.4.4. Spain AHRS Market

- 8.4.4.1. Type Breakdown & Forecasts, 2025–2035
- 8.4.4.2. Component Breakdown & Forecasts, 2025–2035
- 8.4.5. Italy AHRS Market
 - 8.4.5.1. Type Breakdown & Forecasts, 2025–2035
 - 8.4.5.2. Component Breakdown & Forecasts, 2025–2035
- 8.4.6. Rest of Europe AHRS Market
 - 8.4.6.1. Type Breakdown & Forecasts, 2025–2035
 - 8.4.6.2. Component Breakdown & Forecasts, 2025–2035
- 8.5. Asia Pacific AHRS Market
 - 8.5.1. China AHRS Market
 - 8.5.1.1. Type Breakdown & Forecasts, 2025–2035
 - 8.5.1.2. Component Breakdown & Forecasts, 2025–2035
 - 8.5.2. India AHRS Market
 - 8.5.2.1. Type Breakdown & Forecasts, 2025–2035
 - 8.5.2.2. Component Breakdown & Forecasts, 2025–2035
 - 8.5.3. Japan AHRS Market
 - 8.5.3.1. Type Breakdown & Forecasts, 2025–2035
 - 8.5.3.2. Component Breakdown & Forecasts, 2025–2035
 - 8.5.4. Australia AHRS Market
 - 8.5.4.1. Type Breakdown & Forecasts, 2025–2035
 - 8.5.4.2. Component Breakdown & Forecasts, 2025–2035
 - 8.5.5. South Korea AHRS Market
 - 8.5.5.1. Type Breakdown & Forecasts, 2025–2035
 - 8.5.5.2. Component Breakdown & Forecasts, 2025–2035
 - 8.5.6. Rest of Asia Pacific AHRS Market
 - 8.5.6.1. Type Breakdown & Forecasts, 2025–2035
 - 8.5.6.2. Component Breakdown & Forecasts, 2025–2035
- 8.6. Latin America AHRS Market
 - 8.6.1. Brazil AHRS Market
 - 8.6.1.1. Type Breakdown & Forecasts, 2025–2035
 - 8.6.1.2. Component Breakdown & Forecasts, 2025–2035
 - 8.6.2. Mexico AHRS Market
 - 8.6.2.1. Type Breakdown & Forecasts, 2025–2035
 - 8.6.2.2. Component Breakdown & Forecasts, 2025–2035
- 8.7. Middle East & Africa AHRS Market
 - 8.7.1. UAE AHRS Market
 - 8.7.1.1. Type Breakdown & Forecasts, 2025–2035
 - 8.7.1.2. Component Breakdown & Forecasts, 2025–2035
 - 8.7.2. Saudi Arabia AHRS Market

- 8.7.2.1. Type Breakdown & Forecasts, 2025–2035
- 8.7.2.2. Component Breakdown & Forecasts, 2025–2035
- 8.7.3. South Africa AHRS Market
 - 8.7.3.1. Type Breakdown & Forecasts, 2025–2035
 - 8.7.3.2. Component Breakdown & Forecasts, 2025–2035

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Top Market Strategies
- 9.2. Honeywell International Inc.
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Financial Performance (Subject to Data Availability)
 - 9.2.5. Product/Services Portfolio
 - 9.2.6. Recent Development
 - 9.2.7. Market Strategies
 - 9.2.8. SWOT Analysis
- 9.3. Northrop Grumman Corporation
- 9.4. Safran SA
- 9.5. Collins Aerospace
- 9.6. Meggitt PLC
- 9.7. General Electric Company
- 9.8. Moog Inc.
- 9.9. LORD MicroStrain
- 9.10. Sparton Navigation and Exploration
- 9.11. Parker Hannifin Corporation
- 9.12. Trimble Inc.
- 9.13. VectorNav Technologies, LLC
- 9.14. MEMSIC Inc.
- 9.15. Thales Group

List Of Tables

LIST OF TABLES

- Table 1. Global AHRS Market, Report Scope
- Table 2. Global AHRS Market Estimates & Forecasts by Region 2024–2035
- Table 3. Global AHRS Market Estimates & Forecasts by Type 2024–2035
- Table 4. Global AHRS Market Estimates & Forecasts by Component 2024–2035
- Table 5. Global AHRS Market Estimates & Forecasts by End-use 2024–2035
- Table 6. North America AHRS Market Estimates & Forecasts, 2024–2035
- Table 7. U.S. AHRS Market Estimates & Forecasts, 2024–2035
- Table 8. Canada AHRS Market Estimates & Forecasts, 2024–2035
- Table 9. Europe AHRS Market Estimates & Forecasts, 2024–2035
- Table 10. UK AHRS Market Estimates & Forecasts, 2024–2035
- Table 11. Germany AHRS Market Estimates & Forecasts, 2024–2035
- Table 12. France AHRS Market Estimates & Forecasts, 2024–2035
- Table 13. Asia Pacific AHRS Market Estimates & Forecasts, 2024–2035
- Table 14. China AHRS Market Estimates & Forecasts, 2024–2035
- Table 15. India AHRS Market Estimates & Forecasts, 2024–2035
- Table 16. Latin America AHRS Market Estimates & Forecasts, 2024–2035
- Table 17. Brazil AHRS Market Estimates & Forecasts, 2024–2035
- Table 18. Middle East & Africa AHRS Market Estimates & Forecasts, 2024–2035
- Table 19. UAE AHRS Market Estimates & Forecasts, 2024–2035
- Table 20. South Africa AHRS Market Estimates & Forecasts, 2024–2035

List Of Figures

LIST OF FIGURES

- Fig 1. Global AHRS Market, Research Methodology
- Fig 2. Global AHRS Market, Market Estimation Techniques
- Fig 3. Global Market Size Estimates & Forecast Methods
- Fig 4. Global AHRS Market, Key Trends 2025
- Fig 5. Global AHRS Market, Growth Prospects 2024–2035
- Fig 6. Global AHRS Market, Porter's Five Forces Model
- Fig 7. Global AHRS Market, PESTEL Analysis
- Fig 8. Global AHRS Market, Value Chain Analysis
- Fig 9. AHRS Market by Type, 2025 & 2035
- Fig 10. AHRS Market by Component, 2025 & 2035
- Fig 11. AHRS Market by End-use, 2025 & 2035
- Fig 12. North America AHRS Market, 2025 & 2035
- Fig 13. Europe AHRS Market, 2025 & 2035
- Fig 14. Asia Pacific AHRS Market, 2025 & 2035
- Fig 15. Latin America AHRS Market, 2025 & 2035
- Fig 16. Middle East & Africa AHRS Market, 2025 & 2035
- Fig 17. Global AHRS Market, Company Market Share Analysis (2025)

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