

# Gyroscope Market Analysis: Key Trends, Share, Growth Drivers, And Forecast 2025-2034

*The Business Research Company's Gyroscope Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED KINGDOM, February 3, 2025

[/Einpresswire.com/](https://www.einpresswire.com/) -- The gyroscope market has seen consistent growth in

recent years. It is expected to expand from \$2.95 billion in 2024 to \$3.1 billion in 2025, with a compound annual growth rate (CAGR) of 4.9%. This growth in the historical period is largely driven by the adoption of consumer electronics, automotive applications, demand from the aerospace and defense sectors, industrial automation, and the use of gyroscopes in medical devices.



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How Big Is the Global Gyroscope Market Expected to Grow, and What Is Its Annual Growth Rate?

The gyroscope market is projected to experience significant growth in the coming years. It is expected to reach \$4.23 billion by 2029, growing at a compound annual growth rate (CAGR) of 8.1%. The growth during this period can be attributed to an increased focus on energy efficiency and sustainability, greater use in the oil and gas

industry, advancements in research and scientific instrumentation, rapid expansion of the wearables market, and the growth of telecommunications networks. Key trends in the forecast period include more widespread use in earthquake detection systems, the development of hybrid sensors, integration into smart wearables for health monitoring, improved gyroscopic stabilization in cameras, energy harvesting technologies, and a broadening of medical applications.

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What Is Driving the Growth of the Gyroscope Market?



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The fast-growing use of drones and unmanned aerial vehicles (UAVs) in both the defense and commercial sectors is anticipated to be a key factor driving market growth. A UAV is an airborne system or aircraft that can be operated remotely by a human or autonomously by an onboard computer, primarily used for warfare and surveillance. With increased investment in research and development, the adoption rate of UAVs is steadily rising.

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Which Leading Companies Are Driving The Growth Of The Gyroscope Market Share?

Major companies operating in the gyroscope market include Analog Devices Inc., Colibrys Ltd., Fizoptika Corp., Honeywell International Inc., InnaLabs, InvenSense Inc., Kionix Inc.

What Are The Key Trends Driving The Growth Of The Gyroscope Market Size?

Technological advancements are driving the gyroscope market. Innovations in gyroscopes have been influenced by the performance of systems like inertial navigation systems (INS), attitude and heading reference systems (AHRS), and inertial measurement units (IMUs) used in manned and unmanned aircraft, spacecraft, marine vessels, and surface vehicles.

How Is the Global Gyroscope Market Segmented?

The gyroscope market covered in this report is segmented –

- 1) By Type: Micro-Electro-Mechanical System (MEMS) Gyroscopes, Fiber Optic Gyroscope, Ring laser Gyroscope, Hemispherical Resonating Gyroscope, Dynamically Tuned Gyroscope
- 2) By Application: Electronics, Aerospace, Industrial Manufacturing, Automotive, Mining, Marine

Subsegments:

- 1) By Micro-Electro-Mechanical System (MEMS) Gyroscopes: Angular Rate Sensors, In-Run Alignment Gyroscopes
- 2) By Fiber Optic Gyroscope: Single Axis Fiber Optic Gyroscopes, Multi-Axis Fiber Optic Gyroscopes
- 3) By Ring Laser Gyroscope: Single Axis Ring Laser Gyroscopes, Multi-Axis Ring Laser Gyroscopes
- 4) By Hemispherical Resonating Gyroscope: Analog Hemispherical Gyroscopes, Digital Hemispherical Gyroscopes
- 5) By Dynamically Tuned Gyroscope: Mechanical Tuned Gyroscopes, Electronic Tuned Gyroscopes

The Leading Region in the Gyroscope Market is:

North America was the largest region in the gyroscope market in 2024. Asia-Pacific is expected to be the fastest-growing region in the forecast period.

What Is the Gyroscope Market?

Gyroscopes are devices mounted on a frame that can detect angular velocity when the frame

rotates. They are used in compasses, automatic pilots for ships, aircraft, and ballistic missiles, in the steering systems of torpedoes, and in the inertial guidance systems of space launch vehicles, orbiting satellites, and virtual reality applications. Gyroscopes help track the twists, turns, and rolls of an object in motion.

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