

Comprehensive Insights Of The Global Inertial Navigation Systems Market: Key Drivers, Trends, And Forecast For 2025-2034

The Business Research Company's Inertial Navigation Systems Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, June 11, 2025

[/EINPresswire.com/](https://EINPresswire.com/) -- The global

market for inertial navigation systems

has seen robust growth in recent years and expects to continue this momentum in the coming years. This is reflected in an increase from \$11.74 billion in 2024 to an estimated \$12.52 billion in 2025, displaying a compound annual growth rate CAGR of 6.6%. Factors propelling this historic growth include the need for accurate navigation in defense applications, adoption in the



The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034"

The Business Research Company

aerospace and aviation sectors, and an increase in unmanned vehicle usage. Additionally, requirements for precise underwater navigation and the integration of such systems in commercial aircraft have further bolstered this progress.

What's Fueling The Growth Of The Inertial Navigation Systems Market Going Forward?

Moreover, the inertial navigation systems market expects to see significant growth in the next few years, projecting to reach \$16.03 billion in 2029 at a CAGR of 6.4%. This

growth can be attributed to the rising demands for autonomous vehicles, investments in space exploration, increasing use of commercial drones, industrial robotics adoption, and the need for GPS-independent navigation systems. Key trends forecasted during this period include advanced miniaturization of inertial sensors, innovation in MEMS-based navigation systems, advanced integrations with AI and machine learning, advancements in sensor fusion technologies, and advanced development of compact and lightweight systems.

Get Your Free Sample Market Report:

The Business
Research Company

The Business Research Company



What's Driving The Inertial Navigation Systems Market Growth?

A notable driver behind this growth in the inertial navigation systems market is the rise in demand for autonomous vehicles. Autonomous vehicles are self-driving vehicles that use sensors, software, and AI to navigate and operate without human intervention. AI and sensor technological advancements enhance the safety, efficiency, and convenience of transportation, thus propelling demand for autonomous vehicles. These vehicles utilize inertial navigation systems to provide accurate real-time positioning and motion tracking that ensures precise navigation and stability during operation. As per Salvi, Schostok & Pritchard P.C, a US-based law firm, it's estimated that by 2030 approximately 58 million self-driving cars would be sold. Furthermore, according to the Department for Science, Innovation, and Technology DSIT, a UK-based geospatial commission, 40% of automobiles in the United Kingdom might be competent in autonomous driving by 2035. These factors highlight the role that the demand for autonomous vehicles plays in driving the inertial navigation systems market forward.

What Key Player Strategies Are Driving The Inertial Navigation Systems Market?

Key players operating in the inertial navigation systems market include Robert Bosch GmbH, RTX Corporation, Northrop Grumman Corporation, Honeywell International Inc., Safran SA, Thales Group, Parker Hannifin Corporation, TDK Corporation, STMicroelectronics N.V., Teledyne Technologies Inc., Trimble Inc., Moog Inc., MEMSIC Inc., iMAR Navigation GmbH, VectorNav Technologies LLC, Oxford Technical Solutions Ltd., SBG Systems S.A.S., Inertial Labs Inc., Point One Navigation, and Tersus GNSS Inc.

Order Your Report Now For A Swift Delivery:

<https://www.thebusinessresearchcompany.com/report/inertial-navigation-systems-global-market-report>

What Are The Emerging Trends In The Inertial Navigation Systems Market?

Emerging trends in the inertial navigation systems market point towards a focus on developing innovative systems like maritime inertial navigation systems. These systems are in high demand for maritime applications. For instance, ANELLO Photonics, a US-based company specialized in silicon photonics optical gyroscopes, introduced the ANELLO Maritime INS in January 2025. This state-of-the-art Inertial Navigation System enhances navigation capabilities for marine operations in environments where GPS signals are unavailable or vulnerable to spoofing. This technology advances the maritime sector by providing reliable navigation solutions in challenging conditions.

How Is The Inertial Navigation Systems Market Segmented?

Market segmentations within the inertial navigation systems market include -

- 1 By Component: Accelerometers, Gyroscopes, Other Components
- 2 By Technology: Mechanical Gyro, Ring Laser Gyro, Fiber Optics Gyro, Micro-Electro-Mechanical Systems, Other Technologies

3 By Grade: Aircraft Grade, Marine Grade, Space Grade, Tactical Grade, Other Grades

4 By Application: Space Launch Vehicles, Unmanned Ground Vehicles, Missiles, Unmanned Aerial Vehicles, Aircraft, Military Armored Vehicles, Marine, Unmanned Marine Vehicles

5 By End User Industry: Automotive, Commercial Aviation, Marine, Military and Defense

Subsegments include -

1 By Accelerometers: Mechanical Accelerometers, Micro-Electro-Mechanical Systems

Accelerometers, Fiber Optic Accelerometers, Ring Laser Accelerometers, Quartz Accelerometers

2 By Gyroscopes: Mechanical Gyroscopes, Micro-Electro-Mechanical Systems Gyroscopes, Ring Laser Gyroscopes RLG, Fiber Optic Gyroscopes FOG, Hemispherical Resonator Gyroscopes HRG, Dynamically Tuned Gyroscopes DTG

3 By Other Components: Magnetometers, Navigation Processors, Inertial Measurement Units IMUs, GPS Receivers, Control Systems

What Are The Regional Insights In The Inertial Navigation Systems Market?

North America held the most significant market share in the inertial navigation systems market in 2024. However, the fastest-growing region is projected to be Asia-Pacific during the forecast period. The report encompasses the regions of Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

Browse Through More Similar Reports By The Business Research Company:

Autonomous Navigation Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/autonomous-navigation-global-market-report>

Defense Navigation Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/defense-navigation-global-market-report>

Benefits Navigation Platform Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/benefits-navigation-platform-global-market-report>

[About The Business Research Company:](#)

Learn More About The Business Research Company. With over 15000+ reports from 27 industries covering 60+ geographies, The Business Research Company has built a reputation for offering comprehensive, data-rich research and insights. Armed with 1,500,000 datasets, the optimistic contribution of in-depth secondary research, and unique insights from industry leaders, you can get the information you need to stay ahead in the game.

Contact us at:

The Business Research Company: <https://www.thebusinessresearchcompany.com/>
Americas +1 3156230293

Asia +44 2071930708
Europe +44 2071930708
Email us at info@tbrc.info

Follow us on:

LinkedIn: <https://in.linkedin.com/company/the-business-research-company>

YouTube: https://www.youtube.com/channel/UC24_fI0rV8cR5DxICpgmyFQ

Global Market Model: <https://www.thebusinessresearchcompany.com/global-market-model>

Oliver Guirdham
The Business Research Company
+44 20 7193 0708
info@tbrc.info

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/821067188>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.