

Inertial Navigation Systems Market Set to Reach \$16.6 Billion by 2030

The Business Research Company's Inertial Navigation Systems Market Set to Reach \$16.6 Billion by 2030

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/EINPresswire.com/ -- "The inertial

navigation systems market has been experiencing notable development in

recent years, driven by technological advances and expanding applications. These systems, which rely on internal sensors to determine position and movement without external signals, are becoming increasingly vital in various industries. Let's explore the current market size, key growth factors, regional trends, and the main forces shaping this evolving sector.

The logo for The Business Research Company, featuring the company name in a serif font and a stylized bar chart with three bars of increasing height to the right.

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Expected to grow to \$5.25 billion in 2030 at a compound annual growth rate (CAGR) of 19.1%”

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Market Size and Growth Outlook for the Inertial Navigation Systems Market

The inertial navigation systems market has shown steady expansion, with its value rising from \$12.43 billion in 2025 to an estimated \$13.18 billion in 2026, representing a compound annual growth rate (CAGR) of 6.0%. This growth during the historical period is largely due to the development of early gyroscope and accelerometer

technologies, widespread use in aerospace and defense sectors, increased adoption in industrial and railway navigation, advances in surveying and mapping applications, and government initiatives aimed at providing precise navigation in GPS-denied environments. Looking ahead, the market is projected to maintain this momentum, reaching \$16.61 billion by 2030, fueled by growing demand in autonomous vehicles and drones, expansion of marine navigation uses, breakthroughs in MEMS-based INS technologies, incorporation of AI and sensor fusion techniques to improve accuracy, and rising investments in personal and foot-mounted INS units for military and commercial purposes.

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Key Drivers Behind Inertial Navigation Systems Market Expansion

One of the primary factors propelling the inertial navigation systems market is the surge in demand for autonomous vehicles. These self-driving machines rely heavily on sensors, AI, and software to operate independently, requiring accurate and reliable navigation systems. Advanced AI and sensor technologies enhance autonomous vehicles by improving safety, efficiency, and user convenience. Inertial navigation systems play a crucial role by providing real-time positioning and motion tracking, especially in environments where GPS signals are weak or unavailable, ensuring stable and precise vehicle operation. For example, a report from Salvi, Schostok & Pritchard P.C., a U.S.-based law firm, forecasts that approximately 58 million self-driving cars will be sold globally by 2030.

Supporting this trend, in October 2023, the UK's Department for Science, Innovation, and Technology (DSIT) revealed that up to 40% of cars in the United Kingdom could be capable of autonomous driving by 2035. These projections highlight the increasing integration of INS in autonomous vehicle technology, which is a significant growth catalyst for the market.

View the full inertial navigation systems market report:

https://www.thebusinessresearchcompany.com/report/in-situ-resource-utilization-isru-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Jun_PR

Regional Dynamics of the Inertial Navigation Systems Market

In 2025, North America held the largest share of the inertial navigation systems market, benefiting from established aerospace, defense, and automotive industries. However, the Asia-Pacific region is expected to experience the fastest market growth during the forecast period. This growth can be attributed to expanding industrial sectors, increased adoption of advanced navigation technologies, and supportive government policies within the region. The market report covers key geographical areas including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and regional opportunities.

Understanding Inertial Navigation Systems and Their Applications

Inertial navigation systems are self-contained devices that use motion and rotation sensors like accelerometers and gyroscopes to calculate an object's position, orientation, and velocity without relying on external references. This technology is critical for applications where GPS signals are unreliable or non-existent, such as aerospace, defense, marine navigation, and autonomous vehicles. INS enables precise navigation by continuously tracking movement internally, which is essential for mission-critical operations and emerging autonomous platforms.

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- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
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