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Global Navigation Grade IMU Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G18B3F99DC3EEN.html
Date: August 2026
Pages: 136
Price: US$ 4,480.00 (Single User License)
ID: G18B3F99DC3EEN

Abstracts

The global Navigation Grade IMU market size is expected to reach $ 2342 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

A Navigation Grade IMU refers to an inertial measurement unit that utilizes high-precision gyroscopes and accelerometers to measure the angular rate and specific force of a carrier in real time, thereby independently calculating its position, velocity, and attitude. Its essence lies in maintaining highly reliable navigation accuracy over extended periods without relying on any external signals, which is achieved through extremely low bias stability and angle random walk. Such an IMU effectively suppresses the accumulation of integration errors and seamlessly undertakes navigation tasks when satellite signals are interfered with or interrupted, thus ensuring the continuity and safety of the carrier's operation. Ultimately, the fully autonomous, high-update-rate motion state information it provides establishes an irreplaceable foundation for precise guidance and stable control. In 2025, global ??Navigation Grade IMU production reached approximately 1342 million units with an average global market price of around US$1 per unit.

The future development trends of the navigation-grade IMU industry are first reflected in the sustained expansion of demand in the aerospace and defense sectors. According to official news from China Aerospace Science and Industry Corporation, the integration of new-generation satellite navigation systems with high-precision inertial navigation technology has become a national strategic priority, directly driving procurement of high-end IMU products. Government documents such as the ?14th Five-Year Plan for Civil Aerospace Development? explicitly support the localization of inertial navigation technology, prompting domestic enterprises like subsidiaries of AVIC (Aviation Industry Corporation of China) to increase investment in related products. Their annual reports

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mention that growth in military orders has optimized profit structures. Simultaneously, demand for high-reliability IMUs is rising in civilian markets such as autonomous driving and high-end industrial automation. Sai MicroElectronics announced in official news that its MEMS inertial sensors have entered automotive-grade certification, indicating that enterprises are achieving commercial closure through technological cost reduction. Two major trends stand out within the industry: first, the acceleration of domestic substitution, where self-control of the core component supply chain becomes the foundation for profit growth?government documents like the ?Notice on Accelerating High-End Equipment Manufacturing Quality Development? emphasize breaking through ?bottleneck? technologies; second, enterprises are shifting from pure hardware sales to solution models integrating algorithmic services. For example, Huawei integrates navigation-grade IMUs into its intelligent vehicle solutions, enhancing customer stickiness and gross margins through ecosystem binding. Overall, industry profits are gradually concentrating among leading enterprises that control core chips and algorithms, while technology convergence and service-oriented transformation will reshape corporate revenue structures.

This report studies the global Navigation Grade IMU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Navigation Grade IMU 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 Navigation Grade IMU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Navigation Grade IMU total production and demand, 2021-2032, (Million Units)
Global Navigation Grade IMU total production value, 2021-2032, (USD Million)
Global Navigation Grade IMU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Navigation Grade IMU consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Navigation Grade IMU domestic production, consumption, key domestic manufacturers and share
Global Navigation Grade IMU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Navigation Grade IMU production by Type, production, value, CAGR,

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2021-2032, (USD Million) & (Million Units)
Global Navigation Grade IMU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Navigation Grade IMU 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 Safran, Advanced Navigations, Cielo, RTX, Gladiator Technologies, Honeywell, Inertial Labs, InnaLabs, IXblue, NovAtel, 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 Navigation Grade IMU market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million 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 Navigation Grade IMU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Navigation Grade IMU Market, Segmentation by Type:

9-Axis

6-Axis

Others

Global Navigation Grade IMU Market, Segmentation by Sensor Technology:

MEMS Navigation-grade IMU

Fiber Optic Gyroscope IMU

RLG/HRG Gyroscope IMU

Others

Global Navigation Grade IMU Market, Segmentation by Accuracy Grade:

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