

Global Inertial Measurement Unit (IMU) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Inertial Measurement Unit (IMU) market size is expected to reach \$ 4716 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

An Inertial Measurement Unit (IMU) is a precision device that integrates multiple sensors to measure an object's acceleration, angular velocity, and magnetic field information, thereby calculating its position, attitude, and motion state in three-dimensional space. Its core components include a three-axis accelerometer and a three-axis gyroscope, with some high-end products also integrating a magnetometer and a barometer. IMUs adopt a strapdown configuration (directly mounted on the carrier) and achieve miniaturization through micro-electro-mechanical systems (MEMS) technology. Meanwhile, new technologies such as fiber optic gyroscopes (FOG) and quantum sensors are emerging in high-precision applications.

Technological Evolution

MEMS Dominance and Technological Convergence: MEMS technology dominates the market due to its low cost and small size (accounting for 52% of the market in 2024), but FOG remains irreplaceable in high-precision applications such as aerospace. Quantum IMUs achieved a reduction in navigation error from tens of kilometers to tens of meters in Boeing tests without GPS, and are expected to be commercialized gradually after 2028.

Multi-sensor Fusion: IMUs are deeply integrated with GNSS, vision, and lidar to form a “perception-localization-decision” closed-loop system. For example, satellite-inertial navigation systems cost only one-tenth of pure vision solutions, making them the

preferred choice for autonomous driving.

Application Expansion

Emerging Scenarios: Demand is surging in fields such as low-altitude economy (eVTOL), commercial space (satellite attitude control), and medical devices (surgical robots). For example, Xindong Lianke signed a 270 million yuan gyroscope order in 2024, covering full-year deliveries.

The IMU market is undergoing a dual transformation of “consumer electronics laying the foundation and breakthroughs in high-end markets.” MEMS technology remains the mainstream, but new technologies such as quantum sensing and fiber optic gyroscopes are opening up incremental space in high-precision fields. International giants dominate the market with their technological advantages, while Chinese companies are rapidly rising through domestic substitution and scenario innovation. In the future, with the explosive growth of emerging fields such as autonomous driving and humanoid robots, IMUs will become the core “perception foundation” of the intelligent era.

This report studies the global Inertial Measurement Unit (IMU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Inertial Measurement Unit (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 Inertial Measurement Unit (IMU) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Inertial Measurement Unit (IMU) total production and demand, 2021-2032, (K Units)

Global Inertial Measurement Unit (IMU) total production value, 2021-2032, (USD Million)

Global Inertial Measurement Unit (IMU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Inertial Measurement Unit (IMU) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Inertial Measurement Unit (IMU) domestic production, consumption, key domestic manufacturers and share

Global Inertial Measurement Unit (IMU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Inertial Measurement Unit (IMU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Inertial Measurement Unit (IMU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Inertial Measurement Unit (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 Honeywell, Northrop Grumman Corp, Bosch, TDK, STMicroelectronics, Murata, Panasonic, Safran, TopAxyz, Kearfott, 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 Inertial Measurement Unit (IMU) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Inertial Measurement Unit (IMU) Market, Segmentation by Type:

High-performance IMU

MEMS Based IMU (except for consumer and automotive grade)

Global Inertial Measurement Unit (IMU) Market, Segmentation by Application:

Defense and Aerospace

Mobile Phones

Automotive

Robotics and Autonomous Systems

Drone

Wearables

Others

Companies Profiled:

Honeywell

Northrop Grumman Corp

Bosch

TDK

STMicroelectronics

Murata

Panasonic

Safran

TopAxyz

Kearfott

Senodia

QST Corporation

Silan Microelectronics

Key Questions Answered:

1. How big is the global Inertial Measurement Unit (IMU) market?
2. What is the demand of the global Inertial Measurement Unit (IMU) market?
3. What is the year over year growth of the global Inertial Measurement Unit (IMU) market?
4. What is the production and production value of the global Inertial Measurement Unit (IMU) market?
5. Who are the key producers in the global Inertial Measurement Unit (IMU) market?
6. What are the growth factors driving the market demand?

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