

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

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Abstracts

The global Military Drone Inertial Measurement Unit (IMU) market size is expected to reach \$ 809 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global production of Military Drone Inertial Measurement Units (IMUs) reached 62 thousand units, with an average selling price of USD 7,900 per unit, production capacity of 82 thousand units, and a gross margin of 42.0%.

Military Drone Inertial Measurement Unit (IMU) refers to a core inertial sensing module used for flight control, attitude stabilization, navigation, payload pointing, and anti-interference operation in military unmanned aerial vehicles. It typically integrates three-axis gyroscopes and three-axis accelerometers, and can work with magnetometers, barometers, GNSS/INS systems, or flight control systems. Compared with consumer-grade or general industrial IMUs, military drone IMUs require tactical-grade accuracy, low drift, vibration resistance, wide-temperature operation, shock resistance, long-term stability, and short-duration autonomous navigation capability in GNSS-denied or jammed environments. They are mainly used in reconnaissance UAVs, reconnaissance-strike UAVs, loitering munitions, target drones, and high-end unmanned systems.

The upstream of Military Drone IMUs mainly includes MEMS gyroscopes, MEMS accelerometers, fiber optic gyroscopes (FOG), ring laser gyroscopes (RLG), high-precision magnetic sensors, ASIC/signal-processing chips, temperature compensation modules, precision packaging materials, anti-vibration structures, and testing/calibration equipment. High-performance gyroscopes, algorithmic compensation capability, thermal drift control, and reliability testing are key factors determining product grade. The midstream covers IMU module design, sensor fusion, calibration and compensation,

environmental qualification, and military-grade manufacturing. Representative suppliers include Honeywell, Safran, Northrop Grumman, Collins Aerospace, VectorNav, SBG Systems, Advanced Navigation, EMCORE, and Inertial Labs. The downstream mainly serves military UAV OEMs, flight-control system suppliers, navigation system integrators, mission payload suppliers, and defense customers, with applications in UAV attitude control, inertial navigation, gimbal/electro-optical payload stabilization, weapon or payload pointing, loitering munition guidance, and emergency navigation in GNSS-contested environments.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Military Drone 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, Safran, Collins Aerospace, Inertial Labs, Thales, Analog Devices, Inc., EMCORE, Advanced Navigation, VectorNav Technologies, 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 Military Drone 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 (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 Military Drone Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

MEMS IMU

None-MEMS IMU

Global Military Drone Inertial Measurement Unit (IMU) Market, Segmentation by Performance Grade:

Tactical Grade IMU

Navigation Grade IMU

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

Reconnaissance Drone

Reconnaissance-strike Drone

Loitering Munition / Kamikaze Drone

Target Drone and Training Drone

Companies Profiled:

Honeywell

Northrop Grumman

Safran

Collins Aerospace

Inertial Labs

Thales

Analog Devices, Inc.

EMCORE

Advanced Navigation

VectorNav Technologies

SBG Systems

Exail

HBK

Key Questions Answered:

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

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