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Europe Inertial Sensors for Land Defense Market Forecast to 2030 - Regional Analysis - by Technology (FOG, MEMS, and Others) and Application (Stabilization Missile Systems, Stabilization Turret-Cannon Systems, Land Navigation Including Land Survey, Missile GGM-SSM, Stabilization Active Protection System, Stabilization of Optronics System, and Others)

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Abstracts

The Europe inertial sensors for land defense system market was valued at US$ 246.78 million in 2022 and is expected to reach US$ 376.07 million by 2030; it is estimated to record a CAGR of 5.4% from 2022 to 2030.

Advancements in MEMS Technology Fuel Europe inertial sensors for land defense system market

Microelectromechanical Systems (MEMS) refers to the fabrication of microscopic sensors, actuators, and transducers with moving mechanical parts at the microscopic scale. The utilization of MEMS technology in inertial sensors for land defense systems has expanded their range of applications. MEMS technology enables the production of inertial sensors on a microscopic scale, allowing for their integration into smaller land defense systems such as unmanned ground vehicles and soldier-worn devices. Additionally, the adoption of MEMS technology has led to cost reduction in sensor manufacturing, making inertial sensors more accessible and affordable. MEMS-based inertial sensors offer superior performance characteristics, including high sensitivity, accuracy, and stability, enhancing their suitability for precise motion sensing and

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navigation in land defense systems. For instance, in September 2023, EMCORE Corporation, a leading provider of inertial navigation solutions to the aerospace & defense industry, announced the launch of the TAC-440 MEMS Inertial Measurement Unit (IMU). This IMU is recognized as the world's smallest 1°/hour IMU and is available in an ultra-compact package of less than 5 cubic inches. Furthermore, the TAC-440 is designed to be a higher-performance replacement for the Honeywell 1930 and 4930 IMUs, offering improved form, fit, and function compatibility. Overall, the introduction of the TAC-440 MEMS Inertial Measurement Unit by EMCORE Corporation represents a significant advancement in the field of inertial navigation technology. Its small size, cost-effectiveness, improved performance, integration possibilities, and mass production capability make it a valuable asset for various land defense applications. MEMS technology also enables the integration of multiple sensors on a single chip, providing multi-axis motion sensing capabilities. Furthermore, the mass production capability of MEMS technology has substantially contributed to the widespread adoption of inertial sensors in land defense systems. Thus, advancements in MEMS technology have had a significant impact on the miniaturization, cost reduction, and improved performance of inertial sensors, which drives the market.

Europe inertial sensors for land defense system market overview

The market in Europe is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. The inertial sensors for land defense systems market is witnessing substantial growth in Europe. Europe has a significant military base. The European Defense Agency (EDA) supports member states in areas such as capability planning, joint training, and technological research to increase interoperability and efficiency. For example, EDA's activities emphasize supporting member states in changing toward a more coherent European ability landscape through the collaborative modernization, upgrading, and purchase of military and fleet components such as main battle tanks and armored or infantry fighting vehicles. In addition, EDA supports Member States in pursuing activities that enhance military mobility. Better mobility of forces within and beyond the EU strengthens European security by enabling the EU member states to act faster, in line with their defense needs and responsibilities, both in the context of CSDP missions and operations and national and multinational activities. KNDS is among the European leaders in land defense. Its product range includes main battle tanks, artillery systems, armored vehicles, weapons systems (including robotics, ammunition, military bridges, training solutions, battle management systems, and protection solutions), and a wide range of equipment.

There are several upcoming land defense projects in Europe. For instance, in January

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2024, The European Commission signed a grant agreement to launch the Land Tactical Collaborative Combat (LATACC) project coordinated by Thales to improve the collaborative capabilities of European coalition forces. The LATACC project brings together 34 industry players and research institutes (including core team members Thales, Rheinmetall, Leonardo, Indra, Saab, ISD, and John Cockerill Defense) from 13 European countries. The European Commission finances the project with US$ 53.37 million of funding from the European Defence Fund. Thus, inertial sensors are a critical component of modern land warfare in Europe, providing essential data for navigation, targeting, and platform stabilization in even the most challenging environments. Therefore, owing to the above parameters, the inertial sensors for land defense systems market is growing in the region.

Europe inertial sensors for land defense system market revenue and forecast to 2030 (US$ Million)

Europe inertial sensors for land defense system market segmentation

The Europe inertial sensors for land defense system market is categorized into technology, application, and country.

Based on technology, the Europe inertial sensors for land defense system market is categorized into FOG, MEMS, and others. The FOG segment held the largest market share in 2022.

In terms of application, the Europe inertial sensors for land defense system market is segmented into stabilization missile systems, stabilization turret/ cannon systems, land navigation including land survey, missile GGM/ SSM, stabilization active protection systems, stabilization of optronic systems, and others. The stabilization missile systems segment held the largest market share in 2022.

By country, the Europe inertial sensors for land defense system market is segmented into the UK, France, Russia, Germany, Italy, and the Rest of Europe. The UK dominated the Europe inertial sensors for land defense system market share in 2022.

Collins Aerospace, Advanced Navigation Pty Ltd, Honeywell International Inc, Northrop Grumman Corp, SBG Systems SAS, Thales SA, GEM Elettronica SRL, and Exail SAS are among the leading companies operating in the Europe inertial sensors for land defense system market.

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