Inertial Sensor for Land Defense Systems Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: 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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Report description:

The inertial sensor for land defense systems market size was valued at US$ 846.30 million in 2022 and is expected to reach US$ 1269.22 million by 2030. The market is estimated to record a CAGR of 5.2% from 2022 to 2030.

The Middle East & Africa (MEA) consists of South Africa, Saudi Arabia, the UAE, and the Rest of MEA. The MEA inertial sensor for land defense systems market is expected to experience significant growth in the coming years. The MEA has seen a steady increase in defense spending fueled by political instability, regional conflicts, and the need to innovate military capabilities. This increased spending is translating into investments in advanced land defense systems, including those that utilize inertial sensors. For instance, in June 2023, the Israeli Ministry of Defense received its first new Namer 1500 armored personnel carrier (APC). The Namer 1500 APC was developed as part of Israel's Merkava and Armored Vehicle Directorate tank flagship project that will replace the country's aging M113 APC vehicles. In addition, in June 2022, Israel purchased hundreds of combat vehicles from Israel Aerospace Industries for the country's special forces in a deal of ~US$ 28 million. The demand for precision weapons is propelling the growth of the inertial sensor for land defense systems market. These sensors play a crucial role in guiding missiles, rockets, and other munitions to their targets accurately, minimizing collateral damage, and increasing effectiveness. Moreover,

advancements in inertial sensors are making them smaller, more accurate, and more affordable. This is making them increasingly attractive for integration into land defense systems, even for budget-constrained militaries. Therefore, the inertial sensor for land defense systems market in the MEA is poised for significant growth in the coming years.

The global inertial sensor for land defense systems market is segmented by technology into FOG, MEMS, and others. The others segment includes ring laser gyroscope (RLG) and dynamically tuned gyroscope (DTG). RLGs are high-precision inertial sensors that play a crucial role in guidance, navigation, and control systems for various military applications, including land defense. Unlike traditional spinning gyros, RLGs do not have moving parts, eliminating friction and inherent drift terms, which enhances their accuracy and reliability. RLGs are integrated into INS, which enables autonomous navigation without relying on external references. By continuously measuring rotation rates, RLGs provide accurate information about the system's orientation and angular motion. This self-contained navigation capability is particularly valuable in environments where GPS signals may be unavailable or disrupted. DTG is a type of two-degree-of-freedom inertial sensor that utilizes especially flexible joints. It consists of two input axes that are mutually orthogonal and lie in a plane perpendicular to the gyroscope's spin axis. DTG technology offers unique advantages. It provides accurate measurements of angular rates and is commonly used in applications that demand precise inertial navigation and surveying systems. DTG sensors are designed to detect and measure rotational motion, making them suitable for applications where accurate and reliable orientation information is crucial.

Collins Aerospace, Advanced Navigation Pty Ltd, Honeywell International Inc, Aeron Systems Pvt Ltd, Northrop Grumman Corp., SBG Systems SAS, Thales SA, Emcore Corp, GEM Elettronica SRL, and Exail SAS are among the prominent players profiled in the inertial sensor for land defense systems market report. The overall inertial sensor for land defense systems market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the inertial sensor for land defense systems market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the market.

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