

# **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)**

<https://marketpublishers.com/r/E007F9CBCF32EN.html>

Date: July 2024

Pages: 88

Price: US\$ 2,485.00 (Single User License)

ID: E007F9CBCF32EN

## **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

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

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.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
  - 4.3.1 Component Suppliers
  - 4.3.2 Manufacturers
  - 4.3.3 Distributors/Suppliers
  - 4.3.4 End Users
  - 4.3.5 List of Vendors in the Value Chain

### **5. EUROPE INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET - KEY MARKET DYNAMICS**

- 5.1 Inertial Sensor for Land Defense Systems Market - Key Market Dynamics
- 5.2 Market Drivers
  - 5.2.1 Advancements in MEMS Technology
  - 5.2.2 Emphasis on Weapon System Reliability
- 5.3 Market Restraints
  - 5.3.1 Technological Limitations
- 5.4 Market Opportunities

- 5.4.1 Rise in Government Initiatives Provides Opportunities
- 5.4.2 Threats of GNSS Spoofing and Jamming on Battlefields
- 5.5 Future Trends
  - 5.5.1 Integration of Inertial Sensors with Other Sensor Technologies
- 5.6 Impact of Drivers and Restraints:

## **6. INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET - EUROPE MARKET ANALYSIS**

- 6.1 Inertial Sensor for Land Defense Systems Market Revenue (US\$ Million), 2020-2030
- 6.2 Inertial Sensor for Land Defense Systems Market Forecast Analysis

## **7. EUROPE INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET ANALYSIS - BY TECHNOLOGY**

- 7.1 FOG
  - 7.1.1 Overview
  - 7.1.2 FOG: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)
- 7.2 MEMS
  - 7.2.1 Overview
  - 7.2.2 MEMS: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)
- 7.3 Others
  - 7.3.1 Overview
  - 7.3.2 Others: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

## **8. EUROPE INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET ANALYSIS - BY APPLICATION**

- 8.1 Stabilization Missile Systems
  - 8.1.1 Overview
  - 8.1.2 Stabilization Missile Systems: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)
- 8.2 Stabilization Turret-Cannon Systems
  - 8.2.1 Overview
  - 8.2.2 Stabilization Turret-Cannon Systems: Inertial Sensor for Land Defense Systems

## Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.3 Land Navigation Including Land Survey

#### 8.3.1 Overview

#### 8.3.2 Land Navigation Including Land Survey: Inertial Sensor for Land Defense

## Systems Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.4 Missile GGM-SSM

#### 8.4.1 Overview

#### 8.4.2 Missile GGM-SSM: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.5 Stabilization Active Protection System

#### 8.5.1 Overview

#### 8.5.2 Stabilization Active Protection System: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.6 Stabilization of Optronics System

#### 8.6.1 Overview

#### 8.6.2 Stabilization of Optronics System: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.7 Others

#### 8.7.1 Overview

#### 8.7.2 Others: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

## **9. EUROPE INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET - COUNTRY ANALYSIS**

### 9.1 Europe Market Overview

#### 9.1.1 Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast Analysis - by Country

##### 9.1.1.1 Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast Analysis - by Country

##### 9.1.1.2 United Kingdom: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

###### 9.1.1.2.1 United Kingdom: Inertial Sensor for Land Defense Systems Market Breakdown, by Technology

###### 9.1.1.2.2 United Kingdom: Inertial Sensor for Land Defense Systems Market Breakdown, by Application

##### 9.1.1.3 France: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

###### 9.1.1.3.1 France: Inertial Sensor for Land Defense Systems Market Breakdown, by

## Technology

9.1.1.3.2 France: Inertial Sensor for Land Defense Systems Market Breakdown, by Application

9.1.1.4 Russia: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.4.1 Russia: Inertial Sensor for Land Defense Systems Market Breakdown, by Technology

9.1.1.4.2 Russia: Inertial Sensor for Land Defense Systems Market Breakdown, by Application

9.1.1.5 Germany: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.5.1 Germany: Inertial Sensor for Land Defense Systems Market Breakdown, by Technology

9.1.1.5.2 Germany: Inertial Sensor for Land Defense Systems Market Breakdown, by Application

9.1.1.6 Italy: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.6.1 Italy: Inertial Sensor for Land Defense Systems Market Breakdown, by Technology

9.1.1.6.2 Italy: Inertial Sensor for Land Defense Systems Market Breakdown, by Application

9.1.1.7 Rest of Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.7.1 Rest of Europe: Inertial Sensor for Land Defense Systems Market Breakdown, by Technology

9.1.1.7.2 Rest of Europe: Inertial Sensor for Land Defense Systems Market Breakdown, by Application

## 10. COMPETITIVE LANDSCAPE

10.1 Company Positioning & Concentration

10.2 Heat Map Analysis By Key Players

## 11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.3 Product News & Company News

11.4 Collaboration and Mergers & Acquisitions



## **12. COMPANY PROFILES**

### **12.1 Collins Aerospace**

- 12.1.1 Key Facts
- 12.1.2 Business Description
- 12.1.3 Products and Services
- 12.1.4 Financial Overview
- 12.1.5 SWOT Analysis
- 12.1.6 Key Developments

### **12.2 Advanced Navigation Pty Ltd**

- 12.2.1 Key Facts
- 12.2.2 Business Description
- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments

### **12.3 Honeywell International Inc**

- 12.3.1 Key Facts
- 12.3.2 Business Description
- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments

### **12.4 Northrop Grumman Corp**

- 12.4.1 Key Facts
- 12.4.2 Business Description
- 12.4.3 Products and Services
- 12.4.4 Financial Overview
- 12.4.5 SWOT Analysis
- 12.4.6 Key Developments

### **12.5 SBG Systems SAS**

- 12.5.1 Key Facts
- 12.5.2 Business Description
- 12.5.3 Products and Services
- 12.5.4 Financial Overview
- 12.5.5 SWOT Analysis
- 12.5.6 Key Developments

### **12.6 Thales SA**



- 12.6.1 Key Facts
- 12.6.2 Business Description
- 12.6.3 Products and Services
- 12.6.4 Financial Overview
- 12.6.5 SWOT Analysis
- 12.6.6 Key Developments
- 12.7 GEM Elettronica SRL
  - 12.7.1 Key Facts
  - 12.7.2 Business Description
  - 12.7.3 Products and Services
  - 12.7.4 Financial Overview
  - 12.7.5 SWOT Analysis
  - 12.7.6 Key Developments
- 12.8 Exail SAS
  - 12.8.1 Key Facts
  - 12.8.2 Business Description
  - 12.8.3 Products and Services
  - 12.8.4 Financial Overview
  - 12.8.5 SWOT Analysis
  - 12.8.6 Key Developments

## **13. APPENDIX**

- 13.1 Word Index

## List Of Tables

### LIST OF TABLES

Table 1. Inertial Sensor for Land Defense Systems Market Segmentation

Table 2. List of Vendors

Table 3. Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Table 4. Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 5. Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 6. Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Country

Table 7. United Kingdom: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 8. United Kingdom: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 9. France: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 10. France: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 11. Russia: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 12. Russia: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 13. Germany: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 14. Germany: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 15. Italy: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 16. Italy: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 17. Rest of Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 18. Rest of Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 19. Company Positioning & Concentration

Table 20. List of Abbreviation12. List of Figures

Figure 1. Inertial Sensor for Land Defense Systems Market Segmentation, by Country

Figure 2. PEST Analysis

Figure 3. Ecosystem: Inertial Sensor for Land Defense Systems Market

Figure 4. Impact Analysis of Drivers and Restraints

Figure 5. Inertial Sensor for Land Defense Systems Market Revenue (US\$ Million), 2020-2030

Figure 6. Inertial Sensor for Land Defense Systems Market Share (%) - by Technology (2022 and 2030)

Figure 7. FOG: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 8. MEMS: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 9. Others: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 10. Inertial Sensor for Land Defense Systems Market Share (%) - by Application (2022 and 2030)

Figure 11. Stabilization Missile Systems: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 12. Stabilization Turret-Cannon Systems: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 13. Land Navigation Including Land Survey: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 14. Missile GGM-SSM: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 15. Stabilization Active Protection System: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 16. Stabilization of Optronics System: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 17. Others: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 18. Europe: Inertial Sensor for Land Defense Systems Market, by Key Country - Revenue (2022) (US\$ Million)

Figure 19. Europe: Inertial Sensor for Land Defense Systems Market Breakdown, by Key Countries, 2022 and 2030 (%)

Figure 20. United Kingdom: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 21. France: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 22. Russia: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 23. Germany: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 24. Italy: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 25. Rest of Europe: Inertial Sensor for Land Defense Systems Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 26. Heat Map Analysis By Key Players

## I would like to order

Product name: 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)

Product link: <https://marketpublishers.com/r/E007F9CBCF32EN.html>

Price: US\$ 2,485.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E007F9CBCF32EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970