

# Global Space-Grade Fiber Optic Gyroscope Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Space-Grade Fiber Optic Gyroscope market size was valued at US\$ 115 million in 2024 and is forecast to a readjusted size of USD 180 million by 2031 with a CAGR of 5.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The space-grade fiber optic gyroscope is a high-precision rotation sensor based on the Sagnik effect, which uses the principle of interference of light waves propagating in optical fibers to measure angular velocity and angular displacement. Its core structure includes a light source, an optical fiber ring, and a detector. It outputs attitude information in real time by detecting the change in optical path difference caused by the rotation of the optical fiber ring. Compared with mechanical gyroscopes, space-grade FOG has the advantages of all-solid-state, no mechanical parts, long life, and strong anti-interference ability. It is particularly suitable for high-precision navigation and attitude control needs in space environments.

This report is a detailed and comprehensive analysis for global Space-Grade Fiber Optic Gyroscope market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

**Key Features:**

Global Space-Grade Fiber Optic Gyroscope market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Space-Grade Fiber Optic Gyroscope market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Space-Grade Fiber Optic Gyroscope market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Space-Grade Fiber Optic Gyroscope market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

**The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Space-Grade Fiber Optic Gyroscope
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Space-Grade Fiber Optic Gyroscope market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advanced Navigation, Arquimea, EMCORE, Exail, Fiber Optical Solution, FIBERPRO, Inc, Honeywell, Northrop Grumman, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

**Market Segmentation**

Space-Grade Fiber Optic Gyroscope market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Single-Axis

Multi-Axis

### **Market segment by Application**

Satellite Attitude Control and Navigation

Rocket Launch Tracking and Attitude Measurement

Spacecraft Stabilization and Motion Compensation

Others

### **Major players covered**

Advanced Navigation

Arquimea

EMCORE

Exail

Fiber Optical Solution

FIBERPRO, Inc

Honeywell

Northrop Grumman

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Space-Grade Fiber Optic Gyroscope product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Space-Grade Fiber Optic Gyroscope, with price, sales quantity, revenue, and global market share of Space-Grade Fiber Optic Gyroscope from 2020 to 2025.

Chapter 3, the Space-Grade Fiber Optic Gyroscope competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Space-Grade Fiber Optic Gyroscope breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Space-Grade Fiber Optic Gyroscope market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Space-Grade Fiber Optic Gyroscope.

Chapter 14 and 15, to describe Space-Grade Fiber Optic Gyroscope sales channel, distributors, customers, research findings and conclusion.

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