

How Competition Is Evolving in the Fiber Optics Gyroscope Market

The Business Research Company's Fiber Optics Gyroscope Global Market Report 2026 - Market Size, Trends, And Global Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, April 2, 2026

/EINPresswire.com/ -- [The fiber optics gyroscope market](#) is dominated by a

mix of global aerospace and defense manufacturers and specialized photonics and sensing technology companies. Companies are focusing on

advanced optical sensing technologies, precision navigation systems, miniaturized designs, and high-performance signal processing capabilities to strengthen market presence and ensure high accuracy and reliability in demanding applications. Emphasis on technological innovation, system integration, and compliance with stringent aerospace and defense standards remains

central to competitive positioning. Understanding the competitive landscape is essential for stakeholders seeking growth opportunities, technological innovation, and strategic partnerships within the rapidly evolving aerospace, defense, autonomous systems, and advanced navigation sectors.



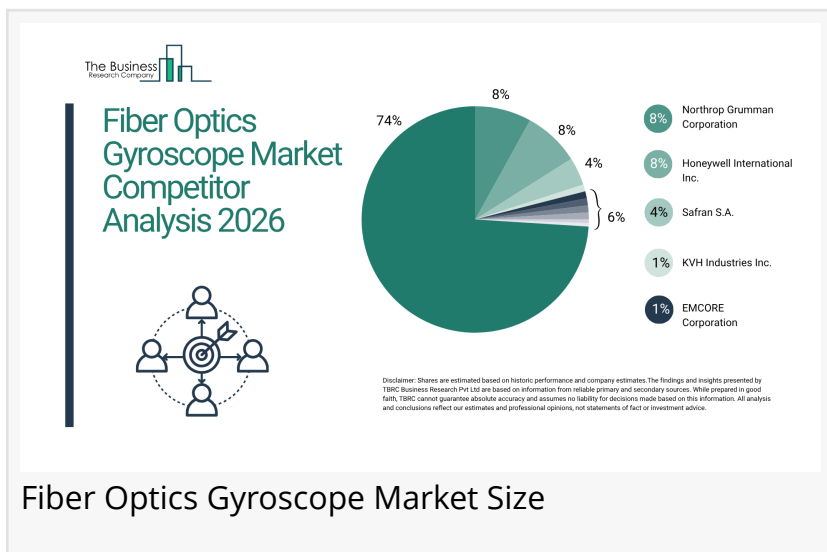
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Which Market Player Is Leading The Fiber Optics Gyroscope Market?

- According to our research, Northrop Grumman Corporation led global sales in 2024 with a 8% market

share. The advanced navigation and mission systems division of the company, which is directly involved in the fiber optics gyroscope market, provides a wide range of high-precision fiber optic gyroscopes, inertial navigation systems, and motion sensing technologies that support aerospace and defense platforms, autonomous systems, marine navigation, and other mission-critical applications operating in highly regulated and high-performance environments.



Who Are The Major Players In The Fiber Optics Gyroscope Market?

Major companies operating in the fiber optics gyroscope market are Northrop Grumman Corporation, Honeywell International Inc., Safran S.A., KVH Industries Inc., EMCORE Corporation, iXBlue SAS, Advanced Navigation, Cielo Inertial Solutions Ltd., NXP Semiconductor, Fizoptika Corporation, STMicroelectronics, Optolink LLC, SAAB AB, Nyfors Teknologi AB, Tamagawa Seiki Co. Ltd., Silicon Sensing Systems Limited, FIBERPRO Inc., Fibernetics LLC, NEDAERO, InnaLabs, FURUKAWA ELECTRIC CO. LTD., Trimble Inc., TDK Corporation, Epson America Inc., Luna Innovations, Murata Manufacturing Co. Ltd..

How Concentrated Is The Fiber Optics Gyroscope Market?

• The market is moderately fragmented, with the top 10 players accounting for 26% of total market revenue in 2024. This level of concentration reflects high technological and regulatory entry barriers, driven by the complexity of precision optical sensing technologies, stringent aerospace and defense certification requirements, advanced photonics manufacturing processes, and the need for highly reliable navigation systems in mission-critical environments. Leading players such as Northrop Grumman Corporation, Honeywell International Inc., Safran S.A., KVH Industries Inc., EMCORE Corporation, iXBlue SAS, Advanced Navigation, Cielo Inertial Solutions Ltd., NXP Semiconductor, and Fizoptika Corporation hold notable market shares through diversified inertial navigation portfolios, advanced fiber optic sensing technologies, established global supply chains, and continuous innovation in high-precision gyroscope design and photonic integration. As demand for high-accuracy navigation in aerospace, defense, autonomous vehicles, marine systems, and industrial robotics continues to grow, strategic collaborations, technological advancements, and expansion of advanced photonics manufacturing capabilities are expected to strengthen the competitive positioning of these leading companies in the fiber optics gyroscope market.

- Leading companies include:
 - o Northrop Grumman Corporation (8%)
 - o Honeywell International Inc. (8%)
 - o Safran S.A. (4%)
 - o KVH Industries Inc. (1%)
 - o EMCORE Corporation (1%)
 - o iXBlue SAS (1%)
 - o Advanced Navigation (1%)
 - o Cielo Inertial Solutions Ltd. (1%)
 - o NXP Semiconductor (0.5%)
 - o Fizoptika Corporation (0.5%)

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Who Are The Key Raw Material Suppliers In The Fiber Optics Gyroscope Market?

- Major raw materials suppliers in the fiber optics gyroscope market include Corning Incorporated, OFS Fitel LLC, Fujikura Ltd., Sumitomo Electric Industries Ltd., Prysmian Group, Furukawa Electric Co. Ltd., Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC), Thorlabs Inc., IPG Photonics Corporation, Lumentum Holdings Inc., II-VI Incorporated, NeoPhotonics Corporation, Broadcom Inc., Hamamatsu Photonics K.K., Finisar Corporation, SCHOTT AG, Heraeus Holding GmbH, Gooch & Housego PLC, Viavi Solutions Inc., nLIGHT Inc., Molex LLC, Amphenol Corporation, TE Connectivity Ltd., AVIC Jonhon Optronics Technology Co. Ltd., Visotek Inc.

Who Are The Major Wholesalers And Distributors In The Fiber Optics Gyroscope Market?

- Major wholesalers or distributors in the fiber optics gyroscope market include Arrow Electronics Inc., Avnet Inc., WPG Holdings Limited, Future Electronics Inc., Digi-Key Electronics, Mouser Electronics Inc., Richardson Electronics Ltd., Electrocomponents plc, TTI Inc., Macnica Holdings Inc., Rutronik Elektronische Bauelemente GmbH, Premier Farnell Limited, Heilind Electronics Inc., Sager Electronics Inc., Powell Electronics Inc., Master Electronics Inc., Symmetry Electronics, Fusion Worldwide LLC, Astute Electronics Ltd., Velocity Electronics Ltd., Smith & Associates Interconnect Inc., NewPower Worldwide, EBV Elektronik GmbH, Carlton-Bates Company Inc., and World Peace Industrial Group Inc.

Who Are The Major End Users Of The Fiber Optics Gyroscope Market?

- Major end users in the fiber optics gyroscope market include Honeywell International Inc., Northrop Grumman Corporation, Safran S.A., RTX Corporation, L3Harris Technologies Inc., Thales Group, KVH Industries Inc., EMCORE Corporation, Exail Technologies, Advanced Navigation Pty Ltd., Trimble Inc., VectorNav Technologies LLC, Kearfott Corporation, Nedaero Components B.V., Cielo Inertial Solutions Ltd., Optolink LLC, Fizoptika Corp., Mitsubishi Precision Co. Ltd., Civitanavi Systems S.p.A., Elbit Systems Ltd., China Aerospace Science and Technology Corporation, Beijing Navgss Technology Co. Ltd., Hubei Aerospace New Long March Electric Co. Ltd., Ericco International Limited, and SkyMEMS Technology Co. Ltd.

What Are The Major Competitive Trends In The Market?

- Photonic-integrated chip gyroscopes is transforming the fiber optics gyroscope market by enabling compact, lightweight, and high-precision inertial sensing while maintaining low signal noise, strong environmental resilience
- Example: In October 2025, EMCORE Corporation launched the TAC-DSP-1750 Fiber Optic Gyroscope, a re-engineered version of its DSP-1750 incorporating advanced photonic-integrated chip technology.
- Its miniaturized architecture, low noise performance, high bias stability, and strong shock and vibration tolerance enable reliable deployment in autonomous vehicles, drones, AUVs, ROVs, and stabilized platforms, strengthening high-performance navigation capabilities and expanding commercial and defense-grade inertial sensing applications.

Which Strategies Are Companies Adopting To Stay Ahead?

- GPS-Independent Sensor-Fusion Navigation Enabling Reliable Positioning In Contested And

Signal-Denied Environments

- Precision-Engineered Optical Components Enhancing Stability And Performance In Harsh Operating Conditions
- Low-Noise Inertial Stabilization Technologies Improving Accuracy In High-Vibration And Magnetic Interference Environments
- Silicon Photonics-Based Miniaturized Gyroscopes Enabling High-Precision Navigation For Autonomous Platforms

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