

Global High Accuracy Fibre-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 High Accuracy Fibre-Optic Gyroscope market size was valued at US\$ 732 million in 2024 and is forecast to a readjusted size of USD 959 million by 2031 with a CAGR of 3.9% during review period.

The high-accuracy fiber-optic gyroscope, based on the Sagnac effect, uses a fiber-optic coil to detect phase differences in light propagating in opposite directions, precisely measuring angular velocity. Its key performance metric, bias stability, is required to be below $0.1(^{\circ})/h$ to ensure high-precision output, with scale factor nonlinearity and asymmetry also kept extremely low for measurement accuracy. Technologically, it employs optimized optical path designs, such as high-quality fibers and precise couplers, combined with advanced signal processing algorithms like digital filtering and error compensation, as well as stable light sources and detectors, to minimize noise and environmental disturbances, achieving high-resolution and long-term stable angular velocity measurements.

This report is a detailed and comprehensive analysis for global High Accuracy Fibre-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.

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.

Key Features:

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

Global High Accuracy Fibre-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 High Accuracy Fibre-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 High Accuracy Fibre-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 High Accuracy Fibre-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 High Accuracy Fibre-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 EMCORE(KVH Industries), Exail(iXblue), FIBERPRO, Advanced Navigation, Airbus, Arquimea, Safran Group, GEM Electronics, Tamagawa Seiki, FOG Photonics, etc.

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

Market Segmentation

High Accuracy Fibre-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-Aixs

Dual-Aixs

Multiple-Aixs

Market segment by Application

Marine Engineering

Aviation & Aerospace

Defense

Industrial

Others

Major players covered

EMCORE(KVH Industries)

Exail(iXblue)

FIBERPRO

Advanced Navigation

Airbus

Arquimea

Safran Group

GEM Electronics

Tamagawa Seiki

FOG Photonics

Nanjing SkyMEMS

Beijing AVIC Tianyou Technology

Beijing StarNeto Technology

Haerbin Flagship Enterprise

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 High Accuracy Fibre-Optic Gyroscope product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the High Accuracy Fibre-Optic Gyroscope competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the High Accuracy Fibre-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 High Accuracy Fibre-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 High Accuracy Fibre-Optic Gyroscope.

Chapter 14 and 15, to describe High Accuracy Fibre-Optic Gyroscope sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Single-Aixs

1.3.3 Dual-Aixs

1.3.4 Multiple-Aixs

1.4 Market Analysis by Application

1.4.1 Overview: Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Marine Engineering

1.4.3 Aviation & Aerospace

1.4.4 Defense

1.4.5 Industrial

1.4.6 Others

1.5 Global High Accuracy Fibre-Optic Gyroscope Market Size & Forecast

1.5.1 Global High Accuracy Fibre-Optic Gyroscope Consumption Value (2020 & 2024 & 2031)

1.5.2 Global High Accuracy Fibre-Optic Gyroscope Sales Quantity (2020-2031)

1.5.3 Global High Accuracy Fibre-Optic Gyroscope Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 EMCORE(KVH Industries)

2.1.1 EMCORE(KVH Industries) Details

2.1.2 EMCORE(KVH Industries) Major Business

2.1.3 EMCORE(KVH Industries) High Accuracy Fibre-Optic Gyroscope Product and Services

2.1.4 EMCORE(KVH Industries) High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 EMCORE(KVH Industries) Recent Developments/Updates

2.2 Exail(iXblue)

2.2.1 Exail(iXblue) Details

2.2.2 Exail(iXblue) Major Business

- 2.2.3 Exail(iXblue) High Accuracy Fibre-Optic Gyroscope Product and Services
- 2.2.4 Exail(iXblue) High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.2.5 Exail(iXblue) Recent Developments/Updates
- 2.3 FIBERPRO
 - 2.3.1 FIBERPRO Details
 - 2.3.2 FIBERPRO Major Business
 - 2.3.3 FIBERPRO High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.3.4 FIBERPRO High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 FIBERPRO Recent Developments/Updates
- 2.4 Advanced Navigation
 - 2.4.1 Advanced Navigation Details
 - 2.4.2 Advanced Navigation Major Business
 - 2.4.3 Advanced Navigation High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.4.4 Advanced Navigation High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Advanced Navigation Recent Developments/Updates
- 2.5 Airbus
 - 2.5.1 Airbus Details
 - 2.5.2 Airbus Major Business
 - 2.5.3 Airbus High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.5.4 Airbus High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Airbus Recent Developments/Updates
- 2.6 Arquimea
 - 2.6.1 Arquimea Details
 - 2.6.2 Arquimea Major Business
 - 2.6.3 Arquimea High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.6.4 Arquimea High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 Arquimea Recent Developments/Updates
- 2.7 Safran Group
 - 2.7.1 Safran Group Details
 - 2.7.2 Safran Group Major Business
 - 2.7.3 Safran Group High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.7.4 Safran Group High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.7.5 Safran Group Recent Developments/Updates
- 2.8 GEM Electronics
 - 2.8.1 GEM Electronics Details
 - 2.8.2 GEM Electronics Major Business
 - 2.8.3 GEM Electronics High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.8.4 GEM Electronics High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.8.5 GEM Electronics Recent Developments/Updates
- 2.9 Tamagawa Seiki
 - 2.9.1 Tamagawa Seiki Details
 - 2.9.2 Tamagawa Seiki Major Business
 - 2.9.3 Tamagawa Seiki High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.9.4 Tamagawa Seiki High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Tamagawa Seiki Recent Developments/Updates
- 2.10 FOG Photonics
 - 2.10.1 FOG Photonics Details
 - 2.10.2 FOG Photonics Major Business
 - 2.10.3 FOG Photonics High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.10.4 FOG Photonics High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 FOG Photonics Recent Developments/Updates
- 2.11 Nanjing SkyMEMS
 - 2.11.1 Nanjing SkyMEMS Details
 - 2.11.2 Nanjing SkyMEMS Major Business
 - 2.11.3 Nanjing SkyMEMS High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.11.4 Nanjing SkyMEMS High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Nanjing SkyMEMS Recent Developments/Updates
- 2.12 Beijing AVIC Tianyou Technology
 - 2.12.1 Beijing AVIC Tianyou Technology Details
 - 2.12.2 Beijing AVIC Tianyou Technology Major Business
 - 2.12.3 Beijing AVIC Tianyou Technology High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.12.4 Beijing AVIC Tianyou Technology High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Beijing AVIC Tianyou Technology Recent Developments/Updates
- 2.13 Beijing StarNeto Technology
 - 2.13.1 Beijing StarNeto Technology Details

- 2.13.2 Beijing StarNeto Technology Major Business
- 2.13.3 Beijing StarNeto Technology High Accuracy Fibre-Optic Gyroscope Product and Services
- 2.13.4 Beijing StarNeto Technology High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.13.5 Beijing StarNeto Technology Recent Developments/Updates
- 2.14 Haerbin Flagship Enterprise
 - 2.14.1 Haerbin Flagship Enterprise Details
 - 2.14.2 Haerbin Flagship Enterprise Major Business
 - 2.14.3 Haerbin Flagship Enterprise High Accuracy Fibre-Optic Gyroscope Product and Services
 - 2.14.4 Haerbin Flagship Enterprise High Accuracy Fibre-Optic Gyroscope Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.14.5 Haerbin Flagship Enterprise Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HIGH ACCURACY FIBRE-OPTIC GYROSCOPE BY MANUFACTURER

- 3.1 Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global High Accuracy Fibre-Optic Gyroscope Revenue by Manufacturer (2020-2025)
- 3.3 Global High Accuracy Fibre-Optic Gyroscope Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of High Accuracy Fibre-Optic Gyroscope by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 High Accuracy Fibre-Optic Gyroscope Manufacturer Market Share in 2024
 - 3.4.3 Top 6 High Accuracy Fibre-Optic Gyroscope Manufacturer Market Share in 2024
- 3.5 High Accuracy Fibre-Optic Gyroscope Market: Overall Company Footprint Analysis
 - 3.5.1 High Accuracy Fibre-Optic Gyroscope Market: Region Footprint
 - 3.5.2 High Accuracy Fibre-Optic Gyroscope Market: Company Product Type Footprint
 - 3.5.3 High Accuracy Fibre-Optic Gyroscope Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global High Accuracy Fibre-Optic Gyroscope Market Size by Region

4.1.1 Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Region (2020-2031)

4.1.2 Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2020-2031)

4.1.3 Global High Accuracy Fibre-Optic Gyroscope Average Price by Region (2020-2031)

4.2 North America High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031)

4.3 Europe High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031)

4.4 Asia-Pacific High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031)

4.5 South America High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031)

4.6 Middle East & Africa High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2031)

5.2 Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Type (2020-2031)

5.3 Global High Accuracy Fibre-Optic Gyroscope Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2031)

6.2 Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Application (2020-2031)

6.3 Global High Accuracy Fibre-Optic Gyroscope Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2031)

7.2 North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2031)

7.3 North America High Accuracy Fibre-Optic Gyroscope Market Size by Country

7.3.1 North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2031)

7.3.2 North America High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2031)

8.2 Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2031)

8.3 Europe High Accuracy Fibre-Optic Gyroscope Market Size by Country

8.3.1 Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2031)

8.3.2 Europe High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific High Accuracy Fibre-Optic Gyroscope Market Size by Region

9.3.1 Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2031)

10.2 South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2031)

10.3 South America High Accuracy Fibre-Optic Gyroscope Market Size by Country

10.3.1 South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2031)

10.3.2 South America High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa High Accuracy Fibre-Optic Gyroscope Market Size by Country

11.3.1 Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 High Accuracy Fibre-Optic Gyroscope Market Drivers

12.2 High Accuracy Fibre-Optic Gyroscope Market Restraints

12.3 High Accuracy Fibre-Optic Gyroscope Trends Analysis

12.4 Porters Five Forces Analysis

- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of High Accuracy Fibre-Optic Gyroscope and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of High Accuracy Fibre-Optic Gyroscope
- 13.3 High Accuracy Fibre-Optic Gyroscope Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 High Accuracy Fibre-Optic Gyroscope Typical Distributors
- 14.3 High Accuracy Fibre-Optic Gyroscope Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. EMCORE(KVH Industries) Basic Information, Manufacturing Base and Competitors

Table 4. EMCORE(KVH Industries) Major Business

Table 5. EMCORE(KVH Industries) High Accuracy Fibre-Optic Gyroscope Product and Services

Table 6. EMCORE(KVH Industries) High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. EMCORE(KVH Industries) Recent Developments/Updates

Table 8. Exail(iXblue) Basic Information, Manufacturing Base and Competitors

Table 9. Exail(iXblue) Major Business

Table 10. Exail(iXblue) High Accuracy Fibre-Optic Gyroscope Product and Services

Table 11. Exail(iXblue) High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Exail(iXblue) Recent Developments/Updates

Table 13. FIBERPRO Basic Information, Manufacturing Base and Competitors

Table 14. FIBERPRO Major Business

Table 15. FIBERPRO High Accuracy Fibre-Optic Gyroscope Product and Services

Table 16. FIBERPRO High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. FIBERPRO Recent Developments/Updates

Table 18. Advanced Navigation Basic Information, Manufacturing Base and Competitors

Table 19. Advanced Navigation Major Business

Table 20. Advanced Navigation High Accuracy Fibre-Optic Gyroscope Product and Services

Table 21. Advanced Navigation High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Advanced Navigation Recent Developments/Updates

Table 23. Airbus Basic Information, Manufacturing Base and Competitors

Table 24. Airbus Major Business

Table 25. Airbus High Accuracy Fibre-Optic Gyroscope Product and Services

Table 26. Airbus High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Airbus Recent Developments/Updates

Table 28. Arquimea Basic Information, Manufacturing Base and Competitors

Table 29. Arquimea Major Business

Table 30. Arquimea High Accuracy Fibre-Optic Gyroscope Product and Services

Table 31. Arquimea High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Arquimea Recent Developments/Updates

Table 33. Safran Group Basic Information, Manufacturing Base and Competitors

Table 34. Safran Group Major Business

Table 35. Safran Group High Accuracy Fibre-Optic Gyroscope Product and Services

Table 36. Safran Group High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Safran Group Recent Developments/Updates

Table 38. GEM Electronics Basic Information, Manufacturing Base and Competitors

Table 39. GEM Electronics Major Business

Table 40. GEM Electronics High Accuracy Fibre-Optic Gyroscope Product and Services

Table 41. GEM Electronics High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. GEM Electronics Recent Developments/Updates

Table 43. Tamagawa Seiki Basic Information, Manufacturing Base and Competitors

Table 44. Tamagawa Seiki Major Business

Table 45. Tamagawa Seiki High Accuracy Fibre-Optic Gyroscope Product and Services

Table 46. Tamagawa Seiki High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Tamagawa Seiki Recent Developments/Updates

Table 48. FOG Photonics Basic Information, Manufacturing Base and Competitors

Table 49. FOG Photonics Major Business

Table 50. FOG Photonics High Accuracy Fibre-Optic Gyroscope Product and Services

Table 51. FOG Photonics High Accuracy Fibre-Optic Gyroscope Sales Quantity (K

Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. FOG Photonics Recent Developments/Updates

Table 53. Nanjing SkyMEMS Basic Information, Manufacturing Base and Competitors

Table 54. Nanjing SkyMEMS Major Business

Table 55. Nanjing SkyMEMS High Accuracy Fibre-Optic Gyroscope Product and Services

Table 56. Nanjing SkyMEMS High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Nanjing SkyMEMS Recent Developments/Updates

Table 58. Beijing AVIC Tianyou Technology Basic Information, Manufacturing Base and Competitors

Table 59. Beijing AVIC Tianyou Technology Major Business

Table 60. Beijing AVIC Tianyou Technology High Accuracy Fibre-Optic Gyroscope Product and Services

Table 61. Beijing AVIC Tianyou Technology High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Beijing AVIC Tianyou Technology Recent Developments/Updates

Table 63. Beijing StarNeto Technology Basic Information, Manufacturing Base and Competitors

Table 64. Beijing StarNeto Technology Major Business

Table 65. Beijing StarNeto Technology High Accuracy Fibre-Optic Gyroscope Product and Services

Table 66. Beijing StarNeto Technology High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Beijing StarNeto Technology Recent Developments/Updates

Table 68. Haerbin Flagship Enterprise Basic Information, Manufacturing Base and Competitors

Table 69. Haerbin Flagship Enterprise Major Business

Table 70. Haerbin Flagship Enterprise High Accuracy Fibre-Optic Gyroscope Product and Services

Table 71. Haerbin Flagship Enterprise High Accuracy Fibre-Optic Gyroscope Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Haerbin Flagship Enterprise Recent Developments/Updates

Table 73. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Manufacturer

(2020-2025) & (K Units)

Table 74. Global High Accuracy Fibre-Optic Gyroscope Revenue by Manufacturer (2020-2025) & (USD Million)

Table 75. Global High Accuracy Fibre-Optic Gyroscope Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 76. Market Position of Manufacturers in High Accuracy Fibre-Optic Gyroscope, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 77. Head Office and High Accuracy Fibre-Optic Gyroscope Production Site of Key Manufacturer

Table 78. High Accuracy Fibre-Optic Gyroscope Market: Company Product Type Footprint

Table 79. High Accuracy Fibre-Optic Gyroscope Market: Company Product Application Footprint

Table 80. High Accuracy Fibre-Optic Gyroscope New Market Entrants and Barriers to Market Entry

Table 81. High Accuracy Fibre-Optic Gyroscope Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 83. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Region (2020-2025) & (K Units)

Table 84. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Region (2026-2031) & (K Units)

Table 85. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2020-2025) & (USD Million)

Table 86. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2026-2031) & (USD Million)

Table 87. Global High Accuracy Fibre-Optic Gyroscope Average Price by Region (2020-2025) & (US\$/Unit)

Table 88. Global High Accuracy Fibre-Optic Gyroscope Average Price by Region (2026-2031) & (US\$/Unit)

Table 89. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2025) & (K Units)

Table 90. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2026-2031) & (K Units)

Table 91. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Type (2020-2025) & (USD Million)

Table 92. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Type (2026-2031) & (USD Million)

Table 93. Global High Accuracy Fibre-Optic Gyroscope Average Price by Type (2020-2025) & (US\$/Unit)

Table 94. Global High Accuracy Fibre-Optic Gyroscope Average Price by Type (2026-2031) & (US\$/Unit)

Table 95. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2025) & (K Units)

Table 96. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2026-2031) & (K Units)

Table 97. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Application (2020-2025) & (USD Million)

Table 98. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Application (2026-2031) & (USD Million)

Table 99. Global High Accuracy Fibre-Optic Gyroscope Average Price by Application (2020-2025) & (US\$/Unit)

Table 100. Global High Accuracy Fibre-Optic Gyroscope Average Price by Application (2026-2031) & (US\$/Unit)

Table 101. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2025) & (K Units)

Table 102. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2026-2031) & (K Units)

Table 103. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2025) & (K Units)

Table 104. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2026-2031) & (K Units)

Table 105. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2025) & (K Units)

Table 106. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2026-2031) & (K Units)

Table 107. North America High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2025) & (USD Million)

Table 108. North America High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2026-2031) & (USD Million)

Table 109. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2025) & (K Units)

Table 110. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2026-2031) & (K Units)

Table 111. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2025) & (K Units)

Table 112. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application

(2026-2031) & (K Units)

Table 113. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2025) & (K Units)

Table 114. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2026-2031) & (K Units)

Table 115. Europe High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2025) & (USD Million)

Table 116. Europe High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2026-2031) & (USD Million)

Table 117. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2025) & (K Units)

Table 118. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2026-2031) & (K Units)

Table 119. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2025) & (K Units)

Table 120. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2026-2031) & (K Units)

Table 121. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Region (2020-2025) & (K Units)

Table 122. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity by Region (2026-2031) & (K Units)

Table 123. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2020-2025) & (USD Million)

Table 124. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Consumption Value by Region (2026-2031) & (USD Million)

Table 125. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2025) & (K Units)

Table 126. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2026-2031) & (K Units)

Table 127. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2025) & (K Units)

Table 128. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2026-2031) & (K Units)

Table 129. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2025) & (K Units)

Table 130. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2026-2031) & (K Units)

Table 131. South America High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2025) & (USD Million)

Table 132. South America High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2026-2031) & (USD Million)

Table 133. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2020-2025) & (K Units)

Table 134. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Type (2026-2031) & (K Units)

Table 135. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2020-2025) & (K Units)

Table 136. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Application (2026-2031) & (K Units)

Table 137. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2020-2025) & (K Units)

Table 138. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity by Country (2026-2031) & (K Units)

Table 139. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2020-2025) & (USD Million)

Table 140. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Consumption Value by Country (2026-2031) & (USD Million)

Table 141. High Accuracy Fibre-Optic Gyroscope Raw Material

Table 142. Key Manufacturers of High Accuracy Fibre-Optic Gyroscope Raw Materials

Table 143. High Accuracy Fibre-Optic Gyroscope Typical Distributors

Table 144. High Accuracy Fibre-Optic Gyroscope Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. High Accuracy Fibre-Optic Gyroscope Picture
- Figure 2. Global High Accuracy Fibre-Optic Gyroscope Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global High Accuracy Fibre-Optic Gyroscope Revenue Market Share by Type in 2024
- Figure 4. Single-Aixs Examples
- Figure 5. Dual-Aixs Examples
- Figure 6. Multiple-Aixs Examples
- Figure 7. Global High Accuracy Fibre-Optic Gyroscope Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 8. Global High Accuracy Fibre-Optic Gyroscope Revenue Market Share by Application in 2024
- Figure 9. Marine Engineering Examples
- Figure 10. Aviation & Aerospace Examples
- Figure 11. Defense Examples
- Figure 12. Industrial Examples
- Figure 13. Others Examples
- Figure 14. Global High Accuracy Fibre-Optic Gyroscope Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 15. Global High Accuracy Fibre-Optic Gyroscope Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 16. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity (2020-2031) & (K Units)
- Figure 17. Global High Accuracy Fibre-Optic Gyroscope Price (2020-2031) & (US\$/Unit)
- Figure 18. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Manufacturer in 2024
- Figure 19. Global High Accuracy Fibre-Optic Gyroscope Revenue Market Share by Manufacturer in 2024
- Figure 20. Producer Shipments of High Accuracy Fibre-Optic Gyroscope by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 21. Top 3 High Accuracy Fibre-Optic Gyroscope Manufacturer (Revenue) Market Share in 2024
- Figure 22. Top 6 High Accuracy Fibre-Optic Gyroscope Manufacturer (Revenue) Market Share in 2024
- Figure 23. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share

by Region (2020-2031)

Figure 24. Global High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Region (2020-2031)

Figure 25. North America High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 26. Europe High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 27. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 28. South America High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 29. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 30. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Type (2020-2031)

Figure 31. Global High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Type (2020-2031)

Figure 32. Global High Accuracy Fibre-Optic Gyroscope Average Price by Type (2020-2031) & (US\$/Unit)

Figure 33. Global High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Application (2020-2031)

Figure 34. Global High Accuracy Fibre-Optic Gyroscope Revenue Market Share by Application (2020-2031)

Figure 35. Global High Accuracy Fibre-Optic Gyroscope Average Price by Application (2020-2031) & (US\$/Unit)

Figure 36. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Type (2020-2031)

Figure 37. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Application (2020-2031)

Figure 38. North America High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Country (2020-2031)

Figure 39. North America High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Country (2020-2031)

Figure 40. United States High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 41. Canada High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 42. Mexico High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 43. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Type (2020-2031)

Figure 44. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Application (2020-2031)

Figure 45. Europe High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Country (2020-2031)

Figure 46. Europe High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Country (2020-2031)

Figure 47. Germany High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 48. France High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 49. United Kingdom High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 50. Russia High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 51. Italy High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 52. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Type (2020-2031)

Figure 53. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Application (2020-2031)

Figure 54. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Region (2020-2031)

Figure 55. Asia-Pacific High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Region (2020-2031)

Figure 56. China High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 57. Japan High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 58. South Korea High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 59. India High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 60. Southeast Asia High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 61. Australia High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 62. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity Market

Share by Type (2020-2031)

Figure 63. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Application (2020-2031)

Figure 64. South America High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Country (2020-2031)

Figure 65. South America High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Country (2020-2031)

Figure 66. Brazil High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 67. Argentina High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 68. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Type (2020-2031)

Figure 69. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Application (2020-2031)

Figure 70. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Sales Quantity Market Share by Country (2020-2031)

Figure 71. Middle East & Africa High Accuracy Fibre-Optic Gyroscope Consumption Value Market Share by Country (2020-2031)

Figure 72. Turkey High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 73. Egypt High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 74. Saudi Arabia High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 75. South Africa High Accuracy Fibre-Optic Gyroscope Consumption Value (2020-2031) & (USD Million)

Figure 76. High Accuracy Fibre-Optic Gyroscope Market Drivers

Figure 77. High Accuracy Fibre-Optic Gyroscope Market Restraints

Figure 78. High Accuracy Fibre-Optic Gyroscope Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of High Accuracy Fibre-Optic Gyroscope in 2024

Figure 81. Manufacturing Process Analysis of High Accuracy Fibre-Optic Gyroscope

Figure 82. High Accuracy Fibre-Optic Gyroscope Industrial Chain

Figure 83. Sales Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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