

Global Fiber Bragg Grating Sensors Market Growth (Status and Outlook) 2025-2031

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Abstracts

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The global Fiber Bragg Grating Sensors market size is predicted to grow from US\$ 424 million in 2025 to US\$ 661 million in 2031; it is expected to grow at a CAGR of 7.7% from 2025 to 2031.

Fiber Bragg Grating Sensors are sensors that reflects the wavelength of light that moves in response to changes in temperature and/or strain. Fiber Bragg gratings are made by laterally exposing the core of a single mode fiber to a periodic pattern of intense ultraviolet light.

In 2019, North America has the largest production capacity of Fiber Bragg Grating Sensors, accounting for about 32% of the global revenue, while Europe is the second-largest region-wise market (about 28%).

The main manufacturers are Luna Innovations, Proximion (Hexatronic), HBM (HBK), FBGS Technologies GmbH and ITF Technologies. The Top 5 took up about 47% of the global market in 2019.

Fiber Bragg Grating Sensors are mainly classified into the following types: Temperature Sensors, Strain Sensors and Others. Strain Sensors accounted for the largest part of the Sales volume market, with above 55% in 2019.

Fiber Bragg Grating Sensors have wide range of applications: Oil & Gas, Aerospace & Defense, Power Industry, Architecture Industry and Others. Architecture Industry consumed the largest part, with about 39% of the market share by sales volume in

2019, followed by Oil & Gas (about 19%).

LPI (LP Information)' newest research report, the “Fiber Bragg Grating Sensors Industry Forecast” looks at past sales and reviews total world Fiber Bragg Grating Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Fiber Bragg Grating Sensors sales for 2025 through 2031. With Fiber Bragg Grating Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Fiber Bragg Grating Sensors industry.

This Insight Report provides a comprehensive analysis of the global Fiber Bragg Grating Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Fiber Bragg Grating Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Fiber Bragg Grating Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fiber Bragg Grating Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Fiber Bragg Grating Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Fiber Bragg Grating Sensors market by product type, application, key players and key regions and countries.

Segmentation by Type:

Temperature Sensors

Strain Sensors

Others

Segmentation by Application:

Oil & Gas

Aerospace & Defense

Power Industry

Architecture Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Luna Innovations

Proximion (Hexatronic)

HBM (HBK)

ITF Technologies Inc

FBGS Technologies GmbH

Technica

Smart Fibres Limited

Optromix, Inc.

Wuhan Ligong Guangke

FBG Korea

Smartec (Roctest)

Timbercon (Radiall)

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Fiber Bragg Grating Sensors Market Size (2020-2031)
 - 2.1.2 Fiber Bragg Grating Sensors Market Size CAGR by Region (2020 VS 2024 VS 2031)
 - 2.1.3 World Current & Future Analysis for Fiber Bragg Grating Sensors by Country/Region (2020, 2024 & 2031)
- 2.2 Fiber Bragg Grating Sensors Segment by Type
 - 2.2.1 Temperature Sensors
 - 2.2.2 Strain Sensors
 - 2.2.3 Others
- 2.3 Fiber Bragg Grating Sensors Market Size by Type
 - 2.3.1 Fiber Bragg Grating Sensors Market Size CAGR by Type (2020 VS 2024 VS 2031)
 - 2.3.2 Global Fiber Bragg Grating Sensors Market Size Market Share by Type (2020-2025)
- 2.4 Fiber Bragg Grating Sensors Segment by Application
 - 2.4.1 Oil & Gas
 - 2.4.2 Aerospace & Defense
 - 2.4.3 Power Industry
 - 2.4.4 Architecture Industry
 - 2.4.5 Others
- 2.5 Fiber Bragg Grating Sensors Market Size by Application
 - 2.5.1 Fiber Bragg Grating Sensors Market Size CAGR by Application (2020 VS 2024 VS 2031)

2.5.2 Global Fiber Bragg Grating Sensors Market Size Market Share by Application (2020-2025)

3 FIBER BRAGG GRATING SENSORS MARKET SIZE BY PLAYER

3.1 Fiber Bragg Grating Sensors Market Size Market Share by Player

3.1.1 Global Fiber Bragg Grating Sensors Revenue by Player (2020-2025)

3.1.2 Global Fiber Bragg Grating Sensors Revenue Market Share by Player (2020-2025)

3.2 Global Fiber Bragg Grating Sensors Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 FIBER BRAGG GRATING SENSORS BY REGION

4.1 Fiber Bragg Grating Sensors Market Size by Region (2020-2025)

4.2 Global Fiber Bragg Grating Sensors Annual Revenue by Country/Region (2020-2025)

4.3 Americas Fiber Bragg Grating Sensors Market Size Growth (2020-2025)

4.4 APAC Fiber Bragg Grating Sensors Market Size Growth (2020-2025)

4.5 Europe Fiber Bragg Grating Sensors Market Size Growth (2020-2025)

4.6 Middle East & Africa Fiber Bragg Grating Sensors Market Size Growth (2020-2025)

5 AMERICAS

5.1 Americas Fiber Bragg Grating Sensors Market Size by Country (2020-2025)

5.2 Americas Fiber Bragg Grating Sensors Market Size by Type (2020-2025)

5.3 Americas Fiber Bragg Grating Sensors Market Size by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Fiber Bragg Grating Sensors Market Size by Region (2020-2025)

- 6.2 APAC Fiber Bragg Grating Sensors Market Size by Type (2020-2025)
- 6.3 APAC Fiber Bragg Grating Sensors Market Size by Application (2020-2025)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Fiber Bragg Grating Sensors Market Size by Country (2020-2025)
- 7.2 Europe Fiber Bragg Grating Sensors Market Size by Type (2020-2025)
- 7.3 Europe Fiber Bragg Grating Sensors Market Size by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Fiber Bragg Grating Sensors by Region (2020-2025)
- 8.2 Middle East & Africa Fiber Bragg Grating Sensors Market Size by Type (2020-2025)
- 8.3 Middle East & Africa Fiber Bragg Grating Sensors Market Size by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 GLOBAL FIBER BRAGG GRATING SENSORS MARKET FORECAST

- 10.1 Global Fiber Bragg Grating Sensors Forecast by Region (2026-2031)
 - 10.1.1 Global Fiber Bragg Grating Sensors Forecast by Region (2026-2031)
 - 10.1.2 Americas Fiber Bragg Grating Sensors Forecast
 - 10.1.3 APAC Fiber Bragg Grating Sensors Forecast
 - 10.1.4 Europe Fiber Bragg Grating Sensors Forecast
 - 10.1.5 Middle East & Africa Fiber Bragg Grating Sensors Forecast
- 10.2 Americas Fiber Bragg Grating Sensors Forecast by Country (2026-2031)
 - 10.2.1 United States Market Fiber Bragg Grating Sensors Forecast
 - 10.2.2 Canada Market Fiber Bragg Grating Sensors Forecast
 - 10.2.3 Mexico Market Fiber Bragg Grating Sensors Forecast
 - 10.2.4 Brazil Market Fiber Bragg Grating Sensors Forecast
- 10.3 APAC Fiber Bragg Grating Sensors Forecast by Region (2026-2031)
 - 10.3.1 China Fiber Bragg Grating Sensors Market Forecast
 - 10.3.2 Japan Market Fiber Bragg Grating Sensors Forecast
 - 10.3.3 Korea Market Fiber Bragg Grating Sensors Forecast
 - 10.3.4 Southeast Asia Market Fiber Bragg Grating Sensors Forecast
 - 10.3.5 India Market Fiber Bragg Grating Sensors Forecast
 - 10.3.6 Australia Market Fiber Bragg Grating Sensors Forecast
- 10.4 Europe Fiber Bragg Grating Sensors Forecast by Country (2026-2031)
 - 10.4.1 Germany Market Fiber Bragg Grating Sensors Forecast
 - 10.4.2 France Market Fiber Bragg Grating Sensors Forecast
 - 10.4.3 UK Market Fiber Bragg Grating Sensors Forecast
 - 10.4.4 Italy Market Fiber Bragg Grating Sensors Forecast
 - 10.4.5 Russia Market Fiber Bragg Grating Sensors Forecast
- 10.5 Middle East & Africa Fiber Bragg Grating Sensors Forecast by Region (2026-2031)
 - 10.5.1 Egypt Market Fiber Bragg Grating Sensors Forecast
 - 10.5.2 South Africa Market Fiber Bragg Grating Sensors Forecast
 - 10.5.3 Israel Market Fiber Bragg Grating Sensors Forecast
 - 10.5.4 Turkey Market Fiber Bragg Grating Sensors Forecast
- 10.6 Global Fiber Bragg Grating Sensors Forecast by Type (2026-2031)
- 10.7 Global Fiber Bragg Grating Sensors Forecast by Application (2026-2031)
 - 10.7.1 GCC Countries Market Fiber Bragg Grating Sensors Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 Luna Innovations
 - 11.1.1 Luna Innovations Company Information
 - 11.1.2 Luna Innovations Fiber Bragg Grating Sensors Product Offered

11.1.3 Luna Innovations Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.1.4 Luna Innovations Main Business Overview

11.1.5 Luna Innovations Latest Developments

11.2 Proximion (Hexatronic)

11.2.1 Proximion (Hexatronic) Company Information

11.2.2 Proximion (Hexatronic) Fiber Bragg Grating Sensors Product Offered

11.2.3 Proximion (Hexatronic) Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.2.4 Proximion (Hexatronic) Main Business Overview

11.2.5 Proximion (Hexatronic) Latest Developments

11.3 HBM (HBK)

11.3.1 HBM (HBK) Company Information

11.3.2 HBM (HBK) Fiber Bragg Grating Sensors Product Offered

11.3.3 HBM (HBK) Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.3.4 HBM (HBK) Main Business Overview

11.3.5 HBM (HBK) Latest Developments

11.4 ITF Technologies Inc

11.4.1 ITF Technologies Inc Company Information

11.4.2 ITF Technologies Inc Fiber Bragg Grating Sensors Product Offered

11.4.3 ITF Technologies Inc Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.4.4 ITF Technologies Inc Main Business Overview

11.4.5 ITF Technologies Inc Latest Developments

11.5 FBGS Technologies GmbH

11.5.1 FBGS Technologies GmbH Company Information

11.5.2 FBGS Technologies GmbH Fiber Bragg Grating Sensors Product Offered

11.5.3 FBGS Technologies GmbH Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.5.4 FBGS Technologies GmbH Main Business Overview

11.5.5 FBGS Technologies GmbH Latest Developments

11.6 Technica

11.6.1 Technica Company Information

11.6.2 Technica Fiber Bragg Grating Sensors Product Offered

11.6.3 Technica Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.6.4 Technica Main Business Overview

11.6.5 Technica Latest Developments

11.7 Smart Fibres Limited

11.7.1 Smart Fibres Limited Company Information

11.7.2 Smart Fibres Limited Fiber Bragg Grating Sensors Product Offered

11.7.3 Smart Fibres Limited Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.7.4 Smart Fibres Limited Main Business Overview

11.7.5 Smart Fibres Limited Latest Developments

11.8 Optromix, Inc.

11.8.1 Optromix, Inc. Company Information

11.8.2 Optromix, Inc. Fiber Bragg Grating Sensors Product Offered

11.8.3 Optromix, Inc. Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.8.4 Optromix, Inc. Main Business Overview

11.8.5 Optromix, Inc. Latest Developments

11.9 Wuhan Ligong Guangke

11.9.1 Wuhan Ligong Guangke Company Information

11.9.2 Wuhan Ligong Guangke Fiber Bragg Grating Sensors Product Offered

11.9.3 Wuhan Ligong Guangke Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.9.4 Wuhan Ligong Guangke Main Business Overview

11.9.5 Wuhan Ligong Guangke Latest Developments

11.10 FBG Korea

11.10.1 FBG Korea Company Information

11.10.2 FBG Korea Fiber Bragg Grating Sensors Product Offered

11.10.3 FBG Korea Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.10.4 FBG Korea Main Business Overview

11.10.5 FBG Korea Latest Developments

11.11 Smartec (Roctest)

11.11.1 Smartec (Roctest) Company Information

11.11.2 Smartec (Roctest) Fiber Bragg Grating Sensors Product Offered

11.11.3 Smartec (Roctest) Fiber Bragg Grating Sensors Revenue, Gross Margin and Market Share (2020-2025)

11.11.4 Smartec (Roctest) Main Business Overview

11.11.5 Smartec (Roctest) Latest Developments

11.12 Timbercon (Radiall)

11.12.1 Timbercon (Radiall) Company Information

11.12.2 Timbercon (Radiall) Fiber Bragg Grating Sensors Product Offered

11.12.3 Timbercon (Radiall) Fiber Bragg Grating Sensors Revenue, Gross Margin and

Market Share (2020-2025)

11.12.4 Timbercon (Radiall) Main Business Overview

11.12.5 Timbercon (Radiall) Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

LIST OF TABLES

Table 1. Fiber Bragg Grating Sensors Market Size CAGR by Region (2020 VS 2024 VS 2031) & (\$ millions)

Table 2. Fiber Bragg Grating Sensors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Temperature Sensors

Table 4. Major Players of Strain Sensors

Table 5. Major Players of Others

Table 6. Fiber Bragg Grating Sensors Market Size CAGR by Type (2020 VS 2024 VS 2031) & (\$ millions)

Table 7. Global Fiber Bragg Grating Sensors Market Size by Type (2020-2025) & (\$ millions)

Table 8. Global Fiber Bragg Grating Sensors Market Size Market Share by Type (2020-2025)

Table 9. Fiber Bragg Grating Sensors Market Size CAGR by Application (2020 VS 2024 VS 2031) & (\$ millions)

Table 10. Global Fiber Bragg Grating Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 11. Global Fiber Bragg Grating Sensors Market Size Market Share by Application (2020-2025)

Table 12. Global Fiber Bragg Grating Sensors Revenue by Player (2020-2025) & (\$ millions)

Table 13. Global Fiber Bragg Grating Sensors Revenue Market Share by Player (2020-2025)

Table 14. Fiber Bragg Grating Sensors Key Players Head office and Products Offered

Table 15. Fiber Bragg Grating Sensors Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 16. New Products and Potential Entrants

Table 17. Mergers & Acquisitions, Expansion

Table 18. Global Fiber Bragg Grating Sensors Market Size by Region (2020-2025) & (\$ millions)

Table 19. GlobalFiber Bragg Grating Sensors Market Size Market Share by Region (2020-2025)

Table 20. GlobalFiber Bragg Grating Sensors Revenue by Country/Region (2020-2025) & (\$ millions)

Table 21. GlobalFiber Bragg Grating Sensors Revenue Market Share by Country/Region (2020-2025)

Table 22. AmericasFiber Bragg Grating Sensors Market Size by Country (2020-2025) & (\$ millions)

Table 23. AmericasFiber Bragg Grating Sensors Market Size Market Share by Country (2020-2025)

Table 24. AmericasFiber Bragg Grating Sensors Market Size byType (2020-2025) & (\$ millions)

Table 25. AmericasFiber Bragg Grating Sensors Market Size Market Share byType (2020-2025)

Table 26. AmericasFiber Bragg Grating Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 27. AmericasFiber Bragg Grating Sensors Market Size Market Share by Application (2020-2025)

Table 28. APACFiber Bragg Grating Sensors Market Size by Region (2020-2025) & (\$ millions)

Table 29. APACFiber Bragg Grating Sensors Market Size Market Share by Region (2020-2025)

Table 30. APACFiber Bragg Grating Sensors Market Size byType (2020-2025) & (\$ millions)

Table 31. APACFiber Bragg Grating Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 32. EuropeFiber Bragg Grating Sensors Market Size by Country (2020-2025) & (\$ millions)

Table 33. EuropeFiber Bragg Grating Sensors Market Size Market Share by Country (2020-2025)

Table 34. EuropeFiber Bragg Grating Sensors Market Size byType (2020-2025) & (\$ millions)

Table 35. EuropeFiber Bragg Grating Sensors Market Size by Application (2020-2025) & (\$ millions)

Table 36. Middle East & AfricaFiber Bragg Grating Sensors Market Size by Region (2020-2025) & (\$ millions)

Table 37. Middle East & AfricaFiber Bragg Grating Sensors Market Size byType (2020-2025) & (\$ millions)

Table 38. Middle East & AfricaFiber Bragg Grating Sensors Market Size by Application

(2020-2025) & (\$ millions)

Table 39. Key Market Drivers & Growth Opportunities of Fiber Bragg Grating Sensors

Table 40. Key Market Challenges & Risks of Fiber Bragg Grating Sensors

Table 41. Key Industry Trends of Fiber Bragg Grating Sensors

Table 42. Global Fiber Bragg Grating Sensors Market Size Forecast by Region

(2026-2031) & (\$ millions)

Table 43. Global Fiber Bragg Grating Sensors Market Size Market Share Forecast by Region (2026-2031)

Table 44. Global Fiber Bragg Grating Sensors Market Size Forecast by Type (2026-2031) & (\$ millions)

Table 45. Global Fiber Bragg Grating Sensors Market Size Forecast by Application (2026-2031) & (\$ millions)

Table 46. Luna Innovations Details, Company Type, Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 47. Luna Innovations Fiber Bragg Grating Sensors Product Offered

Table 48. Luna Innovations Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 49. Luna Innovations Main Business

Table 50. Luna Innovations Latest Developments

Table 51. Proximion (Hexatronic) Details, Company Type, Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 52. Proximion (Hexatronic) Fiber Bragg Grating Sensors Product Offered

Table 53. Proximion (Hexatronic) Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 54. Proximion (Hexatronic) Main Business

Table 55. Proximion (Hexatronic) Latest Developments

Table 56. HBM (HBK) Details, Company Type, Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 57. HBM (HBK) Fiber Bragg Grating Sensors Product Offered

Table 58. HBM (HBK) Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 59. HBM (HBK) Main Business

Table 60. HBM (HBK) Latest Developments

Table 61. ITF Technologies Inc Details, Company Type, Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 62. ITF Technologies Inc Fiber Bragg Grating Sensors Product Offered

Table 63. ITF Technologies Inc Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 64. ITF Technologies Inc Main Business

Table 65. ITFTechnologies Inc Latest Developments

Table 66.FBGSTechnologies GmbH Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 67.FBGSTechnologies GmbHFiber Bragg Grating Sensors Product Offered

Table 68.FBGSTechnologies GmbHFiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 69.FBGSTechnologies GmbH Main Business

Table 70.FBGSTechnologies GmbH Latest Developments

Table 71.Technica Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 72.TechnicaFiber Bragg Grating Sensors Product Offered

Table 73.TechnicaFiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 74.Technica Main Business

Table 75.Technica Latest Developments

Table 76. SmartFibres Limited Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 77. SmartFibres LimitedFiber Bragg Grating Sensors Product Offered

Table 78. SmartFibres LimitedFiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 79. SmartFibres Limited Main Business

Table 80. SmartFibres Limited Latest Developments

Table 81. Optromix, Inc. Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 82. Optromix, Inc.Fiber Bragg Grating Sensors Product Offered

Table 83. Optromix, Inc.Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 84. Optromix, Inc. Main Business

Table 85. Optromix, Inc. Latest Developments

Table 86. Wuhan Ligong Guangke Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 87. Wuhan Ligong GuangkeFiber Bragg Grating Sensors Product Offered

Table 88. Wuhan Ligong GuangkeFiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 89. Wuhan Ligong Guangke Main Business

Table 90. Wuhan Ligong Guangke Latest Developments

Table 91.FBG Korea Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 92.FBG KoreaFiber Bragg Grating Sensors Product Offered

Table 93.FBG KoreaFiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 94.FBG Korea Main Business

Table 95.FBG Korea Latest Developments

Table 96. Smartec (Roctest) Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 97. Smartec (Roctest)Fiber Bragg Grating Sensors Product Offered

Table 98. Smartec (Roctest)Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 99. Smartec (Roctest) Main Business

Table 100. Smartec (Roctest) Latest Developments

Table 101.Timbercon (Radiall) Details, CompanyType,Fiber Bragg Grating Sensors Area Served and Its Competitors

Table 102.Timbercon (Radiall)Fiber Bragg Grating Sensors Product Offered

Table 103.Timbercon (Radiall)Fiber Bragg Grating Sensors Revenue (\$ million), Gross Margin and Market Share (2020-2025)

Table 104.Timbercon (Radiall) Main Business

Table 105.Timbercon (Radiall) Latest Developments

LIST OFFIGURES

Figure 1.Fiber Bragg Grating Sensors Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. GlobalFiber Bragg Grating Sensors Market Size Growth Rate (2020-2031) (\$ millions)

Figure 6.Fiber Bragg Grating Sensors Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Figure 7.Fiber Bragg Grating Sensors Sales Market Share by Country/Region (2024)

Figure 8.Fiber Bragg Grating Sensors Sales Market Share by Country/Region (2020, 2024 & 2031)

Figure 9. GlobalFiber Bragg Grating Sensors Market Size Market Share byType in 2024

Figure 10.Fiber Bragg Grating Sensors in Oil & Gas

Figure 11. GlobalFiber Bragg Grating Sensors Market: Oil & Gas (2020-2025) & (\$ millions)

Figure 12.Fiber Bragg Grating Sensors in Aerospace & Defense

Figure 13. GlobalFiber Bragg Grating Sensors Market: Aerospace & Defense (2020-2025) & (\$ millions)

Figure 14.Fiber Bragg Grating Sensors in Power Industry

Figure 15. GlobalFiber Bragg Grating Sensors Market: Power Industry (2020-2025) & (\$ millions)

Figure 16.Fiber Bragg Grating Sensors in Architecture Industry

Figure 17. GlobalFiber Bragg Grating Sensors Market: Architecture Industry (2020-2025) & (\$ millions)

Figure 18.Fiber Bragg Grating Sensors in Others

Figure 19. GlobalFiber Bragg Grating Sensors Market: Others (2020-2025) & (\$ millions)

Figure 20. GlobalFiber Bragg Grating Sensors Market Size Market Share by Application in 2024

Figure 21. GlobalFiber Bragg Grating Sensors Revenue Market Share by Player in 2024

Figure 22. GlobalFiber Bragg Grating Sensors Market Size Market Share by Region (2020-2025)

Figure 23. AmericasFiber Bragg Grating Sensors Market Size 2020-2025 (\$ millions)

Figure 24. APACFiber Bragg Grating Sensors Market Size 2020-2025 (\$ millions)

Figure 25. EuropeFiber Bragg Grating Sensors Market Size 2020-2025 (\$ millions)

Figure 26. Middle East & AfricaFiber Bragg Grating Sensors Market Size 2020-2025 (\$ millions)

Figure 27. AmericasFiber Bragg Grating Sensors Value Market Share by Country in 2024

Figure 28. United StatesFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 29. CanadaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 30. MexicoFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 31. BrazilFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 32. APACFiber Bragg Grating Sensors Market Size Market Share by Region in 2024

Figure 33. APACFiber Bragg Grating Sensors Market Size Market Share byType (2020-2025)

Figure 34. APACFiber Bragg Grating Sensors Market Size Market Share by Application (2020-2025)

Figure 35. ChinaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 36. JapanFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 37. South KoreaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 38. Southeast AsiaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 39. IndiaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 40. AustraliaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 41. EuropeFiber Bragg Grating Sensors Market Size Market Share by Country in 2024

Figure 42. EuropeFiber Bragg Grating Sensors Market Size Market Share byType (2020-2025)

Figure 43. EuropeFiber Bragg Grating Sensors Market Size Market Share by Application (2020-2025)

Figure 44. GermanyFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 45. FranceFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 46. UKFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 47. ItalyFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 48. RussiaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 49. Middle East & AfricaFiber Bragg Grating Sensors Market Size Market Share by Region (2020-2025)

Figure 50. Middle East & AfricaFiber Bragg Grating Sensors Market Size Market Share byType (2020-2025)

Figure 51. Middle East & AfricaFiber Bragg Grating Sensors Market Size Market Share by Application (2020-2025)

Figure 52. EgyptFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 53. South AfricaFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 54. IsraelFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 55. TurkeyFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 56. GCC CountriesFiber Bragg Grating Sensors Market Size Growth 2020-2025 (\$ millions)

Figure 57. AmericasFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 58. APACFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 59. EuropeFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 60. Middle East & AfricaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 61. United StatesFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 62. CanadaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 63. MexicoFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 64. BrazilFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 65. ChinaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 66. JapanFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 67. KoreaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 68. Southeast AsiaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 69. IndiaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 70. AustraliaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 71. GermanyFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 72. FranceFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 73. UKFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 74. ItalyFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 75. RussiaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 76. EgyptFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 77. South AfricaFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 78. IsraelFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 79. TurkeyFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

Figure 80. GlobalFiber Bragg Grating Sensors Market Size Market ShareForecast byType (2026-2031)

Figure 81. GlobalFiber Bragg Grating Sensors Market Size Market ShareForecast by Application (2026-2031)

Figure 82. GCC CountriesFiber Bragg Grating Sensors Market Size 2026-2031 (\$ millions)

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