

# Global Fiber Bragg Grating (FBG) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Fiber Bragg Grating (FBG) market size is expected to reach \$ 1724 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and transmits all others. This is achieved by adding a periodic variation to the refractive index of the fiber core, which generates a wavelength specific dielectric mirror. An FBG is an invisible reflector inside the core of the fiber that is set to a specific wavelength of light. When the fiber where the FBG is located is exposed to strain or temperature, the FBG's "center wavelength" shifts to a higher or lower wavelength. The direction and magnitude of the shift is proportional to the change in strain or temperature. A fiber Bragg grating can therefore be used as an inline optical filter to block certain wavelengths, or as a wavelength-specific reflector. Fiber Bragg Gratings are made by laterally exposing the core of a single-mode fiber to a periodic pattern of intense ultraviolet light. The exposure produces a permanent increase in the refractive index of the fiber's core, creating a fixed index modulation according to the exposure pattern. This fixed index modulation is called a grating. At each periodic refraction change a small amount of light is reflected. All the reflected light signals combine coherently to one large reflection at a particular wavelength when the grating period is approximately half the input light's wavelength. This is referred to as the Bragg condition, and the wavelength at which this reflection occurs is called the Bragg wavelength. In a FBG, the refractive index of the core is periodically modulated along the fiber's main axis. The period of the modulation ranges typically from a few hundred nanometers to a few microns. When light is launched into a FBG, it experiences a certain amount of scattering at each grating plane. Most of the scattered light becomes more and more out-of-phase and eventually decays due to

deconstructive interference. If the Bragg condition is satisfied for one of the colors of the input light, then a sharp reflected peak is observed in the backward direction with a center wavelength determined by the grating's parameters.

The key players of Fiber Bragg Grating (FBG) include Luna Innovations, Proximion AB, HBK FiberSensing and ITF Technologies. The top four manufacturers hold approximately 31% of the global market share,.

In terms of product type, Fiber Bragg Grating Sensors is the largest segment, with a share of 75%. And in terms of application, Geo-Technical & Civil Engineering has a share about 23 percent.

This report studies the global Fiber Bragg Grating (FBG) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fiber Bragg Grating (FBG) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fiber Bragg Grating (FBG) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Fiber Bragg Grating (FBG) total production and demand, 2021-2032, (K Units)

Global Fiber Bragg Grating (FBG) total production value, 2021-2032, (USD Million)

Global Fiber Bragg Grating (FBG) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fiber Bragg Grating (FBG) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fiber Bragg Grating (FBG) domestic production, consumption, key domestic manufacturers and share

Global Fiber Bragg Grating (FBG) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fiber Bragg Grating (FBG) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fiber Bragg Grating (FBG) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fiber Bragg Grating (FBG) market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Luna Innovations, Proximion AB, HBK FiberSensing, ITF Technologies, FBGS Technologies GmbH, Technica, INFIBRA TECHNOLOGIES, Smart Fibres Ltd (Halliburton), PolyTech, Advanced Optics Solutions GmbH, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fiber Bragg Grating (FBG) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fiber Bragg Grating (FBG) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Fiber Bragg Grating (FBG) Market, Segmentation by Type:

Fiber Bragg Grating Filter

Fiber Bragg Grating Sensors

Other

## Global Fiber Bragg Grating (FBG) Market, Segmentation by Application:

Optical Communication

Aerospace

Energy Industry

Transportation Field

Geotechnical and Civil Engineering

Other

## Companies Profiled:

Luna Innovations

Proximion AB

HBK FiberSensing

ITF Technologies

FBGS Technologies GmbH

Technica

INFIBRA TECHNOLOGIES

Smart Fibres Ltd (Halliburton)

PolyTech

Advanced Optics Solutions GmbH

WUHAN LIGONG GUANGKE

TeraXion?INDI?

FBG Korea

Smartec (Roctest)

Alnair Labs Corporation

**Key Questions Answered:**

1. How big is the global Fiber Bragg Grating (FBG) market?
2. What is the demand of the global Fiber Bragg Grating (FBG) market?
3. What is the year over year growth of the global Fiber Bragg Grating (FBG) market?
4. What is the production and production value of the global Fiber Bragg Grating (FBG) market?
5. Who are the key producers in the global Fiber Bragg Grating (FBG) market?
6. What are the growth factors driving the market demand?

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