

# Global Image Fiber Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Image Fiber market size is expected to reach \$ 439 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Image transmission fiber is an imaging fiber material formed by fusion molding a large number of highly uniform microfibers arranged in fixed relative positions. It is used to achieve optical image transmission without relying on electronic sensors and maintains spatial pixel correspondence under bending or long-distance conditions. It is widely used in medical endoscopes, industrial endoscopic inspection, aerospace structural inspection, nuclear industry radiation environment monitoring, military reconnaissance, and scientific research optical imaging. In 2025, global sales of image transmission fiber were approximately 7.2 million meters, with an average unit price of approximately US\$34 per meter and a capacity utilization rate of approximately 78%. The upstream mainly consists of high-purity quartz glass and preforms, drawing and annealing coating materials, precision grinding and polishing consumables, sheathing and structural packaging materials, as well as suppliers of microstructure inspection equipment and tooling fixtures. The downstream includes endoscope manufacturers and module manufacturers, industrial endoscopic and non-destructive testing equipment manufacturers, aerospace and military equipment companies, nuclear power and radiation detection system integrators, and optical instrument and scientific research equipment manufacturers. The industry's gross profit margin is approximately 41%. In the product cost structure, quartz preforms and glass materials account for approximately 28%, optical fiber drawing and annealing processes account for approximately 18%, imaging bundle alignment and fusion molding account for approximately 16%, end face grinding and polishing account for approximately 10%, sheathing and structural packaging account for approximately 8%, testing and yield losses account for approximately 7%, R&D and process platform amortization account

for approximately 6%, and logistics, management, and sales expenses account for approximately 7%. The demand list mainly includes medical endoscope imaging, industrial endoscopy and pipeline inspection, aerospace engine and structural inspection, nuclear power equipment inspection, military and aerospace optical imaging systems, and scientific research optical imaging and experimental platforms. The downstream customer list includes endoscope manufacturers and core component suppliers, industrial testing equipment manufacturers, aerospace and military units, nuclear power operators and testing institutions, and optical instrument and research institutions. Business opportunities arise from the increasing demand for in-service testing in minimally invasive medical and industrial applications, the increased inspection frequency due to aging infrastructure and critical equipment, advancements in high radiation resistance and high fiber core density manufacturing processes, and changing consumer demands for higher resolution, smaller diameter, greater flexibility, and higher reliability.

This report studies the global Image Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Image Fiber 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 Image Fiber that contribute to its increasing demand across many markets.

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

Global Image Fiber total production and demand, 2021-2032, (K Meter)

Global Image Fiber total production value, 2021-2032, (USD Million)

Global Image Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Image Fiber consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Image Fiber domestic production, consumption, key domestic manufacturers and share

Global Image Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Image Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Image Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Image Fiber 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 Sumita Optical Glass, Inc., SCHOTT, Fujikura, Asahi Kasei, YOFC, Guangzhou HONSUN Opto-electronic, Bomintech, Dongguan KINZ Optoelectric Technology, 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 Image Fiber market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) 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 Image Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Image Fiber Market, Segmentation by Type:

Single-Branch Imaging Fiber

Multi-Branch Imaging Fiber

### Global Image Fiber Market, Segmentation by Radiation-Resistant:

Standard Imaging Fiber

Radiation-Resistant Imaging Fiber

### Global Image Fiber Market, Segmentation by Core Count:

Core Count: Below 10,000

Core Count: 10,000-30,000

Core Count: Above 30,000

### Global Image Fiber Market, Segmentation by Application:

Optical Communication And Data Center

Industrial

Medical

Military

Other

### Companies Profiled:

Sumita Optical Glass, Inc.

SCHOTT

Fujikura

Asahi Kasei

YOFC

Guangzhou HONSUN Opto-electronic

Bomintech

Dongguan KINZ Optoelectric Technology

**Key Questions Answered:**

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

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