

# Global Holey Fiber (Photonic Crystal Fiber) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Holey Fiber (Photonic Crystal Fiber) market size was valued at US\$ 36.36 million in 2025 and is forecast to a readjusted size of US\$ 67.06 million by 2032 with a CAGR of 9.4% during review period.

In 2025, global production of porous fiber (photonic crystal fiber) reached 84,341 meters, with an average selling price of \$419 per meter. Porous fiber (photonic crystal fiber) is a type of fiber in which regular micropores/microstructures (often honeycomb-shaped air hole arrays) are introduced into the fiber cladding to control light guiding properties 'by structure rather than chemical doping.' By changing the aperture, spacing, number of loops, and geometry, key indicators such as dispersion, mode field, nonlinearity, birefringence, and loss can be made into 'designable parameters.' Its main characteristic is the regular arrangement of two-dimensional through-holes or doped regions along the fiber length on a pure silica substrate. It features single-mode transmission, nonlinear effects, dispersion characteristics, air-core transmission, low loss, and high power carrying capacity, making it widely used in optical communication, fiber optic sensing, laser processing, and nonlinear optics. The upstream raw materials include glass substrates/preform components, doping and material modification, coating and protective materials, process gases and consumables, etc. The mainstream manufacturing process is 'preform-drawing,' most typically stack-and-draw, which requires a large number of quartz capillaries and glass rods/support tubes to be stacked into preforms before drawing. The midstream involves the design and production of various photonic crystal fibers, which is the core technology, including structural design ? preform assembly ? fiber drawing ? coating ? testing and grading ? secondary processing/cabbing/module assembly. Downstream applications include laser

transmission, fiber optic sensing, and optical communication. The gross profit margin for manufacturing companies is approximately 25%–55%.

Regionally, the Chinese market has seen rapid growth in recent years. In 2025, the market size was US\$13.16 million, accounting for approximately 37.24% of the global market, and is projected to reach US\$24.8228 million by 2032, at which point its share of the global market will reach 37.62%. From a competitive landscape perspective, major international players include NKT Photonics, Yangtze Optical Fibre and Cable (YOFC), GLOphotonics, Changyingtong, fiberware GmbH, and Anyang Laser. NKT's products cover multiple product lines, including nonlinear PCF, ytterbium-doped gain PCF, and hollow-core fiber, demonstrating its deep strategic layout in high-performance optical fibers at both the device and system levels. YOFC explicitly defines PCF as 'microstructure/porous fiber' and offers various product series based on light guiding mechanisms and applications, supporting its adoption in laser, sensing, and specialized communication scenarios in China. On the production side, Europe and China are two important production regions, accounting for 27.46% and 37.24% of the market share respectively in 2025. This is due to Europe's long-term accumulation in specialty optical fibers and precision manufacturing, as well as China's complete supply chain from preform to drawing to cabling/engineering delivery, and the influence of local customers. Especially in novel microstructure optical fibers such as hollow-core/anti-resonant fibers, leading global cloud and telecom operators are placing 'manufacturability and scalable delivery' on an equal footing with performance. In terms of product type, solid-core photonic crystal fiber (microstructure fiber) holds a significant position, with a market size of US\$28.9631 million in 2025, accounting for approximately 81.96% of the global market. This share is projected to reach 71.36% by 2032. Looking ahead, the demand for porous fiber (photonic crystal fiber) will extend from 'research and small-batch devices' to 'engineering and large-scale deployment (especially hollow-core communication/data center interconnects).' Competition on the supply side will expand from single-point performance to 'manufacturability, yield, batch consistency, delivery, and change management.' Leading manufacturers will further strengthen their barriers through platform-based products and system-level collaborations. In terms of product structure, solid-core PCF will continue to support high-value-added applications such as lasers and sensing, while hollow-core/new microstructures will accelerate their penetration in low-latency networks and next-generation optical transmission. Both will jointly drive the industry into a new round of rebalancing in terms of scale, concentration, and application structure.

This report is a detailed and comprehensive analysis for global Holey Fiber (Photonic Crystal Fiber) 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.

### **Key Features:**

Global Holey Fiber (Photonic Crystal Fiber) market size and forecasts, in consumption value (\$ Million), sales quantity (Meter), and average selling prices (US\$/Meter), 2021-2032

Global Holey Fiber (Photonic Crystal Fiber) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Meter), and average selling prices (US\$/Meter), 2021-2032

Global Holey Fiber (Photonic Crystal Fiber) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Meter), and average selling prices (US\$/Meter), 2021-2032

Global Holey Fiber (Photonic Crystal Fiber) market shares of main players, shipments in revenue (\$ Million), sales quantity (Meter), and ASP (US\$/Meter), 2021-2026

### **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 Holey Fiber (Photonic Crystal Fiber)
- 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 Holey Fiber (Photonic Crystal Fiber) 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 NKT Photonics, YOFC, GLOphotonics, Yangtze Optical Electronic, fiberware GmbH, YSL Photonics, FORC-Photonics, etc.

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

## Market Segmentation

Holey Fiber (Photonic Crystal Fiber) market is split by Type and by Application. For the period 2021-2032, 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

Solid Core

Hollow Core

### Market segment by Principle

Total Internal Reflection Type

Photonic Bandgap Type

### Market segment by Sales Channel

Direct Sales

Distribution

### Market segment by Application

Laser Transmission

Fiber Optic Sensing

Optical Communication

Others

## Major players covered

NKT Photonics

YOFC

GLOphotonics

Yangtze Optical Electronic

fiberware GmbH

YSL Photonics

FORC-Photonics

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 Holey Fiber (Photonic Crystal Fiber) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Holey Fiber (Photonic Crystal Fiber), with price, sales quantity, revenue, and global market share of Holey Fiber (Photonic Crystal Fiber) from 2021 to 2026.

Chapter 3, the Holey Fiber (Photonic Crystal Fiber) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Holey Fiber (Photonic Crystal Fiber) breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Holey Fiber (Photonic Crystal Fiber) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Holey Fiber (Photonic Crystal Fiber).

Chapter 14 and 15, to describe Holey Fiber (Photonic Crystal Fiber) sales channel, distributors, customers, research findings and conclusion.

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