

# Global Hollow Photonic Crystal Fiber Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Hollow Photonic Crystal Fiber market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Hollow photonic crystal fiber is a special fiber structure with a hollow core region composed of periodic pore structures. The characteristic of this type of optical fiber is that it does not contain substantial photoconductive materials in the core area, but rather achieves light transmission through periodically arranged air channels. The main characteristics and advantages of hollow photonic crystal fibers are as follows: low optical loss: due to the lack of substantial materials in the core region, light transmission in hollow photonic crystal fibers hardly undergoes absorption and scattering, thus achieving low optical loss transmission. Large mode area: The core area of the hollow photonic crystal fiber is hollow, allowing the beam to propagate over a large area. This is very beneficial for transmitting high-power light and achieving low nonlinear effects. Good beam quality: The design of hollow photonic crystal fibers can achieve quasi single mode transmission, thereby maintaining high beam focus and good beam quality. High non-linear effect: Due to the interaction between light and substances in the air, mid space photonic crystal fibers can have high non-linear coefficients and are suitable for applications such as frequency conversion of light, ultrafast light modulation, and optical clock. Low dispersion characteristics: The dispersion characteristics of mid space photonic crystal fibers can be designed and optimized by adjusting the pore structure to achieve the required dispersion characteristics, such as zero dispersion, positive dispersion, or negative dispersion. Hollow photonic crystal fibers have wide applications in fields such as laser science, optical transmission, spectral analysis, fiber sensing, and optical communication. They can be used for laser beam transmission, high-power lasers, supercontinuum spectrum generation, gas sensing, fiber lasers, and other applications to meet the needs of different fields.

This report studies the global Hollow Photonic Crystal Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hollow Photonic Crystal Fiber, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hollow Photonic Crystal Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hollow Photonic Crystal Fiber total production and demand, 2018-2029, (K Units)

Global Hollow Photonic Crystal Fiber total production value, 2018-2029, (USD Million)

Global Hollow Photonic Crystal Fiber production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Hollow Photonic Crystal Fiber consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Hollow Photonic Crystal Fiber domestic production, consumption, key domestic manufacturers and share

Global Hollow Photonic Crystal Fiber production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Hollow Photonic Crystal Fiber production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Hollow Photonic Crystal Fiber production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Hollow Photonic Crystal 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 Corning Incorporated, Sumitomo

Electric Industries, Ltd., NKT Photonics, Crystal Fibre A/S, Fujikura Ltd., Thorlabs, Fibercore, Lumenisity Ltd. and Structured Materials Industries, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hollow Photonic Crystal Fiber 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

#### Global Hollow Photonic Crystal Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Hollow Photonic Crystal Fiber Market, Segmentation by Type

Single Mode Hollow Photonic Crystal Fiber

## Multimode Hollow Photonic Crystal Fiber

### Global Hollow Photonic Crystal Fiber Market, Segmentation by Application

Optical Communication

Light Sensor

Optical Imaging

Spectral Analysis

Others

### Companies Profiled:

Corning Incorporated

Sumitomo Electric Industries, Ltd.

NKT Photonics

Crystal Fibre A/S

Fujikura Ltd.

Thorlabs

Fibercore

Lumenisity Ltd.

Structured Materials Industries, Inc.

GLOphotonics SAS

NANOLANDmaterials, Inc.

Fiberguide Industries

Photonic Products Group, Inc.

Femtum

MKS/Newport

### Key Questions Answered

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

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