

Global Holey Fiber (HF) 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 (HF) market size was valued at US\$ 259 million in 2025 and is forecast to a readjusted size of US\$ 395 million by 2032 with a CAGR of 6.3% during review period.

In 2025, global production of Holey Fiber (HF) reached 617 kilometers, with an average selling price of \$408 per meter. Porous fiber is a type of fiber in which regular micropores/microstructures (often honeycomb-like 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 on a pure quartz substrate along the fiber's length. It features single-mode transmission, nonlinear effects, dispersion characteristics, air-core transmission, low loss, and high power handling, making it widely used in optical communication, fiber optic sensing, laser processing, and nonlinear optics. The upstream includes high-purity quartz and doped materials, preform preparation and "stacking-firing/microstructure forming" equipment and processes, and precision testing (geometry and loss/dispersion); the midstream consists of fiber optic manufacturers; and the downstream comprises laser manufacturers, research institutions, and high-end industrial/defense/communication and sensing system integrators. The industry's gross profit margin is in the range of 40-50%.

This report is a detailed and comprehensive analysis for global Holey Fiber (HF) 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 (HF) market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

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

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

Global Holey Fiber (HF) market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 (HF)

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 (HF) 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, Guiding Photonics, OFS, Laser Components, Newport Corporation, G&H, Thorlabs, Fibercore, GLOphotonics, fiberware GmbH, etc.

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

Market Segmentation

Holey Fiber (HF) 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

- Total Internal Reflection Type

- Photonic Bandgap Type

Market segment by Function

- Nonlinear/Supercontinuum

- Polarization Preservation

- Air Core

Market segment by Application

- Optical Communication

- Laser Processing

- Nonlinear Optics

- Others

Major players covered

- NKT Photonics

- Guiding Photonics

OFS

Laser Components

Newport Corporation

G&H

Thorlabs

Fibercore

GLOphotonics

fiberware GmbH

Sch?fter + Kirchhoff GmbH

Yangtze Optical Fibre And Cable Joint

Shanghai Precilasers Technology

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 (HF) product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Holey Fiber (HF) 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 (HF) 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 (HF).

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

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