

Global Holey Fiber (Photonic Crystal Fiber) Market Growth 2026-2032

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Abstracts

The global Holey Fiber (Photonic Crystal Fiber) market size is predicted to grow from US\$ 246 million in 2025 to US\$ 384 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 2032.

In 2025, global production of Holey Fiber (Photonic Crystal Fiber) reached 617 kilometers, with an average selling price of \$408 per meter. Holey Fiber, also known as 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 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%.

United States market for Holey Fiber (Photonic Crystal Fiber) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

China market for Holey Fiber (Photonic Crystal Fiber) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Holey Fiber (Photonic Crystal Fiber) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Holey Fiber (Photonic Crystal Fiber) players cover NKT Photonics, Guiding Photonics, OFS, Laser Components, Newport Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Holey Fiber (Photonic Crystal Fiber) Industry Forecast" looks at past sales and reviews total world Holey Fiber (Photonic Crystal Fiber) sales in 2025, providing a comprehensive analysis by region and market sector of projected Holey Fiber (Photonic Crystal Fiber) sales for 2026 through 2032. With Holey Fiber (Photonic Crystal Fiber) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Holey Fiber (Photonic Crystal Fiber) industry.

This Insight Report provides a comprehensive analysis of the global Holey Fiber (Photonic Crystal Fiber) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Holey Fiber (Photonic Crystal Fiber) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Holey Fiber (Photonic Crystal Fiber) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Holey Fiber (Photonic Crystal Fiber) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Holey Fiber (Photonic Crystal Fiber).

This report presents a comprehensive overview, market shares, and growth opportunities of Holey Fiber (Photonic Crystal Fiber) market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

Total Internal Reflection Type

Photonic Bandgap Type

Segmentation by Function:

Nonlinear/Supercontinuum

Polarization Preservation

Air Core

Segmentation by Application:

Optical Communication

Laser Processing

Nonlinear Optics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Holey Fiber (Photonic Crystal Fiber) market?

What factors are driving Holey Fiber (Photonic Crystal Fiber) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Holey Fiber (Photonic Crystal Fiber) market opportunities vary by end market

size?

How does Holey Fiber (Photonic Crystal Fiber) break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Holey Fiber (Photonic Crystal Fiber) Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Holey Fiber (Photonic Crystal Fiber) by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Holey Fiber (Photonic Crystal Fiber) by Country/Region, 2021, 2025 & 2032

2.2 Holey Fiber (Photonic Crystal Fiber) Segment by Type

- 2.2.1 Total Internal Reflection Type
- 2.2.2 Photonic Bandgap Type
- 2.2.3 Holey Fiber (Photonic Crystal Fiber) Sales by Type
 - 2.2.3.1 Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Holey Fiber (Photonic Crystal Fiber) Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Type (2021-2026)

2.3 Holey Fiber (Photonic Crystal Fiber) Segment by Function

- 2.3.1 Nonlinear/Supercontinuum
- 2.3.2 Polarization Preservation
- 2.3.3 Air Core
- 2.3.4 Holey Fiber (Photonic Crystal Fiber) Sales by Function
 - 2.3.4.1 Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Function (2021-2026)
 - 2.3.4.2 Global Holey Fiber (Photonic Crystal Fiber) Revenue and Market Share by Function (2021-2026)

- 2.3.4.3 Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Function (2021-2026)
- 2.4 Holey Fiber (Photonic Crystal Fiber) Segment by Application
 - 2.4.1 Optical Communication
 - 2.4.2 Laser Processing
 - 2.4.3 Nonlinear Optics
 - 2.4.4 Others
 - 2.4.5 Holey Fiber (Photonic Crystal Fiber) Sales by Application
 - 2.4.5.1 Global Holey Fiber (Photonic Crystal Fiber) Sale Market Share by Application (2021-2026)
 - 2.4.5.2 Global Holey Fiber (Photonic Crystal Fiber) Revenue and Market Share by Application (2021-2026)
 - 2.4.5.3 Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Holey Fiber (Photonic Crystal Fiber) Breakdown Data by Company
 - 3.1.1 Global Holey Fiber (Photonic Crystal Fiber) Annual Sales by Company (2021-2026)
 - 3.1.2 Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Company (2021-2026)
- 3.2 Global Holey Fiber (Photonic Crystal Fiber) Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Holey Fiber (Photonic Crystal Fiber) Revenue by Company (2021-2026)
 - 3.2.2 Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Company (2021-2026)
- 3.3 Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Company
- 3.4 Key Manufacturers Holey Fiber (Photonic Crystal Fiber) Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Holey Fiber (Photonic Crystal Fiber) Product Location Distribution
 - 3.4.2 Players Holey Fiber (Photonic Crystal Fiber) Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HOLEY FIBER (PHOTONIC CRYSTAL FIBER) BY GEOGRAPHIC REGION

4.1 World Historic Holey Fiber (Photonic Crystal Fiber) Market Size by Geographic Region (2021-2026)

4.1.1 Global Holey Fiber (Photonic Crystal Fiber) Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Holey Fiber (Photonic Crystal Fiber) Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Holey Fiber (Photonic Crystal Fiber) Market Size by Country/Region (2021-2026)

4.2.1 Global Holey Fiber (Photonic Crystal Fiber) Annual Sales by Country/Region (2021-2026)

4.2.2 Global Holey Fiber (Photonic Crystal Fiber) Annual Revenue by Country/Region (2021-2026)

4.3 Americas Holey Fiber (Photonic Crystal Fiber) Sales Growth

4.4 APAC Holey Fiber (Photonic Crystal Fiber) Sales Growth

4.5 Europe Holey Fiber (Photonic Crystal Fiber) Sales Growth

4.6 Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales Growth

5 AMERICAS

5.1 Americas Holey Fiber (Photonic Crystal Fiber) Sales by Country

5.1.1 Americas Holey Fiber (Photonic Crystal Fiber) Sales by Country (2021-2026)

5.1.2 Americas Holey Fiber (Photonic Crystal Fiber) Revenue by Country (2021-2026)

5.2 Americas Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026)

5.3 Americas Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Holey Fiber (Photonic Crystal Fiber) Sales by Region

6.1.1 APAC Holey Fiber (Photonic Crystal Fiber) Sales by Region (2021-2026)

6.1.2 APAC Holey Fiber (Photonic Crystal Fiber) Revenue by Region (2021-2026)

6.2 APAC Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026)

6.3 APAC Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026)

- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Holey Fiber (Photonic Crystal Fiber) by Country
 - 7.1.1 Europe Holey Fiber (Photonic Crystal Fiber) Sales by Country (2021-2026)
 - 7.1.2 Europe Holey Fiber (Photonic Crystal Fiber) Revenue by Country (2021-2026)
- 7.2 Europe Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026)
- 7.3 Europe Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Holey Fiber (Photonic Crystal Fiber) by Country
 - 8.1.1 Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026)
- 8.3 Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Holey Fiber (Photonic Crystal Fiber)
- 10.3 Manufacturing Process Analysis of Holey Fiber (Photonic Crystal Fiber)
- 10.4 Industry Chain Structure of Holey Fiber (Photonic Crystal Fiber)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Holey Fiber (Photonic Crystal Fiber) Distributors
- 11.3 Holey Fiber (Photonic Crystal Fiber) Customer

12 WORLD FORECAST REVIEW FOR HOLEY FIBER (PHOTONIC CRYSTAL FIBER) BY GEOGRAPHIC REGION

- 12.1 Global Holey Fiber (Photonic Crystal Fiber) Market Size Forecast by Region
 - 12.1.1 Global Holey Fiber (Photonic Crystal Fiber) Forecast by Region (2027-2032)
 - 12.1.2 Global Holey Fiber (Photonic Crystal Fiber) Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Holey Fiber (Photonic Crystal Fiber) Forecast by Type (2027-2032)
- 12.7 Global Holey Fiber (Photonic Crystal Fiber) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 NKT Photonics
 - 13.1.1 NKT Photonics Company Information
 - 13.1.2 NKT Photonics Holey Fiber (Photonic Crystal Fiber) Product Portfolios and

Specifications

13.1.3 NKT Photonics Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 NKT Photonics Main Business Overview

13.1.5 NKT Photonics Latest Developments

13.2 Guiding Photonics

13.2.1 Guiding Photonics Company Information

13.2.2 Guiding Photonics Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.2.3 Guiding Photonics Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Guiding Photonics Main Business Overview

13.2.5 Guiding Photonics Latest Developments

13.3 OFS

13.3.1 OFS Company Information

13.3.2 OFS Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.3.3 OFS Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 OFS Main Business Overview

13.3.5 OFS Latest Developments

13.4 Laser Components

13.4.1 Laser Components Company Information

13.4.2 Laser Components Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.4.3 Laser Components Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Laser Components Main Business Overview

13.4.5 Laser Components Latest Developments

13.5 Newport Corporation

13.5.1 Newport Corporation Company Information

13.5.2 Newport Corporation Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.5.3 Newport Corporation Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Newport Corporation Main Business Overview

13.5.5 Newport Corporation Latest Developments

13.6 G&H

13.6.1 G&H Company Information

13.6.2 G&H Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.6.3 G&H Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 G&H Main Business Overview

13.6.5 G&H Latest Developments

13.7 Thorlabs

13.7.1 Thorlabs Company Information

13.7.2 Thorlabs Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.7.3 Thorlabs Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Thorlabs Main Business Overview

13.7.5 Thorlabs Latest Developments

13.8 Fibercore

13.8.1 Fibercore Company Information

13.8.2 Fibercore Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.8.3 Fibercore Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Fibercore Main Business Overview

13.8.5 Fibercore Latest Developments

13.9 GLOphotonics

13.9.1 GLOphotonics Company Information

13.9.2 GLOphotonics Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.9.3 GLOphotonics Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 GLOphotonics Main Business Overview

13.9.5 GLOphotonics Latest Developments

13.10 fiberware GmbH

13.10.1 fiberware GmbH Company Information

13.10.2 fiberware GmbH Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

13.10.3 fiberware GmbH Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 fiberware GmbH Main Business Overview

13.10.5 fiberware GmbH Latest Developments

13.11 Sch?fter + Kirchhoff GmbH

13.11.1 Sch?fter + Kirchhoff GmbH Company Information

13.11.2 Sch?fter + Kirchhoff GmbH Holey Fiber (Photonic Crystal Fiber) Product

Portfolios and Specifications

13.11.3 Sch?fter + Kirchhoff GmbH Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Sch?fter + Kirchhoff GmbH Main Business Overview

13.11.5 Sch?fter + Kirchhoff GmbH Latest Developments

13.12 Yangtze Optical Fibre And Cable Joint

13.12.1 Yangtze Optical Fibre And Cable Joint Company Information

13.12.2 Yangtze Optical Fibre And Cable Joint Holey Fiber (Photonic Crystal Fiber)

Product Portfolios and Specifications

13.12.3 Yangtze Optical Fibre And Cable Joint Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Yangtze Optical Fibre And Cable Joint Main Business Overview

13.12.5 Yangtze Optical Fibre And Cable Joint Latest Developments

13.13 Shanghai Precilasers Technology

13.13.1 Shanghai Precilasers Technology Company Information

13.13.2 Shanghai Precilasers Technology Holey Fiber (Photonic Crystal Fiber) Product

Portfolios and Specifications

13.13.3 Shanghai Precilasers Technology Holey Fiber (Photonic Crystal Fiber) Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Shanghai Precilasers Technology Main Business Overview

13.13.5 Shanghai Precilasers Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Holey Fiber (Photonic Crystal Fiber) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Holey Fiber (Photonic Crystal Fiber) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Total Internal Reflection Type

Table 4. Major Players of Photonic Bandgap Type

Table 5. Global Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026) & (K Meter)

Table 6. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type (2021-2026)

Table 7. Global Holey Fiber (Photonic Crystal Fiber) Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Type (2021-2026)

Table 9. Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Type (2021-2026) & (US\$/Meter)

Table 10. Major Players of Nonlinear/Supercontinuum

Table 11. Major Players of Polarization Preservation

Table 12. Major Players of Air Core

Table 13. Global Holey Fiber (Photonic Crystal Fiber) Sales by Function (2021-2026) & (K Meter)

Table 14. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Function (2021-2026)

Table 15. Global Holey Fiber (Photonic Crystal Fiber) Revenue by Function (2021-2026) & (\$ million)

Table 16. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Function (2021-2026)

Table 17. Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Function (2021-2026) & (US\$/Meter)

Table 18. Global Holey Fiber (Photonic Crystal Fiber) Sale by Application (2021-2026) & (K Meter)

Table 19. Global Holey Fiber (Photonic Crystal Fiber) Sale Market Share by Application (2021-2026)

Table 20. Global Holey Fiber (Photonic Crystal Fiber) Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Application (2021-2026)

Table 22. Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Application (2021-2026) & (US\$/Meter)

Table 23. Global Holey Fiber (Photonic Crystal Fiber) Sales by Company (2021-2026) & (K Meter)

Table 24. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Company (2021-2026)

Table 25. Global Holey Fiber (Photonic Crystal Fiber) Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Company (2021-2026)

Table 27. Global Holey Fiber (Photonic Crystal Fiber) Sale Price by Company (2021-2026) & (US\$/Meter)

Table 28. Key Manufacturers Holey Fiber (Photonic Crystal Fiber) Producing Area Distribution and Sales Area

Table 29. Players Holey Fiber (Photonic Crystal Fiber) Products Offered

Table 30. Holey Fiber (Photonic Crystal Fiber) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global Holey Fiber (Photonic Crystal Fiber) Sales by Geographic Region (2021-2026) & (K Meter)

Table 34. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share Geographic Region (2021-2026)

Table 35. Global Holey Fiber (Photonic Crystal Fiber) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global Holey Fiber (Photonic Crystal Fiber) Sales by Country/Region (2021-2026) & (K Meter)

Table 38. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country/Region (2021-2026)

Table 39. Global Holey Fiber (Photonic Crystal Fiber) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas Holey Fiber (Photonic Crystal Fiber) Sales by Country (2021-2026) & (K Meter)

Table 42. Americas Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country (2021-2026)

Table 43. Americas Holey Fiber (Photonic Crystal Fiber) Revenue by Country (2021-2026) & (\$ millions)

Table 44. Americas Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026) & (K Meter)

Table 45. Americas Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026) & (K Meter)

Table 46. APAC Holey Fiber (Photonic Crystal Fiber) Sales by Region (2021-2026) & (K Meter)

Table 47. APAC Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Region (2021-2026)

Table 48. APAC Holey Fiber (Photonic Crystal Fiber) Revenue by Region (2021-2026) & (\$ millions)

Table 49. APAC Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026) & (K Meter)

Table 50. APAC Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026) & (K Meter)

Table 51. Europe Holey Fiber (Photonic Crystal Fiber) Sales by Country (2021-2026) & (K Meter)

Table 52. Europe Holey Fiber (Photonic Crystal Fiber) Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026) & (K Meter)

Table 54. Europe Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026) & (K Meter)

Table 55. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales by Country (2021-2026) & (K Meter)

Table 56. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales by Type (2021-2026) & (K Meter)

Table 58. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales by Application (2021-2026) & (K Meter)

Table 59. Key Market Drivers & Growth Opportunities of Holey Fiber (Photonic Crystal Fiber)

Table 60. Key Market Challenges & Risks of Holey Fiber (Photonic Crystal Fiber)

Table 61. Key Industry Trends of Holey Fiber (Photonic Crystal Fiber)

Table 62. Holey Fiber (Photonic Crystal Fiber) Raw Material

- Table 63. Key Suppliers of Raw Materials
- Table 64. Holey Fiber (Photonic Crystal Fiber) Distributors List
- Table 65. Holey Fiber (Photonic Crystal Fiber) Customer List
- Table 66. Global Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Region (2027-2032) & (K Meter)
- Table 67. Global Holey Fiber (Photonic Crystal Fiber) Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 68. Americas Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Country (2027-2032) & (K Meter)
- Table 69. Americas Holey Fiber (Photonic Crystal Fiber) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 70. APAC Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Region (2027-2032) & (K Meter)
- Table 71. APAC Holey Fiber (Photonic Crystal Fiber) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 72. Europe Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Country (2027-2032) & (K Meter)
- Table 73. Europe Holey Fiber (Photonic Crystal Fiber) Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 74. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Country (2027-2032) & (K Meter)
- Table 75. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 76. Global Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Type (2027-2032) & (K Meter)
- Table 77. Global Holey Fiber (Photonic Crystal Fiber) Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 78. Global Holey Fiber (Photonic Crystal Fiber) Sales Forecast by Application (2027-2032) & (K Meter)
- Table 79. Global Holey Fiber (Photonic Crystal Fiber) Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 80. NKT Photonics Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors
- Table 81. NKT Photonics Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications
- Table 82. NKT Photonics Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)
- Table 83. NKT Photonics Main Business
- Table 84. NKT Photonics Latest Developments

Table 85. Guiding Photonics Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors

Table 86. Guiding Photonics Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 87. Guiding Photonics Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 88. Guiding Photonics Main Business

Table 89. Guiding Photonics Latest Developments

Table 90. OFS Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors

Table 91. OFS Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 92. OFS Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 93. OFS Main Business

Table 94. OFS Latest Developments

Table 95. Laser Components Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors

Table 96. Laser Components Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 97. Laser Components Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 98. Laser Components Main Business

Table 99. Laser Components Latest Developments

Table 100. Newport Corporation Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors

Table 101. Newport Corporation Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 102. Newport Corporation Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 103. Newport Corporation Main Business

Table 104. Newport Corporation Latest Developments

Table 105. G&H Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors

Table 106. G&H Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 107. G&H Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 108. G&H Main Business

Table 109. G&H Latest Developments

Table 110. Thorlabs Basic Information, Holey Fiber (Photonic Crystal Fiber)

Manufacturing Base, Sales Area and Its Competitors

Table 111. Thorlabs Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 112. Thorlabs Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 113. Thorlabs Main Business

Table 114. Thorlabs Latest Developments

Table 115. Fibercore Basic Information, Holey Fiber (Photonic Crystal Fiber)

Manufacturing Base, Sales Area and Its Competitors

Table 116. Fibercore Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 117. Fibercore Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 118. Fibercore Main Business

Table 119. Fibercore Latest Developments

Table 120. GLOphotonics Basic Information, Holey Fiber (Photonic Crystal Fiber)

Manufacturing Base, Sales Area and Its Competitors

Table 121. GLOphotonics Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 122. GLOphotonics Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 123. GLOphotonics Main Business

Table 124. GLOphotonics Latest Developments

Table 125. fiberware GmbH Basic Information, Holey Fiber (Photonic Crystal Fiber)

Manufacturing Base, Sales Area and Its Competitors

Table 126. fiberware GmbH Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 127. fiberware GmbH Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 128. fiberware GmbH Main Business

Table 129. fiberware GmbH Latest Developments

Table 130. Sch?fter + Kirchhoff GmbH Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors

Table 131. Sch?fter + Kirchhoff GmbH Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications

Table 132. Sch?fter + Kirchhoff GmbH Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

- Table 133. Sch?fter + Kirchhoff GmbH Main Business
- Table 134. Sch?fter + Kirchhoff GmbH Latest Developments
- Table 135. Yangtze Optical Fibre And Cable Joint Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors
- Table 136. Yangtze Optical Fibre And Cable Joint Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications
- Table 137. Yangtze Optical Fibre And Cable Joint Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)
- Table 138. Yangtze Optical Fibre And Cable Joint Main Business
- Table 139. Yangtze Optical Fibre And Cable Joint Latest Developments
- Table 140. Shanghai Precilasers Technology Basic Information, Holey Fiber (Photonic Crystal Fiber) Manufacturing Base, Sales Area and Its Competitors
- Table 141. Shanghai Precilasers Technology Holey Fiber (Photonic Crystal Fiber) Product Portfolios and Specifications
- Table 142. Shanghai Precilasers Technology Holey Fiber (Photonic Crystal Fiber) Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)
- Table 143. Shanghai Precilasers Technology Main Business
- Table 144. Shanghai Precilasers Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Holey Fiber (Photonic Crystal Fiber)
- Figure 2. Holey Fiber (Photonic Crystal Fiber) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Holey Fiber (Photonic Crystal Fiber) Sales Growth Rate 2021-2032 (K Meter)
- Figure 7. Global Holey Fiber (Photonic Crystal Fiber) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Holey Fiber (Photonic Crystal Fiber) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country/Region (2025)
- Figure 10. Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Total Internal Reflection Type
- Figure 12. Product Picture of Photonic Bandgap Type
- Figure 13. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type in 2026
- Figure 14. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Nonlinear/Supercontinuum
- Figure 16. Product Picture of Polarization Preservation
- Figure 17. Product Picture of Air Core
- Figure 18. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Function in 2026
- Figure 19. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Function (2021-2026)
- Figure 20. Holey Fiber (Photonic Crystal Fiber) Consumed in Optical Communication
- Figure 21. Global Holey Fiber (Photonic Crystal Fiber) Market: Optical Communication (2021-2026) & (K Meter)
- Figure 22. Holey Fiber (Photonic Crystal Fiber) Consumed in Laser Processing
- Figure 23. Global Holey Fiber (Photonic Crystal Fiber) Market: Laser Processing (2021-2026) & (K Meter)
- Figure 24. Holey Fiber (Photonic Crystal Fiber) Consumed in Nonlinear Optics

Figure 25. Global Holey Fiber (Photonic Crystal Fiber) Market: Nonlinear Optics (2021-2026) & (K Meter)

Figure 26. Holey Fiber (Photonic Crystal Fiber) Consumed in Others

Figure 27. Global Holey Fiber (Photonic Crystal Fiber) Market: Others (2021-2026) & (K Meter)

Figure 28. Global Holey Fiber (Photonic Crystal Fiber) Sale Market Share by Application (2025)

Figure 29. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Application in 2026

Figure 30. Holey Fiber (Photonic Crystal Fiber) Sales by Company in 2026 (K Meter)

Figure 31. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Company in 2026

Figure 32. Holey Fiber (Photonic Crystal Fiber) Revenue by Company in 2026 (\$ millions)

Figure 33. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Company in 2026

Figure 34. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Geographic Region (2021-2026)

Figure 35. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Geographic Region in 2026

Figure 36. Americas Holey Fiber (Photonic Crystal Fiber) Sales 2021-2026 (K Meter)

Figure 37. Americas Holey Fiber (Photonic Crystal Fiber) Revenue 2021-2026 (\$ millions)

Figure 38. APAC Holey Fiber (Photonic Crystal Fiber) Sales 2021-2026 (K Meter)

Figure 39. APAC Holey Fiber (Photonic Crystal Fiber) Revenue 2021-2026 (\$ millions)

Figure 40. Europe Holey Fiber (Photonic Crystal Fiber) Sales 2021-2026 (K Meter)

Figure 41. Europe Holey Fiber (Photonic Crystal Fiber) Revenue 2021-2026 (\$ millions)

Figure 42. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales 2021-2026 (K Meter)

Figure 43. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Revenue 2021-2026 (\$ millions)

Figure 44. Americas Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country in 2026

Figure 45. Americas Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Country (2021-2026)

Figure 46. Americas Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type (2021-2026)

Figure 47. Americas Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Application (2021-2026)

Figure 48. United States Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 49. Canada Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 50. Mexico Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 51. Brazil Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 52. APAC Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Region in 2026

Figure 53. APAC Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Region (2021-2026)

Figure 54. APAC Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type (2021-2026)

Figure 55. APAC Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Application (2021-2026)

Figure 56. China Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 57. Japan Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 58. South Korea Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 59. Southeast Asia Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 60. India Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 61. Australia Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 62. China Taiwan Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 63. Europe Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country in 2026

Figure 64. Europe Holey Fiber (Photonic Crystal Fiber) Revenue Market Share by Country (2021-2026)

Figure 65. Europe Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type (2021-2026)

Figure 66. Europe Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Application (2021-2026)

Figure 67. Germany Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026

(\$ millions)

Figure 68. France Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 69. UK Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 70. Italy Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 71. Russia Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 72. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Country (2021-2026)

Figure 73. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Type (2021-2026)

Figure 74. Middle East & Africa Holey Fiber (Photonic Crystal Fiber) Sales Market Share by Application (2021-2026)

Figure 75. Egypt Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Africa Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 77. Israel Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 78. Turkey Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 79. GCC Countries Holey Fiber (Photonic Crystal Fiber) Revenue Growth 2021-2026 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of Holey Fiber (Photonic Crystal Fiber) in 2026

Figure 81. Manufacturing Process Analysis of Holey Fiber (Photonic Crystal Fiber)

Figure 82. Industry Chain Structure of Holey Fiber (Photonic Crystal Fiber)

Figure 83. Channels of Distribution

Figure 84. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Forecast by Region (2027-2032)

Figure 85. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share Forecast by Region (2027-2032)

Figure 86. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share Forecast by Type (2027-2032)

Figure 87. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share Forecast by Type (2027-2032)

Figure 88. Global Holey Fiber (Photonic Crystal Fiber) Sales Market Share Forecast by

Application (2027-2032)

Figure 89. Global Holey Fiber (Photonic Crystal Fiber) Revenue Market Share Forecast by Application (2027-2032)

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