

Global Photonic-crystal Fiber Market Growth 2025-2031

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Abstracts

The global Photonic-crystal Fiber market size is predicted to grow from US\$ 35.5 million in 2025 to US\$ 60.7 million in 2031; it is expected to grow at a CAGR of 9.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Photonic crystal fiber (PCF) is a kind of optical fiber that uses photonic crystals to form the cladding around the core of the cable. Photonic crystal is a low-loss periodic dielectric medium constructed using a periodic array of microscopic air holes that run along the entire fiber length. In PCFs, photonic crystals with photonic band gaps are constructed to prevent light propagation in certain directions with a certain range of wavelengths. Contrary to normal fiber optics, PCFs use total internal reflection or light confinement in hollow core methods to propagate light. Light propagation in PCFs is far superior to standard fiber, which uses constant lower refractive index cladding.

The market growth increasing benefits of photonic crystal fibers over conventional optical fibers, and the rising investment in the telecommunication sector are driving market growth. There has been increasing use of photonic crystals for electronics is expected to drive the photoniccrystal fiber market growth. LED grow light with photonic crystals engraved on them can guide light emission at specified angles and increase brightness without spending more power. These devices have the potential to revolutionize the lighting sector and promote wider adoption of ecologically friendly lighting solutions.

LP Information, Inc. (LPI) ' newest research report, the “Photonic-crystal Fiber Industry Forecast” looks at past sales and reviews total world Photonic-crystal Fiber sales in 2024, providing a comprehensive analysis by region and market sector of projected Photonic-crystal Fiber sales for 2025 through 2031. With 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 Photonic-crystal Fiber industry.

This Insight Report provides a comprehensive analysis of the global 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 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 Photonic-crystal Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 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 Photonic-crystal Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of Photonic-crystal Fiber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Index-Guiding Fibers

Photonic Bandgap (Air Guiding) Fibers

Segmentation by Application:

Biomedicine

Telecommunication

Industrial machining

Military technology

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

Photonics Bretagne

MKS Instruments (Newport)

Glophotonics

Gooch and Housego PLC

Sch?fter + Kirchhoff GmbH

Opalux Inc

Corning Incorporated

Furukawa Electric Co., Ltd.

DK Photonics

Photonic Lattice Inc

Photeon Technologies GmbH

NeoPhotonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photonic-crystal Fiber market?

What factors are driving Photonic-crystal Fiber market growth, globally and by region?

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

How do Photonic-crystal Fiber market opportunities vary by end market size?

How does 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 Photonic-crystal Fiber Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Photonic-crystal Fiber by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Photonic-crystal Fiber by Country/Region, 2020, 2024 & 2031
- 2.2 Photonic-crystal Fiber Segment by Type
 - 2.2.1 Index-Guiding Fibers
 - 2.2.2 Photonic Bandgap (Air Guiding) Fibers
- 2.3 Photonic-crystal Fiber Sales by Type
 - 2.3.1 Global Photonic-crystal Fiber Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Photonic-crystal Fiber Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Photonic-crystal Fiber Sale Price by Type (2020-2025)
- 2.4 Photonic-crystal Fiber Segment by Application
 - 2.4.1 Biomedicine
 - 2.4.2 Telecommunication
 - 2.4.3 Industrial machining
 - 2.4.4 Military technology
 - 2.4.5 Others
- 2.5 Photonic-crystal Fiber Sales by Application
 - 2.5.1 Global Photonic-crystal Fiber Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Photonic-crystal Fiber Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global Photonic-crystal Fiber Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global Photonic-crystal Fiber Breakdown Data by Company
 - 3.1.1 Global Photonic-crystal Fiber Annual Sales by Company (2020-2025)
 - 3.1.2 Global Photonic-crystal Fiber Sales Market Share by Company (2020-2025)
- 3.2 Global Photonic-crystal Fiber Annual Revenue by Company (2020-2025)
 - 3.2.1 Global Photonic-crystal Fiber Revenue by Company (2020-2025)
 - 3.2.2 Global Photonic-crystal Fiber Revenue Market Share by Company (2020-2025)
- 3.3 Global Photonic-crystal Fiber Sale Price by Company
- 3.4 Key Manufacturers Photonic-crystal Fiber Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Photonic-crystal Fiber Product Location Distribution
 - 3.4.2 Players 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) & (2023-2025)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PHOTONIC-CRYSTAL FIBER BY GEOGRAPHIC REGION

- 4.1 World Historic Photonic-crystal Fiber Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global Photonic-crystal Fiber Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global Photonic-crystal Fiber Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic Photonic-crystal Fiber Market Size by Country/Region (2020-2025)
 - 4.2.1 Global Photonic-crystal Fiber Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global Photonic-crystal Fiber Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas Photonic-crystal Fiber Sales Growth
- 4.4 APAC Photonic-crystal Fiber Sales Growth
- 4.5 Europe Photonic-crystal Fiber Sales Growth
- 4.6 Middle East & Africa Photonic-crystal Fiber Sales Growth

5 AMERICAS

- 5.1 Americas Photonic-crystal Fiber Sales by Country

- 5.1.1 Americas Photonic-crystal Fiber Sales by Country (2020-2025)
- 5.1.2 Americas Photonic-crystal Fiber Revenue by Country (2020-2025)
- 5.2 Americas Photonic-crystal Fiber Sales by Type (2020-2025)
- 5.3 Americas Photonic-crystal Fiber Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Photonic-crystal Fiber Sales by Region
 - 6.1.1 APAC Photonic-crystal Fiber Sales by Region (2020-2025)
 - 6.1.2 APAC Photonic-crystal Fiber Revenue by Region (2020-2025)
- 6.2 APAC Photonic-crystal Fiber Sales by Type (2020-2025)
- 6.3 APAC Photonic-crystal Fiber Sales by Application (2020-2025)
- 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 Photonic-crystal Fiber by Country
 - 7.1.1 Europe Photonic-crystal Fiber Sales by Country (2020-2025)
 - 7.1.2 Europe Photonic-crystal Fiber Revenue by Country (2020-2025)
- 7.2 Europe Photonic-crystal Fiber Sales by Type (2020-2025)
- 7.3 Europe Photonic-crystal Fiber Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Photonic-crystal Fiber by Country

8.1.1 Middle East & Africa Photonic-crystal Fiber Sales by Country (2020-2025)

8.1.2 Middle East & Africa Photonic-crystal Fiber Revenue by Country (2020-2025)

8.2 Middle East & Africa Photonic-crystal Fiber Sales by Type (2020-2025)

8.3 Middle East & Africa Photonic-crystal Fiber Sales by Application (2020-2025)

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 Photonic-crystal Fiber

10.3 Manufacturing Process Analysis of Photonic-crystal Fiber

10.4 Industry Chain Structure of Photonic-crystal Fiber

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Photonic-crystal Fiber Distributors

11.3 Photonic-crystal Fiber Customer

12 WORLD FORECAST REVIEW FOR PHOTONIC-CRYSTAL FIBER BY GEOGRAPHIC REGION

12.1 Global Photonic-crystal Fiber Market Size Forecast by Region

12.1.1 Global Photonic-crystal Fiber Forecast by Region (2026-2031)

12.1.2 Global Photonic-crystal Fiber Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Photonic-crystal Fiber Forecast by Type (2026-2031)
- 12.7 Global Photonic-crystal Fiber Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 NKT PHOTONICS

- 13.1.1 NKT PHOTONICS Company Information
- 13.1.2 NKT PHOTONICS Photonic-crystal Fiber Product Portfolios and Specifications
- 13.1.3 NKT PHOTONICS Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.1.4 NKT PHOTONICS Main Business Overview
- 13.1.5 NKT PHOTONICS Latest Developments

13.2 Photonics Bretagne

- 13.2.1 Photonics Bretagne Company Information
- 13.2.2 Photonics Bretagne Photonic-crystal Fiber Product Portfolios and Specifications
- 13.2.3 Photonics Bretagne Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.2.4 Photonics Bretagne Main Business Overview
- 13.2.5 Photonics Bretagne Latest Developments

13.3 MKS Instruments (Newport)

- 13.3.1 MKS Instruments (Newport) Company Information
- 13.3.2 MKS Instruments (Newport) Photonic-crystal Fiber Product Portfolios and Specifications
- 13.3.3 MKS Instruments (Newport) Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3.4 MKS Instruments (Newport) Main Business Overview
- 13.3.5 MKS Instruments (Newport) Latest Developments

13.4 Glophotonics

- 13.4.1 Glophotonics Company Information
- 13.4.2 Glophotonics Photonic-crystal Fiber Product Portfolios and Specifications
- 13.4.3 Glophotonics Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.4.4 Glophotonics Main Business Overview
- 13.4.5 Glophotonics Latest Developments

13.5 Gooch and Housego PLC

- 13.5.1 Gooch and Housego PLC Company Information

13.5.2 Gooch and Housego PLC Photonic-crystal Fiber Product Portfolios and Specifications

13.5.3 Gooch and Housego PLC Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Gooch and Housego PLC Main Business Overview

13.5.5 Gooch and Housego PLC Latest Developments

13.6 Sch?fter + Kirchhoff GmbH

13.6.1 Sch?fter + Kirchhoff GmbH Company Information

13.6.2 Sch?fter + Kirchhoff GmbH Photonic-crystal Fiber Product Portfolios and Specifications

13.6.3 Sch?fter + Kirchhoff GmbH Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Sch?fter + Kirchhoff GmbH Main Business Overview

13.6.5 Sch?fter + Kirchhoff GmbH Latest Developments

13.7 Opalux Inc

13.7.1 Opalux Inc Company Information

13.7.2 Opalux Inc Photonic-crystal Fiber Product Portfolios and Specifications

13.7.3 Opalux Inc Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Opalux Inc Main Business Overview

13.7.5 Opalux Inc Latest Developments

13.8 Corning Incorporated

13.8.1 Corning Incorporated Company Information

13.8.2 Corning Incorporated Photonic-crystal Fiber Product Portfolios and Specifications

13.8.3 Corning Incorporated Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Corning Incorporated Main Business Overview

13.8.5 Corning Incorporated Latest Developments

13.9 Furukawa Electric Co., Ltd.

13.9.1 Furukawa Electric Co., Ltd. Company Information

13.9.2 Furukawa Electric Co., Ltd. Photonic-crystal Fiber Product Portfolios and Specifications

13.9.3 Furukawa Electric Co., Ltd. Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Furukawa Electric Co., Ltd. Main Business Overview

13.9.5 Furukawa Electric Co., Ltd. Latest Developments

13.10 DK Photonics

13.10.1 DK Photonics Company Information

- 13.10.2 DK Photonics Photonic-crystal Fiber Product Portfolios and Specifications
- 13.10.3 DK Photonics Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.10.4 DK Photonics Main Business Overview
- 13.10.5 DK Photonics Latest Developments
- 13.11 Photonic Lattice Inc
 - 13.11.1 Photonic Lattice Inc Company Information
 - 13.11.2 Photonic Lattice Inc Photonic-crystal Fiber Product Portfolios and Specifications
 - 13.11.3 Photonic Lattice Inc Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.11.4 Photonic Lattice Inc Main Business Overview
 - 13.11.5 Photonic Lattice Inc Latest Developments
- 13.12 Photeon Technologies GmbH
 - 13.12.1 Photeon Technologies GmbH Company Information
 - 13.12.2 Photeon Technologies GmbH Photonic-crystal Fiber Product Portfolios and Specifications
 - 13.12.3 Photeon Technologies GmbH Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 Photeon Technologies GmbH Main Business Overview
 - 13.12.5 Photeon Technologies GmbH Latest Developments
- 13.13 NeoPhotonics
 - 13.13.1 NeoPhotonics Company Information
 - 13.13.2 NeoPhotonics Photonic-crystal Fiber Product Portfolios and Specifications
 - 13.13.3 NeoPhotonics Photonic-crystal Fiber Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 NeoPhotonics Main Business Overview
 - 13.13.5 NeoPhotonics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Photonic-crystal Fiber Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Photonic-crystal Fiber Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Index-Guiding Fibers

Table 4. Major Players of Photonic Bandgap (Air Guiding) Fibers

Table 5. Global Photonic-crystal Fiber Sales by Type (2020-2025) & (K Meters)

Table 6. Global Photonic-crystal Fiber Sales Market Share by Type (2020-2025)

Table 7. Global Photonic-crystal Fiber Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Photonic-crystal Fiber Revenue Market Share by Type (2020-2025)

Table 9. Global Photonic-crystal Fiber Sale Price by Type (2020-2025) & (USD/Meter)

Table 10. Global Photonic-crystal Fiber Sale by Application (2020-2025) & (K Meters)

Table 11. Global Photonic-crystal Fiber Sale Market Share by Application (2020-2025)

Table 12. Global Photonic-crystal Fiber Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Photonic-crystal Fiber Revenue Market Share by Application (2020-2025)

Table 14. Global Photonic-crystal Fiber Sale Price by Application (2020-2025) & (USD/Meter)

Table 15. Global Photonic-crystal Fiber Sales by Company (2020-2025) & (K Meters)

Table 16. Global Photonic-crystal Fiber Sales Market Share by Company (2020-2025)

Table 17. Global Photonic-crystal Fiber Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Photonic-crystal Fiber Revenue Market Share by Company (2020-2025)

Table 19. Global Photonic-crystal Fiber Sale Price by Company (2020-2025) & (USD/Meter)

Table 20. Key Manufacturers Photonic-crystal Fiber Producing Area Distribution and Sales Area

Table 21. Players Photonic-crystal Fiber Products Offered

Table 22. Photonic-crystal Fiber Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Photonic-crystal Fiber Sales by Geographic Region (2020-2025) & (K

Meters)

Table 26. Global Photonic-crystal Fiber Sales Market Share Geographic Region (2020-2025)

Table 27. Global Photonic-crystal Fiber Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Photonic-crystal Fiber Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Photonic-crystal Fiber Sales by Country/Region (2020-2025) & (K Meters)

Table 30. Global Photonic-crystal Fiber Sales Market Share by Country/Region (2020-2025)

Table 31. Global Photonic-crystal Fiber Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Photonic-crystal Fiber Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Photonic-crystal Fiber Sales by Country (2020-2025) & (K Meters)

Table 34. Americas Photonic-crystal Fiber Sales Market Share by Country (2020-2025)

Table 35. Americas Photonic-crystal Fiber Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Photonic-crystal Fiber Sales by Type (2020-2025) & (K Meters)

Table 37. Americas Photonic-crystal Fiber Sales by Application (2020-2025) & (K Meters)

Table 38. APAC Photonic-crystal Fiber Sales by Region (2020-2025) & (K Meters)

Table 39. APAC Photonic-crystal Fiber Sales Market Share by Region (2020-2025)

Table 40. APAC Photonic-crystal Fiber Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC Photonic-crystal Fiber Sales by Type (2020-2025) & (K Meters)

Table 42. APAC Photonic-crystal Fiber Sales by Application (2020-2025) & (K Meters)

Table 43. Europe Photonic-crystal Fiber Sales by Country (2020-2025) & (K Meters)

Table 44. Europe Photonic-crystal Fiber Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Photonic-crystal Fiber Sales by Type (2020-2025) & (K Meters)

Table 46. Europe Photonic-crystal Fiber Sales by Application (2020-2025) & (K Meters)

Table 47. Middle East & Africa Photonic-crystal Fiber Sales by Country (2020-2025) & (K Meters)

Table 48. Middle East & Africa Photonic-crystal Fiber Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Photonic-crystal Fiber Sales by Type (2020-2025) & (K Meters)

Table 50. Middle East & Africa Photonic-crystal Fiber Sales by Application (2020-2025) & (K Meters)

- Table 51. Key Market Drivers & Growth Opportunities of Photonic-crystal Fiber
- Table 52. Key Market Challenges & Risks of Photonic-crystal Fiber
- Table 53. Key Industry Trends of Photonic-crystal Fiber
- Table 54. Photonic-crystal Fiber Raw Material
- Table 55. Key Suppliers of Raw Materials
- Table 56. Photonic-crystal Fiber Distributors List
- Table 57. Photonic-crystal Fiber Customer List
- Table 58. Global Photonic-crystal Fiber Sales Forecast by Region (2026-2031) & (K Meters)
- Table 59. Global Photonic-crystal Fiber Revenue Forecast by Region (2026-2031) & (\$ millions)
- Table 60. Americas Photonic-crystal Fiber Sales Forecast by Country (2026-2031) & (K Meters)
- Table 61. Americas Photonic-crystal Fiber Annual Revenue Forecast by Country (2026-2031) & (\$ millions)
- Table 62. APAC Photonic-crystal Fiber Sales Forecast by Region (2026-2031) & (K Meters)
- Table 63. APAC Photonic-crystal Fiber Annual Revenue Forecast by Region (2026-2031) & (\$ millions)
- Table 64. Europe Photonic-crystal Fiber Sales Forecast by Country (2026-2031) & (K Meters)
- Table 65. Europe Photonic-crystal Fiber Revenue Forecast by Country (2026-2031) & (\$ millions)
- Table 66. Middle East & Africa Photonic-crystal Fiber Sales Forecast by Country (2026-2031) & (K Meters)
- Table 67. Middle East & Africa Photonic-crystal Fiber Revenue Forecast by Country (2026-2031) & (\$ millions)
- Table 68. Global Photonic-crystal Fiber Sales Forecast by Type (2026-2031) & (K Meters)
- Table 69. Global Photonic-crystal Fiber Revenue Forecast by Type (2026-2031) & (\$ millions)
- Table 70. Global Photonic-crystal Fiber Sales Forecast by Application (2026-2031) & (K Meters)
- Table 71. Global Photonic-crystal Fiber Revenue Forecast by Application (2026-2031) & (\$ millions)
- Table 72. NKT PHOTONICS Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors
- Table 73. NKT PHOTONICS Photonic-crystal Fiber Product Portfolios and Specifications

Table 74. NKT PHOTONICS Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 75. NKT PHOTONICS Main Business

Table 76. NKT PHOTONICS Latest Developments

Table 77. Photonics Bretagne Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 78. Photonics Bretagne Photonic-crystal Fiber Product Portfolios and Specifications

Table 79. Photonics Bretagne Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 80. Photonics Bretagne Main Business

Table 81. Photonics Bretagne Latest Developments

Table 82. MKS Instruments (Newport) Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 83. MKS Instruments (Newport) Photonic-crystal Fiber Product Portfolios and Specifications

Table 84. MKS Instruments (Newport) Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 85. MKS Instruments (Newport) Main Business

Table 86. MKS Instruments (Newport) Latest Developments

Table 87. Glophotronics Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 88. Glophotronics Photonic-crystal Fiber Product Portfolios and Specifications

Table 89. Glophotronics Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 90. Glophotronics Main Business

Table 91. Glophotronics Latest Developments

Table 92. Gooch and Housego PLC Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 93. Gooch and Housego PLC Photonic-crystal Fiber Product Portfolios and Specifications

Table 94. Gooch and Housego PLC Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 95. Gooch and Housego PLC Main Business

Table 96. Gooch and Housego PLC Latest Developments

Table 97. Sch?fter + Kirchhoff GmbH Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 98. Sch?fter + Kirchhoff GmbH Photonic-crystal Fiber Product Portfolios and Specifications

Table 99. Sch?fter + Kirchhoff GmbH Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 100. Sch?fter + Kirchhoff GmbH Main Business

Table 101. Sch?fter + Kirchhoff GmbH Latest Developments

Table 102. Opalux Inc Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 103. Opalux Inc Photonic-crystal Fiber Product Portfolios and Specifications

Table 104. Opalux Inc Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 105. Opalux Inc Main Business

Table 106. Opalux Inc Latest Developments

Table 107. Corning Incorporated Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 108. Corning Incorporated Photonic-crystal Fiber Product Portfolios and Specifications

Table 109. Corning Incorporated Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 110. Corning Incorporated Main Business

Table 111. Corning Incorporated Latest Developments

Table 112. Furukawa Electric Co., Ltd. Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 113. Furukawa Electric Co., Ltd. Photonic-crystal Fiber Product Portfolios and Specifications

Table 114. Furukawa Electric Co., Ltd. Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 115. Furukawa Electric Co., Ltd. Main Business

Table 116. Furukawa Electric Co., Ltd. Latest Developments

Table 117. DK Photonics Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 118. DK Photonics Photonic-crystal Fiber Product Portfolios and Specifications

Table 119. DK Photonics Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 120. DK Photonics Main Business

Table 121. DK Photonics Latest Developments

Table 122. Photonic Lattice Inc Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 123. Photonic Lattice Inc Photonic-crystal Fiber Product Portfolios and Specifications

Table 124. Photonic Lattice Inc Photonic-crystal Fiber Sales (K Meters), Revenue (\$

Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 125. Photonic Lattice Inc Main Business

Table 126. Photonic Lattice Inc Latest Developments

Table 127. Photeon Technologies GmbH Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 128. Photeon Technologies GmbH Photonic-crystal Fiber Product Portfolios and Specifications

Table 129. Photeon Technologies GmbH Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 130. Photeon Technologies GmbH Main Business

Table 131. Photeon Technologies GmbH Latest Developments

Table 132. NeoPhotonics Basic Information, Photonic-crystal Fiber Manufacturing Base, Sales Area and Its Competitors

Table 133. NeoPhotonics Photonic-crystal Fiber Product Portfolios and Specifications

Table 134. NeoPhotonics Photonic-crystal Fiber Sales (K Meters), Revenue (\$ Million), Price (USD/Meter) and Gross Margin (2020-2025)

Table 135. NeoPhotonics Main Business

Table 136. NeoPhotonics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Photonic-crystal Fiber
- Figure 2. Photonic-crystal Fiber Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Photonic-crystal Fiber Sales Growth Rate 2020-2031 (K Meters)
- Figure 7. Global Photonic-crystal Fiber Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Photonic-crystal Fiber Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Photonic-crystal Fiber Sales Market Share by Country/Region (2024)
- Figure 10. Photonic-crystal Fiber Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Index-Guiding Fibers
- Figure 12. Product Picture of Photonic Bandgap (Air Guiding) Fibers
- Figure 13. Global Photonic-crystal Fiber Sales Market Share by Type in 2025
- Figure 14. Global Photonic-crystal Fiber Revenue Market Share by Type (2020-2025)
- Figure 15. Photonic-crystal Fiber Consumed in Biomedicine
- Figure 16. Global Photonic-crystal Fiber Market: Biomedicine (2020-2025) & (K Meters)
- Figure 17. Photonic-crystal Fiber Consumed in Telecommunication
- Figure 18. Global Photonic-crystal Fiber Market: Telecommunication (2020-2025) & (K Meters)
- Figure 19. Photonic-crystal Fiber Consumed in Industrial machining
- Figure 20. Global Photonic-crystal Fiber Market: Industrial machining (2020-2025) & (K Meters)
- Figure 21. Photonic-crystal Fiber Consumed in Military technology
- Figure 22. Global Photonic-crystal Fiber Market: Military technology (2020-2025) & (K Meters)
- Figure 23. Photonic-crystal Fiber Consumed in Others
- Figure 24. Global Photonic-crystal Fiber Market: Others (2020-2025) & (K Meters)
- Figure 25. Global Photonic-crystal Fiber Sale Market Share by Application (2024)
- Figure 26. Global Photonic-crystal Fiber Revenue Market Share by Application in 2025
- Figure 27. Photonic-crystal Fiber Sales by Company in 2025 (K Meters)
- Figure 28. Global Photonic-crystal Fiber Sales Market Share by Company in 2025
- Figure 29. Photonic-crystal Fiber Revenue by Company in 2025 (\$ millions)
- Figure 30. Global Photonic-crystal Fiber Revenue Market Share by Company in 2025

Figure 31. Global Photonic-crystal Fiber Sales Market Share by Geographic Region (2020-2025)

Figure 32. Global Photonic-crystal Fiber Revenue Market Share by Geographic Region in 2025

Figure 33. Americas Photonic-crystal Fiber Sales 2020-2025 (K Meters)

Figure 34. Americas Photonic-crystal Fiber Revenue 2020-2025 (\$ millions)

Figure 35. APAC Photonic-crystal Fiber Sales 2020-2025 (K Meters)

Figure 36. APAC Photonic-crystal Fiber Revenue 2020-2025 (\$ millions)

Figure 37. Europe Photonic-crystal Fiber Sales 2020-2025 (K Meters)

Figure 38. Europe Photonic-crystal Fiber Revenue 2020-2025 (\$ millions)

Figure 39. Middle East & Africa Photonic-crystal Fiber Sales 2020-2025 (K Meters)

Figure 40. Middle East & Africa Photonic-crystal Fiber Revenue 2020-2025 (\$ millions)

Figure 41. Americas Photonic-crystal Fiber Sales Market Share by Country in 2025

Figure 42. Americas Photonic-crystal Fiber Revenue Market Share by Country (2020-2025)

Figure 43. Americas Photonic-crystal Fiber Sales Market Share by Type (2020-2025)

Figure 44. Americas Photonic-crystal Fiber Sales Market Share by Application (2020-2025)

Figure 45. United States Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 46. Canada Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 47. Mexico Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 48. Brazil Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 49. APAC Photonic-crystal Fiber Sales Market Share by Region in 2025

Figure 50. APAC Photonic-crystal Fiber Revenue Market Share by Region (2020-2025)

Figure 51. APAC Photonic-crystal Fiber Sales Market Share by Type (2020-2025)

Figure 52. APAC Photonic-crystal Fiber Sales Market Share by Application (2020-2025)

Figure 53. China Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 54. Japan Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 55. South Korea Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 56. Southeast Asia Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 57. India Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 58. Australia Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 59. China Taiwan Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 60. Europe Photonic-crystal Fiber Sales Market Share by Country in 2025

Figure 61. Europe Photonic-crystal Fiber Revenue Market Share by Country (2020-2025)

Figure 62. Europe Photonic-crystal Fiber Sales Market Share by Type (2020-2025)

Figure 63. Europe Photonic-crystal Fiber Sales Market Share by Application

(2020-2025)

Figure 64. Germany Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 65. France Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 66. UK Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 67. Italy Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 68. Russia Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 69. Middle East & Africa Photonic-crystal Fiber Sales Market Share by Country (2020-2025)

Figure 70. Middle East & Africa Photonic-crystal Fiber Sales Market Share by Type (2020-2025)

Figure 71. Middle East & Africa Photonic-crystal Fiber Sales Market Share by Application (2020-2025)

Figure 72. Egypt Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 73. South Africa Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 74. Israel Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 75. Turkey Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 76. GCC Countries Photonic-crystal Fiber Revenue Growth 2020-2025 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of Photonic-crystal Fiber in 2025

Figure 78. Manufacturing Process Analysis of Photonic-crystal Fiber

Figure 79. Industry Chain Structure of Photonic-crystal Fiber

Figure 80. Channels of Distribution

Figure 81. Global Photonic-crystal Fiber Sales Market Forecast by Region (2026-2031)

Figure 82. Global Photonic-crystal Fiber Revenue Market Share Forecast by Region (2026-2031)

Figure 83. Global Photonic-crystal Fiber Sales Market Share Forecast by Type (2026-2031)

Figure 84. Global Photonic-crystal Fiber Revenue Market Share Forecast by Type (2026-2031)

Figure 85. Global Photonic-crystal Fiber Sales Market Share Forecast by Application (2026-2031)

Figure 86. Global Photonic-crystal Fiber Revenue Market Share Forecast by Application (2026-2031)

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