

# Global Photonic Crystal Market Growth 2025-2031

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## Abstracts

The global Photonic Crystal market size is predicted to grow from US\$ 42900 million in 2025 to US\$ 63080 million in 2031; it is expected to grow at a CAGR of 6.6% 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 crystals are materials with periodic structures that manipulate the flow of light. They are used in optical communications, sensors, and lasers.

Photonic crystals enable advanced optical devices, including photonic integrated circuits, and have applications in telecommunications and sensing.

LP Information, Inc. (LPI) ' newest research report, the "Photonic Crystal Industry Forecast" looks at past sales and reviews total world Photonic Crystal sales in 2024, providing a comprehensive analysis by region and market sector of projected Photonic Crystal sales for 2025 through 2031. With Photonic Crystal sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photonic Crystal industry.

This Insight Report provides a comprehensive analysis of the global Photonic Crystal 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 portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photonic Crystal market.

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

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

**Segmentation by Type:**

- One Dimensional Photonic Crystal
- Two Dimensional Photonic Crystal
- Three Dimensional Photonic Crystal

**Segmentation by Application:**

- LEDs Displays
- Image Sensors
- Optical Fibers
- Solar & PV Cells
- Discrete & Integrated Optical Components Lasers
- 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.

Palo Alto Research Center (PARC)

Photonic Lattice

Opalux

Microcontinuum and lightwave power

Sandia and Lockheed Martin

ICX Photonics

Corning Incorporated

Micron Technology

Epistar

Omniguide

Samsung Technology and Advanced Photonic Crystals

### **Key Questions Addressed in this Report**

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

What factors are driving Photonic Crystal market growth, globally and by region?

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

How do Photonic Crystal market opportunities vary by end market size?

How does Photonic Crystal 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 Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for Photonic Crystal by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for Photonic Crystal by Country/Region, 2020, 2024 & 2031

#### 2.2 Photonic Crystal Segment by Type

- 2.2.1 One Dimensional Photonic Crystal
- 2.2.2 Two Dimensional Photonic Crystal
- 2.2.3 Three Dimensional Photonic Crystal

#### 2.3 Photonic Crystal Sales by Type

- 2.3.1 Global Photonic Crystal Sales Market Share by Type (2020-2025)
- 2.3.2 Global Photonic Crystal Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global Photonic Crystal Sale Price by Type (2020-2025)

#### 2.4 Photonic Crystal Segment by Application

- 2.4.1 LEDs Displays
- 2.4.2 Image Sensors
- 2.4.3 Optical Fibers
- 2.4.4 Solar & PV Cells
- 2.4.5 Discrete & Integrated Optical Components Lasers
- 2.4.6 Others

#### 2.5 Photonic Crystal Sales by Application

- 2.5.1 Global Photonic Crystal Sale Market Share by Application (2020-2025)
- 2.5.2 Global Photonic Crystal Revenue and Market Share by Application (2020-2025)

### 2.5.3 Global Photonic Crystal Sale Price by Application (2020-2025)

## **3 GLOBAL BY COMPANY**

### 3.1 Global Photonic Crystal Breakdown Data by Company

#### 3.1.1 Global Photonic Crystal Annual Sales by Company (2020-2025)

#### 3.1.2 Global Photonic Crystal Sales Market Share by Company (2020-2025)

### 3.2 Global Photonic Crystal Annual Revenue by Company (2020-2025)

#### 3.2.1 Global Photonic Crystal Revenue by Company (2020-2025)

#### 3.2.2 Global Photonic Crystal Revenue Market Share by Company (2020-2025)

### 3.3 Global Photonic Crystal Sale Price by Company

### 3.4 Key Manufacturers Photonic Crystal Producing Area Distribution, Sales Area, Product Type

#### 3.4.1 Key Manufacturers Photonic Crystal Product Location Distribution

#### 3.4.2 Players Photonic Crystal 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 BY GEOGRAPHIC REGION**

### 4.1 World Historic Photonic Crystal Market Size by Geographic Region (2020-2025)

#### 4.1.1 Global Photonic Crystal Annual Sales by Geographic Region (2020-2025)

#### 4.1.2 Global Photonic Crystal Annual Revenue by Geographic Region (2020-2025)

### 4.2 World Historic Photonic Crystal Market Size by Country/Region (2020-2025)

#### 4.2.1 Global Photonic Crystal Annual Sales by Country/Region (2020-2025)

#### 4.2.2 Global Photonic Crystal Annual Revenue by Country/Region (2020-2025)

### 4.3 Americas Photonic Crystal Sales Growth

### 4.4 APAC Photonic Crystal Sales Growth

### 4.5 Europe Photonic Crystal Sales Growth

### 4.6 Middle East & Africa Photonic Crystal Sales Growth

## **5 AMERICAS**

### 5.1 Americas Photonic Crystal Sales by Country

#### 5.1.1 Americas Photonic Crystal Sales by Country (2020-2025)

- 5.1.2 Americas Photonic Crystal Revenue by Country (2020-2025)
- 5.2 Americas Photonic Crystal Sales by Type (2020-2025)
- 5.3 Americas Photonic Crystal 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 Sales by Region
  - 6.1.1 APAC Photonic Crystal Sales by Region (2020-2025)
  - 6.1.2 APAC Photonic Crystal Revenue by Region (2020-2025)
- 6.2 APAC Photonic Crystal Sales by Type (2020-2025)
- 6.3 APAC Photonic Crystal 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 by Country
  - 7.1.1 Europe Photonic Crystal Sales by Country (2020-2025)
  - 7.1.2 Europe Photonic Crystal Revenue by Country (2020-2025)
- 7.2 Europe Photonic Crystal Sales by Type (2020-2025)
- 7.3 Europe Photonic Crystal 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 by Country

- 8.1.1 Middle East & Africa Photonic Crystal Sales by Country (2020-2025)
- 8.1.2 Middle East & Africa Photonic Crystal Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Photonic Crystal Sales by Type (2020-2025)
- 8.3 Middle East & Africa Photonic Crystal 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
- 10.3 Manufacturing Process Analysis of Photonic Crystal
- 10.4 Industry Chain Structure of Photonic Crystal

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Photonic Crystal Distributors
- 11.3 Photonic Crystal Customer

## **12 WORLD FORECAST REVIEW FOR PHOTONIC CRYSTAL BY GEOGRAPHIC REGION**

- 12.1 Global Photonic Crystal Market Size Forecast by Region
  - 12.1.1 Global Photonic Crystal Forecast by Region (2026-2031)
  - 12.1.2 Global Photonic Crystal 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 Forecast by Type (2026-2031)
- 12.7 Global Photonic Crystal Forecast by Application (2026-2031)

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Palo Alto Research Center (PARC)

13.1.1 Palo Alto Research Center (PARC) Company Information

13.1.2 Palo Alto Research Center (PARC) Photonic Crystal Product Portfolios and Specifications

13.1.3 Palo Alto Research Center (PARC) Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Palo Alto Research Center (PARC) Main Business Overview

13.1.5 Palo Alto Research Center (PARC) Latest Developments

### 13.2 Photonic Lattice

13.2.1 Photonic Lattice Company Information

13.2.2 Photonic Lattice Photonic Crystal Product Portfolios and Specifications

13.2.3 Photonic Lattice Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Photonic Lattice Main Business Overview

13.2.5 Photonic Lattice Latest Developments

### 13.3 Opalux

13.3.1 Opalux Company Information

13.3.2 Opalux Photonic Crystal Product Portfolios and Specifications

13.3.3 Opalux Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Opalux Main Business Overview

13.3.5 Opalux Latest Developments

### 13.4 Microcontinuum and lightwave power

13.4.1 Microcontinuum and lightwave power Company Information

13.4.2 Microcontinuum and lightwave power Photonic Crystal Product Portfolios and Specifications

13.4.3 Microcontinuum and lightwave power Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Microcontinuum and lightwave power Main Business Overview

13.4.5 Microcontinuum and lightwave power Latest Developments

### 13.5 Sandia and Lockheed Martin

13.5.1 Sandia and Lockheed Martin Company Information

13.5.2 Sandia and Lockheed Martin Photonic Crystal Product Portfolios and

## Specifications

13.5.3 Sandia and Lockheed Martin Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Sandia and Lockheed Martin Main Business Overview

13.5.5 Sandia and Lockheed Martin Latest Developments

## 13.6 ICX Photonics

13.6.1 ICX Photonics Company Information

13.6.2 ICX Photonics Photonic Crystal Product Portfolios and Specifications

13.6.3 ICX Photonics Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 ICX Photonics Main Business Overview

13.6.5 ICX Photonics Latest Developments

## 13.7 Corning Incorporated

13.7.1 Corning Incorporated Company Information

13.7.2 Corning Incorporated Photonic Crystal Product Portfolios and Specifications

13.7.3 Corning Incorporated Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Corning Incorporated Main Business Overview

13.7.5 Corning Incorporated Latest Developments

## 13.8 Micron Technology

13.8.1 Micron Technology Company Information

13.8.2 Micron Technology Photonic Crystal Product Portfolios and Specifications

13.8.3 Micron Technology Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Micron Technology Main Business Overview

13.8.5 Micron Technology Latest Developments

## 13.9 Epistar

13.9.1 Epistar Company Information

13.9.2 Epistar Photonic Crystal Product Portfolios and Specifications

13.9.3 Epistar Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Epistar Main Business Overview

13.9.5 Epistar Latest Developments

## 13.10 Omniguide

13.10.1 Omniguide Company Information

13.10.2 Omniguide Photonic Crystal Product Portfolios and Specifications

13.10.3 Omniguide Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Omniguide Main Business Overview

13.10.5 Omniguide Latest Developments

### 13.11 Samsung Technology and Advanced Photonic Crystals

13.11.1 Samsung Technology and Advanced Photonic Crystals Company Information

13.11.2 Samsung Technology and Advanced Photonic Crystals Photonic Crystal Product Portfolios and Specifications

13.11.3 Samsung Technology and Advanced Photonic Crystals Photonic Crystal Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Samsung Technology and Advanced Photonic Crystals Main Business Overview

13.11.5 Samsung Technology and Advanced Photonic Crystals Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Photonic Crystal Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Photonic Crystal Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of One Dimensional Photonic Crystal
- Table 4. Major Players of Two Dimensional Photonic Crystal
- Table 5. Major Players of Three Dimensional Photonic Crystal
- Table 6. Global Photonic Crystal Sales by Type (2020-2025) & (MT)
- Table 7. Global Photonic Crystal Sales Market Share by Type (2020-2025)
- Table 8. Global Photonic Crystal Revenue by Type (2020-2025) & (\$ million)
- Table 9. Global Photonic Crystal Revenue Market Share by Type (2020-2025)
- Table 10. Global Photonic Crystal Sale Price by Type (2020-2025) & (USD/MT)
- Table 11. Global Photonic Crystal Sale by Application (2020-2025) & (MT)
- Table 12. Global Photonic Crystal Sale Market Share by Application (2020-2025)
- Table 13. Global Photonic Crystal Revenue by Application (2020-2025) & (\$ million)
- Table 14. Global Photonic Crystal Revenue Market Share by Application (2020-2025)
- Table 15. Global Photonic Crystal Sale Price by Application (2020-2025) & (USD/MT)
- Table 16. Global Photonic Crystal Sales by Company (2020-2025) & (MT)
- Table 17. Global Photonic Crystal Sales Market Share by Company (2020-2025)
- Table 18. Global Photonic Crystal Revenue by Company (2020-2025) & (\$ millions)
- Table 19. Global Photonic Crystal Revenue Market Share by Company (2020-2025)
- Table 20. Global Photonic Crystal Sale Price by Company (2020-2025) & (USD/MT)
- Table 21. Key Manufacturers Photonic Crystal Producing Area Distribution and Sales Area
- Table 22. Players Photonic Crystal Products Offered
- Table 23. Photonic Crystal Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- Table 24. New Products and Potential Entrants
- Table 25. Market M&A Activity & Strategy
- Table 26. Global Photonic Crystal Sales by Geographic Region (2020-2025) & (MT)
- Table 27. Global Photonic Crystal Sales Market Share Geographic Region (2020-2025)
- Table 28. Global Photonic Crystal Revenue by Geographic Region (2020-2025) & (\$ millions)
- Table 29. Global Photonic Crystal Revenue Market Share by Geographic Region (2020-2025)
- Table 30. Global Photonic Crystal Sales by Country/Region (2020-2025) & (MT)

- Table 31. Global Photonic Crystal Sales Market Share by Country/Region (2020-2025)
- Table 32. Global Photonic Crystal Revenue by Country/Region (2020-2025) & (\$ millions)
- Table 33. Global Photonic Crystal Revenue Market Share by Country/Region (2020-2025)
- Table 34. Americas Photonic Crystal Sales by Country (2020-2025) & (MT)
- Table 35. Americas Photonic Crystal Sales Market Share by Country (2020-2025)
- Table 36. Americas Photonic Crystal Revenue by Country (2020-2025) & (\$ millions)
- Table 37. Americas Photonic Crystal Sales by Type (2020-2025) & (MT)
- Table 38. Americas Photonic Crystal Sales by Application (2020-2025) & (MT)
- Table 39. APAC Photonic Crystal Sales by Region (2020-2025) & (MT)
- Table 40. APAC Photonic Crystal Sales Market Share by Region (2020-2025)
- Table 41. APAC Photonic Crystal Revenue by Region (2020-2025) & (\$ millions)
- Table 42. APAC Photonic Crystal Sales by Type (2020-2025) & (MT)
- Table 43. APAC Photonic Crystal Sales by Application (2020-2025) & (MT)
- Table 44. Europe Photonic Crystal Sales by Country (2020-2025) & (MT)
- Table 45. Europe Photonic Crystal Revenue by Country (2020-2025) & (\$ millions)
- Table 46. Europe Photonic Crystal Sales by Type (2020-2025) & (MT)
- Table 47. Europe Photonic Crystal Sales by Application (2020-2025) & (MT)
- Table 48. Middle East & Africa Photonic Crystal Sales by Country (2020-2025) & (MT)
- Table 49. Middle East & Africa Photonic Crystal Revenue Market Share by Country (2020-2025)
- Table 50. Middle East & Africa Photonic Crystal Sales by Type (2020-2025) & (MT)
- Table 51. Middle East & Africa Photonic Crystal Sales by Application (2020-2025) & (MT)
- Table 52. Key Market Drivers & Growth Opportunities of Photonic Crystal
- Table 53. Key Market Challenges & Risks of Photonic Crystal
- Table 54. Key Industry Trends of Photonic Crystal
- Table 55. Photonic Crystal Raw Material
- Table 56. Key Suppliers of Raw Materials
- Table 57. Photonic Crystal Distributors List
- Table 58. Photonic Crystal Customer List
- Table 59. Global Photonic Crystal Sales Forecast by Region (2026-2031) & (MT)
- Table 60. Global Photonic Crystal Revenue Forecast by Region (2026-2031) & (\$ millions)
- Table 61. Americas Photonic Crystal Sales Forecast by Country (2026-2031) & (MT)
- Table 62. Americas Photonic Crystal Annual Revenue Forecast by Country (2026-2031) & (\$ millions)
- Table 63. APAC Photonic Crystal Sales Forecast by Region (2026-2031) & (MT)

Table 64. APAC Photonic Crystal Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Photonic Crystal Sales Forecast by Country (2026-2031) & (MT)

Table 66. Europe Photonic Crystal Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Photonic Crystal Sales Forecast by Country (2026-2031) & (MT)

Table 68. Middle East & Africa Photonic Crystal Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Photonic Crystal Sales Forecast by Type (2026-2031) & (MT)

Table 70. Global Photonic Crystal Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Photonic Crystal Sales Forecast by Application (2026-2031) & (MT)

Table 72. Global Photonic Crystal Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. Palo Alto Research Center (PARC) Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 74. Palo Alto Research Center (PARC) Photonic Crystal Product Portfolios and Specifications

Table 75. Palo Alto Research Center (PARC) Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 76. Palo Alto Research Center (PARC) Main Business

Table 77. Palo Alto Research Center (PARC) Latest Developments

Table 78. Photonic Lattice Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 79. Photonic Lattice Photonic Crystal Product Portfolios and Specifications

Table 80. Photonic Lattice Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 81. Photonic Lattice Main Business

Table 82. Photonic Lattice Latest Developments

Table 83. Opalux Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 84. Opalux Photonic Crystal Product Portfolios and Specifications

Table 85. Opalux Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 86. Opalux Main Business

Table 87. Opalux Latest Developments

Table 88. Microcontinuum and lightwave power Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 89. Microcontinuum and lightwave power Photonic Crystal Product Portfolios and

## Specifications

Table 90. Microcontinuum and lightwave power Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 91. Microcontinuum and lightwave power Main Business

Table 92. Microcontinuum and lightwave power Latest Developments

Table 93. Sandia and Lockheed Martin Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 94. Sandia and Lockheed Martin Photonic Crystal Product Portfolios and Specifications

Table 95. Sandia and Lockheed Martin Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 96. Sandia and Lockheed Martin Main Business

Table 97. Sandia and Lockheed Martin Latest Developments

Table 98. ICX Photonics Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 99. ICX Photonics Photonic Crystal Product Portfolios and Specifications

Table 100. ICX Photonics Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 101. ICX Photonics Main Business

Table 102. ICX Photonics Latest Developments

Table 103. Corning Incorporated Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 104. Corning Incorporated Photonic Crystal Product Portfolios and Specifications

Table 105. Corning Incorporated Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 106. Corning Incorporated Main Business

Table 107. Corning Incorporated Latest Developments

Table 108. Micron Technology Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 109. Micron Technology Photonic Crystal Product Portfolios and Specifications

Table 110. Micron Technology Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 111. Micron Technology Main Business

Table 112. Micron Technology Latest Developments

Table 113. Epistar Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 114. Epistar Photonic Crystal Product Portfolios and Specifications

Table 115. Epistar Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 116. Epistar Main Business

Table 117. Epistar Latest Developments

Table 118. Omniguide Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 119. Omniguide Photonic Crystal Product Portfolios and Specifications

Table 120. Omniguide Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 121. Omniguide Main Business

Table 122. Omniguide Latest Developments

Table 123. Samsung Technology and Advanced Photonic Crystals Basic Information, Photonic Crystal Manufacturing Base, Sales Area and Its Competitors

Table 124. Samsung Technology and Advanced Photonic Crystals Photonic Crystal Product Portfolios and Specifications

Table 125. Samsung Technology and Advanced Photonic Crystals Photonic Crystal Sales (MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 126. Samsung Technology and Advanced Photonic Crystals Main Business

Table 127. Samsung Technology and Advanced Photonic Crystals Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Photonic Crystal
- Figure 2. Photonic Crystal Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Photonic Crystal Sales Growth Rate 2020-2031 (MT)
- Figure 7. Global Photonic Crystal Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Photonic Crystal Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Photonic Crystal Sales Market Share by Country/Region (2024)
- Figure 10. Photonic Crystal Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of One Dimensional Photonic Crystal
- Figure 12. Product Picture of Two Dimensional Photonic Crystal
- Figure 13. Product Picture of Three Dimensional Photonic Crystal
- Figure 14. Global Photonic Crystal Sales Market Share by Type in 2025
- Figure 15. Global Photonic Crystal Revenue Market Share by Type (2020-2025)
- Figure 16. Photonic Crystal Consumed in LEDs Displays
- Figure 17. Global Photonic Crystal Market: LEDs Displays (2020-2025) & (MT)
- Figure 18. Photonic Crystal Consumed in Image Sensors
- Figure 19. Global Photonic Crystal Market: Image Sensors (2020-2025) & (MT)
- Figure 20. Photonic Crystal Consumed in Optical Fibers
- Figure 21. Global Photonic Crystal Market: Optical Fibers (2020-2025) & (MT)
- Figure 22. Photonic Crystal Consumed in Solar & PV Cells
- Figure 23. Global Photonic Crystal Market: Solar & PV Cells (2020-2025) & (MT)
- Figure 24. Photonic Crystal Consumed in Discrete & Integrated Optical Components Lasers
- Figure 25. Global Photonic Crystal Market: Discrete & Integrated Optical Components Lasers (2020-2025) & (MT)
- Figure 26. Photonic Crystal Consumed in Others
- Figure 27. Global Photonic Crystal Market: Others (2020-2025) & (MT)
- Figure 28. Global Photonic Crystal Sale Market Share by Application (2024)
- Figure 29. Global Photonic Crystal Revenue Market Share by Application in 2025
- Figure 30. Photonic Crystal Sales by Company in 2025 (MT)
- Figure 31. Global Photonic Crystal Sales Market Share by Company in 2025

- Figure 32. Photonic Crystal Revenue by Company in 2025 (\$ millions)
- Figure 33. Global Photonic Crystal Revenue Market Share by Company in 2025
- Figure 34. Global Photonic Crystal Sales Market Share by Geographic Region (2020-2025)
- Figure 35. Global Photonic Crystal Revenue Market Share by Geographic Region in 2025
- Figure 36. Americas Photonic Crystal Sales 2020-2025 (MT)
- Figure 37. Americas Photonic Crystal Revenue 2020-2025 (\$ millions)
- Figure 38. APAC Photonic Crystal Sales 2020-2025 (MT)
- Figure 39. APAC Photonic Crystal Revenue 2020-2025 (\$ millions)
- Figure 40. Europe Photonic Crystal Sales 2020-2025 (MT)
- Figure 41. Europe Photonic Crystal Revenue 2020-2025 (\$ millions)
- Figure 42. Middle East & Africa Photonic Crystal Sales 2020-2025 (MT)
- Figure 43. Middle East & Africa Photonic Crystal Revenue 2020-2025 (\$ millions)
- Figure 44. Americas Photonic Crystal Sales Market Share by Country in 2025
- Figure 45. Americas Photonic Crystal Revenue Market Share by Country (2020-2025)
- Figure 46. Americas Photonic Crystal Sales Market Share by Type (2020-2025)
- Figure 47. Americas Photonic Crystal Sales Market Share by Application (2020-2025)
- Figure 48. United States Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 49. Canada Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 50. Mexico Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 51. Brazil Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 52. APAC Photonic Crystal Sales Market Share by Region in 2025
- Figure 53. APAC Photonic Crystal Revenue Market Share by Region (2020-2025)
- Figure 54. APAC Photonic Crystal Sales Market Share by Type (2020-2025)
- Figure 55. APAC Photonic Crystal Sales Market Share by Application (2020-2025)
- Figure 56. China Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 57. Japan Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 58. South Korea Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 59. Southeast Asia Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 60. India Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 61. Australia Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 62. China Taiwan Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 63. Europe Photonic Crystal Sales Market Share by Country in 2025
- Figure 64. Europe Photonic Crystal Revenue Market Share by Country (2020-2025)
- Figure 65. Europe Photonic Crystal Sales Market Share by Type (2020-2025)
- Figure 66. Europe Photonic Crystal Sales Market Share by Application (2020-2025)
- Figure 67. Germany Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 68. France Photonic Crystal Revenue Growth 2020-2025 (\$ millions)

- Figure 69. UK Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 70. Italy Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 71. Russia Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 72. Middle East & Africa Photonic Crystal Sales Market Share by Country (2020-2025)
- Figure 73. Middle East & Africa Photonic Crystal Sales Market Share by Type (2020-2025)
- Figure 74. Middle East & Africa Photonic Crystal Sales Market Share by Application (2020-2025)
- Figure 75. Egypt Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 76. South Africa Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 77. Israel Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 78. Turkey Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 79. GCC Countries Photonic Crystal Revenue Growth 2020-2025 (\$ millions)
- Figure 80. Manufacturing Cost Structure Analysis of Photonic Crystal in 2025
- Figure 81. Manufacturing Process Analysis of Photonic Crystal
- Figure 82. Industry Chain Structure of Photonic Crystal
- Figure 83. Channels of Distribution
- Figure 84. Global Photonic Crystal Sales Market Forecast by Region (2026-2031)
- Figure 85. Global Photonic Crystal Revenue Market Share Forecast by Region (2026-2031)
- Figure 86. Global Photonic Crystal Sales Market Share Forecast by Type (2026-2031)
- Figure 87. Global Photonic Crystal Revenue Market Share Forecast by Type (2026-2031)
- Figure 88. Global Photonic Crystal Sales Market Share Forecast by Application (2026-2031)
- Figure 89. Global Photonic Crystal Revenue Market Share Forecast by Application (2026-2031)

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