

Global Polarization-Maintaining Optical Fiber Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Polarization-Maintaining Optical Fiber market size was valued at US\$ 290 million in 2024 and is forecast to a readjusted size of USD 581 million by 2031 with a CAGR of 10.5% during review period.

Polarization-maintaining fiber (PMF or PM fiber) is a single-mode optical fiber in which linearly polarized light, if properly launched into the fiber, maintains a linear polarization during propagation, exiting the fiber in a specific linear polarization state; there is little or no cross-coupling of optical power between the two polarization modes. Such fiber is used in special applications where preserving polarization is essential.

Industry Insights

The Global Mobile Economy Development Report 2023 released by GSMA Intelligence pointed out that by the end of 2022, the number of global mobile users would exceed 5.4 billion. The mobile ecosystem supports 16 million jobs directly and 12 million jobs indirectly.

According to our Communications Research Centre, in 2022, the global communication equipment was valued at US\$ 100 billion. The U.S. and China are powerhouses in the manufacture of communications equipment. According to data from the Ministry of Industry and Information Technology of China, the cumulative revenue of telecommunications services in 2022 was ?1.58 trillion, an increase of 8% over the previous year. The total amount of telecommunications business calculated at the price of the previous year reached ?1.75 trillion, a year-on-year increase of 21.3%. In the same year, the fixed Internet broadband access business revenue was ?240.2 billion,

an increase of 7.1% over the previous year, and its proportion in the telecommunications business revenue decreased from 15.3% in the previous year to 15.2%, driving the telecommunications business revenue to increase by 1.1 percentage points.

This report is a detailed and comprehensive analysis for global Polarization-Maintaining Optical Fiber market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Polarization-Maintaining Optical Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (USD/K Meter), 2020-2031

Global Polarization-Maintaining Optical Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (USD/K Meter), 2020-2031

Global Polarization-Maintaining Optical Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (USD/K Meter), 2020-2031

Global Polarization-Maintaining Optical Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (USD/K Meter), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Polarization-Maintaining Optical Fiber

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Polarization-Maintaining Optical Fiber market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Corning, Fujikura, YOFC, Humanetics (Fibercore), Coherent, Furukawa Electric (OFS), Yangtze Optical Electronic Co., Ltd. (YOEC), FiberHome, iXblue, NKT Photonics, etc.

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

Market Segmentation

Polarization-Maintaining Optical Fiber market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Panda Fiber

Bow Tie Fiber

Elliptical Fiber

Others (Photonic Crystal Fibers)

Market segment by Application

Fiber Optic Gyroscopes (FOGs)

Fiber Optic Sensors and Lasers

Telecom Components

Others

Major players covered

Corning

Fujikura

YOFC

Humanetics (Fibercore)

Coherent

Furukawa Electric (OFS)

Yangtze Optical Electronic Co., Ltd. (YOEC)

FiberHome

iXblue

NKT Photonics

TAIHAN Fiberoptic

Raycus Fiber Laser (Brightcore)

NewPion Photonics Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Polarization-Maintaining Optical Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polarization-Maintaining Optical Fiber, with price, sales quantity, revenue, and global market share of Polarization-Maintaining Optical Fiber from 2020 to 2025.

Chapter 3, the Polarization-Maintaining Optical Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polarization-Maintaining Optical Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Polarization-Maintaining Optical Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Polarization-Maintaining Optical Fiber.

Chapter 14 and 15, to describe Polarization-Maintaining Optical Fiber sales channel, distributors, customers, research findings and conclusion.

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