

# Global Laser Mode Converter Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Laser Mode Converter market size is expected to reach \$ 196 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032). In 2025, the global production of laser mode converters reached 176,600 units, with an average selling price of US\$720 per unit. The global annual production capacity of laser mode converters was approximately 220,000 units, with a gross profit margin of approximately 28.6%. A laser mode converter is a device that can change the mode of a laser beam. It can convert a laser beam from one mode to another, such as from a Gaussian mode to a TEM mode. The upstream of the laser mode converter industry chain includes optical materials, high-refractive-index materials, and coating materials; the midstream consists of laser mode converter manufacturers; and the downstream mainly includes industries such as scientific research, medical care, and precision measurement.

The demand for laser mode converters continues to grow in fields such as optical communication, lidar, and photonics integration. They are primarily used to convert light fields from one mode to another to improve transmission capacity, coupling efficiency, and system flexibility. The global market exhibits differentiated growth across regions. North America and Europe are more mature in high-end optical communication and scientific research applications, while the Asia-Pacific region, especially China, Japan, South Korea, and India, is experiencing rapid expansion due to new infrastructure initiatives, 5G/6G investments, and the development of the photonics chip industry chain. Driving factors include the rapid increase in bandwidth demand, the advancement of photonics integration and quantum communication, and the demand for low-loss, wideband, and high-power-density devices. Challenges include technological bottlenecks in manufacturing tolerances, thermal stability, materials, and coupling efficiency, as well as the compatibility requirements of lasers/detectors with mode converters.

This report studies the global Laser Mode Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser Mode Converter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Laser Mode Converter that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Laser Mode Converter total production and demand, 2021-2032, (K Units)

Global Laser Mode Converter total production value, 2021-2032, (USD Million)

Global Laser Mode Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Laser Mode Converter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Laser Mode Converter domestic production, consumption, key domestic manufacturers and share

Global Laser Mode Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Laser Mode Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Laser Mode Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Laser Mode Converter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LBTEK, SCHOTT, Vortex Optics, HOLO/OR, Coherent, Inc., Newport Corporation, Thorlabs, Inc., Jenoptik AG, IPG Photonics Corporation, nLight, Inc., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Laser Mode Converter market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Laser Mode Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Mode Converter Market, Segmentation by Type:

Diffraction Optical Elements (DOEs)

Resonant Cavities/Phase Plates

Global Laser Mode Converter Market, Segmentation by Conversion Modes:

Spatial Mode Converter

Polarization Mode Converter

Others

Global Laser Mode Converter Market, Segmentation by Device Structure:

Fiber Optic Type

Integrated Optical Path Type

Others

Global Laser Mode Converter Market, Segmentation by Application:

Scientific Research

Medical

Precision Measurement

Optical Communication

Others

**Companies Profiled:**

LBTEK

SCHOTT

Vortex Optics

HOLO/OR

Coherent, Inc.

Newport Corporation

Thorlabs, Inc.

Jenoptik AG

IPG Photonics Corporation

nLight, Inc.

Qubik Photon

**Key Questions Answered:**

1. How big is the global Laser Mode Converter market?
2. What is the demand of the global Laser Mode Converter market?
3. What is the year over year growth of the global Laser Mode Converter market?
4. What is the production and production value of the global Laser Mode Converter market?
5. Who are the key producers in the global Laser Mode Converter market?
6. What are the growth factors driving the market demand?

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