

# Global Semiconductor Laser Diode Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Semiconductor Laser Diode market size is expected to reach \$ 4320.6 million by 2029, rising at a market growth of 6.5% CAGR during the forecast period (2023-2029).

Global 5 largest manufacturers of Semiconductor Laser Diode are Sony, Nichia, Coherent(II-VI), QSI and Sharp, which make up about 30%. Among them, Sony is the leader with about 8% market share.

Asia-Pacific is the largest market, with a share about 50%, followed by Europe and North America, with share about 19% and 24%. In terms of product type, Blue Laser occupy the largest share of the total market, about 37%. And in terms of product application, the largest application is Industrial Applications, followed by Telecom & Communication.

This report studies the Semiconductor Laser market. A semiconductor laser (LD) is a device that causes laser oscillation by flowing an electric current to semiconductor. The mechanism of light emission is the same as a light-emitting diode (LED). Light is generated by flowing the forward current to a p-n junction. In forward bias operation, the p-type layer is connected with the positive terminal and the n-type layer is connected with the negative terminal, electrons enter from the n-type layer and holes from the p-type layer. When the two meet at the junction, an electron drops into a hole and light is emitted at the time.

The basic structure of a semiconductor laser is shown in Figure below. The active layer (light emission layer) sandwiched between the p- and n-type clad layers (double heterostructure) is formed on an n-type substrate, and voltage is applied across the p-n

junction from the electrodes. Both edges of the active layer has mirror-like surface. When forward voltage is applied, electrons combine with holes at the p-n junction, and emit the light. This light is not a laser yet; it is confined within the active layer because the refractive index of the clad layers are lower than that of the active layer. In addition, both ends of the active layer act as a reflecting mirror where the light reciprocates in the active layer. Then, the light is amplified by the stimulated emission process and laser oscillation is generated.

This report studies the global Semiconductor Laser Diode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Laser Diode, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Laser Diode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Laser Diode total production and demand, 2018-2029, (K Units)

Global Semiconductor Laser Diode total production value, 2018-2029, (USD Million)

Global Semiconductor Laser Diode production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Semiconductor Laser Diode consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Semiconductor Laser Diode domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Laser Diode production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Semiconductor Laser Diode production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Semiconductor Laser Diode production by Application production, value, CAGR,

2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Semiconductor Laser Diode 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 Sony, Nichia, Coherent(II-VI), QSI, Sharp, ROHM, Ushio, Osram and TOPTICA Photonics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Laser Diode 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Semiconductor Laser Diode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Semiconductor Laser Diode Market, Segmentation by Type

Blue Laser

Red Laser

Infrared Laser

Other

## Global Semiconductor Laser Diode Market, Segmentation by Application

Optical Storage & Display

Telecom & Communication

Industrial Applications

Medical Application

Others

## Companies Profiled:

Sony

Nichia

Coherent(II-VI)

QSI

Sharp

ROHM

Ushio

Osram

TOPTICA Photonics

Huaguang Photoelectric

Panasonic

Hamamatsu

Newport Corp

Egismos Technology

Arima Lasers

Mitsubishi Electric

## Key Questions Answered

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

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