

Global Semiconductor Laser Market Size study & Forecast, by Type (Fiber Optic Lasers (FOL), Vertical Cavity Surface Emitting Lasers (VCSEL), Compact Disc Lasers (CDL), High Power Diode Lasers (HPDL), Red Lasers, Violet Lasers, Green Lasers, Blue Lasers), by End Users (Optical Storage Devices Lithography, Healthcare, Defense and R&D, Sensors, Display, Printing, Communication, and Industrial) and Regional Analysis, 2023-2030

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Abstracts

Global Semiconductor Laser Market is valued at approximately USD 8.8 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 6.9% over the forecast period 2023-2030. A semiconductor laser, also known as a diode laser, is a type of laser that uses a semiconductor material as the gain medium. It is widely used in various applications, including telecommunications, data storage, laser printing, barcode scanning, laser pointers, and medical equipment. It is replacing traditional lasers in a variety of applications because semiconductor lasers are smaller in size, consume less power, and perform better than conventional lasers, making them the best choice for producing laser-based systems. This market is likely to be driven by an increase in the use of semiconductor lasers in defense because of their compact size, lightweight, extended life duration, and high efficiency. Furthermore, semiconductor lasers are inexpensive, easy to build, and have high efficiency.

The semiconductor laser market is fueled by the expanding market for electronics and smart connected devices. Manufacturers are investing in R&D to improve the performance and efficiency of semiconductor lasers, aligning with the evolving demands

of these industries. With ongoing technological advancements and increased integration of smart features. For instance, In November 2022, LG Display released a 12-inch display that is 20% extended. It boasts excellent free-form technology that allows it to be folded, expanded, and twisted without harm or distortion. The display has a resolution of 100ppi (pixels per inch), full-color RGB, durability, dependability, and great adaptability. Also, In March 2022 Samsung Electronics Ltd. consumer electronics invested around USD 200 million in India to establish a new manufacturing unit. The firm signed a Memorandum of Understanding (MoU) with the Tamil Nadu government to develop and increase the capacity of the factory. Additionally, the global increase in demand for data storage capabilities and the healthcare industries is opening new opportunities for the market players. However, the less reliability & testing of Semiconductor Lasers stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Semiconductor Laser Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 due to high manufacturing and industrialization, as well as government initiatives and investments. The electronics industry is particularly thriving, leading to increased demand for semiconductor lasers in manufacturing processes for consumer devices. North America is expected to grow significantly during the forecast period, owing to the increased development of data centre and investments with quick development of 5G infrastructure and rising demand from automotive manufacturers.

Major market player included in this report are:

Sharp Corporation

Rofin-Sinar Technologies Inc.

Trumpf Gmbh + Co. Kg

Coherent Inc

Asml Holdings N.V.

Sumitomo Electric Industries, Ltd.

Newport Corporation

Axcel Photonics Inc.

Ipg Photonics Corporation

Han's Laser Technology Industry Group Co. Ltd

Recent Developments in the Market:

In February 2022, Night, a maker of fibre and lasers for the aerospace, military, defense, and manufacturing sectors, bought Plasmo Industrietechnik, a diagnostic and

automated solution provider based in Austria. This purchase helps organisations to build production techniques that are efficient, sturdy, and cost-effective. With the purchase of Plasmio in the developing market, nLight has expanded its laser offering.

In November 2021, OSRAM Licht AG, a provider of optical solutions, increased the capacity of its Light Detection and Ranging (LiDAR) laser line for industrial applications. The SPL TL90AT03 short laser was introduced by the business and is used for a variety of applications such as site levelling, industrial automation, and traffic monitoring. The SPL TL90AT03 was purpose-built with wavelengths ranging from 5 to 100 nanoseconds.

Global Semiconductor Laser Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, End Users, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Fiber Optic Lasers (FOL)

Vertical Cavity Surface Emitting Lasers (VCSEL)

Compact Disc Lasers (CDL)

High Power Diode Lasers (HPDL)

Red Lasers

Violet Lasers

Green Lasers

Blue Lasers

By End Users:

Optical Storage Devices Lithography

Healthcare

Defense and R&D

Sensors

Display

Printing

Communication

Industrial

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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