

# Global Diode-Pumped Lasers 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 Diode-Pumped Lasers market size was valued at US\$ 573 million in 2024 and is forecast to a readjusted size of USD 971 million by 2031 with a CAGR of 7.9% during review period.

Diode-pumped laser is a new type of laser with the fastest development and wide application in the world in recent years. This type of laser uses a semiconductor laser with a fixed wavelength to replace the traditional krypton lamp or xenon lamp to pump the laser crystal, and has high energy conversion efficiency. Diode-pumped lasers have the characteristics of small size, long life and high reliability, and have a wide range of application values.

Industrial applications have seen a surge in demand for high-power laser diodes, which are multimode laser diodes that have an amplified emitter that can deliver higher power than single-mode laser diodes. The output power varies according to the desired wavelength. Laser diodes range in wavelength from ultraviolet (~370 nm) to midinfrared (>2 um) wavelengths. High-power laser diodes can achieve output powers of several watts at some wavelengths and hundreds of milliwatts at others. With the advent of kilowatt-class high-power diode laser systems, industrial high-brightness systems are used for welding applications, while low-brightness laser diodes are used for high-power applications such as cladding, additive manufacturing, brazing and hardening. The high initial investment required for laser diodes compared to other light emitting diodes is a major constraint for the overall laser diode industry. Different processes, systems and applications require laser powers ranging from a few hundred watts to several kilowatts. Although the use of laser products in industries such as automobiles and manufacturing will reduce labor costs, the cost of installing laser



products is very high. The cost of installing laser products is typically 30-40% higher than traditional methods. In order to apply the latest laser products in industries such as automotive, a complete revamp of the assembly line is required, which in turn requires a large capital investment. As the market matures, increasing technological innovations in the field of laser technology for various applications such as medical, telecommunications, military & defense, and automotive are driving the demand for diode pumped lasers.

This report is a detailed and comprehensive analysis for global Diode-Pumped Lasers 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 Diode-Pumped Lasers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Diode-Pumped Lasers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Diode-Pumped Lasers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Diode-Pumped Lasers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Diode-Pumped Lasers

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 Diode-Pumped Lasers 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 Oxxius, Thorlabs, Lumentum, Holmarc Opto-Mechatronics, DPSS Lasers Inc, InnoLas, Hubner Photonics, IPG Photonics, Laserconn, Coherent, etc.

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

Market Segmentation

Diode-Pumped Lasers 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

Pulsed Pump Laser

Quasi-Continuous Pump Laser

**CW-Pumped Laser** 

Others

Market segment by Application

Scientific Research Application

Medical Applications

Consumer Electronics



Semiconductor Industry
Others
Major players covered
Oxxius
Thorlabs
Lumentum
Holmarc Opto-Mechatronics
DPSS Lasers Inc
InnoLas
Hubner Photonics
IPG Photonics
Laserconn
Coherent
Litron Lasers
LASOS
Astrum Lasers
Photonics Industries
II-VI
Laserglow Technologies



Quantum Composers
Crystalaser
Frankfurt Laser Company
Cutting Edge Optronics (Northrop Grumman)
Joyee
US Laser
Riscure
Passat
Lumibird
Novanta
RPMC Lasers
Stuttgart Instruments
NKT Photonics
Teem Photonics
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 Diode-Pumped Lasers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Diode-Pumped Lasers, with price, sales quantity, revenue, and global market share of Diode-Pumped Lasers from 2020 to 2025.

Chapter 3, the Diode-Pumped Lasers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Diode-Pumped Lasers 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 Diode-Pumped Lasers 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 Diode-Pumped Lasers.

Chapter 14 and 15, to describe Diode-Pumped Lasers sales channel, distributors, customers, research findings and conclusion.



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