

# Global Mode-Locked Picosecond Lasers Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Mode-Locked Picosecond Lasers market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

A mode-locked picosecond laser is a laser whose output beam has a very short pulse width (picosecond level) and is mode-locked so that the beam is highly coherent both in time and space. Mode locking is a technique to control laser output. By introducing an adjustable optical modulator in the laser cavity, the laser output can have extremely short pulse width and high peak power. In mode-locked picosecond lasers, fast optical modulators (e.g., acousto-optic modulators or electroabsorption modulators) are often used to achieve mode-locking. Mode-locked picosecond lasers have the following characteristics: Short pulse width: Mode-locked picosecond lasers can generate very short light pulses, usually at the level of picoseconds ( $10^{-12}$  seconds) or shorter. Such ultrashort pulse widths are important for many applications, such as material processing, biomedical imaging, and precision measurement. High peak power: The short pulses of mode-locked picosecond lasers have high peak power, making them useful in applications that require high energy density, such as laser drilling, laser cutting, and laser marking. High coherence: Mode-locking processing can make the output beam of the laser highly coherent in time and space, which is critical for some applications that require precise interference and phase stability, such as optical frequency synthesis, optical ranging and laser interference wait.

This report is a detailed and comprehensive analysis for global Mode-Locked

Picosecond 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 2023, are provided.

#### Key Features:

Global Mode-Locked Picosecond Lasers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Mode-Locked Picosecond Lasers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Mode-Locked Picosecond Lasers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Mode-Locked Picosecond Lasers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2018-2023

#### 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 Mode-Locked Picosecond 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 Mode-Locked Picosecond Lasers 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 Coherent Inc., Thorlabs Inc., Newport Corporation, Spectra-Physics and IPG Photonics Corporation, etc.

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

## Market Segmentation

Mode-Locked Picosecond Lasers market is split by Type and by Application. For the period 2018-2029, 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

Liquid Mode-Locked Picosecond Laser

Solid-State Bulk Mode-Locked Picosecond Lasers

### Market segment by Application

Material Science

Biomedical Science

Communications Industry

Precision Measurement

Others

### Major players covered

Coherent Inc.

Thorlabs Inc.

Newport Corporation

Spectra-Physics

IPG Photonics Corporation

Light Conversion Ltd.

Amplitude Systemes

Menlo Systems GmbH

EKSPLA

Laser Quantum Ltd.

Fianium Ltd.

Jenoptik AG

PicoQuant GmbH

Quantel Group

Onefive GmbH

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 Mode-Locked Picosecond Lasers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mode-Locked Picosecond Lasers, with price, sales, revenue and global market share of Mode-Locked Picosecond Lasers from 2018 to 2023.

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

Chapter 4, the Mode-Locked Picosecond Lasers breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Mode-Locked Picosecond Lasers market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Mode-Locked Picosecond Lasers.

Chapter 14 and 15, to describe Mode-Locked Picosecond Lasers sales channel, distributors, customers, research findings and conclusion.

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