

# Global Mode-Locked Picosecond Lasers Market Growth 2023-2029

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## Abstracts

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The global Mode-Locked Picosecond Lasers market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Mode-Locked Picosecond Lasers is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Mode-Locked Picosecond Lasers is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Mode-Locked Picosecond Lasers is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Mode-Locked Picosecond Lasers players cover Coherent Inc., Thorlabs Inc., Newport Corporation, Spectra-Physics, IPG Photonics Corporation, Light Conversion Ltd., Amplitude Systemes, Menlo Systems GmbH and EKSPLA, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

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.

LPI (LP Information)' newest research report, the “Mode-Locked Picosecond Lasers Industry Forecast” looks at past sales and reviews total world Mode-Locked Picosecond Lasers sales in 2022, providing a comprehensive analysis by region and market sector of projected Mode-Locked Picosecond Lasers sales for 2023 through 2029. With Mode-Locked Picosecond Lasers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Mode-Locked Picosecond Lasers industry.

This Insight Report provides a comprehensive analysis of the global Mode-Locked Picosecond Lasers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Mode-Locked Picosecond Lasers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mode-Locked Picosecond Lasers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mode-Locked Picosecond Lasers and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Mode-Locked Picosecond Lasers.

This report presents a comprehensive overview, market shares, and growth opportunities of Mode-Locked Picosecond Lasers market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Liquid Mode-Locked Picosecond Laser

Solid-State Bulk Mode-Locked Picosecond Lasers

Segmentation by application

Material Science

Biomedical Science

Communications Industry

Precision Measurement

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Mode-Locked Picosecond Lasers market?

What factors are driving Mode-Locked Picosecond Lasers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Mode-Locked Picosecond Lasers market opportunities vary by end market size?

How does Mode-Locked Picosecond Lasers break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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