

Global Mode-Locked Picosecond Lasers Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Mode-Locked Picosecond Lasers market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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 studies the global Mode-Locked Picosecond Lasers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mode-Locked Picosecond Lasers, 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 Mode-Locked Picosecond Lasers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mode-Locked Picosecond Lasers total production and demand, 2018-2029, (Units)

Global Mode-Locked Picosecond Lasers total production value, 2018-2029, (USD Million)

Global Mode-Locked Picosecond Lasers production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Mode-Locked Picosecond Lasers consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Mode-Locked Picosecond Lasers domestic production, consumption, key domestic manufacturers and share

Global Mode-Locked Picosecond Lasers production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Mode-Locked Picosecond Lasers production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Mode-Locked Picosecond Lasers production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units)

This reports 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, IPG Photonics Corporation, Light Conversion Ltd., Amplitude Systemes, Menlo Systems GmbH and EKSPLA, 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 Mode-Locked Picosecond Lasers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Mode-Locked Picosecond Lasers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mode-Locked Picosecond Lasers Market, Segmentation by Type

Liquid Mode-Locked Picosecond Laser

Solid-State Bulk Mode-Locked Picosecond Lasers

Global Mode-Locked Picosecond Lasers Market, Segmentation by Application

Material Science

Biomedical Science

Communications Industry

Precision Measurement

Others

Companies Profiled:

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 Answered

1. How big is the global Mode-Locked Picosecond Lasers market?
2. What is the demand of the global Mode-Locked Picosecond Lasers market?
3. What is the year over year growth of the global Mode-Locked Picosecond Lasers market?
4. What is the production and production value of the global Mode-Locked Picosecond Lasers market?
5. Who are the key producers in the global Mode-Locked Picosecond Lasers market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Mode-Locked Picosecond Lasers Introduction
- 1.2 World Mode-Locked Picosecond Lasers Supply & Forecast
 - 1.2.1 World Mode-Locked Picosecond Lasers Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Mode-Locked Picosecond Lasers Production (2018-2029)
 - 1.2.3 World Mode-Locked Picosecond Lasers Pricing Trends (2018-2029)
- 1.3 World Mode-Locked Picosecond Lasers Production by Region (Based on Production Site)
 - 1.3.1 World Mode-Locked Picosecond Lasers Production Value by Region (2018-2029)
 - 1.3.2 World Mode-Locked Picosecond Lasers Production by Region (2018-2029)
 - 1.3.3 World Mode-Locked Picosecond Lasers Average Price by Region (2018-2029)
 - 1.3.4 North America Mode-Locked Picosecond Lasers Production (2018-2029)
 - 1.3.5 Europe Mode-Locked Picosecond Lasers Production (2018-2029)
 - 1.3.6 China Mode-Locked Picosecond Lasers Production (2018-2029)
 - 1.3.7 Japan Mode-Locked Picosecond Lasers Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Mode-Locked Picosecond Lasers Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Mode-Locked Picosecond Lasers Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Mode-Locked Picosecond Lasers Demand (2018-2029)
- 2.2 World Mode-Locked Picosecond Lasers Consumption by Region
 - 2.2.1 World Mode-Locked Picosecond Lasers Consumption by Region (2018-2023)
 - 2.2.2 World Mode-Locked Picosecond Lasers Consumption Forecast by Region (2024-2029)
- 2.3 United States Mode-Locked Picosecond Lasers Consumption (2018-2029)
- 2.4 China Mode-Locked Picosecond Lasers Consumption (2018-2029)
- 2.5 Europe Mode-Locked Picosecond Lasers Consumption (2018-2029)
- 2.6 Japan Mode-Locked Picosecond Lasers Consumption (2018-2029)
- 2.7 South Korea Mode-Locked Picosecond Lasers Consumption (2018-2029)

- 2.8 ASEAN Mode-Locked Picosecond Lasers Consumption (2018-2029)
- 2.9 India Mode-Locked Picosecond Lasers Consumption (2018-2029)

3 WORLD MODE-LOCKED PICOSECOND LASERS MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Mode-Locked Picosecond Lasers Production Value by Manufacturer (2018-2023)
- 3.2 World Mode-Locked Picosecond Lasers Production by Manufacturer (2018-2023)
- 3.3 World Mode-Locked Picosecond Lasers Average Price by Manufacturer (2018-2023)
- 3.4 Mode-Locked Picosecond Lasers Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Mode-Locked Picosecond Lasers Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Mode-Locked Picosecond Lasers in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Mode-Locked Picosecond Lasers in 2022
- 3.6 Mode-Locked Picosecond Lasers Market: Overall Company Footprint Analysis
 - 3.6.1 Mode-Locked Picosecond Lasers Market: Region Footprint
 - 3.6.2 Mode-Locked Picosecond Lasers Market: Company Product Type Footprint
 - 3.6.3 Mode-Locked Picosecond Lasers Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Mode-Locked Picosecond Lasers Production Value Comparison
 - 4.1.1 United States VS China: Mode-Locked Picosecond Lasers Production Value Comparison (2018 & 2022 & 2029)
 - 4.1.2 United States VS China: Mode-Locked Picosecond Lasers Production Value Market Share Comparison (2018 & 2022 & 2029)
- 4.2 United States VS China: Mode-Locked Picosecond Lasers Production Comparison
 - 4.2.1 United States VS China: Mode-Locked Picosecond Lasers Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Mode-Locked Picosecond Lasers Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Mode-Locked Picosecond Lasers Consumption Comparison

4.3.1 United States VS China: Mode-Locked Picosecond Lasers Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Mode-Locked Picosecond Lasers Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Mode-Locked Picosecond Lasers Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Mode-Locked Picosecond Lasers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Mode-Locked Picosecond Lasers Production Value (2018-2023)

4.4.3 United States Based Manufacturers Mode-Locked Picosecond Lasers Production (2018-2023)

4.5 China Based Mode-Locked Picosecond Lasers Manufacturers and Market Share

4.5.1 China Based Mode-Locked Picosecond Lasers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Mode-Locked Picosecond Lasers Production Value (2018-2023)

4.5.3 China Based Manufacturers Mode-Locked Picosecond Lasers Production (2018-2023)

4.6 Rest of World Based Mode-Locked Picosecond Lasers Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Mode-Locked Picosecond Lasers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Mode-Locked Picosecond Lasers Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Liquid Mode-Locked Picosecond Laser

5.2.2 Solid-State Bulk Mode-Locked Picosecond Lasers

5.3 Market Segment by Type

5.3.1 World Mode-Locked Picosecond Lasers Production by Type (2018-2029)

5.3.2 World Mode-Locked Picosecond Lasers Production Value by Type (2018-2029)

5.3.3 World Mode-Locked Picosecond Lasers Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Mode-Locked Picosecond Lasers Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Material Science

6.2.2 Biomedical Science

6.2.3 Communications Industry

6.2.4 Precision Measurement

6.2.5 Others

6.3 Market Segment by Application

6.3.1 World Mode-Locked Picosecond Lasers Production by Application (2018-2029)

6.3.2 World Mode-Locked Picosecond Lasers Production Value by Application (2018-2029)

6.3.3 World Mode-Locked Picosecond Lasers Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Coherent Inc.

7.1.1 Coherent Inc. Details

7.1.2 Coherent Inc. Major Business

7.1.3 Coherent Inc. Mode-Locked Picosecond Lasers Product and Services

7.1.4 Coherent Inc. Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Coherent Inc. Recent Developments/Updates

7.1.6 Coherent Inc. Competitive Strengths & Weaknesses

7.2 Thorlabs Inc.

7.2.1 Thorlabs Inc. Details

7.2.2 Thorlabs Inc. Major Business

7.2.3 Thorlabs Inc. Mode-Locked Picosecond Lasers Product and Services

7.2.4 Thorlabs Inc. Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Thorlabs Inc. Recent Developments/Updates

- 7.2.6 Thorlabs Inc. Competitive Strengths & Weaknesses
- 7.3 Newport Corporation
 - 7.3.1 Newport Corporation Details
 - 7.3.2 Newport Corporation Major Business
 - 7.3.3 Newport Corporation Mode-Locked Picosecond Lasers Product and Services
 - 7.3.4 Newport Corporation Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.3.5 Newport Corporation Recent Developments/Updates
 - 7.3.6 Newport Corporation Competitive Strengths & Weaknesses
- 7.4 Spectra-Physics
 - 7.4.1 Spectra-Physics Details
 - 7.4.2 Spectra-Physics Major Business
 - 7.4.3 Spectra-Physics Mode-Locked Picosecond Lasers Product and Services
 - 7.4.4 Spectra-Physics Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.4.5 Spectra-Physics Recent Developments/Updates
 - 7.4.6 Spectra-Physics Competitive Strengths & Weaknesses
- 7.5 IPG Photonics Corporation
 - 7.5.1 IPG Photonics Corporation Details
 - 7.5.2 IPG Photonics Corporation Major Business
 - 7.5.3 IPG Photonics Corporation Mode-Locked Picosecond Lasers Product and Services
 - 7.5.4 IPG Photonics Corporation Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.5.5 IPG Photonics Corporation Recent Developments/Updates
 - 7.5.6 IPG Photonics Corporation Competitive Strengths & Weaknesses
- 7.6 Light Conversion Ltd.
 - 7.6.1 Light Conversion Ltd. Details
 - 7.6.2 Light Conversion Ltd. Major Business
 - 7.6.3 Light Conversion Ltd. Mode-Locked Picosecond Lasers Product and Services
 - 7.6.4 Light Conversion Ltd. Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Light Conversion Ltd. Recent Developments/Updates
 - 7.6.6 Light Conversion Ltd. Competitive Strengths & Weaknesses
- 7.7 Amplitude Systemes
 - 7.7.1 Amplitude Systemes Details
 - 7.7.2 Amplitude Systemes Major Business
 - 7.7.3 Amplitude Systemes Mode-Locked Picosecond Lasers Product and Services
 - 7.7.4 Amplitude Systemes Mode-Locked Picosecond Lasers Production, Price, Value,

Gross Margin and Market Share (2018-2023)

7.7.5 Amplitude Systemes Recent Developments/Updates

7.7.6 Amplitude Systemes Competitive Strengths & Weaknesses

7.8 Menlo Systems GmbH

7.8.1 Menlo Systems GmbH Details

7.8.2 Menlo Systems GmbH Major Business

7.8.3 Menlo Systems GmbH Mode-Locked Picosecond Lasers Product and Services

7.8.4 Menlo Systems GmbH Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 Menlo Systems GmbH Recent Developments/Updates

7.8.6 Menlo Systems GmbH Competitive Strengths & Weaknesses

7.9 EKSPLA

7.9.1 EKSPLA Details

7.9.2 EKSPLA Major Business

7.9.3 EKSPLA Mode-Locked Picosecond Lasers Product and Services

7.9.4 EKSPLA Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.9.5 EKSPLA Recent Developments/Updates

7.9.6 EKSPLA Competitive Strengths & Weaknesses

7.10 Laser Quantum Ltd.

7.10.1 Laser Quantum Ltd. Details

7.10.2 Laser Quantum Ltd. Major Business

7.10.3 Laser Quantum Ltd. Mode-Locked Picosecond Lasers Product and Services

7.10.4 Laser Quantum Ltd. Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 Laser Quantum Ltd. Recent Developments/Updates

7.10.6 Laser Quantum Ltd. Competitive Strengths & Weaknesses

7.11 Fianium Ltd.

7.11.1 Fianium Ltd. Details

7.11.2 Fianium Ltd. Major Business

7.11.3 Fianium Ltd. Mode-Locked Picosecond Lasers Product and Services

7.11.4 Fianium Ltd. Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.11.5 Fianium Ltd. Recent Developments/Updates

7.11.6 Fianium Ltd. Competitive Strengths & Weaknesses

7.12 Jenoptik AG

7.12.1 Jenoptik AG Details

7.12.2 Jenoptik AG Major Business

7.12.3 Jenoptik AG Mode-Locked Picosecond Lasers Product and Services

7.12.4 Jenoptik AG Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.12.5 Jenoptik AG Recent Developments/Updates

7.12.6 Jenoptik AG Competitive Strengths & Weaknesses

7.13 PicoQuant GmbH

7.13.1 PicoQuant GmbH Details

7.13.2 PicoQuant GmbH Major Business

7.13.3 PicoQuant GmbH Mode-Locked Picosecond Lasers Product and Services

7.13.4 PicoQuant GmbH Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.13.5 PicoQuant GmbH Recent Developments/Updates

7.13.6 PicoQuant GmbH Competitive Strengths & Weaknesses

7.14 Quantel Group

7.14.1 Quantel Group Details

7.14.2 Quantel Group Major Business

7.14.3 Quantel Group Mode-Locked Picosecond Lasers Product and Services

7.14.4 Quantel Group Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.14.5 Quantel Group Recent Developments/Updates

7.14.6 Quantel Group Competitive Strengths & Weaknesses

7.15 Onefive GmbH

7.15.1 Onefive GmbH Details

7.15.2 Onefive GmbH Major Business

7.15.3 Onefive GmbH Mode-Locked Picosecond Lasers Product and Services

7.15.4 Onefive GmbH Mode-Locked Picosecond Lasers Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 Onefive GmbH Recent Developments/Updates

7.15.6 Onefive GmbH Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Mode-Locked Picosecond Lasers Industry Chain

8.2 Mode-Locked Picosecond Lasers Upstream Analysis

8.2.1 Mode-Locked Picosecond Lasers Core Raw Materials

8.2.2 Main Manufacturers of Mode-Locked Picosecond Lasers Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Mode-Locked Picosecond Lasers Production Mode

8.6 Mode-Locked Picosecond Lasers Procurement Model

8.7 Mode-Locked Picosecond Lasers Industry Sales Model and Sales Channels

8.7.1 Mode-Locked Picosecond Lasers Sales Model

8.7.2 Mode-Locked Picosecond Lasers Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Mode-Locked Picosecond Lasers Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Mode-Locked Picosecond Lasers Production Value by Region (2018-2023) & (USD Million)

Table 3. World Mode-Locked Picosecond Lasers Production Value by Region (2024-2029) & (USD Million)

Table 4. World Mode-Locked Picosecond Lasers Production Value Market Share by Region (2018-2023)

Table 5. World Mode-Locked Picosecond Lasers Production Value Market Share by Region (2024-2029)

Table 6. World Mode-Locked Picosecond Lasers Production by Region (2018-2023) & (Units)

Table 7. World Mode-Locked Picosecond Lasers Production by Region (2024-2029) & (Units)

Table 8. World Mode-Locked Picosecond Lasers Production Market Share by Region (2018-2023)

Table 9. World Mode-Locked Picosecond Lasers Production Market Share by Region (2024-2029)

Table 10. World Mode-Locked Picosecond Lasers Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World Mode-Locked Picosecond Lasers Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. Mode-Locked Picosecond Lasers Major Market Trends

Table 13. World Mode-Locked Picosecond Lasers Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Units)

Table 14. World Mode-Locked Picosecond Lasers Consumption by Region (2018-2023) & (Units)

Table 15. World Mode-Locked Picosecond Lasers Consumption Forecast by Region (2024-2029) & (Units)

Table 16. World Mode-Locked Picosecond Lasers Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Mode-Locked Picosecond Lasers Producers in 2022

Table 18. World Mode-Locked Picosecond Lasers Production by Manufacturer (2018-2023) & (Units)

Table 19. Production Market Share of Key Mode-Locked Picosecond Lasers Producers in 2022

Table 20. World Mode-Locked Picosecond Lasers Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global Mode-Locked Picosecond Lasers Company Evaluation Quadrant

Table 22. World Mode-Locked Picosecond Lasers Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Mode-Locked Picosecond Lasers Production Site of Key Manufacturer

Table 24. Mode-Locked Picosecond Lasers Market: Company Product Type Footprint

Table 25. Mode-Locked Picosecond Lasers Market: Company Product Application Footprint

Table 26. Mode-Locked Picosecond Lasers Competitive Factors

Table 27. Mode-Locked Picosecond Lasers New Entrant and Capacity Expansion Plans

Table 28. Mode-Locked Picosecond Lasers Mergers & Acquisitions Activity

Table 29. United States VS China Mode-Locked Picosecond Lasers Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Mode-Locked Picosecond Lasers Production Comparison, (2018 & 2022 & 2029) & (Units)

Table 31. United States VS China Mode-Locked Picosecond Lasers Consumption Comparison, (2018 & 2022 & 2029) & (Units)

Table 32. United States Based Mode-Locked Picosecond Lasers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Mode-Locked Picosecond Lasers Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Mode-Locked Picosecond Lasers Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Mode-Locked Picosecond Lasers Production (2018-2023) & (Units)

Table 36. United States Based Manufacturers Mode-Locked Picosecond Lasers Production Market Share (2018-2023)

Table 37. China Based Mode-Locked Picosecond Lasers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Mode-Locked Picosecond Lasers Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Mode-Locked Picosecond Lasers Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Mode-Locked Picosecond Lasers Production (2018-2023) & (Units)

Table 41. China Based Manufacturers Mode-Locked Picosecond Lasers Production Market Share (2018-2023)

Table 42. Rest of World Based Mode-Locked Picosecond Lasers Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production (2018-2023) & (Units)

Table 46. Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production Market Share (2018-2023)

Table 47. World Mode-Locked Picosecond Lasers Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Mode-Locked Picosecond Lasers Production by Type (2018-2023) & (Units)

Table 49. World Mode-Locked Picosecond Lasers Production by Type (2024-2029) & (Units)

Table 50. World Mode-Locked Picosecond Lasers Production Value by Type (2018-2023) & (USD Million)

Table 51. World Mode-Locked Picosecond Lasers Production Value by Type (2024-2029) & (USD Million)

Table 52. World Mode-Locked Picosecond Lasers Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World Mode-Locked Picosecond Lasers Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World Mode-Locked Picosecond Lasers Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Mode-Locked Picosecond Lasers Production by Application (2018-2023) & (Units)

Table 56. World Mode-Locked Picosecond Lasers Production by Application (2024-2029) & (Units)

Table 57. World Mode-Locked Picosecond Lasers Production Value by Application (2018-2023) & (USD Million)

Table 58. World Mode-Locked Picosecond Lasers Production Value by Application (2024-2029) & (USD Million)

Table 59. World Mode-Locked Picosecond Lasers Average Price by Application (2018-2023) & (US\$/Unit)

Table 60. World Mode-Locked Picosecond Lasers Average Price by Application

(2024-2029) & (US\$/Unit)

Table 61. Coherent Inc. Basic Information, Manufacturing Base and Competitors

Table 62. Coherent Inc. Major Business

Table 63. Coherent Inc. Mode-Locked Picosecond Lasers Product and Services

Table 64. Coherent Inc. Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Coherent Inc. Recent Developments/Updates

Table 66. Coherent Inc. Competitive Strengths & Weaknesses

Table 67. Thorlabs Inc. Basic Information, Manufacturing Base and Competitors

Table 68. Thorlabs Inc. Major Business

Table 69. Thorlabs Inc. Mode-Locked Picosecond Lasers Product and Services

Table 70. Thorlabs Inc. Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Thorlabs Inc. Recent Developments/Updates

Table 72. Thorlabs Inc. Competitive Strengths & Weaknesses

Table 73. Newport Corporation Basic Information, Manufacturing Base and Competitors

Table 74. Newport Corporation Major Business

Table 75. Newport Corporation Mode-Locked Picosecond Lasers Product and Services

Table 76. Newport Corporation Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Newport Corporation Recent Developments/Updates

Table 78. Newport Corporation Competitive Strengths & Weaknesses

Table 79. Spectra-Physics Basic Information, Manufacturing Base and Competitors

Table 80. Spectra-Physics Major Business

Table 81. Spectra-Physics Mode-Locked Picosecond Lasers Product and Services

Table 82. Spectra-Physics Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Spectra-Physics Recent Developments/Updates

Table 84. Spectra-Physics Competitive Strengths & Weaknesses

Table 85. IPG Photonics Corporation Basic Information, Manufacturing Base and Competitors

Table 86. IPG Photonics Corporation Major Business

Table 87. IPG Photonics Corporation Mode-Locked Picosecond Lasers Product and Services

Table 88. IPG Photonics Corporation Mode-Locked Picosecond Lasers Production

(Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. IPG Photonics Corporation Recent Developments/Updates

Table 90. IPG Photonics Corporation Competitive Strengths & Weaknesses

Table 91. Light Conversion Ltd. Basic Information, Manufacturing Base and Competitors

Table 92. Light Conversion Ltd. Major Business

Table 93. Light Conversion Ltd. Mode-Locked Picosecond Lasers Product and Services

Table 94. Light Conversion Ltd. Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Light Conversion Ltd. Recent Developments/Updates

Table 96. Light Conversion Ltd. Competitive Strengths & Weaknesses

Table 97. Amplitude Systemes Basic Information, Manufacturing Base and Competitors

Table 98. Amplitude Systemes Major Business

Table 99. Amplitude Systemes Mode-Locked Picosecond Lasers Product and Services

Table 100. Amplitude Systemes Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. Amplitude Systemes Recent Developments/Updates

Table 102. Amplitude Systemes Competitive Strengths & Weaknesses

Table 103. Menlo Systems GmbH Basic Information, Manufacturing Base and Competitors

Table 104. Menlo Systems GmbH Major Business

Table 105. Menlo Systems GmbH Mode-Locked Picosecond Lasers Product and Services

Table 106. Menlo Systems GmbH Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Menlo Systems GmbH Recent Developments/Updates

Table 108. Menlo Systems GmbH Competitive Strengths & Weaknesses

Table 109. EKSPILA Basic Information, Manufacturing Base and Competitors

Table 110. EKSPILA Major Business

Table 111. EKSPILA Mode-Locked Picosecond Lasers Product and Services

Table 112. EKSPILA Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. EKSPILA Recent Developments/Updates

Table 114. EKSPILA Competitive Strengths & Weaknesses

Table 115. Laser Quantum Ltd. Basic Information, Manufacturing Base and Competitors

Table 116. Laser Quantum Ltd. Major Business

Table 117. Laser Quantum Ltd. Mode-Locked Picosecond Lasers Product and Services

Table 118. Laser Quantum Ltd. Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. Laser Quantum Ltd. Recent Developments/Updates

Table 120. Laser Quantum Ltd. Competitive Strengths & Weaknesses

Table 121. Fianium Ltd. Basic Information, Manufacturing Base and Competitors

Table 122. Fianium Ltd. Major Business

Table 123. Fianium Ltd. Mode-Locked Picosecond Lasers Product and Services

Table 124. Fianium Ltd. Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Fianium Ltd. Recent Developments/Updates

Table 126. Fianium Ltd. Competitive Strengths & Weaknesses

Table 127. Jenoptik AG Basic Information, Manufacturing Base and Competitors

Table 128. Jenoptik AG Major Business

Table 129. Jenoptik AG Mode-Locked Picosecond Lasers Product and Services

Table 130. Jenoptik AG Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Jenoptik AG Recent Developments/Updates

Table 132. Jenoptik AG Competitive Strengths & Weaknesses

Table 133. PicoQuant GmbH Basic Information, Manufacturing Base and Competitors

Table 134. PicoQuant GmbH Major Business

Table 135. PicoQuant GmbH Mode-Locked Picosecond Lasers Product and Services

Table 136. PicoQuant GmbH Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. PicoQuant GmbH Recent Developments/Updates

Table 138. PicoQuant GmbH Competitive Strengths & Weaknesses

Table 139. Quantel Group Basic Information, Manufacturing Base and Competitors

Table 140. Quantel Group Major Business

Table 141. Quantel Group Mode-Locked Picosecond Lasers Product and Services

Table 142. Quantel Group Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Quantel Group Recent Developments/Updates

Table 144. Onefive GmbH Basic Information, Manufacturing Base and Competitors

Table 145. Onefive GmbH Major Business

Table 146. Onefive GmbH Mode-Locked Picosecond Lasers Product and Services

Table 147. Onefive GmbH Mode-Locked Picosecond Lasers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of Mode-Locked Picosecond Lasers Upstream (Raw Materials)

Table 149. Mode-Locked Picosecond Lasers Typical Customers

Table 150. Mode-Locked Picosecond Lasers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Mode-Locked Picosecond Lasers Picture

Figure 2. World Mode-Locked Picosecond Lasers Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Mode-Locked Picosecond Lasers Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Mode-Locked Picosecond Lasers Production (2018-2029) & (Units)

Figure 5. World Mode-Locked Picosecond Lasers Average Price (2018-2029) & (US\$/Unit)

Figure 6. World Mode-Locked Picosecond Lasers Production Value Market Share by Region (2018-2029)

Figure 7. World Mode-Locked Picosecond Lasers Production Market Share by Region (2018-2029)

Figure 8. North America Mode-Locked Picosecond Lasers Production (2018-2029) & (Units)

Figure 9. Europe Mode-Locked Picosecond Lasers Production (2018-2029) & (Units)

Figure 10. China Mode-Locked Picosecond Lasers Production (2018-2029) & (Units)

Figure 11. Japan Mode-Locked Picosecond Lasers Production (2018-2029) & (Units)

Figure 12. Mode-Locked Picosecond Lasers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 15. World Mode-Locked Picosecond Lasers Consumption Market Share by Region (2018-2029)

Figure 16. United States Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 17. China Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 18. Europe Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 19. Japan Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 20. South Korea Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 21. ASEAN Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 22. India Mode-Locked Picosecond Lasers Consumption (2018-2029) & (Units)

Figure 23. Producer Shipments of Mode-Locked Picosecond Lasers by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Mode-Locked Picosecond Lasers Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Mode-Locked Picosecond Lasers Markets in 2022

Figure 26. United States VS China: Mode-Locked Picosecond Lasers Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Mode-Locked Picosecond Lasers Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Mode-Locked Picosecond Lasers Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Mode-Locked Picosecond Lasers Production Market Share 2022

Figure 30. China Based Manufacturers Mode-Locked Picosecond Lasers Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Mode-Locked Picosecond Lasers Production Market Share 2022

Figure 32. World Mode-Locked Picosecond Lasers Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Mode-Locked Picosecond Lasers Production Value Market Share by Type in 2022

Figure 34. Liquid Mode-Locked Picosecond Laser

Figure 35. Solid-State Bulk Mode-Locked Picosecond Lasers

Figure 36. World Mode-Locked Picosecond Lasers Production Market Share by Type (2018-2029)

Figure 37. World Mode-Locked Picosecond Lasers Production Value Market Share by Type (2018-2029)

Figure 38. World Mode-Locked Picosecond Lasers Average Price by Type (2018-2029) & (US\$/Unit)

Figure 39. World Mode-Locked Picosecond Lasers Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 40. World Mode-Locked Picosecond Lasers Production Value Market Share by Application in 2022

Figure 41. Material Science

Figure 42. Biomedical Science

Figure 43. Communications Industry

Figure 44. Precision Measurement

Figure 45. Others

Figure 46. World Mode-Locked Picosecond Lasers Production Market Share by Application (2018-2029)

Figure 47. World Mode-Locked Picosecond Lasers Production Value Market Share by Application (2018-2029)

Figure 48. World Mode-Locked Picosecond Lasers Average Price by Application (2018-2029) & (US\$/Unit)

Figure 49. Mode-Locked Picosecond Lasers Industry Chain

Figure 50. Mode-Locked Picosecond Lasers Procurement Model

Figure 51. Mode-Locked Picosecond Lasers Sales Model

Figure 52. Mode-Locked Picosecond Lasers Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

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