

Global Ultrafast 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 Ultrafast Lasers market size was valued at US\$ 1143 million in 2024 and is forecast to a readjusted size of USD 2245 million by 2031 with a CAGR of 10.2% during review period.

Ultrafast lasers are ultra-short pulse of light with an electromagnetic pulse whose time duration is of the order of a picosecond or less. These pulses have a broadband optical range, and can be produced by mode-locked oscillators.

Ultrafast lasers are commonly referred to as ultrafast events with an amplification of ultra-short pulses which always requires the technique of high pulse amplification, in order to avoid damage to the gain medium of the amplifier. In research & development department, advances in materials and laser configurations promise to open up a variety of new applications outside of the technology's core area of industrial micromachining.

The major players in global Ultrafast Lasers market include Coherent, Trumpf, IPG Photonics, etc. The top 3 players occupy about 40% shares of the global market. Asia-Pacific is the largest market, with a share about 50%, followed by Europe and North America with the share about 23% and 20%. Picosecond is the main type, with a share about 45%. Micromachining is the main application, which holds a share about 60%.

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

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

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

Global Ultrafast Lasers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Ultrafast Lasers

To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global Ultrafast 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 Trumpf, Coherent, IPG Photonics, Newport, Amplitude Laser Group, Novanta, Lumentum, IMRA America, NKT Photonics, Clark-MXR, etc.

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

Market Segmentation

Ultrafast 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

Picosecond

Femtosecond

Market segment by Application

Micromachining

Biomedical

Spectroscopy and Imaging

Science and Research

Others

Major players covered

Trumpf

Coherent

IPG Photonics

Newport

Amplitude Laser Group

Novanta

Lumentum

IMRA America

NKT Photonics

Clark-MXR

Ekspla

Huaray Precision Laser

Yangtze Soton Laser (YSL)

Bellin Laser

NPI Lasers

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 Ultrafast Lasers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultrafast 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 Ultrafast 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 Ultrafast Lasers.

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

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