

Global Ultrafast Picosecond Laser Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultrafast Picosecond Laser market size is expected to reach \$ 957 million by 2032, rising at a market growth of 9.5% CAGR during the forecast period (2026-2032).

In 2025, global Ultrafast Picosecond Laser production reached approximately 1.1k units, with an average global market price of around US\$430k per unit.

Ultrafast picosecond lasers generate ultrashort pulses in the picosecond (10^{-12} s) regime, enabling energy deposition on materials within extremely short timescales for low heat-affected-zone precision processing and material modification. Compared with nanosecond lasers, picosecond sources typically deliver cleaner edges and reduced thermal damage in micromachining of glass, sapphire, ceramics, polymers, and thin films (e.g., drilling, cutting, surface texturing, black marking). Versus femtosecond systems, picosecond lasers often offer a favorable balance of industrial maturity and cost-per-part, making them widely adopted in consumer electronics, display, semiconductor, and medical-device manufacturing.

The upstream supply chain includes pump sources and electro-optic components (high-power pump diodes/fiber components), gain media and nonlinear/harmonic crystals (enabling 1030/1064 nm fundamental and frequency-converted outputs such as 532/515 nm and 355/343 nm), high-damage-threshold optics (mirrors, polarizers, isolators, beam expansion and scanning optics), thermal management and power electronics, plus control/communication interfaces. Midstream comprises laser OEMs and industrial ultrafast platforms offering multi-wavelength high-power picosecond outputs (e.g., Coherent HyperRapid NXT at 1064/532/355 nm) and industrial ultrashort-pulse platforms covering 1030/515/343/257 nm with picosecond pulse options (e.g., TRUMPF TruMicro). Downstream demand is driven by semiconductor/advanced

packaging, display & glass processing, PV, 3C precision manufacturing, medical devices, and high-precision marking?typically delivered as turnkey laser micromachining systems integrated with scanners/stages, vision, and process control.

This report studies the global Ultrafast Picosecond Laser production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrafast Picosecond Laser and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultrafast Picosecond Laser that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultrafast Picosecond Laser total production and demand, 2021-2032, (K Units)

Global Ultrafast Picosecond Laser total production value, 2021-2032, (USD Million)

Global Ultrafast Picosecond Laser production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ultrafast Picosecond Laser consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultrafast Picosecond Laser domestic production, consumption, key domestic manufacturers and share

Global Ultrafast Picosecond Laser production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ultrafast Picosecond Laser production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultrafast Picosecond Laser production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultrafast Picosecond Laser 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 IPG Photonics, TOPTICA Photonics, Fluence Technology, Calmar Laser, H?BNER Photonics, Thorlabs, NKT Photonics, Spectra-Physics, IMRA America, Jenoptik, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultrafast Picosecond Laser market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ultrafast Picosecond Laser Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultrafast Picosecond Laser Market, Segmentation by Type:

257 nm / 266 nm

343 nm / 355 nm

515 nm / 532 nm

1030 nm / 1064 nm

Others

Global Ultrafast Picosecond Laser Market, Segmentation by Average Power:

5W ? 20W

20W ? 60W

60W ? 150W

150W ? 500W

500W ? 1kW

? 1kW

Global Ultrafast Picosecond Laser Market, Segmentation by Application:

Semiconductor

Industrial Machinery

Medical Devices

Aerospace

Scientific Research Experiment

Others

Companies Profiled:

IPG Photonics

TOPTICA Photonics

Fluence Technology

Calmar Laser

H?BNER Photonics

Thorlabs

NKT Photonics

Spectra-Physics

IMRA America

Jenoptik

Coherent

Ekspla

Amplitude Laser

Menlo Systems

TRUMPF

Spark Lasers

Huaray Laser

Hans Laser

Yangtze Soton Laser

JENOPTIK Laser

Pacos Laser

Y-LASER

Keyun Laser

Precilasers Technology

Weikai Photonics

Ultron Photonics

BWT BJ

Zolix

Key Questions Answered:

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

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