

Global Ultrafast Lasers for Micromachining Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Ultrafast Lasers for Micromachining market size is expected to reach \$ 1244.3 million by 2029, rising at a market growth of 10.8% CAGR during the forecast period (2023-2029).

Micromachining has some very specific processing requirements, chief among which are quality, dimensional accuracy, debris management, and the thermal impact of the process on the part. The actual definition of micromachining is somewhat vague. In general terms, it usually means creating feature sizes of 1 millimeter (mm) or smaller in materials that are 1mm thick or even thinner. The micromachining umbrella includes cutting, drilling, scribing, ablation, and texturing processes, each of which requires material removal.

The term “ultra-fast” does not refer to how quickly the laser processes, but rather to the pulse duration of the laser. For many years, lasers with pulse durations in the nanoseconds (ns) (10^{-9} s, or one billionth of a second) were used, which provided a certain level of processing. Now, It has graduated to ultra-fast or ultra-short pulse lasers, with pulse durations measured in picoseconds (ps) (10^{-12} s, or a thousandth of a nanosecond) and femtoseconds (fs) (10^{-15} s, or a millionth of a nanosecond). The laser is a great micromachining tool – it offers the benefits of a non-contact “tool-less” process, optical spot sizes less than 10 microns, and extreme control on how much material is removed, down to the micron level. Micromachining processes use lasers that operate in “pulsed mode,” so the optical energy is delivered to the material by discrete pulses that have a certain time duration, frequency (repetition rate) and power level.

This report studies the global Ultrafast Lasers for Micromachining production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Ultrafast Lasers for Micromachining total production and demand, 2018-2029, (K Units)

Global Ultrafast Lasers for Micromachining total production value, 2018-2029, (USD Million)

Global Ultrafast Lasers for Micromachining production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Ultrafast Lasers for Micromachining consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Ultrafast Lasers for Micromachining domestic production, consumption, key domestic manufacturers and share

Global Ultrafast Lasers for Micromachining production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Ultrafast Lasers for Micromachining production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Ultrafast Lasers for Micromachining production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Ultrafast Lasers for Micromachining 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 Trumpf, Coherent, IPG Photonics, Newport, Amplitude Laser Group, Novanta, Lumentum, IMRA America and NKT Photonics, 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 Ultrafast Lasers for Micromachining 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Ultrafast Lasers for Micromachining Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultrafast Lasers for Micromachining Market, Segmentation by Type

Femtosecond

Picosecond

Global Ultrafast Lasers for Micromachining Market, Segmentation by Application

Automotive

Semiconductor

Electronic

Medical and Life Sciences

Others

Companies Profiled:

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

Key Questions Answered

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

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