

Fiber Laser Market Report by Type (Infrared Fiber Laser, Ultraviolet Fiber Laser, Ultrafast Fiber Laser, Visible Fiber Laser), Application (Cutting, Welding, Marking, Fine and Micro Processing, Medical, and Others), and Region 2024-2032

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Abstracts

The global fiber laser market size reached US\$ 2.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.7 Billion by 2032, exhibiting a growth rate (CAGR) of 8.2% during 2024-2032.

A fiber laser is a solid-state laser that utilizes optical fiber doped in rare-earth elements, such as neodymium, thulium, erbium, holmium and praseodymium, as the active medium. The usage of rare earth elements provides a cost-effective diode laser pump source with a high-power output. Consequently, fiber lasers are compact, reliable, electrically- and optically-efficient, with excellent beam quality and high peak energy, compared to conventional lasers. They also offer superior stability, higher precision, and resistance to environmental disturbances, on account of their sealed optical path.

Fiber lasers find applications in various fields such as micromachining, biology and medical sciences, and telecommunications for coding and marking requirements. They are also gaining traction in the electrical and automotive industries as fibers have a large surface-to-volume ratio that quickly dissipates thermal energy and offers improved efficiency. Besides this, the growing demand for miniaturization of integrated circuits (ICs) and wafers has also contributed to the market growth as fiber lasers can maximize process speed and precision while minimizing operational costs. Moreover, manufacturers are focusing on designing automated and energy-efficient fiber laser solutions to replace traditional chemical etching and ink-based printing methods. Besides this, the growing trend of green manufacturing and increasing concerns among

material manufacturers about the environmental impact of their products, have spurred the adoption of fiber lasers since they consume significantly lesser energy as compared to their crystal- or gas-based counterparts, as well as offer a higher diode life.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global fiber laser market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type and application.

Breakup by Type:

- Infrared Fiber Laser
- Ultraviolet Fiber Laser
- Ultrafast Fiber Laser
- Visible Fiber Laser

Breakup by Application:

- Cutting
- Welding
- Marking
- Fine and Micro Processing
- Medical
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia
- Others
- Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being ABB Ltd., Amonics Limited, Apollo Instruments Inc., Coherent Inc., Cy-laser S.r.l., IPG Photonics Corporation, MKS Instruments Inc., Omron Corporation, NKT Photonics A/S, Toptica Photonics and Trumpf GmbH Co. KG.

Key Questions Answered in This Report

1. What was the size of the global fiber laser market in 2023?
2. What is the expected growth rate of the global fiber laser market during 2024-2032?
3. What are the key factors driving the global fiber laser market?
4. What has been the impact of COVID-19 on the global fiber laser market?
5. What is the breakup of the global fiber laser market based on the type?
6. What is the breakup of the global fiber laser market based on the application?
7. What are the key regions in the global fiber laser market?
8. Who are the key players/companies in the global fiber laser market?

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