+357 96 030922
info@marketpublishers.com

Fiber Laser Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

https://marketpublishers.com/r/FCEC9C2699F4EN.html
Date: May 2025
Pages: 190
Price: US$ 4,850.00 (Single User License)
ID: FCEC9C2699F4EN

Abstracts

The Global Fiber Laser Market was valued at USD 7.7 billion in 2024 and is estimated to grow at a CAGR of 10.7% to reach USD 21.1 billion by 2034, driven by the increasing adoption of fiber lasers across various industries, including automotive, aerospace, electronics, and medical sectors. The demand for high-precision, energy-efficient, and low-maintenance laser systems propels the market forward. Additionally, the rise of electric vehicles (EVs) and advancements in manufacturing technologies are contributing to the expansion of the fiber laser market.

Fiber lasers offer several advantages over traditional laser systems, such as higher beam quality, greater efficiency, and the ability to process a wide range of materials. These characteristics make them ideal for applications requiring precision and speed, such as cutting, welding, and marking. The versatility of fiber lasers allows them to be used in various wavelengths, including infrared (IR), ultraviolet (UV), and visible light, catering to specific industrial needs. The continuous wave (CW) fiber lasers segment is expected to dominate the market due to their suitability for high-power applications and their ability to process thick materials at faster speeds.

The infrared (IR) fiber laser market reached USD 5.6 billion in 2024, maintaining its dominant position due to its adaptability and strong performance in vast industrial applications. IR fiber lasers are especially effective in heavy-duty metalworking processes such as welding, cladding, and high-speed cutting. Their ability to deliver high output power, reaching up to 30 kW, combined with excellent beam quality, allows for deep penetration into metals, ensuring clean, precise results. These features make them an essential technology in high-demand sectors like aerospace and electric vehicle manufacturing, where accuracy, durability, and performance are paramount.

+357 96 030922
info@marketpublishers.com

The medium-power (1–6 kW) segment of the fiber laser market stood at USD 3.9 billion in 2024, reflecting strong demand from manufacturers seeking optimal performance without excessive power consumption. These lasers strike a practical balance between precision and affordability, making them particularly attractive for automotive sheet metal processing, mid-scale aerospace work, and advanced 3D printing. Their application in fabricating EV battery trays and structural components supports rapid production with minimal material waste. As lightweight metals and high-performance alloys become more common in manufacturing, medium-power fiber lasers offer the ideal solution for scalable, clean processing.

United States Fiber Laser Market was valued at USD 1.4 billion in 2024. The country's strong focus on research and development, coupled with its advanced manufacturing capabilities, supports the growth of the fiber laser market. Government initiatives and investments in sectors such as defense, medical technology, and electronics further drive the demand for fiber laser systems. Companies specializing in high-power industrial and ultrafast lasers for semiconductor applications play a significant role in the market's expansion.

Key players in the Global Fiber Laser Market include TRUMPF, Coherent Corporation, nLIGHT, Inc., Lumentum Operations LLC, and IPG Photonics Corporation. These companies are at the forefront of innovation, continuously developing new technologies to meet the evolving needs of various industries. Their strategies involve expanding product portfolios, enhancing technological capabilities, and exploring new applications to maintain a competitive edge in the market. To strengthen their market position, companies in the fiber laser industry are adopting several key strategies. First, they are investing heavily in research and development to innovate and improve the performance of their products. This includes developing lasers with higher power outputs, better beam quality, and greater energy efficiency. Second, companies are forming strategic partnerships and collaborations to expand their market reach and access new customer segments.

Companies Mentioned

IPG Photonics Corporation, TRUMPF, Coherent Corp., nLIGHT, Inc., Lumentum Operations LLC, Thorlabs, Inc., Wuhan Raycus Fiber Laser Technologies Co., Ltd., FANUC CORPORATION, EO Technics Co., Ltd., Laserax, Fujikura Ltd., AdValue Photonics, Keopsys Group, Calmar Laser, Laser Photonics, NKT Photonics A/S, LUMIBIRD

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 - 2034 (USD MILLION & THOUSAND UNITS)

CHAPTER 10 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Fiber Laser Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Product link: https://marketpublishers.com/r/FCEC9C2699F4EN.html

Price: US$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/FCEC9C2699F4EN.html