

# Fiber Laser Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global fiber laser market size reached US\$ 2.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 4.3 Billion by 2028, exhibiting a growth rate (CAGR) of 9.2% during 2023-2028.

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 2023-2028. 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:

How has the global fiber laser market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global fiber laser market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global fiber laser market and who are the key players?

What is the degree of competition in the industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL FIBER LASER MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY TYPE**

- 6.1 Infrared Fiber Laser
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Ultraviolet Fiber Laser
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Ultrafast Fiber Laser

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Visible Fiber Laser
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

- 7.1 Cutting
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Welding
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Marking
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Fine and Micro Processing
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 Medical
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast
- 7.6 Others
  - 7.6.1 Market Trends
  - 7.6.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

- 8.1 North America
  - 8.1.1 United States
    - 8.1.1.1 Market Trends
    - 8.1.1.2 Market Forecast
  - 8.1.2 Canada
    - 8.1.2.1 Market Trends
    - 8.1.2.2 Market Forecast
- 8.2 Asia Pacific
  - 8.2.1 China
    - 8.2.1.1 Market Trends

- 8.2.1.2 Market Forecast
- 8.2.2 Japan
  - 8.2.2.1 Market Trends
  - 8.2.2.2 Market Forecast
- 8.2.3 India
  - 8.2.3.1 Market Trends
  - 8.2.3.2 Market Forecast
- 8.2.4 South Korea
  - 8.2.4.1 Market Trends
  - 8.2.4.2 Market Forecast
- 8.2.5 Australia
  - 8.2.5.1 Market Trends
  - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
  - 8.2.6.1 Market Trends
  - 8.2.6.2 Market Forecast
- 8.2.7 Others
  - 8.2.7.1 Market Trends
  - 8.2.7.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Germany
    - 8.3.1.1 Market Trends
    - 8.3.1.2 Market Forecast
  - 8.3.2 France
    - 8.3.2.1 Market Trends
    - 8.3.2.2 Market Forecast
  - 8.3.3 United Kingdom
    - 8.3.3.1 Market Trends
    - 8.3.3.2 Market Forecast
  - 8.3.4 Italy
    - 8.3.4.1 Market Trends
    - 8.3.4.2 Market Forecast
  - 8.3.5 Spain
    - 8.3.5.1 Market Trends
    - 8.3.5.2 Market Forecast
  - 8.3.6 Russia
    - 8.3.6.1 Market Trends
    - 8.3.6.2 Market Forecast
  - 8.3.7 Others

8.3.7.1 Market Trends

8.3.7.2 Market Forecast

8.4 Latin America

8.4.1 Brazil

8.4.1.1 Market Trends

8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

## **9 SWOT ANALYSIS**

9.1 Overview

9.2 Strengths

9.3 Weaknesses

9.4 Opportunities

9.5 Threats

## **10 VALUE CHAIN ANALYSIS**

## **11 PORTERS FIVE FORCES ANALYSIS**

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

## **12 PRICE ANALYSIS**

## **13 COMPETITIVE LANDSCAPE**

## 13.1 Market Structure

## 13.2 Key Players

## 13.3 Profiles of Key Players

### 13.3.1 ABB Ltd.

#### 13.3.1.1 Company Overview

#### 13.3.1.2 Product Portfolio

#### 13.3.1.3 Financials

#### 13.3.1.4 SWOT Analysis

### 13.3.2 Amonics Limited

#### 13.3.2.1 Company Overview

#### 13.3.2.2 Product Portfolio

### 13.3.3 Apollo Instruments Inc.

#### 13.3.3.1 Company Overview

#### 13.3.3.2 Product Portfolio

### 13.3.4 Coherent Inc.

#### 13.3.4.1 Company Overview

#### 13.3.4.2 Product Portfolio

#### 13.3.4.3 Financials

#### 13.3.4.4 SWOT Analysis

### 13.3.5 Cy-laser S.r.l.

#### 13.3.5.1 Company Overview

#### 13.3.5.2 Product Portfolio

#### 13.3.5.3 Financials

### 13.3.6 IPG Photonics Corporation

#### 13.3.6.1 Company Overview

#### 13.3.6.2 Product Portfolio

#### 13.3.6.3 Financials

### 13.3.7 MKS Instruments Inc.

#### 13.3.7.1 Company Overview

#### 13.3.7.2 Product Portfolio

#### 13.3.7.3 Financials

#### 13.3.7.4 SWOT Analysis

### 13.3.8 Omron Corporation

#### 13.3.8.1 Company Overview

#### 13.3.8.2 Product Portfolio

#### 13.3.8.3 Financials

#### 13.3.8.4 SWOT Analysis

### 13.3.9 NKT Photonics A/S



- 13.3.9.1 Company Overview
- 13.3.9.2 Product Portfolio
- 13.3.9.3 Financials
- 13.3.10 Toptica Photonics
  - 13.3.10.1 Company Overview
  - 13.3.10.2 Product Portfolio
  - 13.3.10.3 Financials
- 13.3.11 Trumpf GmbH Co. KG
  - 13.3.11.1 Company Overview
  - 13.3.11.2 Product Portfolio
  - 13.3.11.3 Financials

## List Of Tables

### LIST OF TABLES

Table 1: Global: Fiber Laser Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Fiber Laser Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Fiber Laser Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Fiber Laser Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Fiber Laser Market: Competitive Structure

Table 6: Global: Fiber Laser Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Fiber Laser Market: Major Drivers and Challenges

Figure 2: Global: Fiber Laser Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Fiber Laser Market: Breakup by Type (in %), 2022

Figure 4: Global: Fiber Laser Market: Breakup by Application (in %), 2022

Figure 5: Global: Fiber Laser Market: Breakup by Region (in %), 2022

Figure 6: Global: Fiber Laser Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 7: Global: Fiber Laser (Infrared Fiber Laser) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 8: Global: Fiber Laser (Infrared Fiber Laser) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 9: Global: Fiber Laser (Ultraviolet Fiber Laser) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Fiber Laser (Ultraviolet Fiber Laser) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Fiber Laser (Ultrafast Fiber Laser) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Fiber Laser (Ultrafast Fiber Laser) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Fiber Laser (Visible Fiber Laser) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Fiber Laser (Visible Fiber Laser) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Fiber Laser (Cutting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Fiber Laser (Cutting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Fiber Laser (Welding) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Fiber Laser (Welding) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Fiber Laser (Marking) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Fiber Laser (Marking) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Fiber Laser (Fine and Micro Processing) Market: Sales Value (in

Million US\$), 2017 & 2022

Figure 22: Global: Fiber Laser (Fine and Micro Processing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Fiber Laser (Medical) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Fiber Laser (Medical) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Fiber Laser (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Fiber Laser (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: North America: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: North America: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: United States: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: United States: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Canada: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Canada: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Asia Pacific: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Asia Pacific: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: China: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: China: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Japan: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Japan: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: India: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: India: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: South Korea: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: South Korea: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Australia: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Australia: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Indonesia: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Indonesia: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Others: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Others: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 49: Europe: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Europe: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 51: Germany: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Germany: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 53: France: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: France: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 55: United Kingdom: Fiber Laser Market: Sales Value (in Million US\$), 2017 &  
2022

Figure 56: United Kingdom: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 57: Italy: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Italy: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Spain: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Spain: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Russia: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Russia: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 63: Others: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Others: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 65: Latin America: Fiber Laser Market: Sales Value (in Million US\$), 2017 &  
2022

Figure 66: Latin America: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 67: Brazil: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Brazil: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Mexico: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Mexico: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 71: Others: Fiber Laser Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Others: Fiber Laser Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 73: Middle East and Africa: Fiber Laser Market: Sales Value (in Million US\$),

2017 & 2022

Figure 74: Middle East and Africa: Fiber Laser Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Global: Fiber Laser Industry: SWOT Analysis

Figure 76: Global: Fiber Laser Industry: Value Chain Analysis

Figure 77: Global: Fiber Laser Industry: Porter's Five Forces Analysis

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