

Global Market of Lasers 2025: Technologies, Markets, Applications and **Future Trends**

LASERS HAVE A PIVOTAL ROLE IN MODERN SOCIETIES

REPORT OUTLINE

- Title: Global Market of Lasers 2025: Technologies, Markets, **Applications and Future Trends**
- 110+ slides (PDF)
- € 7990 Multiusers license

KEY FEATURES OF THE REPORT

- Overview of the factors and trends that influence the global market of Lasers
- Presentation of the most common Laser technologies and their applications
- For each type of application, the breakdown of the market by laser technology: revenue and number of units for 2023
- Study of selected applications' subsegments
- Presentation of Laser source sales by geographical region
- · Market forecast of the Laser market segments for the period 2024-2029

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Multiple aspects of everyday life activity such as industrial production, medical operations and communications rely on Lasers and without this technology which upon its conception was characterized as a "solution seeking a problem", many products and services which are taken for granted, would be unattainable.

The year 2023 faced challenges due to ongoing geopolitical tensions and the strained relations between East and West, which impacted global supply chains and demand across industries including that of lasers.

REPORT'S OBJECTIVES

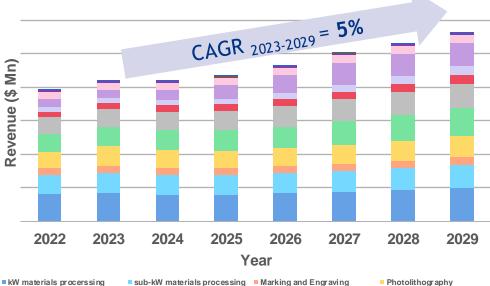
The objectives of the report are to present a comprehensive overview of the global laser sources market for 2023, segmented by the most

technologies and their applications. It includes a detailed definition of laser sources, systems, and sub-systems, as well as an analysis of the laser value chain. Key market figures such as revenues by application, average selling price (ASP), and unit sales by technology are discussed.

The report examines the factors influencing the 2023 and 2024 global laser market evolution, broader industry trends, and subsegments like industrial sensing, instrumentation, lasers. automotive, and consumer electronics.

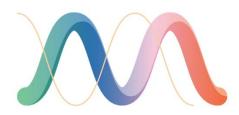
Additionally, it provides a geographical revenue breakdown for APAC, EMEA, and North America, and offers a detailed forecast for 2024-2029, highlighting sales revenue and unit growth across segments and subsegments.

THE MARKET OF LASER APPLICATIONS 2023-2029



- kW materials processing
- Sensing and Instrumentation
- Communications
- Printing Illumination
- Medicine and Cosmetics
- Optical Pumping
- Displays
- Photolithography
- Aerospace and Defense
- Optical Storage





INFORMATION SOURCES

- In-house knowledge of Laser technologies, their applications and their markets.
- Market data based on financial & business information on 400+ Laser Technologies' market players.
- Interviews with key companies that manufacture Laser sources and with Laser integrators and suppliers.
- Literature research.
- · Participation in international conferences and webinars in the universe of Lasers.

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LASER IS A RESILIENT BUSINESS WITH EXPECTED MARKET **GROWTH IN MANY SEGMENTS**

While overall global production showed modest growth, the laser industry remained resilient, achieving nearly 7% growth compared to 2022.

The top 10 laser manufacturers saw a significant revenue increase of over 20%. driven by momentum from the strong post-COVID performance manufacturing and high-tech sectors during 2021 and 2022.

However, despite earlier optimism, key industries relying on lasers did not perform as expected, which may lead to more cautious planning in the laser market for 2024 and 2025.

But we are confident the laser market will continue to grow with a 5% CAGR over 2023-2029 to exceed US\$20b in 2029.

The laser market showed diverse performance across segments:

- kW materials processing grew but faces challenges ahead due to industry slowdowns
- **sub-kW materials processing** remains robust, with significant growth in medical device manufacturing
- Marking and engraving grew in units but saw revenue declines due to price drops
- Photolithography struggled in 2023 but is expected to recover by 2027
- Communications lasers are set to grow in 2024-2025, driven by Al, datacentre expansion, and M2M applications.

- Sensing an d Instrumentation: Growth in life sciences and industrial sensing is driven by challenges in healthcare, essential production, and energy transition requiring precise laser-based devices. In Automotive and Mobility, the laser market, including LiDAR for ADAS, will grow significantly as costeffective solutions enable wider adoption in mass-market vehicles. For Mobile and Consume,: ToF sensors using lasers in smartphones, cameras, and AR/VR systems are expected to grow rapidly for consumer and professional applications.
- Medicine an d Cosmetics. affordable diode laser technologies expand accessibility to medical and cosmetic applications, including home-based cosmetic treatments.
- In Aerospace and Defense, the global tensions and the need for modernized arsenals will drive increased sales of lasers for defense, including military high-power laser sensing and weapons. Significant investments are being made worldwide in laser systems.
- For R&D, the push for greener energy, innovative medicines, and new technologies will boost global funding for R&D projects, benefiting the laser market. Lasers are vital tools in various research fields, including quantum technologies, physics, chemistry, materials science, and biology.

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1. INTRODUCTION

- Scope of this publication
- Overview of the Global Market of Laser Sources for 2023
- Common laser technologies and their applications
- The Global Market of Lasers by Technologies for 2023
- The Global Market of Lasers by Applications for 2023
- Supply chain of laser sources and systems
- Laser systems for the industry and medicine
- 2024-2029 market forecast by laser technologies
- 2024-2029 market forecast by laser applications
- The top 100 companies analysed for this study
- List of definitions and abbreviations

2. COMMERCIAL LASER TECHNOLOGIES

- CO2 Lasers
- Excimer Lasers
- Fiber Lasers
- LPSSLs
- DPSSLs
- Disk Lasers
- Diode Lasers (EELs)
- VCSELs
- Other laser technologies

MARKET ANALYSIS OF LASERS BASED ON THEIR APPLICATIONS FOR 2023

- Industrial Lasers kW materials processing
- Industrial Lasers sub-kW materials processing
- Industrial Lasers Marking and Engraving
- Industrial Lasers Photolithography
- Communications
- Sensing and Instrumentation
- Sensing and Instrumentation Automotive and Mobility
- Sensing and Instrumentation Mobile and Consumer
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- Medicine and Cosmetics
- Aerospace and Defense
- Research and Development







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5. FUTURE TRENDS AND FORECAST OF THE LASER MARKET

- Industrial Lasers market trends
- Communications market trends
- Sensing and Instrumentation market trends
- Industrial Sensing market trends
- Automotive and Mobility market trends
- Mobile and Consumer market trends
- Other Mobile and Consumer applications market trends
- Optical Pumping market trends
- Medicine and Cosmetics market trends
- Aerospace and Defense market trends
- Research and Development market trends

CONCLUSIONS

The global market of Lasers for 2023 and future trends

7. APPENDICES

- 2011 2023 trends of the global industry
- Diode Laser sources
- The evolution of DUV and EUV systems sales

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