

# **Europe Laser Processing Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Fiber Lasers, Gas Lasers, Solid Lasers, and Others), Configuration (Fixed Beam, Moving Beam, and Hybrid), and Industry (Machine Tools, Automotive, Electronics and Microelectronics, Medical, Aerospace, and Others)**

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## **Abstracts**

The Europe Laser Processing Market is projected to grow significantly, reaching an estimated US\$ 2,446.9 million by 2031, up from US\$ 1,453.6 million in 2024, reflecting a compound annual growth rate (CAGR) of 7.8% from 2025 to 2031. This growth is driven by increasing awareness of the advantages of laser technology in manufacturing, prompting tech companies to focus on integrating advanced technologies to create sophisticated laser processing equipment. Additionally, supportive government initiatives are further fueling demand for laser processing technologies across Europe. In February 2025, the European Commission organized the Artificial Intelligence (AI) Action Summit in Paris, which launched the InvestAI initiative aimed at mobilizing approximately US\$ 224.94 billion in investments for AI technology. This initiative also secured an investment of US\$ 22.49 billion from a new European fund dedicated to developing AI gigafactories. The funds are intended to advance AI technology across various sectors, including manufacturing, robotics, health, biotech, mobility, climate, and virtual technology. The integration of AI into laser processing presents significant opportunities for market players to develop platforms that enhance laser processing capabilities.

For example, in April 2025, TRUMPF SE + Co. KG introduced the "Cutting Assistant"

application, which utilizes AI to help customers improve the quality of their laser-cut edges. This innovative application allows production workers to photograph the cut edges of components using a hand scanner. The solution evaluates edge quality based on objective criteria, such as burr formation, and suggests optimized cutting parameters. If the quality does not meet expectations, users can repeat the operation, thereby enhancing the overall production process.

As industries increasingly invest in advanced laser technologies to boost production efficiency and minimize material waste, there is a growing demand for AI-integrated laser processing equipment. The incorporation of AI and machine learning (ML) into laser processing enables industries to meet the evolving demands for high-performance fabrication, precision manufacturing, automation, and smart factory solutions, thereby propelling market growth in Europe.

The Europe Laser Processing Market can be segmented by type, configuration, and industry. By type, the market includes Fiber Lasers, Gas Lasers, Solid Lasers, and others, with Fiber Lasers holding the largest market share in 2024. In terms of configuration, the market is divided into Fixed Beam, Moving Beam, and Hybrid, with Hybrid configurations leading in market share. By industry, the segments include Machine Tools, Automotive, Electronics and Microelectronics, Medical, Aerospace, and others, with the Automotive sector dominating the market in 2024.

As the Fourth Industrial Revolution progresses, machine and production lines are becoming increasingly networked and digitalized, leading to a significant increase in product-related data volumes. This surge in data presents vast opportunities for enhancing quality assurance and optimizing production processes. The Fraunhofer Institute for Laser Technology ILT is leveraging AI and ML algorithms to capitalize on laser material processing. They are developing software modules that create comprehensive process fingerprints, allowing for real-time AI-based quality monitoring. For instance, high-speed thermal imaging can capture detailed interactions during laser welding, and when combined with ML technologies, it can identify process flaws effectively.

AI not only enhances the efficiency of laser material machining but also improves precision by continuously identifying factors that lead to process deviations. Machine learning algorithms can optimize corrective strategies based on real-world measurements, ensuring consistent performance. In May 2025, Gasparini Industries S.r.l. launched the X-Fiber laser machine at LAMIERA 2025, which integrates AI technology to optimize sheet metal processing. This machine automatically checks and corrects bending parameters to achieve precise angles, thereby minimizing downtime and enhancing productivity.

Geographically, the Europe Laser Processing Market is segmented into Germany, France, the United Kingdom, Italy, Russia, and the Rest of Europe, with Germany

holding the largest market share in 2024. The growth of the laser processing market in Germany is attributed to the rising demand for additive manufacturing techniques, technological advancements, and the integration of AI in next-generation manufacturing processes. For instance, in April 2025, SCANLAB GmbH partnered with 1000 Kelvin GmbH to develop the AMAIZE Physics-AI platform for additive manufacturing, which enhances the quality and properties of materials produced through laser-based methods.

Key players in the Europe Laser Processing Market include TE Connectivity Ltd, Mitsubishi Electric Corp, IPG Photonics Corporation, TRUMPF SE + Co KG, Lumentum Holdings Inc, Jenoptik AG, Coherent Corp, Fives SAS, Han's Laser Technology Industry Group Co. Ltd, and LaserStar Technologies Corporation. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to their customers.

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