

# **North America 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 North America Laser Processing Market is projected to grow significantly, reaching an estimated US\$ 3,141.8 million by 2031, up from US\$ 1,812.0 million in 2024, reflecting a compound annual growth rate (CAGR) of 8.3% from 2025 to 2031. This growth is primarily driven by the expanding automotive sector and the increasing production of vehicles across the region, which includes the United States, Canada, and Mexico.

The automotive industry in North America is undergoing a transformation with the rising adoption of various vehicle types, including internal combustion engine (ICE) vehicles, battery electric vehicles (BEV), hybrid electric vehicles (HEV), and plug-in hybrid electric vehicles (PHEV). This shift is prompting automotive manufacturers to incorporate advanced laser processing techniques to enhance production efficiency and meet the growing demand for vehicles. According to data from the Federal Reserve Bank of Chicago, light vehicle production in 2023 reached 10,311 units in the US, 1,533 units in Canada, and 3,804 units in Mexico, with respective market shares of 65.9%, 24.3%, and 9.8%.

The demand for electric vehicles (EVs) is also on the rise, with manufacturers investing approximately US\$ 199 billion in the sector, marking a 63% increase over the past nine

years. The US alone accounted for 36% of all vehicle sales in 2023 and plans to ramp up EV production to about 5.8 million units annually by 2027. This surge in vehicle production, particularly in the EV segment, is driving the adoption of laser processing technologies, which are essential for producing customized automotive components. Laser processing offers numerous advantages to the automotive industry, including high-speed, contactless operations such as cutting, welding, labeling, and surface treatment. These processes are crucial for the manufacturing of electric vehicles, which often utilize lightweight materials like high-strength steels and aluminum alloys to improve fuel efficiency. The integration of complex components, such as battery systems in EVs, further necessitates the use of advanced laser processing techniques.

The North America Laser Processing Market is 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. The industry segmentation includes Machine Tools, Automotive, Electronics and Microelectronics, Medical, Aerospace, and others, where the Automotive sector is the largest contributor.

The increasing demand for precision manufacturing and advanced technological solutions across various industries, including aerospace, automotive, electronics, and medical, is propelling market growth. These sectors require high accuracy and efficiency in processing technologies, which laser systems provide through their unmatched speed and non-contact capabilities. Companies are investing in laser-based solutions, including ultrafast, fiber, and CO2 lasers, to enhance operational efficiency and minimize waste.

Innovations in laser technology are also on the rise. For instance, a recent breakthrough by the American Committee for the Weizmann Institute of Science demonstrated how lasers can alter material properties, potentially revolutionizing ultrafast communications and computing. This advancement could significantly enhance data transmission and processing speeds, further driving the demand for laser processing technologies.

In terms of country-specific insights, the United States dominates the North America Laser Processing Market, driven by the booming electronics and semiconductor industries. The high adoption rate of smartphones, projected to reach 89% by 2030, necessitates advanced laser processing for manufacturing components like display panels and camera modules. Laser techniques such as cutting, drilling, and welding are essential for creating reliable and compact electronic devices, thereby increasing the demand for laser processing in the US.

Key players in the North America 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 actively pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer cutting-edge solutions to their customers.

## Contents

### **1. INTRODUCTION**

- 1.1 Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Secondary Research
- 3.2 Primary Research
  - 3.2.1 Hypothesis formulation:
  - 3.2.2 Macroeconomic factor analysis:
  - 3.2.3 Developing base number:
  - 3.2.4 Data Triangulation:
  - 3.2.5 Country-level data:

### **4. LASER PROCESSING MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Ecosystem Analysis
  - 4.2.1 List of Vendors in the Value Chain

### **5. NORTH AMERICA LASER PROCESSING MARKET - KEY MARKET DYNAMICS**

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

### **6. LASER PROCESSING MARKET - NORTH AMERICA MARKET ANALYSIS**

- 6.1 North America Laser Processing Market Revenue (US\$ Million), 2024 - 2031

*North America Laser Processing Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Oppor...*

## 6.2 North America Laser Processing Market Forecast and Analysis

### **7. NORTH AMERICA LASER PROCESSING MARKET REVENUE ANALYSIS - BY TYPE**

#### 7.1 Fiber Lasers

##### 7.1.1 Overview

7.1.2 Fiber Lasers: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

#### 7.2 Gas Lasers

##### 7.2.1 Overview

7.2.2 Gas Lasers: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

#### 7.3 Solid Lasers

##### 7.3.1 Overview

7.3.2 Solid Lasers: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

#### 7.4 Others

##### 7.4.1 Overview

7.4.2 Others: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### **8. NORTH AMERICA LASER PROCESSING MARKET REVENUE ANALYSIS - BY CONFIGURATION**

#### 8.1 Fixed Beam

##### 8.1.1 Overview

8.1.2 Fixed Beam: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

#### 8.2 Moving Beam

##### 8.2.1 Overview

8.2.2 Moving Beam: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

#### 8.3 Hybrid

##### 8.3.1 Overview

8.3.2 Hybrid: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### **9. NORTH AMERICA LASER PROCESSING MARKET REVENUE ANALYSIS - BY**

## **INDUSTRY**

### 9.1 Machine Tools

#### 9.1.1 Overview

#### 9.1.2 Machine Tools: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### 9.2 Automotive

#### 9.2.1 Overview

#### 9.2.2 Automotive: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### 9.3 Electronics and Microelectronics

#### 9.3.1 Overview

#### 9.3.2 Electronics and Microelectronics: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### 9.4 Medical

#### 9.4.1 Overview

#### 9.4.2 Medical: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### 9.5 Aerospace

#### 9.5.1 Overview

#### 9.5.2 Aerospace: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

### 9.6 Others

#### 9.6.1 Overview

#### 9.6.2 Others: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

## **10. NORTH AMERICA LASER PROCESSING MARKET - COUNTRY ANALYSIS**

### 10.1 North America

#### 10.1.1 North America Laser Processing Market Revenue and Forecast and Analysis - by Country

##### 10.1.1.1 North America Laser Processing Market Revenue and Forecast and Analysis - by Country

##### 10.1.2.2 United States: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

###### 10.1.2.2.1 United States: North America Laser Processing Market Share - by Type

###### 10.1.2.2.2 United States: North America Laser Processing Market Share - by Configuration

10.1.2.2.3 United States: North America Laser Processing Market Share - by Industry

10.2.3.3 Canada: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.2.3.3.1 Canada: North America Laser Processing Market Share - by Type

10.2.3.3.2 Canada: North America Laser Processing Market Share - by Configuration

10.2.3.3.3 Canada: North America Laser Processing Market Share - by Industry

10.3.4.4 Mexico: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.3.4.4.1 Mexico: North America Laser Processing Market Share - by Type

10.3.4.4.2 Mexico: North America Laser Processing Market Share - by Configuration

10.3.4.4.3 Mexico: North America Laser Processing Market Share - by Industry

## **11 COMPETITIVE LANDSCAPE**

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning & Concentration

## **12 INDUSTRY LANDSCAPE**

12.1 Overview

12.2 New Product Development

12.3 Merger and Acquisition

12.4 Other Strategic Developments

## **13 COMPANY PROFILES**

13.1 TE Connectivity Ltd

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

13.1.6 Key Developments

13.2 Mitsubishi Electric Corp

13.2.1 Key Facts

13.2.2 Business Description

13.2.3 Products and Services

- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments
- 13.3 IPG Photonics Corporation
  - 13.3.1 Key Facts
  - 13.3.2 Business Description
  - 13.3.3 Products and Services
  - 13.3.4 Financial Overview
  - 13.3.5 SWOT Analysis
  - 13.3.6 Key Developments
- 13.4 TRUMPF SE + Co KG
  - 13.4.1 Key Facts
  - 13.4.2 Business Description
  - 13.4.3 Products and Services
  - 13.4.4 Financial Overview
  - 13.4.5 SWOT Analysis
  - 13.4.6 Key Developments
- 13.5 Lumentum Holdings Inc
  - 13.5.1 Key Facts
  - 13.5.2 Business Description
  - 13.5.3 Products and Services
  - 13.5.4 Financial Overview
  - 13.5.5 SWOT Analysis
  - 13.5.6 Key Developments
- 13.6 Jenoptik AG
  - 13.6.1 Key Facts
  - 13.6.2 Business Description
  - 13.6.3 Products and Services
  - 13.6.4 Financial Overview
  - 13.6.5 SWOT Analysis
  - 13.6.6 Key Developments
- 13.7 Coherent Corp
  - 13.7.1 Key Facts
  - 13.7.2 Business Description
  - 13.7.3 Products and Services
  - 13.7.4 Financial Overview
  - 13.7.5 SWOT Analysis
  - 13.7.6 Key Developments
- 13.8 Fives SAS

- 13.8.1 Key Facts
- 13.8.2 Business Description
- 13.8.3 Products and Services
- 13.8.4 Financial Overview
- 13.8.5 SWOT Analysis
- 13.8.6 Key Developments
- 13.9 Han's Laser Technology Industry Group Co. Ltd
  - 13.9.1 Key Facts
  - 13.9.2 Business Description
  - 13.9.3 Products and Services
  - 13.9.4 Financial Overview
  - 13.9.5 SWOT Analysis
  - 13.9.6 Key Developments
- 13.10 LaserStar Technologies Corporation
  - 13.10.1 Key Facts
  - 13.10.2 Business Description
  - 13.10.3 Products and Services
  - 13.10.4 Financial Overview
  - 13.10.5 SWOT Analysis
  - 13.10.6 Key Developments

## **14. APPENDIX**

- 14.1 About The Insight Partners

## List Of Tables

### LIST OF TABLES

Table 1. North America Laser Processing Market Segmentation

Table 2. List of Vendors

Table 3. North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Table 4. North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 5. North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Configuration

Table 6. North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 7. North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country

Table 8. United States: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 9. United States: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Configuration

Table 10. United States: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 11. Canada: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 12. Canada: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Configuration

Table 13. Canada: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 14. Mexico: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 15. Mexico: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Configuration

Table 16. Mexico: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 17. Heat Map Analysis by Key Players

## List Of Figures

### LIST OF FIGURES

- Figure 1. North America Laser Processing Market Segmentation - Country
- Figure 3. Ecosystem: Laser Processing Market
- Figure 4. North America Laser Processing Market - Key Market Dynamics
- Figure 5. Impact Analysis of Drivers and Restraints
- Figure 6. North America Laser Processing Market Revenue (US\$ Million), 2024 - 2031
- Figure 7. North America Laser Processing Market Share (%) - by Type, 2024 and 2031
- Figure 8. Fiber Lasers: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 9. Gas Lasers: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 10. Solid Lasers: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 11. Others: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 12. North America Laser Processing Market Share (%) - by Configuration, 2024 and 2031
- Figure 13. Fixed Beam: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 14. Moving Beam: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 15. Hybrid: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 16. North America Laser Processing Market Share (%) - by Industry, 2024 and 2031
- Figure 17. Machine Tools: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 18. Automotive: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 19. Electronics and Microelectronics: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 20. Medical: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 21. Aerospace: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 22. Others: North America Laser Processing Market - Revenue and Forecast,

2021 - 2031 (US\$ Million)

Figure 23. North America Laser Processing Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 24. United States: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 25. Canada: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 26. Mexico: North America Laser Processing Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. Company Positioning & Concentration

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