

Global Laser Notching and Winding Machine Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Laser Notching and Winding Machine competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A Laser Notching and Winding Machine is a specialized, integrated automated equipment primarily used in the manufacturing of lithium-ion battery cells (especially cylindrical or pouch cells) to streamline two critical pre-winding processes: precision laser notching of electrode sheets and subsequent winding of the notched electrodes with separators into battery cores. Equipped with vision inspection systems to verify notch accuracy and winding consistency, and PLC-based central control to synchronize laser notching and winding workflows, this machine eliminates the need for separate notching and winding equipment, reduces production line space, minimizes manual transfer errors, and ensures the mechanical and electrochemical reliability of battery cores, making it essential for high-volume, high-quality lithium-ion battery production, particularly for power batteries in electric vehicles and high-performance consumer electronics. In 2024, global Laser Notching and Winding Machine production reached approximately 25,104 units, with an average global market price of around US\$ 19,200 per unit. The single-line production capacity of Laser Notching and Winding Machine is 1,860 units per year, the average gross profit margin was 25%. The upstream of the Laser Notching and Winding Machine supply chain primarily comprises suppliers of core components, raw materials, and key technologies that determine the machine's precision, efficiency, and reliability: this includes manufacturers of high-performance laser systems (such as fiber laser modules with stable output power, essential for clean, burr-free electrode notching), precision mechanical parts (e.g., high-hardness winding needles, servo motors for controlling winding speed and tension, and linear guides for accurate wafer/electrode positioning), electronic and control

components (PLC systems for synchronizing notching and winding workflows, CCD vision sensors for real-time notch inspection, and motion controllers for precise mechanical movement), and specialized materials (like heat-resistant alloys for laser nozzles, wear-resistant coatings for winding parts, and insulating materials for internal wiring). Additionally, upstream involves software developers who create algorithms for laser path planning, tension control, and defect detection, as well as suppliers of auxiliary equipment (e.g., dust extraction systems for laser cutting waste and cooling systems for laser modules) and raw material providers for electrode sheets/separators (indirectly supporting the machine's application by ensuring stable input of processed materials). The downstream centers on lithium-ion battery manufacturers?including power battery producers (focused on EVs, such as 4680 cylindrical or square cells), consumer battery makers (supplying cells for smartphones, laptops), and energy storage battery manufacturers?who integrate these machines into their mid-stream production lines to process electrode sheets into wound battery cores. Further downstream, these battery cores are assembled into finished batteries and supplied to end-use industries: EV manufacturers (for vehicle power systems), consumer electronics brands (for portable devices), and energy storage companies (for grid or industrial storage). Downstream also includes after-sales service providers (offering machine maintenance, laser module replacement, and software upgrades) and equipment recyclers (recovering reusable components like servo motors), while downstream demand for higher-speed, more precise notching/winding (driven by EV battery efficiency upgrades) pushes upstream suppliers to enhance laser accuracy, optimize mechanical wear resistance, and integrate intelligent features like AI-based defect prediction.

The global Laser Notching and Winding Machine market size was estimated at USD 482.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Laser Notching and Winding Machine market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Laser Notching and Winding Machine market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Laser Notching and Winding Machine market.

Global Laser Notching and Winding Machine Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Hymson Laser Technology
Greensun Technology
Han's Laser Technology
Yinghe Technology Co., Ltd.
Zhuhai Higrand Technology
JieRuiSi Intelligent Technology
Xiamen TOB New Energy Technology Co., Ltd.
Wuxi Lead Intelligent Equipment
Zhongyuda

Market Segmentation (by Type)

Cylindrical Cell Notching and Winding Machine
Square Cell Notching and Winding Machine

Market Segmentation (by Application)

Power Battery Production
Energy - storage Battery Production
Consumer Battery Production

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Laser Notching and Winding Machine Market
Overview of the regional outlook of the Laser Notching and Winding Machine Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Laser Notching and Winding Machine Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Laser Notching and Winding Machine, their output value, profit level, regional supply, production capacity layout, etc.

from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major

players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Laser Notching and Winding Machine
- 1.2 Key Market Segments
 - 1.2.1 Laser Notching and Winding Machine Segment by Type
 - 1.2.2 Laser Notching and Winding Machine Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 LASER NOTCHING AND WINDING MACHINE MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Laser Notching and Winding Machine Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Laser Notching and Winding Machine Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 LASER NOTCHING AND WINDING MACHINE MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Laser Notching and Winding Machine Product Life Cycle
- 3.3 Global Laser Notching and Winding Machine Sales by Manufacturers (2020-2025)
- 3.4 Global Laser Notching and Winding Machine Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Laser Notching and Winding Machine Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Laser Notching and Winding Machine Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Laser Notching and Winding Machine Market Competitive Situation and Trends

- 3.8.1 Laser Notching and Winding Machine Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Laser Notching and Winding Machine Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 LASER NOTCHING AND WINDING MACHINE INDUSTRY CHAIN ANALYSIS

- 4.1 Laser Notching and Winding Machine Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF LASER NOTCHING AND WINDING MACHINE MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Laser Notching and Winding Machine Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Laser Notching and Winding Machine Market
- 5.7 ESG Ratings of Leading Companies

6 LASER NOTCHING AND WINDING MACHINE MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Laser Notching and Winding Machine Sales Market Share by Type (2020-2025)

6.3 Global Laser Notching and Winding Machine Market Size by Type (2020-2025)

6.4 Global Laser Notching and Winding Machine Price by Type (2020-2025)

7 LASER NOTCHING AND WINDING MACHINE MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Laser Notching and Winding Machine Market Sales by Application (2020-2025)

7.3 Global Laser Notching and Winding Machine Market Size (M USD) by Application (2020-2025)

7.4 Global Laser Notching and Winding Machine Sales Growth Rate by Application (2020-2025)

8 LASER NOTCHING AND WINDING MACHINE MARKET SALES BY REGION

8.1 Global Laser Notching and Winding Machine Sales by Region

8.1.1 Global Laser Notching and Winding Machine Sales by Region

8.1.2 Global Laser Notching and Winding Machine Sales Market Share by Region

8.2 Global Laser Notching and Winding Machine Market Size by Region

8.2.1 Global Laser Notching and Winding Machine Market Size by Region

8.2.2 Global Laser Notching and Winding Machine Market Size by Region

8.3 North America

8.3.1 North America Laser Notching and Winding Machine Sales by Country

8.3.2 North America Laser Notching and Winding Machine Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Laser Notching and Winding Machine Sales by Country

8.4.2 Europe Laser Notching and Winding Machine Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Laser Notching and Winding Machine Sales by Region
- 8.5.2 Asia Pacific Laser Notching and Winding Machine Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Laser Notching and Winding Machine Sales by Country
 - 8.6.2 South America Laser Notching and Winding Machine Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Laser Notching and Winding Machine Sales by Region
 - 8.7.2 Middle East and Africa Laser Notching and Winding Machine Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 LASER NOTCHING AND WINDING MACHINE MARKET PRODUCTION BY REGION

- 9.1 Global Production of Laser Notching and Winding Machine by Region(2020-2025)
- 9.2 Global Laser Notching and Winding Machine Revenue Market Share by Region (2020-2025)
- 9.3 Global Laser Notching and Winding Machine Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Laser Notching and Winding Machine Production
 - 9.4.1 North America Laser Notching and Winding Machine Production Growth Rate (2020-2025)
 - 9.4.2 North America Laser Notching and Winding Machine Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Laser Notching and Winding Machine Production
 - 9.5.1 Europe Laser Notching and Winding Machine Production Growth Rate (2020-2025)

9.5.2 Europe Laser Notching and Winding Machine Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Laser Notching and Winding Machine Production (2020-2025)

9.6.1 Japan Laser Notching and Winding Machine Production Growth Rate (2020-2025)

9.6.2 Japan Laser Notching and Winding Machine Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Laser Notching and Winding Machine Production (2020-2025)

9.7.1 China Laser Notching and Winding Machine Production Growth Rate (2020-2025)

9.7.2 China Laser Notching and Winding Machine Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Hymson Laser Technology

10.1.1 Hymson Laser Technology Basic Information

10.1.2 Hymson Laser Technology Laser Notching and Winding Machine Product Overview

10.1.3 Hymson Laser Technology Laser Notching and Winding Machine Product Market Performance

10.1.4 Hymson Laser Technology Business Overview

10.1.5 Hymson Laser Technology SWOT Analysis

10.1.6 Hymson Laser Technology Recent Developments

10.2 Greensun Technology

10.2.1 Greensun Technology Basic Information

10.2.2 Greensun Technology Laser Notching and Winding Machine Product Overview

10.2.3 Greensun Technology Laser Notching and Winding Machine Product Market Performance

10.2.4 Greensun Technology Business Overview

10.2.5 Greensun Technology SWOT Analysis

10.2.6 Greensun Technology Recent Developments

10.3 Han's Laser Technology

10.3.1 Han's Laser Technology Basic Information

10.3.2 Han's Laser Technology Laser Notching and Winding Machine Product Overview

10.3.3 Han's Laser Technology Laser Notching and Winding Machine Product Market Performance

10.3.4 Han's Laser Technology Business Overview

- 10.3.5 Han's Laser Technology SWOT Analysis
- 10.3.6 Han's Laser Technology Recent Developments
- 10.4 Yinghe Technology Co., Ltd.
 - 10.4.1 Yinghe Technology Co., Ltd. Basic Information
 - 10.4.2 Yinghe Technology Co., Ltd. Laser Notching and Winding Machine Product Overview
 - 10.4.3 Yinghe Technology Co., Ltd. Laser Notching and Winding Machine Product Market Performance
 - 10.4.4 Yinghe Technology Co., Ltd. Business Overview
 - 10.4.5 Yinghe Technology Co., Ltd. Recent Developments
- 10.5 Zhuhai Higrand Technology
 - 10.5.1 Zhuhai Higrand Technology Basic Information
 - 10.5.2 Zhuhai Higrand Technology Laser Notching and Winding Machine Product Overview
 - 10.5.3 Zhuhai Higrand Technology Laser Notching and Winding Machine Product Market Performance
 - 10.5.4 Zhuhai Higrand Technology Business Overview
 - 10.5.5 Zhuhai Higrand Technology Recent Developments
- 10.6 JieRuiSi Intelligent Technology
 - 10.6.1 JieRuiSi Intelligent Technology Basic Information
 - 10.6.2 JieRuiSi Intelligent Technology Laser Notching and Winding Machine Product Overview
 - 10.6.3 JieRuiSi Intelligent Technology Laser Notching and Winding Machine Product Market Performance
 - 10.6.4 JieRuiSi Intelligent Technology Business Overview
 - 10.6.5 JieRuiSi Intelligent Technology Recent Developments
- 10.7 Xiamen TOB New Energy Technology Co., Ltd.
 - 10.7.1 Xiamen TOB New Energy Technology Co., Ltd. Basic Information
 - 10.7.2 Xiamen TOB New Energy Technology Co., Ltd. Laser Notching and Winding Machine Product Overview
 - 10.7.3 Xiamen TOB New Energy Technology Co., Ltd. Laser Notching and Winding Machine Product Market Performance
 - 10.7.4 Xiamen TOB New Energy Technology Co., Ltd. Business Overview
 - 10.7.5 Xiamen TOB New Energy Technology Co., Ltd. Recent Developments
- 10.8 Wuxi Lead Intelligent Equipment
 - 10.8.1 Wuxi Lead Intelligent Equipment Basic Information
 - 10.8.2 Wuxi Lead Intelligent Equipment Laser Notching and Winding Machine Product Overview
 - 10.8.3 Wuxi Lead Intelligent Equipment Laser Notching and Winding Machine Product

Market Performance

- 10.8.4 Wuxi Lead Intelligent Equipment Business Overview
- 10.8.5 Wuxi Lead Intelligent Equipment Recent Developments

10.9 Zhongyuda

- 10.9.1 Zhongyuda Basic Information
- 10.9.2 Zhongyuda Laser Notching and Winding Machine Product Overview
- 10.9.3 Zhongyuda Laser Notching and Winding Machine Product Market Performance
- 10.9.4 Zhongyuda Business Overview
- 10.9.5 Zhongyuda Recent Developments

11 LASER NOTCHING AND WINDING MACHINE MARKET FORECAST BY REGION

11.1 Global Laser Notching and Winding Machine Market Size Forecast

11.2 Global Laser Notching and Winding Machine Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Laser Notching and Winding Machine Market Size Forecast by Country

11.2.3 Asia Pacific Laser Notching and Winding Machine Market Size Forecast by

Region

11.2.4 South America Laser Notching and Winding Machine Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Laser Notching and Winding Machine by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Laser Notching and Winding Machine Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Laser Notching and Winding Machine by Type (2026-2035)

12.1.2 Global Laser Notching and Winding Machine Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Laser Notching and Winding Machine by Type (2026-2035)

12.2 Global Laser Notching and Winding Machine Market Forecast by Application (2026-2035)

12.2.1 Global Laser Notching and Winding Machine Sales (K Units) Forecast by Application

12.2.2 Global Laser Notching and Winding Machine Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Laser Notching and Winding Machine Market Size by Type (M USD)

Table 4. Global Laser Notching and Winding Machine Market Size by Application

Table 5. Laser Notching and Winding Machine Market Size Comparison by Region (M USD)

Table 6. Global Laser Notching and Winding Machine Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Laser Notching and Winding Machine Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Laser Notching and Winding Machine Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Laser Notching and Winding Machine Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Laser Notching and Winding Machine as of 2025)

Table 11. Global Market Laser Notching and Winding Machine Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Laser Notching and Winding Machine Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Laser Notching and Winding Machine Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Laser Notching and Winding Machine Sales by Type (K Units)

Table 27. Global Laser Notching and Winding Machine Market Size by Type (M USD)

Table 28. Global Laser Notching and Winding Machine Sales (K Units) by Type (2020-2025)

Table 29. Global Laser Notching and Winding Machine Sales Market Share by Type (2020-2025)

Table 30. Global Laser Notching and Winding Machine Market Size (M USD) by Type (2020-2025)

Table 31. Global Laser Notching and Winding Machine Market Share by Type (2020-2025)

Table 32. Global Laser Notching and Winding Machine Price (USD/Unit) by Type (2020-2025)

Table 33. Global Laser Notching and Winding Machine Sales (K Units) by Application

Table 34. Global Laser Notching and Winding Machine Market Size by Application

Table 35. Global Laser Notching and Winding Machine Sales by Application (2020-2025) & (K Units)

Table 36. Global Laser Notching and Winding Machine Sales Market Share by Application (2020-2025)

Table 37. Global Laser Notching and Winding Machine Market Size by Application (2020-2025) & (M USD)

Table 38. Global Laser Notching and Winding Machine Market Share by Application (2020-2025)

Table 39. Global Laser Notching and Winding Machine Sales Growth Rate by Application (2020-2025)

Table 40. Global Laser Notching and Winding Machine Sales by Region (2020-2025) & (K Units)

Table 41. Global Laser Notching and Winding Machine Sales Market Share by Region (2020-2025)

Table 42. Global Laser Notching and Winding Machine Market Size by Region (2020-2025) & (M USD)

Table 43. Global Laser Notching and Winding Machine Market Size by Region (2020-2025)

Table 44. North America Laser Notching and Winding Machine Sales by Country (2020-2025) & (K Units)

Table 45. North America Laser Notching and Winding Machine Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Laser Notching and Winding Machine Sales by Country (2020-2025) & (K Units)

Table 47. Europe Laser Notching and Winding Machine Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Laser Notching and Winding Machine Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Laser Notching and Winding Machine Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Laser Notching and Winding Machine Sales by Country (2020-2025) & (K Units)
- Table 51. South America Laser Notching and Winding Machine Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Laser Notching and Winding Machine Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Laser Notching and Winding Machine Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Laser Notching and Winding Machine Production (K Units) by Region(2020-2025)
- Table 55. Global Laser Notching and Winding Machine Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Laser Notching and Winding Machine Revenue Market Share by Region (2020-2025)
- Table 57. Global Laser Notching and Winding Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Laser Notching and Winding Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Laser Notching and Winding Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Laser Notching and Winding Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Laser Notching and Winding Machine Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Hymson Laser Technology Basic Information
- Table 63. Hymson Laser Technology Laser Notching and Winding Machine Product Overview
- Table 64. Hymson Laser Technology Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Hymson Laser Technology Business Overview
- Table 66. Hymson Laser Technology SWOT Analysis
- Table 67. Hymson Laser Technology Recent Developments
- Table 68. Greensun Technology Basic Information
- Table 69. Greensun Technology Laser Notching and Winding Machine Product Overview

- Table 70. Greensun Technology Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Greensun Technology Business Overview
- Table 72. Greensun Technology SWOT Analysis
- Table 73. Greensun Technology Recent Developments
- Table 74. Han's Laser Technology Basic Information
- Table 75. Han's Laser Technology Laser Notching and Winding Machine Product Overview
- Table 76. Han's Laser Technology Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Han's Laser Technology Business Overview
- Table 78. Han's Laser Technology SWOT Analysis
- Table 79. Han's Laser Technology Recent Developments
- Table 80. Yinghe Technology Co., Ltd. Basic Information
- Table 81. Yinghe Technology Co., Ltd. Laser Notching and Winding Machine Product Overview
- Table 82. Yinghe Technology Co., Ltd. Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Yinghe Technology Co., Ltd. Business Overview
- Table 84. Yinghe Technology Co., Ltd. Recent Developments
- Table 85. Zhuhai Higrand Technology Basic Information
- Table 86. Zhuhai Higrand Technology Laser Notching and Winding Machine Product Overview
- Table 87. Zhuhai Higrand Technology Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Zhuhai Higrand Technology Business Overview
- Table 89. Zhuhai Higrand Technology Recent Developments
- Table 90. JieRuiSi Intelligent Technology Basic Information
- Table 91. JieRuiSi Intelligent Technology Laser Notching and Winding Machine Product Overview
- Table 92. JieRuiSi Intelligent Technology Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. JieRuiSi Intelligent Technology Business Overview
- Table 94. JieRuiSi Intelligent Technology Recent Developments
- Table 95. Xiamen TOB New Energy Technology Co., Ltd. Basic Information
- Table 96. Xiamen TOB New Energy Technology Co., Ltd. Laser Notching and Winding Machine Product Overview
- Table 97. Xiamen TOB New Energy Technology Co., Ltd. Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin

(2020-2025)

Table 98. Xiamen TOB New Energy Technology Co., Ltd. Business Overview

Table 99. Xiamen TOB New Energy Technology Co., Ltd. Recent Developments

Table 100. Wuxi Lead Intelligent Equipment Basic Information

Table 101. Wuxi Lead Intelligent Equipment Laser Notching and Winding Machine Product Overview

Table 102. Wuxi Lead Intelligent Equipment Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Wuxi Lead Intelligent Equipment Business Overview

Table 104. Wuxi Lead Intelligent Equipment Recent Developments

Table 105. Zhongyuda Basic Information

Table 106. Zhongyuda Laser Notching and Winding Machine Product Overview

Table 107. Zhongyuda Laser Notching and Winding Machine Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Zhongyuda Business Overview

Table 109. Zhongyuda Recent Developments

Table 110. Global Laser Notching and Winding Machine Sales Forecast by Region (2026-2035) & (K Units)

Table 111. Global Laser Notching and Winding Machine Market Size Forecast by Region (2026-2035) & (M USD)

Table 112. North America Laser Notching and Winding Machine Sales Forecast by Country (2026-2035) & (K Units)

Table 113. North America Laser Notching and Winding Machine Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Europe Laser Notching and Winding Machine Sales Forecast by Country (2026-2035) & (K Units)

Table 115. Europe Laser Notching and Winding Machine Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific Laser Notching and Winding Machine Sales Forecast by Region (2026-2035) & (K Units)

Table 117. Asia Pacific Laser Notching and Winding Machine Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America Laser Notching and Winding Machine Sales Forecast by Country (2026-2035) & (K Units)

Table 119. South America Laser Notching and Winding Machine Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa Laser Notching and Winding Machine Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa Laser Notching and Winding Machine Market Size

Forecast by Country (2026-2035) & (M USD)

Table 122. Global Laser Notching and Winding Machine Sales Forecast by Type (2026-2035) & (K Units)

Table 123. Global Laser Notching and Winding Machine Market Size Forecast by Type (2026-2035) & (M USD)

Table 124. Global Laser Notching and Winding Machine Price Forecast by Type (2026-2035) & (USD/Unit)

Table 125. Global Laser Notching and Winding Machine Sales (K Units) Forecast by Application (2026-2035)

Table 126. Global Laser Notching and Winding Machine Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Laser Notching and Winding Machine
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Laser Notching and Winding Machine Market Size (M USD), 2025-2035
- Figure 5. Global Laser Notching and Winding Machine Market Size (M USD) (2020-2035)
- Figure 6. Global Laser Notching and Winding Machine Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Laser Notching and Winding Machine Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Laser Notching and Winding Machine Product Life Cycle
- Figure 13. Laser Notching and Winding Machine Sales Share by Manufacturers in 2025
- Figure 14. Global Laser Notching and Winding Machine Revenue Share by Manufacturers in 2025
- Figure 15. Laser Notching and Winding Machine Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Laser Notching and Winding Machine Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Laser Notching and Winding Machine Revenue in 2025
- Figure 18. Industry Chain Map of Laser Notching and Winding Machine
- Figure 19. Global Laser Notching and Winding Machine Market PEST Analysis
- Figure 20. Global Laser Notching and Winding Machine Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Laser Notching and Winding Machine Market Share by Type
- Figure 27. Sales Market Share of Laser Notching and Winding Machine by Type (2020-2025)

Figure 28. Sales Market Share of Laser Notching and Winding Machine by Type in 2025

Figure 29. Market Share of Laser Notching and Winding Machine by Type (2020-2025)

Figure 30. Market Share of Laser Notching and Winding Machine by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Laser Notching and Winding Machine Market Share by Application

Figure 33. Global Laser Notching and Winding Machine Sales Market Share by Application (2020-2025)

Figure 34. Global Laser Notching and Winding Machine Sales Market Share by Application in 2025

Figure 35. Global Laser Notching and Winding Machine Market Share by Application (2020-2025)

Figure 36. Global Laser Notching and Winding Machine Market Share by Application in 2025

Figure 37. Global Laser Notching and Winding Machine Sales Growth Rate by Application (2020-2025)

Figure 38. Global Laser Notching and Winding Machine Sales Market Share by Region (2020-2025)

Figure 39. Global Laser Notching and Winding Machine Market Size by Region (2020-2025)

Figure 40. North America Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Laser Notching and Winding Machine Sales Market Share by Country in 2024

Figure 43. North America Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Laser Notching and Winding Machine Market Size by Country in 2024

Figure 45. U.S. Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Laser Notching and Winding Machine Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Laser Notching and Winding Machine Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Laser Notching and Winding Machine Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Laser Notching and Winding Machine Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Laser Notching and Winding Machine Sales Market Share by Country in 2024

Figure 53. Europe Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Laser Notching and Winding Machine Market Size by Country in 2024

Figure 55. Germany Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Laser Notching and Winding Machine Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Laser Notching and Winding Machine Sales Market Share by Region in 2024

Figure 67. Asia Pacific Laser Notching and Winding Machine Market Size by Region in 2024

Figure 68. China Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Laser Notching and Winding Machine Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 70. Japan Laser Notching and Winding Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 71. Japan Laser Notching and Winding Machine Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 72. South Korea Laser Notching and Winding Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 73. South Korea Laser Notching and Winding Machine Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 74. India Laser Notching and Winding Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 75. India Laser Notching and Winding Machine Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 76. Southeast Asia Laser Notching and Winding Machine Sales and Growth

Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Laser Notching and Winding Machine Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 78. South America Laser Notching and Winding Machine Sales and Growth Rate

(K Units)

Figure 79. South America Laser Notching and Winding Machine Sales Market Share by
Country in 2024

Figure 80. South America Laser Notching and Winding Machine Market Size and

Growth Rate (M USD)

Figure 81. South America Laser Notching and Winding Machine Market Size by Country
in 2024

Figure 82. Brazil Laser Notching and Winding Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 83. Brazil Laser Notching and Winding Machine Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 84. Argentina Laser Notching and Winding Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 85. Argentina Laser Notching and Winding Machine Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 86. Columbia Laser Notching and Winding Machine Sales and Growth Rate

(2020-2025) & (K Units)

Figure 87. Columbia Laser Notching and Winding Machine Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Laser Notching and Winding Machine Sales and

Growth Rate (K Units)

Figure 89. Middle East and Africa Laser Notching and Winding Machine Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Laser Notching and Winding Machine Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Laser Notching and Winding Machine Market Size by Region in 2024

Figure 92. Saudi Arabia Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Laser Notching and Winding Machine Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Laser Notching and Winding Machine Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Laser Notching and Winding Machine Production Market Share by Region (2020-2025)

Figure 103. North America Laser Notching and Winding Machine Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Laser Notching and Winding Machine Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Laser Notching and Winding Machine Production (K Units) Growth Rate (2020-2025)

Figure 106. China Laser Notching and Winding Machine Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Laser Notching and Winding Machine Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Laser Notching and Winding Machine Market Size Forecast by

Value (2020-2035) & (M USD)

Figure 109. Global Laser Notching and Winding Machine Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Laser Notching and Winding Machine Market Share Forecast by Type (2026-2035)

Figure 111. Global Laser Notching and Winding Machine Sales Forecast by Application (2026-2035)

Figure 112. Global Laser Notching and Winding Machine Market Share Forecast by Application (2026-2035)

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