

# Global Cylindrical Full-tab Lithium Battery Laser Welding Line Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Cylindrical Full-tab Lithium Battery Laser Welding Line market size was valued at US\$ 307 million in 2025 and is forecast to a readjusted size of US\$ 514 million by 2032 with a CAGR of 7.7% during review period.

Cylindrical full-tab lithium battery laser welding line is a laser welding equipment specifically designed for the manufacture of cylindrical full-tab lithium batteries. It utilizes a high-energy-density laser beam to precisely weld components such as tabs and terminals of the lithium battery to achieve internal electrical connections and sealing.

In the laser welding process, the laser welding line controls the direction and energy of the laser beam to irradiate the weld seam of the lithium battery. Because lithium batteries contain a large number of metallic elements, these elements melt and vaporize under laser irradiation, creating a high-temperature, high-pressure environment. When this environment reaches a certain level, the two weld seams in the lithium battery fuse together, forming a complete welded structure. The price of a cylindrical full-tab lithium battery laser welding line ranges from hundreds of thousands to millions of yuan, with customized requirements varying widely. The industry's gross profit margin can reach 20%-35%.

Market driving factors mainly include:

Technological iteration and performance upgrade needs. Traditional cylindrical batteries have limited charging and discharging efficiency due to the limited number of tabs. The all-tab design increases the conductive area, reducing the battery's internal resistance

by more than 50%, supporting ultra-fast charging technology above 5C. Leading companies have achieved mass production of all-tab batteries through laser welding lines, driving the industry towards higher energy density and higher safety.

**Forced Policy and Standard Upgrades:** The global goal of carbon neutrality is accelerating the penetration rate of new energy vehicles. China aims for new energy vehicle sales to account for 25% of total sales by 2025, forcing battery companies to adopt all-tab technology to improve range and safety. Meanwhile, the EU's Battery Regulation requires a 70% battery recycling rate by 2030, making all-tab batteries a preferred choice due to their simplified structure.

**Expanded Application Scenarios and Supply Chain Collaboration:** All-tab batteries not only serve new energy vehicles but also extend to low-altitude economies (such as electric aircraft) and energy storage systems. For example, Tesla's 4680 battery uses an all-tab design, enabling its Cybertruck pickup truck to achieve a 500km range; Hybo Innovation has built the world's first in-situ solid-state all-tab energy storage power station in Zhejiang, verifying its advantages in long lifespan (over 8000 cycles) and high safety (zero thermal runaway) scenarios. The upstream and downstream of the industry chain are accelerating technology implementation and market penetration through joint R&D (such as sharing welding process databases) and standardization.

This report is a detailed and comprehensive analysis for global Cylindrical Full-tab Lithium Battery Laser Welding Line market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Cylindrical Full-tab Lithium Battery Laser Welding Line market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Cylindrical Full-tab Lithium Battery Laser Welding Line market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Cylindrical Full-tab Lithium Battery Laser Welding Line market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Cylindrical Full-tab Lithium Battery Laser Welding Line market shares of main players, in revenue (\$ Million), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cylindrical Full-tab Lithium Battery Laser Welding Line

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cylindrical Full-tab Lithium Battery Laser Welding Line market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wuhan YIFI Laser Equipment Co., Ltd., Shenzhen Zhongji Automation, Fenghesheng Group (FHS), Lyric Robot, Lead Intelligent, Ruisheng New Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market segmentation**

Cylindrical Full-tab Lithium Battery Laser Welding Line market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Tailor Welding

Stitch Welding

### Market segment by Technology

Deep Penetration Welding Technology

Composite Welding Technology

### Market segment by Functional Category

High-Speed ??Welding Line

High-Precision Welding Line

### Market segment by Application

Large Cylindrical Battery

Small Cylindrical Battery

### Market segment by players, this report covers

Wuhan YIFI Laser Equipment Co., Ltd.

Shenzhen Zhongji Automation

Fenghesheng Group (FHS)

Lyric Robot

Lead Intelligent

Ruisheng New Energy

### Market segment by regions, regional analysis covers

*Global Cylindrical Full-tab Lithium Battery Laser Welding Line Market 2026 by Company, Regions, Type and Appli...*

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Cylindrical Full-tab Lithium Battery Laser Welding Line product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Cylindrical Full-tab Lithium Battery Laser Welding Line, with revenue, gross margin, and global market share of Cylindrical Full-tab Lithium Battery Laser Welding Line from 2021 to 2026.

Chapter 3, the Cylindrical Full-tab Lithium Battery Laser Welding Line competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Cylindrical Full-tab Lithium Battery Laser Welding Line market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Cylindrical Full-tab Lithium Battery Laser Welding Line.

Chapter 13, to describe Cylindrical Full-tab Lithium Battery Laser Welding Line research

findings and conclusion.

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