

Global Battery Tab Welding Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Battery Tab Welding Equipment market size was valued at US\$ 1364 million in 2025 and is forecast to a readjusted size of US\$ 2428 million by 2032 with a CAGR of 8.7% during review period.

Battery Tab Welding Equipment refers to automated, semi-automated, or laboratory welding equipment used to join battery tabs, electrode foils, current collectors, leads, adapters, protection plates, busbars, and terminals during lithium-ion battery cell manufacturing, module assembly, and battery pack production. These systems are mainly used to create low-resistance, mechanically stable, and repeatable electrical connections for cylindrical cells, prismatic cells, pouch cells, tabless cylindrical cells, solid-state batteries, sodium-ion batteries, and next-generation rechargeable batteries. In this report, the market mainly includes ultrasonic battery tab welding equipment, laser battery tab welding equipment, resistance battery tab welding equipment, micro-TIG tab welding equipment, tab pre-welding machines, tab final welding machines, tab-to-foil welding equipment, tab-to-terminal welding equipment, tab-to-busbar welding equipment, and integrated battery cell welding stations. The 2025 benchmark ASP is US\$68,000 / set, shipment volume is 19.50k sets, and average gross margin is 37%. The upstream industry chain includes ultrasonic generators, sonotrodes, laser sources, galvanometer scanners, welding heads, power supplies, fixtures, pressure modules, servo systems, motion control modules, CCD cameras, vision systems, sensors, cooling systems, safety enclosures, welding monitoring software, and industrial control components. The midstream includes welding process design, equipment integration, tooling design, parameter development, motion control programming, welding quality monitoring, cell fixture customization, automation debugging, safety validation, process verification, and production line integration. The downstream includes lithium-ion battery

cell manufacturers, EV battery manufacturers, energy storage battery manufacturers, consumer electronics battery producers, battery module and pack manufacturers, power tool battery producers, electric two-wheeler battery manufacturers, and battery R&D laboratories.

Battery tab welding equipment is becoming more important as battery manufacturers require lower contact resistance, higher welding consistency, faster production takt time, and better process traceability. Tab welding directly affects electrical conductivity, mechanical strength, heat generation, cycling stability, and overall battery pack reliability. Ultrasonic welding remains widely used for thin foil and tab joining, while laser welding is increasingly adopted for high-speed, precise, non-contact welding of tabs, busbars, and current-carrying components. Demand is supported by the expansion of electric vehicles, energy storage systems, cylindrical full-tab cells, high-power battery packs, solid-state battery pilot lines, and automated battery manufacturing lines. Product development is moving toward higher welding power, better dissimilar-metal joining capability, inline weld monitoring, closed-loop process control, lower spatter and particle generation, flexible fixture design, and deeper integration with battery cell and module assembly lines.

This report is a detailed and comprehensive analysis for global Battery Tab Welding Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Battery Tab Welding Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Tab Welding Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Tab Welding Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Tab Welding Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 Battery Tab Welding Equipment

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 Battery Tab Welding Equipment market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Emerson Branson, Schunk Sonosystems, Herrmann Ultraschall, Telsonic, AMADA WELD TECH, Manz, RAYLASE, Avio / Nippon Avionics, Wuxi Lead Intelligent Equipment, Shenzhen United Winners Laser, etc.

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

Market Segmentation

Battery Tab Welding Equipment 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cylindrical Cell Tab Welding Equipment

Prismatic Cell Tab Welding Equipment

Market segment by Automation Level

Manual Battery Tab Welding Equipment

Semi-Automatic Battery Tab Welding Equipment

Automatic Battery Tab Welding Equipment

Market segment by Welding Power Level

Low-Power Tab Welding Equipment

Medium-Power Tab Welding Equipment

High-Power Tab Welding Equipment

Ultra-High-Power Tab Welding Equipment

Market segment by Application

Electric Vehicles

Energy Storage Systems

Consumer Electronics

Others

Major players covered

Emerson Branson

Schunk Sonosystems

Herrmann Ultraschall

Telsonic

AMADA WELD TECH

Manz

RAYLASE

Avio / Nippon Avionics

Wuxi Lead Intelligent Equipment

Shenzhen United Winners Laser

Han's Laser Smart Equipment

Hymson Laser

Liande Equipment

Xiamen TOB New Energy Technology

Xiamen Acey New Energy Technology

WinAck Battery

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Battery Tab Welding Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Tab Welding Equipment, with price, sales quantity, revenue, and global market share of Battery Tab Welding Equipment from 2021 to 2026.

Chapter 3, the Battery Tab Welding Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Tab Welding Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Battery Tab Welding Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Battery Tab Welding Equipment.

Chapter 14 and 15, to describe Battery Tab Welding Equipment sales channel, distributors, customers, research findings and conclusion.

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