

Global Battery Tab Welding Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Tab Welding Equipment market size is expected to reach \$ 2428 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

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 studies the global Battery Tab Welding Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Tab Welding Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Battery Tab Welding Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Tab Welding Equipment total production and demand, 2021-2032, (Units)

Global Battery Tab Welding Equipment total production value, 2021-2032, (USD Million)

Global Battery Tab Welding Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Battery Tab Welding Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Battery Tab Welding Equipment domestic production, consumption, key domestic manufacturers and share

Global Battery Tab Welding Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Battery Tab Welding Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Battery Tab Welding Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Battery Tab Welding Equipment market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Tab Welding Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Battery Tab Welding Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Tab Welding Equipment Market, Segmentation by Type:

Cylindrical Cell Tab Welding Equipment

Prismatic Cell Tab Welding Equipment

Global Battery Tab Welding Equipment Market, Segmentation by Automation Level:

Manual Battery Tab Welding Equipment

Semi-Automatic Battery Tab Welding Equipment

Automatic Battery Tab Welding Equipment

Global Battery Tab Welding Equipment Market, Segmentation 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

Global Battery Tab Welding Equipment Market, Segmentation by Application:

Electric Vehicles

Energy Storage Systems

Consumer Electronics

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Battery Tab Welding Equipment market?
2. What is the demand of the global Battery Tab Welding Equipment market?
3. What is the year over year growth of the global Battery Tab Welding Equipment market?
4. What is the production and production value of the global Battery Tab Welding Equipment market?
5. Who are the key producers in the global Battery Tab Welding Equipment market?
6. What are the growth factors driving the market demand?

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