

Global Ultrasonic Metal Welding Equipment for Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultrasonic Metal Welding Equipment for Batteries market size is expected to reach \$ 622 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Ultrasonic Metal Welding Equipment for Batteries refers to specialized welding equipment that uses high-frequency mechanical vibration, pressure, and frictional energy to join metal materials in battery manufacturing without melting the base materials. It is mainly used for welding lithium-ion battery tabs, current collectors, copper foil, aluminum foil, nickel sheets, busbars, cell terminals, module connectors, and pack-level conductive structures. The process is suitable for similar and dissimilar metal combinations such as copper, aluminum, and nickel. It offers low thermal impact, low electrical resistance, fast cycle time, and stable joint quality. The equipment is widely used in power batteries, energy storage batteries, consumer batteries, pouch cells, prismatic cells, cylindrical cells, battery modules, and battery packs. The industrial chain of Ultrasonic Metal Welding Equipment for Batteries includes upstream components such as ultrasonic generators, transducers, boosters, welding horns, anvils, servo presses, pressure sensors, displacement sensors, power supplies, CNC controllers, PLCs, fixtures, cooling systems, vision systems, safety systems, and industrial software. The midstream covers equipment design, acoustic system matching, horn design, fixture engineering, welding parameter development, automation integration, testing, and commissioning. Downstream users mainly include lithium-ion battery cell manufacturers, power battery producers, energy storage battery companies, consumer battery manufacturers, battery module manufacturers, battery pack integrators, electric vehicle suppliers, and battery production line integrators. Supporting services include horn replacement, process validation, welding quality testing,

maintenance, calibration, software upgrades, operator training, and spare parts supply. In 2025, global Ultrasonic Metal Welding Equipment for Batteries production reached approximately 4,471 units, with an average global market price of around US\$85,000 per unit. The gross profit margin of major companies in the industry is between 30%-50%. In 2025, the global production capacity of Ultrasonic Metal Welding Equipment for Batteries was approximately 5,961 units.

The Ultrasonic Metal Welding Equipment for Batteries market is growing steadily as lithium-ion battery production expands in electric vehicles, energy storage systems, and consumer electronics. The equipment is mainly used for tab welding, foil welding, current collector welding, busbar welding, module connection welding, and pack-level conductive joining. Compared with resistance welding or laser welding in certain battery metal joining applications, ultrasonic metal welding offers low heat input, fast cycle time, low contact resistance, and reliable joining of thin foils and dissimilar metals. Demand is supported by pouch cells, prismatic cells, cylindrical cells, high-nickel batteries, lithium iron phosphate batteries, and energy storage batteries. Battery manufacturers increasingly require higher automation, better weld monitoring, lower defect rates, and stronger quality traceability. However, horn wear, material stack variation, process window control, electrode contamination, and integration with high-speed battery production lines remain key challenges. Suppliers with strong acoustic system design, welding process knowledge, automation integration, and quality monitoring capabilities are more competitive.

This report studies the global Ultrasonic Metal Welding Equipment for Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrasonic Metal Welding Equipment for Batteries 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 Ultrasonic Metal Welding Equipment for Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultrasonic Metal Welding Equipment for Batteries total production and demand, 2021-2032, (Units)

Global Ultrasonic Metal Welding Equipment for Batteries total production value, 2021-2032, (USD Million)

Global Ultrasonic Metal Welding Equipment for Batteries production by region &

country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ultrasonic Metal Welding Equipment for Batteries consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ultrasonic Metal Welding Equipment for Batteries domestic production, consumption, key domestic manufacturers and share

Global Ultrasonic Metal Welding Equipment for Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ultrasonic Metal Welding Equipment for Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ultrasonic Metal Welding Equipment for Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ultrasonic Metal Welding Equipment for Batteries 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 Electric Co. (Branson), Herrmann Ultraschalltechnik GmbH & Co. KG, TELSONIC AG, Sonics & Materials, Inc., Schunk Sonosystems GmbH, Guangdong Lyric Robot Automation Co., Ltd., Sonobond Ultrasonics, Inc., Mecasonic SAS, Nippon Avionics Co., Ltd., Wuxi Lead Intelligent Equipment Co., Ltd., 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 Ultrasonic Metal Welding Equipment for Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Ultrasonic Metal Welding Equipment for Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultrasonic Metal Welding Equipment for Batteries Market, Segmentation by Type:

Spot Ultrasonic Metal Welding Equipment for Batteries

Roll-Seam Ultrasonic Metal Welding Equipment for Batteries

Global Ultrasonic Metal Welding Equipment for Batteries Market, Segmentation by Automated Integration Form:

Standalone Ultrasonic Metal Welding Machine for Batteries

Automated Ultrasonic Metal Welding Cell for Batteries

Inline Ultrasonic Metal Welding System for Batteries

Global Ultrasonic Metal Welding Equipment for Batteries Market, Segmentation by Maximum Output Power:

Up to 3 kW Maximum Output Power

Above 3 kW to 6 kW Maximum Output Power

Above 6 kW Maximum Output Power

Global Ultrasonic Metal Welding Equipment for Batteries Market, Segmentation by Application:

Battery Cell Electrode Foil and Tab Welding

Battery Cell Tab-to-Terminal Welding

Battery Module Busbar Welding

Battery Pack Cable and Terminal Welding

Companies Profiled:

Emerson Electric Co. (Branson)

Herrmann Ultraschalltechnik GmbH & Co. KG

TELSONIC AG

Sonics & Materials, Inc.

Schunk Sonosystems GmbH

Guangdong Lyric Robot Automation Co., Ltd.

Sonobond Ultrasonics, Inc.

Mecasonic SAS

Nippon Avionics Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Shanghai Jiao Cheng Ultrasonic Technology Co., Ltd.

Hesse GmbH

Colibri Technologies

Sonimat SAS

CHUXIN M&E

TECH-SONIC, Inc.

GZHRTECH

Key Questions Answered:

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

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