

Global Ultrasonic Metal Welding Equipment for Batteries 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 Ultrasonic Metal Welding Equipment for Batteries market size was valued at US\$ 391 million in 2025 and is forecast to a readjusted size of US\$ 622 million by 2032 with a CAGR of 6.8% during review period.

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 is a detailed and comprehensive analysis for global Ultrasonic Metal Welding Equipment for Batteries 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 Ultrasonic Metal Welding Equipment for Batteries market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Ultrasonic Metal Welding Equipment for Batteries market size and forecasts by

Global Ultrasonic Metal Welding Equipment for Batteries Market 2026 by Manufacturers, Regions, Type and Applic...

region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

Global Ultrasonic Metal Welding Equipment for Batteries market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Ultrasonic Metal Welding Equipment for Batteries

- 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 Ultrasonic Metal Welding Equipment for Batteries 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 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.

Market Segmentation

Ultrasonic Metal Welding Equipment for Batteries 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

Spot Ultrasonic Metal Welding Equipment for Batteries

Roll-Seam Ultrasonic Metal Welding Equipment for Batteries

Market segment 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

Market segment 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

Market segment 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

Major players covered

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

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 Ultrasonic Metal Welding Equipment for Batteries product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultrasonic Metal Welding Equipment for Batteries 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 Ultrasonic Metal Welding Equipment for Batteries 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 Ultrasonic Metal Welding Equipment for Batteries.

Chapter 14 and 15, to describe Ultrasonic Metal Welding Equipment for Batteries sales channel, distributors, customers, research findings and conclusion.

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