

Aluminum Welding Market By Wire Type (Pure Aluminum Welding Wire, Aluminum Magnesium Alloy Welding Wire, Al-Si Alloy Welding Wire) , By Technique (Arc Welding, Gas Metal-Arc (MIG) Welding, Gas Tungsten-Arc (TIG) Welding, Torch Welding, Laser Beam Welding, Electron Beam Welding, Resistance Welding, Others) By End-Use (Automotive, Aerospace, Marine, Construction, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2030

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Abstracts

The aluminum welding market was valued at \$4.2 billion in 2023, and is projected to reach \$6.2 billion by 2030, growing at a CAGR of 5.8% from 2024 to 2030.

Aluminum welding is a complex process that requires technical expertise to join two components made from aluminum or aluminum-based alloys by using heat and pressure. Although steel is less costly, aluminum is being currently employed across various industries from construction and automotive to aerospace and electrical conductors, due to its 100% recyclability.

Moreover, aluminum is corrosion resistant and more malleable than steel, making it a suitable for use in numerous applications. Commonly used welding techniques include gas metal-arc welding and gas tungsten-arc due to their adaptability and precision as well as their ability to provide strong and clean welds. Other techniques include laser welding, electron beam welding, resistance welding, and friction welding.

The growth of global aluminum welding market is driven by the surge in demand for fuel-efficient and lightweight vehicles. This is attributed to the fact that the automotive sector significantly makes use of aluminum to reduce vehicle weight. Furthermore, rise in sale of electric vehicles is boosting the demand for aluminum welding as the use of aluminum enables massive weight reduction, thereby allowing the integration of small and more fuel-efficient engines. According to the International Energy Agency, a Paris-based autonomous intergovernmental organization, over 3 million electric vehicles were sold in the first quarter of 2024, around 25% higher as compared to 2023. This number is estimated to reach 17 million by the end of 2024, exhibiting a 20% year-on-year increase. Thus, with expansion of the automotive industry, the need for aluminum welding is expected to increase. Furthermore, rapid infrastructural development and increase in construction of high-rise buildings boost the need for aluminum welding. Moreover, rise in environmental consciousness and surge in number of green building projects notably contribute toward the market growth. This is attributed to the fact that recyclability of aluminum makes it an ideal solution for use in green buildings. However, high cost associated with advanced welding equipment acts as a key deterrent factor of the global market. Moreover, aluminum welding is a complex technique, which requires expertise, thereby incurring additional cost, which significantly hampers the growth of the market. The growth of the market is further restricted by the availability of alternative welding materials. On the contrary, advancements in welding techniques such as integration of automation and robotic systems in welding processes to increase productivity and precision are expected to offer remunerative opportunities for the expansion of the global market during the forecast period.

The global aluminum welding market is segmented into wire type, technique, end use, and region. By type, the market is classified into pure aluminum welding wire, aluminum magnesium alloy welding wire, and Al-Si alloy welding wire. On the basis of technique, it is segregated into arc welding, gas metal-arc (MIG) welding, gas tungsten-arc (TIG) welding, torch welding, laser beam welding, electron beam welding, resistance welding, and others. As per end use, it is categorized into automotive, aerospace, marine, construction, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

Depending on type, the aluminum-magnesium alloy welding wire segment dominated the market in 2023, and is expected to continue this trend by 2033.

By process, the gas metal-arc (MIG) welding technique segment is anticipated to exhibit the highest growth during the forecast period.

On the basis of end use, the automotive segment is likely to gain high prominence in the coming years.

Region wise, Asia-Pacific dominated the market in 2023.

Competition Analysis

Competitive analysis and profiles of the major players in the global aluminum welding market include The Lincoln Electric Company, ESAB, Hilarius Haarlem Holland B.V., EWM, Hermann Fliess and Co. GmbH, Drahtwerk ELISENTAL W. Erdmann GmbH & Co., Safra Spa, Mech Static Hydraulics, Atlantic China Welding Consumables, and Anand Arc Ltd. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Manufacturing Capacity

Installed Base analysis

Investment Opportunities

Product Life Cycles

Upcoming/New Entrant by Regions

Technology Trend Analysis

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Strategic Recommendations

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Brands Share Analysis

Expanded list for Company Profiles

Historic market data

Import Export Analysis/Data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

Market share analysis of players at global/region/country level

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Product Consumption Analysis

Reimbursement Scenario

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By Wire Type

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Aluminum Magnesium Alloy Welding Wire

Al-Si Alloy Welding Wire

By Technique

Arc Welding

Gas Metal-Arc (MIG) Welding

Gas Tungsten-Arc (TIG) Welding

Torch Welding

Laser Beam Welding

Electron Beam Welding

Resistance Welding

Others

By End-Use

Automotive

Aerospace

Marine

Construction

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

The Lincoln Electric Company

ESAB

Hilarius Haarlem Holland B.V.

EWM

Hermann Fliess and Co. GmbH

Drahtwerk ELISENTAL W. Erdmann GmbH & Co.

Safra Spa

Mech Static Hydraulics

Atlantic China Welding Consumables

Anand Arc Ltd.

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