

Welding Machinery - A Global Market Overview

<https://marketpublishers.com/r/W467BE0F9F6EEN.html>

Date: November 2025

Pages: 333

Price: US\$ 4,500.00 (Single User License)

ID: W467BE0F9F6EEN

Abstracts

The Welding Machinery market is experiencing a pronounced shift toward automation, robotics, and intelligent weld-management systems. Adoption of robotic welding has jumped by nearly 40%, and over 60% of manufacturers have embraced automated setups to gain higher precision, consistency, and efficiency. Technologies such as AI-driven controls, real-time weld optimization, predictive maintenance, and connected welding platforms are becoming mainstream, supported by a rise in eco-friendly materials and low-emission processes, particularly in the EV and energy industries. Affordable automation, including cobots and compact robotic cells, is further widening accessibility for small and mid-sized manufacturers. The global Welding Machinery market, valued at US\$19.8 billion in 2025, is projected to reach US\$29.6 billion by 2032, expanding at a CAGR of 5.9%.

Market demand is being propelled by growing industrial automation and the shift toward high-quality, repeatable production. Manufacturers across automotive, heavy machinery, shipbuilding, and construction increasingly replace manual welding with robotic and CNC-based systems to shorten cycle times and meet tight quality tolerances. Ongoing infrastructure development, large-scale fabrication activities, and the rapid expansion of EV manufacturing and battery-pack assembly continue to stimulate robust uptake of both conventional and advanced welding systems. As these sectors modernize, the need for high-productivity, digitally enabled welding equipment is expected to intensify, reinforcing the market's long-term growth trajectory.

Welding Machinery Regional Market Analysis

Asia-Pacific dominates the global welding machinery market as both the largest (37.2% share in 2025) and fastest-growing region (7.1% CAGR over 2025-2032), driven by its massive manufacturing base in automotive, shipbuilding and heavy industries, along with rapid infrastructure expansion across China, India and Southeast Asia. Strong

industrialization policies, large-scale public construction projects, and a vast pool of skilled labor continue to fuel equipment demand. The region is also witnessing fast adoption of automation and robotic welding for enhancing productivity and quality, supported by competitive local suppliers and cost-efficient production ecosystems. Additionally, growing investments in renewable energy, transportation and oil & gas sectors, coupled with technology upgrades from conventional to advanced welding systems, are further accelerating market growth and solidifying Asia-Pacific's leadership position globally.

Welding Machinery Market Analysis by Machinery Type

Arc Welding Machinery accounts for the largest share of the global Welding Machinery market at 49.1% in 2025, supported by its versatility, affordability, portability, and suitability for sectors such as construction, shipbuilding, oil & gas, and heavy equipment manufacturing, along with a mature consumables supply chain and widespread workforce expertise. In contrast, Laser Beam Welding Machinery is the fastest-growing segment, projected to expand at an 8.5% CAGR through 2025-2032, propelled by its precision, high speed, seamless integration with automation, and ability to join advanced or dissimilar materials with minimal distortion and reduced post-processing; as laser systems become more cost-effective and hybrid laser-arc solutions gain traction, their adoption is accelerating across industries prioritizing accuracy, productivity, and advanced material joining.

Welding Machinery Market Analysis by Mode of Operation

With a global market share estimated at 42% and a probable CAGR of 7.1% between 2025 and 2032, Automatic Welding Machinery represents both the largest and fastest growing mode of operation in the global Welding Machinery market due to its superior efficiency, consistency, and alignment with modern manufacturing demands. This machinery type enables high-volume production with lower labor costs, uniform weld quality, and reduced material waste, making it the preferred choice for large-scale industries, such as automotive, shipbuilding, and heavy equipment manufacturing. The segment's dominance is buttressed by mature technology, proven return on investment, and strong service ecosystems that simplify integration and maintenance. Rapid growth is further driven by the global shift toward Industry 4.0 and smart factories, growth in labor shortages, and the need for precision and traceability in production. Technological advancements, such as robotics, sensors, and adaptive control systems, along with flexible, modular automation solutions, are expanding its applicability across diverse manufacturing sectors, ensuring continued expansion of automatic welding systems

worldwide.

Welding Machinery Market Analysis by End-Use Industry

Automotive & Transportation leads the global Welding Machinery market with a 34.1% share in 2025, driven by the sector's massive consumption of welded assemblies, long production runs, high automation penetration, strong quality standards, and the growing role of EV manufacturing, all of which sustain strong demand for high-capacity, automated and semi-automated welding systems. Meanwhile, Aerospace & Defense is set to be the fastest-growing end-use segment with a 7.2% CAGR from 2025 to 2032, propelled by rising aircraft production, defense modernization, expanding space and UAV programs, and the need for precision welding of advanced materials using specialized processes such as laser, electron beam, friction stir, and orbital TIG; despite lower production volumes, the high value per unit, stringent qualification and testing requirements, and increasing MRO activities continue to accelerate investments in advanced welding machinery across this sector.

Welding Machinery Market Report Scope

This global report on Welding Machinery analyzes the market based on Machinery Type, Mode of Operation and End-Use Industry for the period 2022-2032 with forecasts from 2025 to 2032 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2022-2024

Base Year: 2025

Forecast Period: 2025-2032

Units: Value market in US\$

Companies Mentioned: 30+

Welding Machinery Market by Geographic Region

North America (United States, Canada and Mexico)

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

Europe)

Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)

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

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

Welding Machinery Market by Machinery Type

Arc Welding

Laser Beam Welding

Oxy-Fuel Welding

Resistance Welding

Other Welding Machinery Types (Primarily incl. Electron Beam Welding & Solid State Welding)

Welding Machinery Market by Mode of Operation

Manual Welding Machinery

Semi-Automatic Welding Machinery

Automatic Welding Machinery

Welding Machinery Market by End-Use Industry

Aerospace & Defense

Automotive & Transportation

Building & Construction

Energy

Marine

Other End-Use Industries (Primarily incl. Appliances, Fabrication, Metals,
Mining, Rail & General Manufacturing)

Contents

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

- Welding Machinery Outline
- Welding Machinery Defined
- Welding Machinery Types
 - Blow Molding Machinery
 - Arc Welding Machinery
 - Laser Beam Welding Machinery
 - Oxy-Fuel Welding Machinery
 - Resistance Welding Machinery
 - Other Welding Machinery Types
- Welding Machinery Mode of Operation
 - Manual Welding Machinery
 - Semi-Automatic Welding Machinery
 - Automatic Welding Machinery
- Welding Machinery End-Use Industries
 - Aerospace & Defense
 - Automotive & Transportation
 - Building & Construction
 - Energy
 - Marine
 - Other End-Use Industries (Primarily incl. Appliances, Fabrication, Metals, Mining, Rail & General Manufacturing)

2. KEY MARKET TRENDS

3. KEY MARKET PLAYERS

- ACRO Automation Systems, Inc.
- Ador Welding Limited
- Air Liquide SA
- Amada Miyachi, Inc.
- Arc Machines
- Arcon Welding Equipment
- Carl Cloos Schweisstechnik GmbH

Coherent Corp
Colfax Corp
Cruzweld Industrial Equipments Pvt. Ltd.
Daihen Corp.
Denyo Co. Ltd
Emerson Electric
ESAB Corp.
EWM GmbH
Fronius International GmbH
Illinois Tool Works, Inc.
IPG Photonics Corp
Kemppi Oy
Kobe Steel Ltd.
Lincoln Electric Holdings, Inc.
Miller Electric Mfg. LLC
Mitco Weld Products Pvt. Ltd.
Nimak GmbH
Obara Corp
OTC Daihen, Inc.
Panasonic Industry Co., Ltd.
Polysoude S.A.S.
Rofin-Sinar Technologies
Sonics & Materials, Inc.
Stanley Black & Decker
TRUMPF Group
voestalpine Bohler Welding Group GmbH

4. KEY BUSINESS & PRODUCT TRENDS

5. GLOBAL MARKET OVERVIEW

Global Welding Machinery Market Overview by Machinery Type
Welding Machinery Type Market Overview by Global Region
Arc Welding Machinery
Laser Beam Welding Machinery
Oxy-Fuel Welding Machinery
Resistance Welding Machinery
Other Welding Machinery Types
Global Welding Machinery Market Overview by Mode of Operation

Welding Machinery Mode of Operation Market Overview by Global Region

Manual Welding Machinery

Semi-Automatic Welding Machinery

Automatic Welding Machinery

Global Welding Machinery Market Overview by End-Use Industry

Welding Machinery End-Use Industry Market Overview by Global Region

Aerospace & Defense

Automotive & Transportation

Building & Construction

Energy

Marine

Other End-Use Industries

PART B: REGIONAL MARKET PERSPECTIVE

Global Welding Machinery Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. NORTH AMERICA

North American Welding Machinery Market Overview by Geographic Region

North American Welding Machinery Market Overview by Machinery Type

North American Welding Machinery Market Overview by Mode of Operation

North American Welding Machinery Market Overview by End-Use Industry

Country-wise Analysis of North American Welding Machinery Market

The United States

United States Welding Machinery Market Overview by Machinery Type

United States Welding Machinery Market Overview by Mode of Operation

United States Welding Machinery Market Overview by End-Use Industry

Canada

Canadian Welding Machinery Market Overview by Machinery Type

Canadian Welding Machinery Market Overview by Mode of Operation

Canadian Welding Machinery Market Overview by End-Use Industry

Mexico

Mexican Welding Machinery Market Overview by Machinery Type

Mexican Welding Machinery Market Overview by Mode of Operation

Mexican Welding Machinery Market Overview by End-Use Industry

7. EUROPE

European Welding Machinery Market Overview by Geographic Region

European Welding Machinery Market Overview by Machinery Type

European Welding Machinery Market Overview by Mode of Operation

European Welding Machinery Market Overview by End-Use Industry

Country-wise Analysis of European Welding Machinery Market

France

French Welding Machinery Market Overview by Machinery Type

French Welding Machinery Market Overview by Mode of Operation

French Welding Machinery Market Overview by End-Use Industry

Germany

German Welding Machinery Market Overview by Machinery Type

German Welding Machinery Market Overview by Mode of Operation

German Welding Machinery Market Overview by End-Use Industry

Italy

Italian Welding Machinery Market Overview by Machinery Type

Italian Welding Machinery Market Overview by Mode of Operation

Italian Welding Machinery Market Overview by End-Use Industry

Russia

Russian Welding Machinery Market Overview by Machinery Type

Russian Welding Machinery Market Overview by Mode of Operation

Russian Welding Machinery Market Overview by End-Use Industry

Spain

Spanish Welding Machinery Market Overview by Machinery Type

Spanish Welding Machinery Market Overview by Mode of Operation

Spanish Welding Machinery Market Overview by End-Use Industry

United Kingdom

United Kingdom Welding Machinery Market Overview by Machinery Type

United Kingdom Welding Machinery Market Overview by Mode of Operation

United Kingdom Welding Machinery Market Overview by End-Use Industry

Rest of Europe

Rest of Europe Welding Machinery Market Overview by Machinery Type

Rest of Europe Welding Machinery Market Overview by Mode of Operation

Rest of Europe Welding Machinery Market Overview by End-Use Industry

8. ASIA-PACIFIC

Asia-Pacific Welding Machinery Market Overview by Geographic Region

Asia-Pacific Welding Machinery Market Overview by Machinery Type
Asia-Pacific Welding Machinery Market Overview by Mode of Operation
Asia-Pacific Welding Machinery Market Overview by End-Use Industry
Country-wise Analysis of Asia-Pacific Welding Machinery Market

China

Chinese Welding Machinery Market Overview by Machinery Type
Chinese Welding Machinery Market Overview by Mode of Operation
Chinese Welding Machinery Market Overview by End-Use Industry

India

Indian Welding Machinery Market Overview by Machinery Type
Indian Welding Machinery Market Overview by Mode of Operation
Indian Welding Machinery Market Overview by End-Use Industry

Japan

Japanese Welding Machinery Market Overview by Machinery Type
Japanese Welding Machinery Market Overview by Mode of Operation
Japanese Welding Machinery Market Overview by End-Use Industry

South Korea

South Korean Welding Machinery Market Overview by Machinery Type
South Korean Welding Machinery Market Overview by Mode of Operation
South Korean Welding Machinery Market Overview by End-Use Industry

Rest of Asia-Pacific

Rest of Asia-Pacific Welding Machinery Market Overview by Machinery Type
Rest of Asia-Pacific Welding Machinery Market Overview by Mode of Operation
Rest of Asia-Pacific Welding Machinery Market Overview by End-Use Industry

9. SOUTH AMERICA

South American Welding Machinery Market Overview by Geographic Region
South American Welding Machinery Market Overview by Machinery Type
South American Welding Machinery Market Overview by Mode of Operation
South American Welding Machinery Market Overview by End-Use Industry
Country-wise Analysis of South American Welding Machinery Market

Argentina

Argentine Welding Machinery Market Overview by Machinery Type
Argentine Welding Machinery Market Overview by Mode of Operation
Argentine Welding Machinery Market Overview by End-Use Industry

Brazil

Brazilian Welding Machinery Market Overview by Machinery Type
Brazilian Welding Machinery Market Overview by Mode of Operation

Brazilian Welding Machinery Market Overview by End-Use Industry

Rest of South America

Rest of South American Welding Machinery Market Overview by Machinery Type

Rest of South American Welding Machinery Market Overview by Mode of Operation

Rest of South American Welding Machinery Market Overview by End-Use Industry

10. MIDDLE EAST & AFRICA

Middle East & Africa Welding Machinery Market Overview by Geographic Region

Middle East & Africa Welding Machinery Market Overview by Machinery Type

Middle East & Africa Welding Machinery Market Overview by Mode of Operation

Middle East & Africa Welding Machinery Market Overview by End-Use Industry

Country-wise Analysis of Middle East & Africa Welding Machinery Market

Saudi Arabia

Saudi Arabian Welding Machinery Market Overview by Machinery Type

Saudi Arabian Welding Machinery Market Overview by Mode of Operation

Saudi Arabian Welding Machinery Market Overview by End-Use Industry

South Africa

South African Welding Machinery Market Overview by Machinery Type

South African Welding Machinery Market Overview by Mode of Operation

South African Welding Machinery Market Overview by End-Use Industry

Turkiye

Turkiye Welding Machinery Market Overview by Machinery Type

Turkiye Welding Machinery Market Overview by Mode of Operation

Turkiye Welding Machinery Market Overview by End-Use Industry

UAE

UAE Welding Machinery Market Overview by Machinery Type

UAE Welding Machinery Market Overview by Mode of Operation

UAE Welding Machinery Market Overview by End-Use Industry

Rest of Middle East & Africa

Rest of Middle East & Africa Welding Machinery Market Overview by Machinery Type

Rest of Middle East & Africa Welding Machinery Market Overview by Mode of Operation

Rest of Middle East & Africa Welding Machinery Market Overview by End-Use Industry

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. FEEDBACK

I would like to order

Product name: Welding Machinery - A Global Market Overview

Product link: <https://marketpublishers.com/r/W467BE0F9F6EEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/W467BE0F9F6EEN.html>