

Robotic Welding Market Report by Type (Spot Welding, Arc Welding, and Others), Payload (Less than 50 Kg, 50-150 Kg, More than 150 Kg), End User (Automotive and Transportation, Electrical and Electronics, Metals and Machinery, and Others), and Region 2024-2032

<https://marketpublishers.com/r/RB98A9A7C413EN.html>

Date: July 2024

Pages: 146

Price: US\$ 3,899.00 (Single User License)

ID: RB98A9A7C413EN

Abstracts

The global robotic welding market size reached US\$ 7.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 13.5 Billion by 2032, exhibiting a growth rate (CAGR) of 7.1% during 2024-2032.

Robotic welding, also known as automated welding, is a process of fusing two materials together using mechanized programmable instruments that heat, mix, and cool metal materials. It ensures that weld integrity is enhanced with consistent results for fast quality welds while reducing human errors, fatigue and distractions that may cause defects. As it helps in more accurate and precise welding, there are fewer scrap metals and wastes with robotic welding compared to manual welding. In addition, it performs different welding processes with less manpower and without the need for hiring additional staffing for production. As a result, it finds extensive applications in automotive, electronics, aerospace, defense, construction, and mining industries across the globe.

Robotic Welding Market Trends:

Due to reduced intensive labor injuries, improved order fulfilment speed and accuracy, and increased uptime with reduced costs, there is a rise in the utilization of robotic welding around the world. This, along with the growing demand for robotic welding to enhance the efficient use of working space and improve the supply chain performance

in end-user industries, represents one of the key factors driving the market. Moreover, key market players are extensively investing in research and development (R&D) activities to improve the functions and benefits offered by robotic welding. This, coupled with the rising customization of robotic welding for several requirements, such as cloud-based operations and remote monitoring, along with effective physical stature for improved compatibility with the human workforce, is positively influencing the market. Additionally, the increasing employment of robotic welding in the automotive industry for resistance spot welding and arc welding in high production applications is offering lucrative growth opportunities to industry investors. Besides this, robotic welding requires minimal hard tooling as they are reprogrammable, which is projected to bolster the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global robotic welding market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, payload, and end user.

Breakup by Type:

Robotic Welding Market Report

Spot Welding

Arc Welding

Others

Breakup by Payload:

Less than 50 Kg

50-150 Kg

More than 150 Kg

Breakup by End User:

Automotive and Transportation

Electrical and Electronics

Metals and Machinery

Others

Breakup by Region:

Robotic Welding Market Report

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., Comau (Stellantis N.V.), DAIHEN Corporation, FANUC Corporation, Hyundai Robotics Co. Ltd. (Hyundai Heavy Industries Group), Kawasaki Heavy Industries Ltd., KUKA AG, Nachi-Fujikoshi Corp., Panasonic Corporation, Siasun Robot & Automation Co. Ltd. and Yaskawa Electric Corporation.

Key Questions Answered in This Report

1. What was the size of the global robotic welding market in 2023?

2. What is the expected growth rate of the global robotic welding market during 2024-2032?
3. What has been the impact of COVID-19 on the global robotic welding market?
4. What are the key factors driving the global robotic welding market?
5. What is the breakup of the global robotic welding market based on the type?
6. What is the breakup of the global robotic welding market based on the payload?
7. What is the breakup of the global robotic welding market based on the end user?
8. What are the key regions in the global robotic welding market?
9. Who are the key players/companies in the global robotic welding market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ROBOTIC WELDING MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Spot Welding
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Arc Welding
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY PAYLOAD

7.1 Less than 50 Kg

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 50-150 Kg

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 More than 150 Kg

7.3.1 Market Trends

7.3.2 Market Forecast

8 MARKET BREAKUP BY END USER

8.1 Automotive and Transportation

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Electrical and Electronics

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Metals and Machinery

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Others

8.4.1 Market Trends

8.4.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

9.3.2.1 Market Trends

9.3.2.2 Market Forecast

9.3.3 United Kingdom

9.3.3.1 Market Trends

9.3.3.2 Market Forecast

9.3.4 Italy

9.3.4.1 Market Trends

9.3.4.2 Market Forecast

9.3.5 Spain

9.3.5.1 Market Trends

9.3.5.2 Market Forecast

9.3.6 Russia

9.3.6.1 Market Trends

9.3.6.2 Market Forecast

9.3.7 Others

9.3.7.1 Market Trends

9.3.7.2 Market Forecast

9.4 Latin America

9.4.1 Brazil

9.4.1.1 Market Trends

9.4.1.2 Market Forecast

9.4.2 Mexico

9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 ABB Ltd.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Comau (Stellantis N.V.)

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.3 DAIHEN Corporation

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.4 FANUC Corporation

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

14.3.4.4 SWOT Analysis

14.3.5 Hyundai Robotics Co. Ltd. (Hyundai Heavy Industries Group)

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.6 Kawasaki Heavy Industries Ltd.

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 KUKA AG

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.7.3 Financials

14.3.7.4 SWOT Analysis

14.3.8 Nachi-Fujikoshi Corp.

14.3.8.1 Company Overview

- 14.3.8.2 Product Portfolio
- 14.3.8.3 Financials
- 14.3.8.4 SWOT Analysis
- 14.3.9 Panasonic Corporation
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 Siasun Robot & Automation Co. Ltd.
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
- 14.3.11 Yaskawa Electric Corporation
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials

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