

Global Collaborative Welding Robotic System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Collaborative Welding Robotic System market size is expected to reach \$ 2383 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

Collaborative Welding Robotic System is a factory-grade automation solution that enables safe human-robot cooperation for precision welding tasks through force-limited robot arms, advanced sensing and real-time process control, improving throughput while reducing manual intervention and rework. Upstream depends on high-strength structural metals, welding power sources, servo motors and control systems, with representative suppliers including ArcelorMittal, POSCO, Miller Electric, Lincoln Electric, Yaskawa and Siemens. The midstream focuses on system integration, safety engineering, human-robot interaction design, cell layout and on-line process monitoring. Downstream applications are concentrated in automotive and aerospace manufacturing, with typical customers such as Ford, Toyota, Boeing and Airbus. In 2025, production was 16,000 units and the average price was USD 55,000 per unit. The industry's capacity utilization rate in 2025 was about 70%, and the average gross margin was around 35%.

The market outlook for Collaborative Welding Robotic Systems is strongly supported by the accelerating shift toward flexible and intelligent manufacturing. As automotive, aerospace and general industrial sectors pursue higher welding consistency, tighter tolerance control and safer production environments, collaborative welding robots are becoming a preferred upgrade path because they combine human adaptability with robotic precision. Their ability to operate safely beside workers without building large isolation cells significantly reduces deployment costs and shortens integration cycles, which is especially valuable for high-mix and small-batch production lines. In addition,

rising labor shortages in skilled welding and the growing need for digitalized quality monitoring further strengthen demand. Over the next several years, adoption is expected to expand rapidly across global manufacturing, driven by cost efficiency, improved workplace safety and the push toward semi-autonomous factories.

This report studies the global Collaborative Welding Robotic System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Collaborative Welding Robotic System 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 Collaborative Welding Robotic System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Collaborative Welding Robotic System total production and demand, 2021-2032, (Units)

Global Collaborative Welding Robotic System total production value, 2021-2032, (USD Million)

Global Collaborative Welding Robotic System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Collaborative Welding Robotic System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Collaborative Welding Robotic System domestic production, consumption, key domestic manufacturers and share

Global Collaborative Welding Robotic System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Collaborative Welding Robotic System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Collaborative Welding Robotic System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Collaborative Welding Robotic System 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 Universal Robots (Denmark), FANUC (Japan), ABB (Switzerland), Yaskawa (Japan), Comau (Italy), KUKA (Germany), Omron (Japan), Kawasaki Robotics (Japan), Lincoln Electric (USA), Miller Electric (USA), 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 Collaborative Welding Robotic System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Collaborative Welding Robotic System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Collaborative Welding Robotic System Market, Segmentation by Type:

Arc Welding Robot

Spot Welding Robot

Others

Global Collaborative Welding Robotic System Market, Segmentation by Payload:

Payload?10kg

10kg?Payload?20kg

Others

Global Collaborative Welding Robotic System Market, Segmentation by Technology:

Structured Light 3D Vision

Time-Of-Flight 3D Vision

Others

Global Collaborative Welding Robotic System Market, Segmentation by Application:

Automotive

Aerospace

Ship

Others

Companies Profiled:

Universal Robots (Denmark)

FANUC (Japan)

ABB (Switzerland)

Yaskawa (Japan)

Comau (Italy)

KUKA (Germany)

Omron (Japan)

Kawasaki Robotics (Japan)

Lincoln Electric (USA)

Miller Electric (USA)

Hirebotics (USA)

Vectis Automation (USA)

Siasun Robotics (China)

Key Questions Answered:

1. How big is the global Collaborative Welding Robotic System market?
2. What is the demand of the global Collaborative Welding Robotic System market?
3. What is the year over year growth of the global Collaborative Welding Robotic System market?
4. What is the production and production value of the global Collaborative Welding Robotic System market?
5. Who are the key producers in the global Collaborative Welding Robotic System market?
6. What are the growth factors driving the market demand?

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