

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

<https://marketpublishers.com/r/G57FF1D6470CEN.html>

Date: August 2026

Pages: 141

Price: US\$ 4,480.00 (Single User License)

ID: G57FF1D6470CEN

Abstracts

The global Collaborative Robot Welding System market size is expected to reach \$ 3425 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

A Collaborative Robot Welding System is an automated welding solution that integrates collaborative robots (cobots) with welding equipment, sensors, and control systems. Unlike traditional industrial welding robots that require safety cages and physical barriers, collaborative welding robots are specifically designed and programmed to work safely alongside human operators in a shared workspace. These systems feature built-in force limiting, safety sensors, and advanced real-time process control, enabling precise welding operations while minimizing human intervention and rework rates. Collaborative welding robots can handle various welding processes including arc welding, spot welding, and laser welding, and can be adapted to different materials and geometries. The global average selling price for collaborative welding robotic systems is approximately US\$3,900 per unit. The average sales volume in the base year is estimated at 392.3k units. The industry average gross margin is approximately 35%. The upstream segment includes manufacturers of 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 segment comprises system integration, safety engineering, collaborative design, production line layout, and online process monitoring. The downstream segment primarily serves automotive and aerospace manufacturing, with typical customers including Ford, Toyota, Boeing, and Airbus.

The collaborative robot welding system market is undergoing rapid transformation driven by the convergence of labor shortages, rising labor costs, increasing demand for

flexible manufacturing, and significant advancements in human-robot collaboration technologies. The industry is witnessing a fundamental shift from traditional industrial welding robots?which require physical barriers and extensive programming?to collaborative systems that can work safely alongside human operators without safety cages, enabling shared workspaces and intuitive programming methods.

The growing shortage of skilled welders is a primary market driver. As the welding workforce ages and fewer young workers enter the trade, manufacturers increasingly turn to collaborative welding solutions to fill the gap. The ability of cobots to be easily programmed through drag-and-teach methods?where operators simply guide the welding gun along the desired trajectory and the system automatically generates the program?has dramatically reduced the programming barrier that traditionally limited welding automation adoption, particularly in small-batch, high-mix production environments.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Collaborative Robot Welding 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 KUKA AG, ABB Ltd., FANUC Corporation, Yaskawa Electric Corporation, Universal Robots A/S, Kawasaki Heavy Industries, Comau S.p.A., Omron Corporation, Nachi-Fujikoshi Corporation, Mitsubishi Electric Corporation, 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 Robot Welding System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Robot Welding System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Collaborative Robot Welding System Market, Segmentation by Type:

Arc Welding

Spot Welding

Laser Welding

TIG Welding

Global Collaborative Robot Welding System Market, Segmentation by Payload Capacity:

?10 kg

10 kg ? 20 kg

>20 kg

Global Collaborative Robot Welding System Market, Segmentation by Axis Configuration:

6-Axis Cobot Welding Systems

Other Configurations

Global Collaborative Robot Welding System Market, Segmentation by Application:

Automotive & Transportation

Aerospace

Machinery Manufacturing

Metal & Machinery

Electrical & Electronics

Companies Profiled:

KUKA AG

ABB Ltd.

FANUC Corporation

Yaskawa Electric Corporation

Universal Robots A/S

Kawasaki Heavy Industries

Comau S.p.A.

Omron Corporation

Nachi-Fujikoshi Corporation

Mitsubishi Electric Corporation

Staubli International AG

Hyundai Robotics

AUBO (BEIJING) ROBOTICS

Shenzhen Han's Robot

Neuromeka

Rozum Robotics

Key Questions Answered:

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

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