

Global Orbital Welding Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Orbital Welding Robots market size was valued at US\$ 1749 million in 2025 and is forecast to a readjusted size of US\$ 2819 million by 2032 with a CAGR of 7.0% during review period.

In 2025, global Orbital Welding Robots production reached approximately 7390 units, with an average global market price of around US\$230k per unit.

Orbital welding robots are automated welding solutions designed to produce consistent circumferential welds on pipes, tubes, and cylindrical components by moving the torch along a controlled orbital path. Using closed-head or open-head orbital weld heads or track-mounted crawlers that travel around the pipe, these systems maintain repeatable speed, arc length, and heat input across all positions. They typically integrate a welding power source (commonly TIG/GTAW, sometimes MIG/GMAW or plasma), wire feeding/oscillation, arc-voltage or arc-length control, seam tracking, and weld data logging, improving weld quality, traceability, and productivity in high-spec or constrained environments.

Upstream components include welding power sources and control systems (TIG/MIG/plasma power supplies, motion controllers, sensing and data acquisition), precision mechanics and drives (gearboxes, servo/stepper motors, guides, clamps/rings, oscillation and wire-feed units), consumables and welding materials (wire, shielding gas, tungsten electrodes, tips/nozzles), and critical electrical/structural parts (cables, connectors, high-temperature insulation, machined structures). Representative upstream ecosystems include FANUC and Siemens (motion/control), SICK and KEYENCE (sensing/inspection), Lincoln Electric, ESAB, Fronius, and Miller (welding

power/process ecosystems), plus dedicated orbital-welding system suppliers and their subcomponent chains. Midstream players are OEMs and integrators delivering complete orbital welding cells (weld head/crawler + power source + software + procedures + commissioning). Downstream demand comes from industries requiring consistent, clean, and traceable welds?semiconductor and high-purity piping, pharma/biotech, food & beverage stainless piping, petrochemical/chemical plants, nuclear/power, offshore/shipbuilding, and pressure vessel fabrication.

The orbital welding robot market is characterized by faster adoption in high-spec industries and a shift from standalone machines toward system-level deliveries. In applications such as semiconductor high-purity piping, pharmaceutical/biotech stainless piping, nuclear and high-pressure/high-temperature lines, petrochemical plants, and offshore/shipbuilding pipe systems, the need for consistent weld quality, traceability, and compliance makes orbital automation especially compelling. Technological evolution is moving beyond ?constant-speed orbital motion with fixed parameters? toward closed-loop control, in-process monitoring, and digital traceability?covering adaptive arc-length/voltage control, coordinated oscillation and wire-feed, seam tracking and fit-up deviation compensation, and automated weld data logging. More projects are also integrating orbital welding with beveling, fit-up, internal/external alignment, and NDT workflows into turnkey solutions. Key drivers include skilled welder shortages, stronger requirements for controlled and auditable welding processes, and productivity gains under tighter project schedules. Headwinds include challenging field conditions (bevel consistency, gaps/misalignment, wind/rain/temperature/humidity, restricted space) that can reduce automation stability, higher upfront procedure qualification and commissioning costs, and the ongoing need for training and maintenance; additionally, fragmented standards across industries/projects and capex sensitivity can slow adoption in some segments.

This report is a detailed and comprehensive analysis for global Orbital Welding Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Orbital Welding Robots market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Orbital Welding Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Orbital Welding Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Orbital Welding Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Orbital Welding Robots

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Orbital Welding Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FANUC, KUKA, ABB, Yaskawa, Nachi, Kawasaki Robotics, Comau, CLOOS, igm Robotersysteme, Rokae, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Orbital Welding Robots market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This

analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4-axis

5-axis

6-axis

7-axis

Other

Market segment by Welding Head Types

Closed Welding Head

Open Welding Head

Market segment by Welding Process

TIG/GTAW

MIG/GMAW

Others

Market segment by Application

Automotive

Electronic Electrical

Metal

Medicine, Rubber and Plastics

Food

Other

Major players covered

FANUC

KUKA

ABB

Yaskawa

Nachi

Kawasaki Robotics

Comau

CLOOS

igm Robotersysteme

Rokae

Huayan Robotics

KNT Robot

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

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

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

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Orbital Welding Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Orbital Welding Robots, with price, sales quantity, revenue, and global market share of Orbital Welding Robots from 2021 to 2026.

Chapter 3, the Orbital Welding Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Orbital Welding Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Orbital Welding Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Orbital Welding Robots.

Chapter 14 and 15, to describe Orbital Welding Robots sales channel, distributors, customers, research findings and conclusion.

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