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# Global Orbital Welding Robots Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Orbital Welding Robots market size is expected to reach $ 2819 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).
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,

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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 studies the global Orbital Welding Robots production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Orbital Welding Robots 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 Orbital Welding Robots that contribute to its increasing demand across many markets.

**Highlights and key features of the study**

Global Orbital Welding Robots total production and demand, 2021-2032, (K Units)
Global Orbital Welding Robots total production value, 2021-2032, (USD Million)
Global Orbital Welding Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Orbital Welding Robots consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Orbital Welding Robots domestic production, consumption, key domestic manufacturers and share
Global Orbital Welding Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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Global Orbital Welding Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Orbital Welding Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
This report profiles key players in the global Orbital Welding Robots 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 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.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Orbital Welding Robots market
**Detailed Segmentation:**
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Orbital Welding Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Orbital Welding Robots Market, Segmentation by Type:

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4-axis

5-axis

6-axis

7-axis

Other

Global Orbital Welding Robots Market, Segmentation by Welding Head Types:

Closed Welding Head

Open Welding Head

Global Orbital Welding Robots Market, Segmentation by Welding Process:

TIG/GTAW

MIG/GMAW

Others

Global Orbital Welding Robots Market, Segmentation by Application:

Automotive

Electronic Electrical

Metal

Medicine, Rubber and Plastics

Food

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Other

**Companies Profiled:**

FANUC

KUKA

ABB

Yaskawa

Nachi

Kawasaki Robotics

Comau

CLOOS

igm Robotersysteme

Rokae

Huayan Robotics

KNT Robot

**Key Questions Answered:**

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

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