

Global Four-Axis Collaborative Robotic Arm Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Four-Axis Collaborative Robotic Arm market size is expected to reach \$ 1150 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

In 2025, global Four-Axis Robotic Arm production reached approximately 18k units, with an average global market price of around US\$25k per unit.

A four-axis collaborative robotic arm is a four-DoF industrial robot designed with collaborative-robot principles, enabling high-speed pick-and-place, assembly, sorting, machine tending, and simple orientation adjustments within a compact workspace. It incorporates collaborative safety features such as force/torque limiting, collision detection, safety monitoring, and low-inertia structures to support close human–robot interaction. Compared with traditional four-axis robots, four-axis cobots emphasize ease of deployment, flexibility, and safer operation, often allowing shared workspaces with reduced guarding, making them suitable for 3C electronics, light assembly, packaging/sorting, pharma/personal care, and flexible workcells where fast changeovers matter.

Upstream for four-axis cobots includes structural materials and precision parts (aluminum/steel, castings and machined components), motion and support parts (reducers, bearings, gears/ball screws and guides), drive and control systems (servo motors, drives, encoders, controllers), collaborative-safety components (force/torque sensing, collision detection and safety control modules), electrical interconnects and wiring, plus end-flange interfaces. Midstream covers robot design and manufacturing, assembly and calibration, collaborative safety algorithms and certifications, software ecosystems and communication integration, and application packaging with

grippers/vision/tool changers. Downstream demand is driven by integrators and end users in 3C electronics, light automotive component assembly, food & beverage and packaging, pharma/personal care, machine tending, and warehousing/logistics. Representative upstream suppliers include aluminum (Alcoa, CHALCO), bearings (SKF, NSK), reducers (Nabtesco, Harmonic Drive), servo/control (Siemens, Mitsubishi Electric), and sensors (SICK, Keyence); representative downstream players include electronics manufacturing (Foxconn), auto components (Bosch), e-commerce logistics (Amazon), and food & beverage (Coca-Cola).

The four-axis collaborative robot segment exists but is clearly niche and highly application-dependent. In tasks requiring fast planar pick-and-place, assembly, and sorting—while reducing guarding and improving changeover efficiency—four-axis cobots offer compact footprints, high throughput, and lightweight deployment, making them attractive for workstation automation in 3C electronics, light assembly, packaging, and lab/pharma/personal care. However, limited orientation freedom means many 3D pose-intensive processes (e.g., multi-angle fastening or complex finishing paths) favor six-axis cobots, while pure pick-and-place is often addressed by cost-effective SCARA or delta robots. As a result, four-axis cobots tend to penetrate as “best-fit solutions” for specific workstations rather than a universal platform. Industry trends point to higher power density, lighter weight, better repeatability, and tighter integration of collaborative safety functions, along with deeper integration with vision guidance, force control, tool changers, and industrial networking/IO-Link to reduce integration and commissioning effort via application packages. Growth is driven by labor constraints, tightening safety compliance, increasing demand for flexible manufacturing and fast changeovers, and the need to reduce downtime and improve OEE. Challenges include a smaller supplier ecosystem than six-axis cobots, added complexity from collaborative safety certification and on-site risk assessment, and higher requirements for sealing, protection, and lifetime validation in harsh environments—combined with cost volatility in core components (servo systems, reducers, sensors), which can affect total cost of ownership and scaling.

This report studies the global Four-Axis Collaborative Robotic Arm production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Four-Axis Collaborative Robotic Arm total production and demand, 2021-2032, (K Units)

Global Four-Axis Collaborative Robotic Arm total production value, 2021-2032, (USD Million)

Global Four-Axis Collaborative Robotic Arm production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Four-Axis Collaborative Robotic Arm consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Four-Axis Collaborative Robotic Arm domestic production, consumption, key domestic manufacturers and share

Global Four-Axis Collaborative Robotic Arm production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Four-Axis Collaborative Robotic Arm production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Four-Axis Collaborative Robotic Arm production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Four-Axis Collaborative Robotic Arm 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, EPSON Robots, Staubli, Omron, 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 Four-Axis Collaborative Robotic Arm 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 Four-Axis Collaborative Robotic Arm Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Four-Axis Collaborative Robotic Arm Market, Segmentation by Type:

Load ≤20Kg

Load>20Kg

Global Four-Axis Collaborative Robotic Arm Market, Segmentation by Working Radius:

400–600 mm

700–1000 mm

1100–1600 mm

Others

Global Four-Axis Collaborative Robotic Arm Market, Segmentation by Installation Methods:

Tabletop

Wall-Mounted

Floor-Standing

Global Four-Axis Collaborative Robotic Arm Market, Segmentation by Application:

Electronic

Medical Industry

Military

Aerospace Industry

Logistics Industry

Automobile Industry

Food Industry

Others

Companies Profiled:

FANUC

KUKA

ABB

Yaskawa

Nachi

Kawasaki Robotics

Comau

EPSON Robots

Staubli

Omron

DENSO Robotics

Panasonic

Mitsubishi Electric

Yamaha

Universal Robots

Hyundai Robotics

EVS Robotics

Shanghai STEP Electric

ESTUN

LBBBD

Zhejiang Qianjiang Robot

Shanghai TURIN Chi Robot

Tamasec Robot

ROKAE

Guangdong Topstar Technology

Hitbot

EFORT

Huayan Robotics

ADTECH

Dobot

Key Questions Answered:

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

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