

# Global Collaborative Robots in Manufacturing 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 Collaborative Robots in Manufacturing market size was valued at US\$ 918 million in 2025 and is forecast to a readjusted size of US\$ 1456 million by 2032 with a CAGR of 6.2% during review period.

Collaborative Robots in Manufacturing refers to collaborative robots (cobots) deployed in manufacturing plants to perform production and shop-floor operations in close proximity to human workers under defined safety functions. These systems typically include the robot arm, controller, safety features, and application tooling (e.g., grippers, screwdrivers, dispensing valves, vision), and are used for tasks such as machine tending/loading & unloading, assembly and screwdriving, packaging, inspection/testing, polishing/grinding, welding, and palletizing/depalletizing. Compared with general-purpose cobots, manufacturing cobots emphasize stable takt time, repeatable accuracy, integration with industrial equipment and PLC/vision systems, and fast changeovers to support high-mix, variable production. In 2025, shipments of collaborative robots in manufacturing reached 74,125 units, with an average price of US\$12,042 per unit.

Collaborative Robots in Manufacturing refer to collaborative robotic systems deployed in factory and shop-floor production environments that can operate in close proximity to human workers under defined safety functions. They are typically centered on 6-axis/7-axis single-arm collaborative manipulators, and are equipped with controllers, safety functions, teach-and-program software, and application tooling such as end effectors and vision systems. These systems enable flexible automation for typical manufacturing processes including machine tending/loading & unloading, assembly, screwdriving/screw fastening, dispensing, inspection, polishing and grinding, welding, and palletizing/depalletizing. From a statistical and market-definition perspective, this

segment emphasizes deployment in “manufacturing scenarios,” with the application boundary defined around plant production and shop-floor operations, distinct from non-manufacturing scenarios such as commercial services, medical and scientific research, and warehousing/distribution logistics. In terms of industry scale and growth drivers, manufacturing cobots are primarily driven by high-mix/low-volume production, labor cost and workforce volatility, rising requirements for quality consistency and traceability, and the need for flexible production-line upgrades. On the demand side, adoption has been particularly strong in electronics and semiconductors, automotive components and 3C assembly, metalworking and machining workshops, lithium-battery and PV manufacturing, and food and daily-chemical packaging. Among these, “material handling/machine tending, assembly/screwdriving, packaging and palletizing/depalletizing, and inspection/testing” are the most readily replicable and scalable scenarios, while processes such as polishing/grinding, welding, and dispensing rely more heavily on application packages and accumulated on-site process know-how, and therefore exhibit a stronger project-based delivery profile. From a product and application structure perspective, manufacturing cobots can be segmented by payload and reach into light-, mid-, and higher-payload tiers, and are typically delivered through a modular ecosystem of “robot body + end-effector tooling,” such as grippers/vacuum tools, electric screwdrivers, dispensing valves, welding torches, and cameras/vision systems. For manufacturing customers, selection decisions generally prioritize takt-time stability, repeatable positioning accuracy, integration capability with machine tools/production lines/PLC and vision systems, fast changeover capability, and fault self-diagnosis and remote operation & maintenance. In terms of delivery model, standalone robot sales are more common for standardized stations and customers with stronger secondary development capability, while “standardized workcells/industry solutions” are more conducive to scalable replication and higher certainty of project delivery. From the perspective of cost structure, single-line capacity, and profitability, the system cost of manufacturing cobots is mainly composed of core components (reducers, servos and drives, controllers, encoders/sensing and safety components), structural parts machining, assembly and testing, software and application packages, end effectors, and integration and commissioning. Among these, performance consistency and supply stability of key components directly affect overall yield and delivery lead time. On the manufacturing side, assembly and burn-in testing of collaborative arms are one of the capacity bottlenecks; under mature processes, the annual capacity of a single assembly-and-test line is typically 1,000–3,000 units, depending on model changeover frequency, test duration, and the supply cadence of key components. In terms of margins, gross margin for the robot body is commonly 20%–35%; when combined with end effectors and software application packages and delivered as workcells/solutions, overall gross margin is typically 30%–45%. As price competition intensifies, body-level margins face

greater pressure, whereas companies with stronger process packages and delivery systems are better positioned to sustain profitability through system-level delivery. From the perspective of value chain structure, competitive landscape, and development trends, upstream includes core component suppliers such as reducers, servo systems, controllers, sensors, and safety components; midstream comprises collaborative robot OEMs and software platforms/ecosystem partners; downstream consists of manufacturing end users and system integrators jointly driving deployment. Competitive focus is shifting from pure parameter benchmarking toward a comprehensive capability set spanning reliability and ease of use, accumulation of process packages, channel coverage and delivery efficiency, after-sales responsiveness, and full lifecycle operation and maintenance. Looking ahead, the sector is expected to evolve toward higher payload and higher protection levels, stronger vision and AI-based perception, faster deployment and lower programming thresholds, and deeper standardization of workcells and industry solutions. As manufacturing customers move from pilots to scaled replication, engineering capability centered on availability, takt time, and yield will become a decisive factor in gaining market share.

This report is a detailed and comprehensive analysis for global Collaborative Robots in Manufacturing 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 Collaborative Robots in Manufacturing market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Collaborative Robots in Manufacturing market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/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 Collaborative Robots in Manufacturing

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 Collaborative Robots in Manufacturing 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 Universal Robots, FANUC, Aubo (Beijing) Robotics Technology, ABB, JAKA Robotics, KUKA, Techman Robot, Dobot, Yaskawa Electric, Guangdong Huayan Robotics, etc.

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

### **Market Segmentation**

Collaborative Robots in Manufacturing 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**

Below 5 kg

5-10 kg

More Than 10 kg

#### **Market segment by Number of Joint Axes**

4-axis

6-axis

7-axis

### **Market segment by Application Scenarios**

Material Handling/Loading & Unloading

Assembly

Screwdriving/Screw Fastening

Polishing & Grinding

Depalletizing/Palletizing

Dispensing/Gluing

Welding

Spraying/Coating

Others

### **Market segment by Application**

Electronics

Automobile

Semiconductors

Mechanical Processing

## Major players covered

Universal Robots

FANUC

Aubo (Beijing) Robotics Technology

ABB

JAKA Robotics

KUKA

Techman Robot

Dobot

Yaskawa Electric

Guangdong Huayan Robotics

Suzhou Elite Robot

Doosan Robotics

ROKAE

Flexiv

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 Collaborative Robots in Manufacturing product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Collaborative Robots in Manufacturing 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 Collaborative Robots in Manufacturing 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 Collaborative Robots in Manufacturing.

Chapter 14 and 15, to describe Collaborative Robots in Manufacturing sales channel, distributors, customers, research findings and conclusion.

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