

Collaborative Robots Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Payload (5–10 Kgs, Up to 5 Kgs, and Above 10 Kgs), Application (Assembly, Pick and Place, Material Handling, Quality Testing, Machine Tending, Welding, Packaging, and Others), Type (Robotic Arm, Welding Guns, Grippers, and Others), End-user Industry (Automotive, Electronics, Metal and Machinery, Food and Beverage, Logistics, Pharmaceuticals, and Others), Functionality (Static Robot and Mobile Robot), and Geography

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Abstracts

The collaborative robots market size is expected to reach US\$ 14.67 billion by 2031 from 1.52 billion in 2023, at an estimated CAGR of 32.7% from 2023 to 2031.

By Geography the Collaborative Robots market is segmented into North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America. In 2023, the North America regions is growing with a significant growth rate. The manufacturing industry plays a vital role in North America. The availability of efficient infrastructure in developed nations such as the US and Canada has enabled manufacturing companies to explore the limits of science, technology, and commerce. The US manufacturing sector contributed US\$ 2.3 billion to its GDP in 2023, as reported by the National Institute of Standards and Technology. The country witnessed a shift toward a service-

based economy. This shift was attributed to several factors, including the growth of the healthcare sector owing to increasing healthcare costs. This has resulted in the country's loss of global manufacturing market share. Another major factor was the high standard of living in the US compared to other developing economies across the globe, which made the US less cost-competitive due to high labor costs.

The US manufacturing industry is expected to grow rapidly in the coming years due to several favorable factors, including increased productivity owing to the presence of new technologies; decreasing gas prices; rising labor costs in emerging markets; as well as better protection available to companies regarding their intellectual property.

Manufacturing in Canada is majorly expanding with improving production outcomes of coal, metal, and oil products. Canada is experiencing a declining dollar and availability of cheaper power. Moreover, the manufacturing industry in Mexico is witnessing significant growth due to government initiatives for attracting FDIs, as well as its proximity to the US, and ability to achieve cost-competitiveness due to NAFTA. Also, the automotive industry in Mexico is experiencing a paradigm shift, with many huge automobile companies constructing their plants in the country. A few of the companies that recently opened their plants in the country are Kia Motors, Mercedes-Benz, Nissan, Audi, and General Motors.

Thus, the manufacturing industry in North America gives significant importance to the country's economy and workforce, which further drives the demand for supremely efficient manufacturing tools such as collaborative robots. A few of the major manufacturing industries in the region are aerospace, automotive, and construction.

The Collaborative Robots market analysis has been carried out by considering the following segments: payload, application, type, end-user industry, and functionality.

Based on payload, the market is segmented into 5-10 Kgs, upto 5 Kgs and above 10 Kgs. Over the years, the collaborative robots have become an indispensable fragment of the production industry's transformation to the novel era of manufacturing. During the initial days of the development of collaborative robots, they were used for limited applications such as pick and place and welding. However, the increased importance of these devices in the manufacturing industry and observed results with higher outputs and efficiencies have led to significant traction in the demand from the heavy-duty industries. Incapabilities of human labor to efficiently work with heavy payloads in tasks such as assembly line placing and material handling demand an automated solution. Various end-user industries are implementing collaborative robots with higher payload

capacities. Key applications of this category of collaborative robots include milling, material handling, and welding. The leading companies providing collaborative robots with payload capacity from 5 to 10 kg include Universal Robots, Rethink Robotics, FANUC Corporation, and KUKA.

Moreover, factor such as government support for the development and deployment of robotics propel the collaborative robots market growth. Also, mobile collaborative robots is expected to bring new collaborative robots market trends in the coming years.

By application, the market is categorized into assembly, pick and place, material handling, quality testing, machine tending, welding, packaging and others. The assembly process is the actual trend in the automotive, electronics, and machine industries. Assembly of products is one of the oldest forms of industrial production and has gone through a transformation in the era of automation. Robots reduce the chances of errors and parts damage that can occur while applying a human workforce. Collaborative robots are gaining traction in this industry along with Cartesian robots. Improved process quality and speed while alleviating the risk of injury related to working in close proximity to heavy machinery has given rise to collaborative robots across industries. Also, a reduction in assembly lines, increased production speeds, and quality are achieved through the use of collaborative robots.

Kuka AG, Yaskawa America Inc, Aubo (Beijing) Robotics Technology Co Ltd, Doosan Robotics Inc, Fanuc Corp, ABB Ltd, Rethink Robotics GmbH, Techman Robot Inc, Kawasaki Heavy Industries Ltd, Bosch Rexroth AG, Teradyne Inc, Denso Corp, Comau SpA, SIASUN Robot & Automation CO., Ltd, Agile Robots SE, Azenta, Inc., Svaya Robotics Pvt. Ltd., Productive Robotics, LLC, and ESTUN AUTOMATION CO., LTD. are among the key players profiled in the Collaborative Robots market report.

The collaborative robots market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the collaborative robots market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the collaborative robots market.

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