

# **India Collaborative Robot Market, by Payload Capacity (Up to 5 Kg, between 5 and 10 Kg and Above 10 Kg), By Application (Assembly, Pick & Place, Machine Tending and Others), By Industry (Automotive, Electronics, Metals & Machining, Plastics & Polymers, and Others), By Region, Competition Forecast and Opportunities, 2029**

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## **Abstracts**

The India collaborative robot market is anticipated to develop rapidly in the forecast period.

The main factors driving the market for collaborative robots are the development of various applications for the assembly and production of electronic goods, new automotive processes, and various modeling operations used in small and medium-sized manufacturing companies. Cobots, also called collaborative robots, can develop a wide range of tasks to assist people. Moreover, built-in sensors, passive compliance, and overcurrent detection are some of the safety features that collaborative robots have. Collaborative robotics have had a substantial growth over the last ten years.

Robotics is growing in the Indian market and has recognized in the tech market. However, India is a slow but emerging robotics industry as various educational institutions, and robotics companies have in progress competitions and workshops for students and professionals on Indian robots. Globalization has made it likely for robots made in India to get promoted in the foreign markets and yield higher revenue for the country and have an technology such as AI and IoT to generate smart functionalities. According to International Federation of Robotics, the county comes under top 15 highest number of recorded robot installations in 2020 with 4.9 million robots deployed.

The country is witnessing a growing demand for robots for speed, safety, scale, and success in automotive, ecommerce, electronics, and defense sectors.

#### Increase in applications for manufacturing across the region

Cobots, or collaborative robots, are a new robotics paradigm in which robots and humans collaborate on the same projects, and they represent a significant advancement in robotics with enormous potential for many industries, including manufacturing. Artificial intelligence, machine learning, neural networks, and sensors that detect force, torque, and vision have all improved.

In 2022, Nokia Corporation formed partnership with IISc to set up the Nokia Centre of Excellence in Network Robotics at IISc Bangalore to promote robotics and advanced communications technologies in 5G and Artificial Intelligence. Under the partnership, it would strengthen the design of advanced robotics, AI, and automation solutions.

#### Faster ROI and low-cost deployment

Collaborative robots have been scientifically proven more cost-effective than their industrial counterparts, primarily due to their ability to automate more tasks per robot and significant productivity boost. Moreover, the ease of creating a collaborative robot reduces the time and resources required for integration, lowering the automation investment. Collaborative robots include safety features and do not require fences or other industrial safety equipment, thus, reducing costs while shortening integration time. When compared to industrial robots, the low cost of deploying a collaborative robot makes it far more accessible to a broader customer base.

#### Increase in automation in the various verticals across the region

There is a continuous increase in automation across various verticals in India. Several large-scale and small-scale industries have made automation a key component of their cost-cutting and production-efficiency strategies. The use of collaborative robots is growing as more and more businesses are shifting toward automation. Collaborative robots are used in various industries, such as automotive, furniture & equipment, and metals & machining, for assembly, pick & place, machine tending, quality testing, material handling, packaging & palletizing, gluing & welding, and other applications. Collaborative robot adoption is increasing because of the rapidly changing human-machine interface (HMI), which is made possible by introducing touch screens, larger screens, higher resolution, remote monitoring capabilities using advanced processors,

and IIOT.

### High requirement for skilled workforce

Manufacturers have found it more difficult to hire employees to fill specialized tasks in their factories over the last decade. The presence of automation complicates matters further, as the robots require programming and knowledge of how to operate. This gives existing employees more opportunities to be trained and expand their skill set. An automation company can assist with the initial installation and setup. Staff can learn new skills and adapt to managing robots with the right training and experience. As a result, the need for a highly skilled team and workforce may stymie the market growth of collaborative robots.

### Market Segmentation

The India Collaborative Robot market is divided into Payload Capacity, Application, and Industry. Based on payload capacity, the market is divided into up to 5 Kg, between 5 and 10 Kg, and above 10 Kg. On the basis of application, the market is divided into assembly, pick & place, machine tending, quality testing, material handling, packaging & palletizing, gluing & welding, and others. On the basis of industry, the market is further split into automotive, furniture & equipment, and metals & machining.

The demand for automation in manufacturing is driving the market for collaborative robots and is expected to register a rapid CAGR during the forecast period.

### Market Players

Some of the leading players in the Indian Collaborative Robots Market are, ABB AB, Addverb Technologies, KUKA Robotics, Robert Bosch GmbH, GreyOrange, Sastra Robotics India Private Limited, Precise Automation, Inc., Lockheed Martin India Private Limited, Techasoft Private Limited, and DiFACTO Robotics, and many more.

### Key developments and initiatives by government and companies

In India, Tata Consultancy Services and National Robotarium, a research and development center at Heriot-Watt University, Scotland, formed a partnership to elevate early-stage Artificial Intelligence and robotics product development, including soft robotics, field robotics bots and teleoperations. Furthermore, Nokia corporation formed partnership with IISc to set up the Nokia Centre of

Excellence in Network Robotics at IISc Bangalore to promote robotics and advanced communications technologies in 5G and Artificial Intelligence. Thiruvananthapuram-based robotics startup Genrobotics formed partnership with the Kerala government to install a spider-shaped robot named Bandicoot to clean sewers and manholes in Thiruvananthapuram.

In 2019, Universal Robots partnered with Bharat Fritz Werner, India. This collaboration assists Universal Robots in redefining production processes through introducing its robotic arms.

### Report Scope:

In this report, the India Collaborative robot market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

#### India Collaborative Robot Market, By Payload Capacity:

Up to 5 Kg

Between 5 and 10 Kg

Above 10g

#### India Collaborative Robot Market, By Application:

Assembly

Pick & Place

Machine Tending

Quality Testing

Material Handling

Packaging & Palletizing

Gluing & Welding

Others

#### India Collaborative Robot Market, By Industry:

Automotive

Electronics

Metals & Machining

Plastics & Polymers

Food & Beverages

Healthcare

Furniture & Equipment

Others

#### India Collaborative robot Market, By Region:

East India

West India

North India

South India

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Collaborative Robot market.

#### Available Customizations:

*India Collaborative Robot Market, by Payload Capacity (Up to 5 Kg, between 5 and 10 Kg and Above 10 Kg), By Ap...*

With the given market data, Tech Sci Research, offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to ten).

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