

# **Articulated Robot Market by Payload (Up to 16.00 kg, 16.01–60.00 kg), Function (Handling, Welding, Dispensing, Assembly), Industry (Automotive, Electrical & Electronics, Metal & Machinery, Food & Beverages), and Geography - Global Forecast to 2023**

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## **Abstracts**

“Articulated robot market expected to grow at significant rate between 2018 and 2023”

The articulated robot market is expected to grow from USD 10.92 billion in 2018 to USD 23.51 billion by 2023, at a CAGR of 16.58% during the forecast period; the market is expected to register a shipment of 245,012 units in 2018 and is projected to reach 548,566 units by 2023, at a CAGR of 17.49% during the forecast period. Major drivers for the articulated robot market are increasing adoption of automation and growing demand from small and medium-sized enterprises (SMEs) in developing countries. However, one of the major factors restraining the growth of the articulated robot market is the high overall cost of installation for low-volume production applications.

“Articulated robot market for robots with payload carrying capacity of 16.01–60.00 kg to grow at high rate between 2018 and 2023”

The articulated robot market for robots with payload carrying capacity of 16.01–60.00 kg is expected to grow at a significant rate between 2018 and 2023. The robots with payload carrying capacity of 16.01–60.00 kg are mainly adopted in the automotive industry for arc welding, spot welding, and painting applications, especially for compact 3- and 4-wheelers. Further, the growing demand for electric vehicles worldwide is the key factor that is expected to propel the growth of the market for articulated robots with payload carrying capacity of 16.01–60.00 kg.

“Handling function to hold largest share of articulated robot market in 2018”

Owing to the high rate of adoption of articulated robots in the automotive industry for handling heavy automotive parts and in the metal and machinery industry for handling heavy metal sheets and components, the handling function is expected to hold the largest share of the articulated robot market in 2018. However, the market for processing function is expected to grow at the highest CAGR during the forecast period.

“Articulated robot market in APAC to grow at highest rate during forecast period”

APAC is expected to hold the largest share of the articulated robot market in 2018 and is also expected to grow at the highest CAGR during the forecast period. The countries such as China, Japan, South Korea, and India are the key contributors to this growth. The articulated robots have been adopted in these countries for a myriad of industrial applications. However, Europe is expected to hold the second-largest share of the articulated robot market in 2018. The presence of a few top robot manufacturers, such as ABB (Switzerland) and KUKA (Germany), and also the presence of integrators, such as TRAPO AG (Germany), Toolmotion GmbH (Germany), and NIMAK GmbH (Germany), help the manufacturing as well as general industries to adopt articulated robots for achieving complete automatization. Also, the high rate of technological developments in the automotive industry is the key factor driving the growth of the market in Europe.

Breakdown of profile of primary participants:

By Company Type: Tier 1 = 35%, Tier 2 = 45%, and Tier 3 = 20%

By Designation: C-level Executives = 40%, Directors = 25%, and Others = 40%

By Region: North America = 25%, Europe = 20%, APAC = 40%, and RoW = 15%

ABB (Switzerland), KUKA (Germany), Mitsubishi Electric (Japan), Fanuc (Japan), Kawasaki Heavy Industries (Japan), Denso (Japan), Omron Adept Technologies (US), Nachi-Fujikoshi (Japan), Yaskawa (Japan), and Seiko Epson (Japan) are some of the major companies dominating the articulated robot market.

Research Coverage

*Articulated Robot Market by Payload (Up to 16.00 kg, 16.01–60.00 kg), Function (Handling, Welding, Dispensing,...*

Articulated robots refer to industrial robots that are automatically controlled, reprogrammable, and multipurpose manipulator (robotic arm) and can be adopted for industrial automation applications. The articulated robot market has been segmented on the basis of payload, function, industry, and geography. Depending on the payload carrying capacity, the market has been segmented into up to 16.00 kg, 16.01–60.00 kg, 60.01–225.00 kg, and more than 225.00 kg. Depending on the functions performed by the articulated robots, the market has been segmented into handling, welding, dispensing, assembly, processing, and others. The articulated robot market has been segmented on the basis of industry into automotive; electrical and electronics; chemicals, rubber, and plastics; metals and machinery; food & beverages; precision engineering and optics; pharmaceuticals and cosmetics; and others (oil & gas; paper and printing; foundry and forging; ceramics and stone; construction; textiles and clothing; supply chain management; and wood). The report also forecasts the size and volume of the articulated robot market in 4 main regions—North America, Europe, APAC, and RoW.

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the articulated robot market comprehensively and provides the closest approximations of the overall market size and volume and that of the subsegments across different industries, functions, and regions.
2. The report helps stakeholders understand the pulse of the market and provides them the information on key market drivers, restraints, challenges, and opportunities.
3. This report would help stakeholders understand their competitors better and gain more insights to enhance their position in the business. The competitive landscape section includes competitor ecosystem, and product launches, partnerships, and mergers & acquisitions carried out in the articulated robot market.

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## About

According to the new market research report "Articulated Robot Market by Payload (Up to 16.00 kg, 16.01–60.00 kg), Function (Handling, Welding, Dispensing, Assembly), Industry (Automotive, Electrical & Electronics, Metal & Machinery, Food & Beverages), and Geography - Global Forecast to 2023", on the articulated robot market, the market is expected to grow from USD 10.92 Billion in 2018 to USD 23.51 Billion by 2023, at a CAGR of 16.58% during the forecast period. The growth of the articulated robot market is driven by factors such as increasing growing investments for automation in various industries and growing demand from SMEs in developing countries.

**The articulated robot market is currently dominated by players such as:**

FANUC (Japan),

ABB (Switzerland),

Yaskawa (Japan),

KUKA (Germany), and

Mitsubishi (Japan).

CMA Robotics S.p.A. (Italy), Anhui Efort Intelligent Equipment (China), Precise Automation, Inc. (US), and F&P Robotics AG (Switzerland) are some of the emerging players in the articulated robot market.

### **Robots with payload carrying capacity of up to 16.00 kg to capture largest share of articulated robot market in 2018**

Robots with payload carrying capacity of up to 16.00 kg are expected to hold the largest share of the articulated robot market in 2018 owing to increased payload capacity, work envelope, reliability, and speed, articulated robots are used in several applications, including welding, painting, assembly, packaging, palletizing, depalletizing, machine tending, sealing, gluing, cutting, cleaning, deburring, die casting, grinding, polishing, material handling, case packing, pick and place, pre-machining, and press brake tending.

## **Articulated robot market for metal and machinery industry to grow at high rate during forecast period**

The metals and machinery industry has been among the versatile industries for automation solutions. It performs several functions ranging from small details to higher performance in complex tasks. With growing demand for machines in industries, such as agriculture, packaging, and manufacturing, for various applications, the articulated robot market for the metals and machinery industry is expected to grow at a high rate during the forecast period.

## **APAC to hold largest share of articulated robot market during forecast period**

Among the 4 regions considered (North America, Europe, APAC, and RoW) in the report, APAC is expected to hold the largest share of the articulated robot market during the forecast period (2018–2023). Adoption of articulated robots by countries such as China, India, Japan, and South Korea for a myriad of industrial applications contribute to the growth of the articulated robot market in APAC. Also, the low cost of production enables various manufacturers to set up their manufacturing units in APAC.

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