

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 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.



Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 DEFINITION
- 1.3 STUDY SCOPE
- 1.3.1 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Breakdown of primaries
 - 2.1.3 SECONDARY AND PRIMARY RESEARCH
 - 2.1.3.1 key industry insights
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS AND LIMITATIONS
 - 2.4.1 ASSUMPTIONS
 - 2.4.2 LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE MARKET OPPORTUNITIES IN ARTICULATED ROBOT MARKET
- 4.2 ARTICULATED ROBOT MARKET, BY PAYLOAD
- 4.3 ARTICULATED ROBOT MARKET, BY INDUSTRY
- 4.4 ARTICULATED ROBOT MARKET IN APAC, COUNTRY VS INDUSTRY
- 4.5 ARTICULATED ROBOT MARKET, BY COUNTRY



5 MARKET OVERVIEW

- 5.1 INTRODUCTION
- 5.2 MARKET DYNAMICS: OVERVIEW
 - 5.2.1 DRIVERS
 - 5.2.1.1 Increasing investments for automation in industries
 - 5.2.1.2 Growing demand from SMEs in developing countries
 - 5.2.2 RESTRAINTS
 - 5.2.2.1 High overall installation cost for low-volume production applications
 - 5.2.3 OPPORTUNITIES
- 5.2.3.1 Increasing demand for low-cost articulated robots capable of working in collaboration with humans
 - 5.2.4 CHALLENGES
- 5.2.4.1 Manufacturing advanced robotic systems to meet customer requirements in the era of IIoT
 - 5.2.4.2 Addressing the need to safely handle industrial-grade operations
- 5.3 VALUE CHAIN ANALYSIS

6 ARTICULATED ROBOT MARKET, BY PAYLOAD

- 6.1 INTRODUCTION
- 6.2 UP TO 16.00 KG
- 6.3 16.01-60.00 KG
- 6.4 60.01-225.00 KG
- 6.5 MORE THAN 225.00 KG

7 ARTICULATED ROBOT MARKET, BY FUNCTION

- 7.1 INTRODUCTION
- 7.2 HANDLING
- 7.3 WELDING
- 7.4 DISPENSING
- 7.5 ASSEMBLY
- 7.6 PROCESSING
- 7.7 OTHERS

8 ARTICULATED ROBOT MARKET, BY INDUSTRY

8.1 INTRODUCTION



- **8.2 AUTOMOTIVE**
- 8.3 ELECTRICAL AND ELECTRONICS
- 8.4 METALS AND MACHINERY
- 8.5 CHEMICALS, RUBBER, AND PLASTICS
- 8.6 FOOD & BEVERAGES
- 8.7 PRECISION ENGINEERING AND OPTICS
- 8.8 PHARMACEUTICALS AND COSMETICS
- 8.9 OTHERS

9 GEOGRAPHIC ANALYSIS OF ARTICULATED ROBOT MARKET

- 9.1 INTRODUCTION
- 9.2 NORTH AMERICA
 - 9.2.1 US
 - **9.2.2 CANADA**
 - **9.2.3 MEXICO**
- 9.3 EUROPE
 - 9.3.1 GERMANY
 - **9.3.2 FRANCE**
 - 9.3.3 UK
 - 9.3.4 ITALY
 - 9.3.5 SPAIN
 - 9.3.6 REST OF EUROPE
- 9.4 APAC
 - 9.4.1 CHINA
 - 9.4.2 JAPAN
 - 9.4.3 SOUTH KOREA
 - 9.4.4 INDIA
 - 9.4.5 REST OF APAC
- 9.5 ROW
 - 9.5.1 SOUTH AMERICA
 - 9.5.2 MIDDLE EAST AND AFRICA

10 COMPETITIVE LANDSCAPE

- 10.1 INTRODUCTION
- 10.2 ARTICULATED ROBOT MARKET RANKING ANALYSIS, 2017
- 10.3 COMPETITIVE SITUATIONS AND TRENDS
 - 10.3.1 PRODUCT LAUNCHES



- 10.3.2 PARTNERSHIPS AND COLLABORATIONS
- 10.3.3 EXPANSIONS
- 10.3.4 CONTRACTS AND AGREEMENTS
- 10.3.5 ACQUISITIONS

11 COMPANY PROFILES

11.1 KEY PLAYERS

(Business overview, Products offered, Recent developments, MNM view, SWOT analysis)*

- 11.1.1 ABB
- 11.1.2 FANUC
- 11.1.3 KUKA
- 11.1.4 YASKAWA
- 11.1.5 KAWASAKI HEAVY INDUSTRIES
- 11.1.6 MITSUBISHI ELECTRIC
- 11.1.7 DENSO
- 11.1.8 NACHI-FUJIKOSHI
- 11.1.9 OMRON
- 11.1.10 SEIKO EPSON

11.2 OTHER KEY PLAYERS

- 11.2.1 ST?UBLI INTERNATIONAL
- 11.2.2 DAIHEN
- 11.2.3 CMA ROBOTICS SPA
- 11.2.4 YAMAHA MOTOR
- 11.2.5 ENGEL
- 11.2.6 COMAU SPA
- 11.2.7 AUROTEK
- 11.2.8 TOSHIBA MACHINE
- 11.2.9 ACMI SPA
- 11.2.10 CASSIOLI SRL

12 APPENDIX

^{*}Business overview, Products offered, Recent developments, MNM view, SWOT analysis might not be captured in case of unlisted companies.



- 12.1 DISCUSSION GUIDE
- 12.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 12.3 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
- 12.4 AVAILABLE CUSTOMIZATIONS
- 12.5 RELATED REPORTS
- 12.6 AUTHOR DETAILS



List Of Tables

LIST OF TABLES

Table 1 ARTICULATED ROBOT MARKET, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 2 ARTICULATED ROBOT MARKET, BY PAYLOAD, 2015–2023 (UNITS)

Table 3 ARTICULATED ROBOT MARKET FOR PAYLOAD UP TO 16.00 KG, BY INDUSTRY, 2015–2023 (USD MILLION)

Table 4 ARTICULATED ROBOT MARKET FOR PAYLOAD UP TO 16.00 KG, BY INDUSTRY, 2015–2023 (UNITS)

Table 5 ARTICULATED ROBOT MARKET FOR PAYLOAD OF 16.01–60.00 KG, BY INDUSTRY, 2015–2023 (USD MILLION)

Table 6 ARTICULATED ROBOT MARKET FOR PAYLOAD OF 16.01 KG-60.00 KG, BY INDUSTRY, 2015–2023 (UNITS)

Table 7 ARTICULATED ROBOT MARKET FOR PAYLOAD OF 60.01 KG-225.00 KG, BY INDUSTRY, 2015-2023 (USD MILLION)

Table 8 ARTICULATED ROBOT MARKET FOR PAYLOAD OF 60.01 KG-225.00 KG, BY INDUSTRY, 2015–2023 (UNITS)

Table 9 ARTICULATED ROBOT MARKET FOR PAYLOAD MORE THAN 225.00 KG, BY INDUSTRY, 2015–2023 (USD MILLION)

Table 10 ARTICULATED ROBOT MARKET FOR PAYLOAD MORE THAN 225.00 KG, BY INDUSTRY, 2015–2023 (UNITS)

Table 11 ARTICULATED ROBOT MARKET, BY FUNCTION, 2015–2023 (USD MILLION)

Table 12 ARTICULATED ROBOT MARKET, BY INDUSTRY, 2015–2023 (USD BILLION)

Table 13 ARTICULATED ROBOT MARKET, 2015–2023

Table 14 ARTICULATED ROBOT MARKET, BY INDUSTRY, 2015–2023 (USD MILLION)

Table 15 ARTICULATED ROBOT MARKET, BY INDUSTRY, 2015–2023 (UNITS)

Table 16 ARTICULATED ROBOT MARKET FOR AUTOMOTIVE INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 17 ARTICULATED ROBOT MARKET FOR AUTOMOTIVE INDUSTRY IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 18 ARTICULATED ROBOT MARKET FOR AUTOMOTIVE INDUSTRY IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 19 ARTICULATED ROBOT MARKET FOR AUTOMOTIVE INDUSTRY IN APAC, BY COUNTRY, 2015–2023 (UNITS)

Table 20 ARTICULATED ROBOT MARKET FOR AUTOMOTIVE INDUSTRY IN ROW,



BY REGION, 2015-2023 (UNITS)

Table 21 ARTICULATED ROBOT MARKET FOR AUTOMOTIVE INDUSTRY, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 22 ARTICULATED ROBOT MARKET FOR ELECTRICAL AND ELECTRONICS INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 23 ARTICULATED ROBOT MARKET FOR ELECTRICAL AND ELECTRONICS INDUSTRY IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 24 ARTICULATED ROBOT MARKET FOR ELECTRICAL AND ELECTRONICS INDUSTRY IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 25 ARTICULATED ROBOT MARKET FOR ELECTRICAL AND ELECTRONICS INDUSTRY IN APAC, BY COUNTRY, 2015–2023 (UNITS)

Table 26 ARTICULATED ROBOT MARKET IN ROW FOR ELECTRICAL AND ELECTRONICS INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 27 ARTICULATED ROBOT MARKET FOR ELECTRICAL AND ELECTRONICS INDUSTRY, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 28 ARTICULATED ROBOT MARKET FOR METALS AND MACHINERY INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 29 ARTICULATED ROBOT MARKET FOR METALS AND MACHINERY INDUSTRY IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 30 ARTICULATED ROBOT MARKET FOR METALS AND MACHINERY INDUSTRY IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 31 ARTICULATED ROBOT MARKET FOR METALS AND MACHINERY INDUSTRY IN APAC, BY COUNTRY, 2015–2023 (UNITS)

Table 32 ARTICULATED ROBOT MARKET FOR METALS AND MACHINERY INDUSTRY IN ROW, BY REGION, 2015–2023 (UNITS)

Table 33 ARTICULATED ROBOT MARKET FOR METAL AND MACHINERY INDUSTRY, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 34 ARTICULATED ROBOT MARKET FOR PLASTICS, RUBBER, AND CHEMICALS INDUSTRIES, BY REGION, 2015–2023 (UNITS)

Table 35 ARTICULATED ROBOT MARKET FOR PLASTICS, RUBBER, AND

CHEMICALS INDUSTRIES IN NORTH AMERICA, BY COUNTRY, 2015-2023 (UNITS)

Table 36 ARTICULATED ROBOT MARKET FOR PLASTICS, RUBBER, AND

CHEMICALS INDUSTRIES IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 37 ARTICULATED ROBOT MARKET FOR PLASTICS, RUBBER, AND

CHEMICALS INDUSTRIES IN APAC, BY COUNTRY, 2015-2023 (UNITS)

Table 38 ARTICULATED ROBOT MARKET FOR PLASTICS, RUBBER, AND

CHEMICALS INDUSTRIES IN ROW, BY REGION, 2015–2023 (UNITS)

Table 39 ARTICULATED ROBOT MARKET FOR PLASTICS, RUBBER, AND CHEMICALS INDUSTRIES, BY PAYLOAD, 2015–2023 (USD MILLION)



Table 40 ARTICULATED ROBOT MARKET FOR FOOD & BEVERAGES INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 41 ARTICULATED ROBOT MARKET FOR FOOD & BEVERAGES INDUSTRY IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 42 ARTICULATED ROBOT MARKET FOR FOOD & BEVERAGES INDUSTRY IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 43 ARTICULATED ROBOT MARKET FOR FOOD & BEVERAGES INDUSTRY IN APAC, BY COUNTRY, 2015–2023 (UNITS)

Table 44 ARTICULATED ROBOT MARKET FOR FOOD & BEVERAGES INDUSTRY IN ROW, BY REGION, 2015–2023 (UNITS)

Table 45 ARTICULATED ROBOT MARKET FOR FOOD & BEVERAGES INDUSTRY, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 46 ARTICULATED ROBOT MARKET FOR PRECISION ENGINEERING AND OPTICS INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 47 ARTICULATED ROBOT MARKET FOR PRECISION ENGINEERING AND OPTICS INDUSTRY IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 48 ARTICULATED ROBOT MARKET FOR PRECISION ENGINEERING AND OPTICS INDUSTRY IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 49 ARTICULATED ROBOT MARKET FOR PRECISION ENGINEERING AND OPTICS INDUSTRY IN APAC, BY COUNTRY, 2015–2023 (UNITS)

Table 50 ARTICULATED ROBOT MARKET FOR PRECISION ENGINEERING AND OPTICS INDUSTRY IN ROW, BY REGION, 2015–2023 (UNITS)

Table 51 ARTICULATED ROBOT MARKET FOR PRECISION ENGINEERING AND OPTICS INDUSTRY, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 52 ARTICULATED ROBOT MARKET FOR PHARMACEUTICALS AND COSMETICS INDUSTRY, BY REGION, 2015–2023 (UNITS)

Table 53 ARTICULATED ROBOT MARKET FOR PHARMACEUTICALS AND COSMETICS INDUSTRY IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 54 ARTICULATED ROBOT MARKET FOR PHARMACEUTICALS AND

COSMETICS INDUSTRY IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 55 ARTICULATED ROBOT MARKET FOR PHARMACEUTICALS AND

COSMETICS INDUSTRY IN APAC, BY COUNTRY, 2015-2023 (UNITS)

Table 56 ARTICULATED ROBOT MARKET FOR PHARMACEUTICALS AND

COSMETICS INDUSTRY IN ROW, BY REGION, 2015–2023 (UNITS)

Table 57 ARTICULATED ROBOT MARKET FOR PHARMACEUTICALS AND

COSMETICS INDUSTRY, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 58 ARTICULATED ROBOT MARKET FOR OTHER INDUSTRIES, BY REGION, 2015–2023 (UNITS)

Table 59 ARTICULATED ROBOT MARKET FOR OTHER INDUSTRIES IN NORTH



AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 60 ARTICULATED ROBOT MARKET FOR OTHER INDUSTRIES IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 61 ARTICULATED ROBOT MARKET FOR OTHER INDUSTRIES IN APAC, COUNTRY, 2015–2023 (UNITS)

Table 62 ARTICULATED ROBOT MARKET FOR OTHER INDUSTRIES IN ROW, BY REGION, 2015–2023 (UNITS)

Table 63 ARTICULATED ROBOT MARKET FOR OTHER INDUSTRIES, BY PAYLOAD, 2015–2023 (USD MILLION)

Table 64 ARTICULATED ROBOT MARKET, BY REGION, 2015–2023 (USD MILLION)

Table 65 ARTICULATED ROBOT MARKET, BY REGION, 2015–2023 (UNITS)

Table 66 ARTICULATED ROBOT MARKET IN NORTH AMERICA, BY COUNTRY, 2015–2023 (UNITS)

Table 67 ARTICULATED ROBOT MARKET IN EUROPE, BY COUNTRY, 2015–2023 (UNITS)

Table 68 ARTICULATED ROBOT MARKET IN APAC, BY COUNTRY, 2015–2023 (UNITS)

Table 69 ARTICULATED ROBOT MARKET IN ROW, BY REGION, 2015-2023 (UNITS)

Table 70 ARTICULATED ROBOT MARKET RANKING, 2017

Table 71 PRODUCT LAUNCHES, 2015–2017

Table 72 PARTNERSHIPS AND COLLABORATIONS, 2015–2017

Table 73 EXPANSIONS, 2015–2017

Table 74 CONTRACTS AND AGREEMENTS, 2015–2017

Table 75 ACQUISITIONS, 2015–2017



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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