

Articulated Robots Market - Forecasts from 2021 to 2026

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Abstracts

The articulated robots market was evaluated at US\$11.194 billion for the year 2019 growing at a CAGR of 17.10% reaching the market size of US\$33.797 billion by the year 2026. The articulated robots market is estimated to witness a healthy growth over the forecast period. Increase in the transformation of industries towards automation has led to increase in the demand for articulated robots. It has at least two rotary joints and is mostly used in different manufacturing procedures, such as handling components, welding, dispensing, assembling, loading/unloading, cutting and painting. Articulated robotics increase operating efficacy in complex activities, and can handle harsh or dangerous heavy goods or materials. These robots are also extremely robust and economical and require minimum rest. Owing to these advantages, they are commonly used in diverse industries like the automobile, aerospace and electronics industries.

Impact of COVID-19 on the market

The outbreak of COVID-19 had a significant impact on the market of articulated robot. The lockdown restrictions across various countries affected the production activities. Fall in revenue and profits led to laying off various employees and factory workers. Decline in production in the end-user industries had a significant impact on the articulated robot market. Revival of the economies post COVID will lead to increase in the production activities thereby boosting the demand for articulated robot market.

Market Drivers

Articulated robots are used in various industries like painting, packaging, metal casting and various other industries.

The use of articulated robots reduces the operation cost of the industry and provides operational efficiency thereby encouraging its use in various industries.

There has been an increase in the investments by the automation industry in articulated robots. For tedious and risky tasks that people cannot perform, articulated robots are used.

Manufacturing firms in their operations have used robotics to increase their vehicles' efficiency and quality. Companies, like Tesla and Ford are investing heavily in robots.

The demand for automobiles has been increasing due to increase in the disposable income of the consumers thereby leading to increase in the production process and indirectly increasing the demand for articulated robots in the industry.

The labor-intensive workload of the food and beverage industry provides perfect opportunities for industrial robotic use, particularly when robots are increasingly equipped to follow high standards of safety and health. The use of articulated robots will prevent the workers from doing repetitive tasks and getting injured, rather it will help them focus on value adding activities.

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Market Restraints

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The high cost of articulated robots and its complex installations are some of the factors that will hinder growth in the market.

Complicated programming and kinematics can be a major block hindering the demand for articulated robots.

North America region to witness lucrative growth

The articulated robots' market is estimated to grow aggressively in the North America region. Owing to the increase in development and manufacturing activities, the demand for articulated robots will increase in North America. Increase in innovation and adoption of robotics in industrial activities has led to growth in the market. North America is one of the pioneers in adopting robots across various industries like automotive, electronics, metals and machinery, pharmaceuticals and various others.

On the other hand, APAC region will also witness an upsurge in the demand for articulated robots. Countries like China, South Korea, India and many others are automating the processes in manufacturing thereby increasing the demand for articulated robots in the region.

Key Players

The key players in the articulated robots market are ABB Ltd., KUKA AG, FANUC CORPORATION, DENSO Corporation, Mitsubishi Electric Corp., Kawasaki Heavy Industries Ltd., Nachi-Fujikoshi, Omron Adept Technologies, Seiko Epson, and NIMAK GmbH among others. The companies compete with each other by investing heavily in research and development and launching new advanced robots.

Segmentation

By Payload

Up to 16 Kg

16 – 60 Kg

60– 225 Kg

More Than 225 Kg

By Application

Handling and assembly

Welding

Processing

Others

By End-User

Automotive

Electrical & Electronics

Food & Beverages

Pharmaceutical

Others

By Geography

North America

U.S.

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

U.K

Germany

Italy

France

Others

Middle East and Africa

Israel

Saudi Arabia

Others

Asia-Pacific

China

Japan

South Korea

India

Others

Note: The report will be dispatched in 3 business days.

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10.8. Omron Adept Technologies

10.9. Seiko Epson

10.10. NIMAK GmbH

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