

Robot End-Effector Market - Forecasts from 2021 to 2026

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Abstracts

The global robot end-effector market is expected to grow at a compound annual growth rate of 14.21% over the forecast period to reach a market size of US\$7.640 billion in 2026 from US\$3.014 billion in 2019. The robot end-effector market is estimated to grow in the forecast period. With the advancements in technology and owing to intense competition in the industry, developing economies are more oriented toward automation and need to boost product quality along with rising production speed in order to sustain performance and productivity.

Impact of COVID-19 on the market

The robot end-effector market was severely impacted by the outbreak of covid-19. The lack of demand from the end-user industries are one of the major reasons for the fall in the market of robot end-effector. The lockdown restrictions across various countries caused the production to halt, thereby affecting the demand and supply adversely.

Market Dynamics

The rapidly increasing automation industry has raised demand for the deployment of robotics systems worldwide across diverse end-user sectors, thereby boosting the demand for robot end-effectors. This has resulted in many robotic advances to perform repetitive functions, including end-effectors for various surfaces and with varying degrees of freedom. In order to reduce the labor cost industries around the world are investing in heavily in automation. The leading manufacturers offer robots with Internet of Things connectivity (IoT), which can be conveniently connected with HMI and others within the largest industrial networking network such as Profinet, Modbus and Ethernet IP. This will boost better power diagnostics and control of engine conditions in real time.

The shortage of skilled labor particularly in the developed countries will boost the demand for robot end-effector. Increase in research and development will lead to innovation of advanced robot end-effectors which will further boost the demand in the market. The automotive industry is one of the major end users of the robot end-effectors. The use of robots for performing difficult and dangerous tasks thereby reduces the risks. These also help in operational efficiency.

Amazon, one of the biggest retail giants has invested heavily in robots. There are now about 2,00,000 robots operating in the warehouse of Amazon in the US. With growth in the e-commerce the demand for robot end-effectors will increase thereby increasing operational productivity and efficiency. The use of vacuum grippers is increasing in the food industry due to increased concern for the safety of food.

The electronic industry is also one of the major end users of the robot end-effectors. Robots are more efficient in handling small electronic components. Thus, with the growth of the electronics industry the demand for robot end-effectors will also increase. Industry 4.0, the latest industrial revolution, promoted new technological growth, such as collaborative robotics; AI-enabled robots have allowed the industries to use robots for better performance, error reduction, and the streamlined use of a wide range of processes. Improved safety at work and improved manufacturing capability enabled companies to invest in robotic systems.

APAC region to witness lucrative growth in the market

The APAC region will hold a larger market share when compared to the other regions in the forecast period. The sales of industrial robots declined in 2018 because of the decline in automobile industry demand in countries such as China and the unfavorable consequences of the trade war between China and the USA. Furthermore, the COVID-19 pandemic has had a negative effect on the development of the traditional industrial robots. The growth of the APAC market in 2020-2025 is nevertheless expected. Although the growth of major APAC countries, such as China, has slowed further, their market share remains considerable. There has been an increase in penetration of the robot end-effector in the developing nations of APAC region like India, Taiwan, etc. Due to the growing demand for electronic goods worldwide, the electronics industry is a driving force for industrial robots in APAC. Components such as computer chips and batteries that are small and sensitive must be managed with high speed and precise handling. The market is estimated to grow in the coming years as APAC region is the home of many global players.

Key Players

The key players in the market of robot end-effectors are KUKA AG, FIPA Inc., Zimmer Group, EMI Corp., Festo Group, SMC Corporation, Schmalz Inc., ABB Group, Soft Robotics and ATI Industrial Automation. The companies compete with each other by continuous innovation. They even enter into joint ventures, mergers and acquisitions to expand their reach and gain global presence. These companies will continue to grow owing to the increasing demand from the end-user industries.

Segmentation

By Type

Welding Guns

Grippers

Suction Cups

Tool Changers

By Application

Handling

Assembly

Welding

By End-User

Automotive

Electrical & Electronics

Food & Beverages

E-Commerce

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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