Robot End Effector Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-11-02 | 141 pages | IMARC Group

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Report description:

The global robot end effector market size reached US$ 2.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 5.8 Billion by 2028, exhibiting a growth rate (CAGR) of 14.3% during 2022-2028.

The robot end effector, or end-of-arm tooling (EOAT), refers to an additional device, tool or accessory that is attached to a robotic wrist or joint. It is the endpoint of the robot that interacts with the environment and is programmed and designed to perform specific tasks. It includes robotic grippers, tool changers, collision sensors, rotary connectors, pressure tools, compliance devices, burr cleaning tools and arc welding torches. These effectors are commonly used for handling, assembling, welding, dispensing, painting and cutting applications. Owing to this, they find extensive applications across various industries, including automotive, semiconductor and electronics, food and beverage, metals and machinery, chemical and healthcare.

Rapid industrialization and the increasing adoption of robots for industrial operations are among the key factors driving the growth of the market. With the advent of industry 4.0, robots are now increasingly being integrated with advanced technological solutions, such as cloud computing, cyber-physical systems, big data and the Internet of Things (IoT), to optimize the overall efficiency of the industrial processes. Furthermore, the widespread utilization of collaborative robots is also augmenting the market growth. Robot end effectors optimize human-robot work environment, enhance productivity and ensure safe movements of sensitive or fragile products. Additionally, various technological advancements, such as the improvements in the sensor technology and the development of the pneumatic gripping solutions for high-force applications, are also creating a positive impact on the market growth. Other factors, including the growing demand for modular and electric grippers and increasing deployment of refurbished robots across industries, are expected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global robot end effector market report, along

with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, application and end use industry.

Breakup by Product:

Welding Guns
Grippers
Suction Cups
Clamps
Tool Changers
Others

Breakup by Application:

Handling
Assembling
Welding
Dispensing
Painting
Others

Breakup by End Use Industry:

Automotive
Food and Beverage
Semiconductor and Electronics
Healthcare
Chemicals, Rubber and Plastics
Metals and Machinery
Others

Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France

United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The report has also analysed the competitive landscape of the market with some of the key players being ABB Ltd., Applied Robotics Inc., ATI Industrial Automation Inc., Bastian Solutions LLC (Toyota Industries Corporation), Festo Beteiligungen GmbH & Co. KG, FIPA Inc., KUKA Aktiengesellschaft (Midea Group Co. Ltd.), Schmalz-International GmbH, SMC Corporation, Soft Robotics Inc., Weiss Robotics GmbH & Co KG and Zimmer Group GmbH.

Key Questions Answered in This Report

1. How big is the global robot end effector market?
2. What is the expected growth rate of the global robot end effector market during 2023-2028?
3. What are the key factors driving the global robot end effector market?
4. What has been the impact of COVID-19 on the global robot end effector market?
5. What is the breakup of the global robot end effector market based on the product?
6. What is the breakup of the global robot end effector market based on the application?
7. What is the breakup of the global robot end effector market based on the end use industry?
8. What are the key regions in the global robot end effector market?
9. Who are the key players/companies in the global robot end effector market?

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