

SCARA Robot Market by Payload Capacity (Up to 5.00 KG, 5.01 KG to 15.00 KG, More than 15.00 KG), Application (Handling, Assembling and Disassembling, Welding and Soldering, Dispensing, Processing, and Others), End Use (Electrical and Electronics, Automotive, Metals and Machinery, Plastics, Rubbers, and Chemicals, Precision Engineering and Optics, Food and Beverages, Pharmaceuticals and Cosmetics, and Others), and Region 2023-2028

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Report description:

Market Overview:

The global SCARA robot market size reached US\$ 8.75 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 15.25 Billion by 2028, exhibiting a growth rate (CAGR) of 9.4% during 2023-2028. The growing need for automation in various industries, rising sales of consumer electronics and automobiles, and the increasing utilization of SCARA robots for food processing, packaging, and palletizing represent some of the key factors driving the market.

SCARA robot is an industrial robot designed to move parts through various programmed motions. It comprises two parallel mechanical arms, a terminal effector, motor actuators, information sensors, and controllers. It manages heavy workloads, performs in harsh environments with minimal maintenance, and offers reliable performance, ease of use, and optimal accuracy. It exhibits optimal flexibility and can be easily reprogrammed to meet production needs and cycles. It is very versatile and aids in improving operational efficiency, increasing overall productivity, and generating accurate output. It is used for material handling, assembling and disassembling, welding and soldering, dispensing, and processing in various industries.

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SCARA Robot Market Trends:

Rapid industrialization and the rising need for automation in different industry verticals represent one of the key factors positively influencing the market. There is a growing need for mass production with minimal operation costs, human efforts and errors, and high-quality production results. Additionally, the increasing traction of smart factory systems to meet the driving need for operational efficiency in assembly lines is favoring market growth. Apart from this, the widespread product adoption in the electronics industry and the increasing sales of smartphones, laptops, computers, and televisions (TVs) is supporting the growth of the market. SCARA robots employed in electrical devices are programmed to control display screens, printed circuit boards (PCBs), and connectors. The growing sales of autonomous vehicles are increasing its adoption in the automotive industry. Furthermore, the leading SCARA manufacturers are focusing on developing robots with more payload capacity due to the growing adoption of collaborative robots in the manufacturing industry. They are also extensively investing in research and development (R&D) activities to innovate more advanced robots with enhanced features. Moreover, there is an increase in the utilization of these robots in the food and beverage (F&B) industry to perform various tasks, such as processing, palletizing, packing, and product inspection. SCARA robots are also employed in the pharmaceutical industry as they assist pharmacists in packing, stacking, and loading products and avoiding mistakes and contamination. These robots also accelerate the production and packaging processes of pharmaceutical products with optimal accuracy. Besides this, advancements in technologies, including the integration of artificial intelligence (AI) and machine learning (ML) and extensive research and development (R&D) activities performed by leading industry players, are propelling the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global SCARA robot market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on payload capacity, application, and end use.

Payload Capacity Insights:

- Up to 5.00 KG
- 5.01 KG to 15.00 KG
- More than 15.00 KG

A detailed breakup and analysis of the SCARA robot market based on the payload capacity has also been provided in the report. This includes up to 5.00 KG, 5.01 KG to 15.00 KG, and more than 15.00 KG. According to the report, up to 5.00 KG represented the largest segment.

Application Insights:

- Handling
- Assembling and Disassembling
- Welding and Soldering
- Dispensing
- Processing
- Others

The report has provided a detailed breakup and analysis of the SCARA robot market based on the application. This includes handling, assembling and disassembling, welding and soldering, dispensing, processing, and others. According to the report, handling accounted for the largest market share.

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End Use Insights:

- Electrical and Electronics
- Automotive
- Metals and Machinery
- Plastics, Rubbers, and Chemicals
- Precision Engineering and Optics
- Food and Beverages
- Pharmaceuticals and Cosmetics
- Others

A detailed breakup and analysis of the SCARA robot market based on the end use has also been provided in the report. This includes electrical and electronics, automotive, metals and machinery, plastics, rubbers, and chemicals, precision engineering and optics, food and beverages, pharmaceuticals and cosmetics, and others. According to the report, electrical and electronics accounted for the largest market share.

Regional Insights:

- 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

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for SCARA robot. Some of the factors driving the Asia Pacific SCARA

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robot market included rapid industrialization, rising automation, increasing sales of electronics, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global SCARA robot market. Detailed profiles of all major companies have been provided. Some of the companies covered include ABB Ltd, Comau SpA (Stellantis N.V.), Delta Electronics, Inc., DENSO Corporation, Fanuc Corporation, Kawasaki Robotics (USA), Inc. (Kawasaki Heavy Industries, Ltd.), KUKA AG, Nachi-Fujikoshi Corp., OMRON Corporation, Seiko Epson Corporation, Staubli Holding AG, Yamaha Motor Co., Ltd, Yaskawa America, Inc, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global SCARA robot market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global SCARA robot market?

What is the impact of each driver, restraint, and opportunity on the global SCARA robot market?

What are the key regional markets?

Which countries represent the most attractive SCARA robot market?

What is the breakup of the market based on the payload capacity type?

Which is the most attractive payload capacity type in the SCARA robot market?

What is the breakup of the market based on the application?

Which is the most attractive application in the SCARA robot market?

What is the breakup of the market based on the end use?

Which is the most attractive end use in the SCARA robot market?

What is the competitive structure of the global SCARA robot market?

Who are the key players/companies in the global SCARA robot market?

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