

Automotive Robotics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Report description:

The global automotive robotics market size reached US\$ 9.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 19.2 Billion by 2028, exhibiting a growth rate (CAGR) of 11.4% during 2023-2028.

Automotive robotics refers to computer-programmed engineering solutions that are extensively employed by manufacturers for performing complex tasks effectively. It offers flexibility, higher efficiency, reliability, and accuracy, which in turn, is helping organizations in improving quality and production capacity, optimizing workflow, eliminating the risk of errors, and providing safety to employees. On account of these properties, automotive robotics is used in vehicle assembly facilities for executing various applications, including spot welding, painting, trimming plastic molding, cutting fabric, and removing unwarranted materials. At present, it is available in varying product types, such as cartesian, articulated polar and cylindrical robots.

Automotive Robotics Market Trends:

With the significant expansion in the automotive industry, there has been an increase in the demand for industrial robots to simplify complex production processes, which, in turn, is acting as one of the prime factors driving the market growth. Automotive robots help in enhancing the quality and working capacity at lower costs, which is further supporting the market growth. Additionally, the rising concerns regarding employee safety due to the increasing instances of injury, manual errors and accidents caused by working under hazardous conditions in the automotive manufacturing industry is acting as another growth-inducing factor. This is further supported by extensive fundings and numerous favorable initiatives undertaken by the government bodies of various countries for incorporating advanced gadgets and equipment to ensure workers security, while meeting the safety standards. Additionally, rapid technological advancements, such as the integration of the Internet of Things (IoT), cloud solutions, and autonomous intelligent vehicles (AIVs) for transferring components and materials safely from one place to another is contributing to the market growth. Other factors, such as strategic collaborations amongst key players, growing vehicle production due to inflating disposable incomes in emerging economies, and rising investments in research and development (R&D) activities for introducing energy-efficient automotive robots are creating a positive outlook for the market.

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Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive robotics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, component type, application and end user.

Breakup by Product Type:

- Cartesian Robots
- SCARA Robots
- Articulated Robot
- Others

Breakup by Component Type:

- Controller
- Robotic Arm
- End Effector
- Drive and Sensors

Breakup by Application:

- Assembly
- Dispensing
- Material Handling
- Welding
- Others

Breakup by End User:

- Vehicle Manufacturers
- Automotive Component Manufacturers

Breakup by Region:

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

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

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., Denso Wave Incorporated (DENSO Corporation), Durr Aktiengesellschaft, FANUC, Harmonic Drive Systems Inc., Kawasaki Heavy Industries Ltd., KUKA Aktiengesellschaft (Midea Group), Nachi-Fujikoshi Corp., Omron Corporation, Seiko Epson Corporation, Yamaha Motor Co. Ltd. and Yaskawa Electric Corporation.

Key Questions Answered in This Report

1. What was the size of the global automotive robotics market in 2022?
2. What is the expected growth rate of the global automotive robotics market during 2023-2028?
3. What has been the impact of COVID-19 on the global automotive robotics market?
4. What are the key factors driving the global automotive robotics market?
5. What is the breakup of the global automotive robotics market based on the product type?
6. What is the breakup of the global automotive robotics market based on the component type?
7. What is the breakup of the global automotive robotics market based on application?
8. What are the key regions in the global automotive robotics market?
9. Who are the key players/companies in the global automotive robotics market?

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