

Automotive Robotics Market to Register Major Growth on Account of Rise of Electric Vehicles (EVs) Coupled with AI

The Automotive Robotics Market, with a valuation of USD 8.70 billion in 2022, is anticipated to surge to USD 21.93 billion by 2030, demonstrating a robust compound annual growth rate (CAGR) of 12.24% throughout the forecast period from 2023 to 2030.



Austin, Texas Oct 4, 2023 ([Issuewire.com](https://www.issuewire.com)) - Automotive Robotics Market Scope & Overview

Based on data from the SNS Insider report, the [Automotive Robotics Market](#) achieved a valuation of USD 8.70 billion in 2022 and is anticipated to attain USD 21.93 billion by 2030, with a projected compound annual growth rate (CAGR) of 12.24% during the forecast period from 2023 to 2030.

Automotive robotics is a crucial technological advancement in the automotive industry. It streamlines manufacturing processes, enhances product quality, and increases the overall efficiency of vehicle production. As technology continues to advance, we can expect further innovations in automotive robotics, shaping the future of the automotive industry and contributing to the development of more sustainable and sophisticated vehicles.

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Key Players in the Automotive Robotics Market are:

FANUC Corporation (Japan)
Kawasaki Heavy Industries
Yaskawa Electric Corporation (Japan)
KUKA AG (Germany)
ABB (Switzerland)
Comau
DENSO WAVE INCORPORATED
NACHI-FUJIKOSHI CORP.
Rockwell Automation Inc.
Seiko Epson Corporation

Market Analysis

The automotive robotics market is poised for significant growth in the coming years, driven by a convergence of technological advancements, industry trends, and changing consumer demands. Automotive manufacturers are increasingly adopting automation to enhance production efficiency, reduce operational costs, and improve product quality. Robotics plays a pivotal role in automating tasks such as welding, painting, assembly, and material handling, leading to higher productivity and consistent output. The global shift towards electric vehicles is accelerating, and the production of EVs requires advanced manufacturing processes that can be efficiently executed by robots. The assembly of intricate components in electric vehicles demands precision and repeatability, which robotics can deliver. Robotics plays a crucial role in ensuring the safety and quality of automotive products. Robots equipped with advanced sensors and machine vision systems can detect defects and deviations in real-time, reducing the risk of faulty products reaching the market. The advent of collaborative robots that can work alongside human workers is transforming automotive manufacturing. Cobots enhance flexibility in production lines and can be quickly reconfigured for different tasks, making them an attractive option for manufacturers seeking agility.

Impact of Recession

While recessions pose challenges to the automotive robotics market, they can also stimulate certain aspects of automation adoption. The extent of the impact depends on the severity and duration of the recession, as well as the specific strategies and priorities of individual automotive companies. Long-term trends toward automation and Industry 4.0 remain strong, suggesting that the market will likely recover and continue to grow as the economy stabilizes.

Segmentation Analysis

As the automotive industry continues to evolve, Cartesian robots are poised to dominate the market due to their precision, versatility, flexibility, and cost-effectiveness. Their ability to streamline production processes and enhance product quality positions them as an indispensable asset for automakers worldwide. The controller segment is poised to dominate the automotive robotics market by serving as the intelligent, data-driven backbone of automation. Its ability to optimize processes, enhance connectivity, and adapt to changing production requirements positions it as a transformative force in the automotive industry, driving efficiency, quality, and competitiveness to new heights.

By Type:

- Articulated
- Cartesian
- SCARA
- Cylindrical
- Others

By Component:

- Controller
- End effector
- Robotic arm
- Drive
- Sensors
- Others

By Application:

- Welding
- Painting
- Cutting
- Material Handling
- Others

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Regional Status & Analysis

North America is a major region in the automotive robotics market. The presence of established automotive giants such as General Motors, Ford, and Tesla drives the demand for advanced robotics solutions. North America is witnessing a shift towards collaborative robots (cobots) that work alongside humans, enhancing manufacturing efficiency and flexibility. Europe is a hub for automotive manufacturing, with countries like Germany, France, and Italy at the forefront. The European market is characterized by a strong focus on precision and quality, leading to the adoption of highly advanced robots for tasks such as painting, welding, and assembly. Asia-Pacific is the largest and fastest-growing market for automotive robotics. China, Japan, South Korea, and India are key contributors to this growth.

Conclusion

The future of the market looks promising, driven by technological advancements, the need for increased efficiency, and changing consumer demands. As robotics technology continues to evolve, it will not only reshape how vehicles are manufactured but also how they are maintained and serviced, making the automotive industry more efficient, sustainable, and adaptable to the challenges of the future. The growth of the market will also be influenced by regulatory policies related to safety standards, data privacy, and liability issues, particularly as autonomous vehicles become more prevalent.

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Frequently Asked Questions

Q1. What is the projected outlook for automotive robotics market growth?

ANS: The global market to cross USD 21.93 billion by 2030, with a projected CAGR of 12.24% during the forecast period from 2023 to 2030.

Q2 . What are the major factors influencing the automotive robotics market?

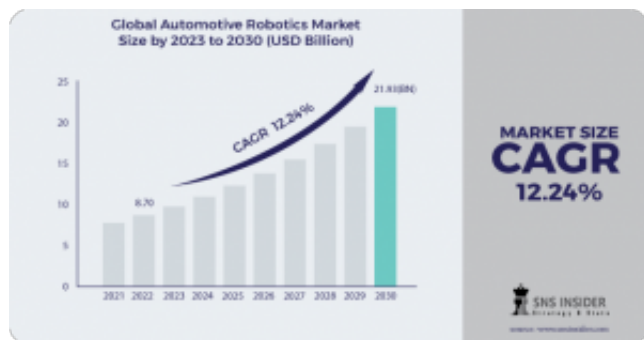
ANS: The market is set to flourish due to the increasing need for automation, the rise of electric vehicles, a focus on quality and safety, and the ongoing development of innovative robotic technologies.

Q3. Who are the leading players in the automotive robotics market?

ANS: FANUC Corporation, Rockwell Automation, Inc., KUKA AG, ABB, Comau, DENSO WAVE INCORPORATED, Kawasaki Heavy Industries, Yaskawa Electric Corporation, NACHI-FUJIKOSHI CORP., Seiko Epson Corporation.

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