

Modular Robotics Market Size is Projected to Reach US\$ 50 Billion By 2032, with a CAGR of 18% | insightSLICE

The Global Modular Robotics Market was estimated to be US\$ 9.5 billion in 2022 and is expected to reach US\$ 50 billion by 2032.

SANTA ROSA, CALIFORNIA, UNITED STATES, June 20, 2023

/EINPresswire.com/ -- The Global Modular Robotics Market Share,

Trends, Analysis and Forecasts, 2023-2032 presents extensive information on the latest trends, factors driving the market growth, potential opportunities, and challenges that may impact the industry's market dynamics. It offers a detailed examination of the different market segments, such as robot type, application, end-user industry, and competitive landscape.



The modular robotics market in North America is driven by the adoption of automation across industries such as manufacturing, healthcare, and logistics."

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The Global Modular Robotics Market was estimated to be US\$ 9.5 billion in 2022 and is expected to reach US\$ 50 billion by 2032 at a CAGR of 18%. Modular robotics refers to a field of robotics that focuses on the design and construction of robots using modular components. These

modular components are standardized building blocks that can be easily rearranged and reconfigured to create various robot configurations. The modularity allows for flexibility and adaptability in robotic systems, as different modules can be combined and modified to suit different tasks and environments.

The advantages of modular robotics include scalability, reusability, and cost-effectiveness. Modular robots can be easily scaled up or down by adding or removing modules, making them suitable for various applications and environments. The modular design also allows for easy maintenance and repair, as malfunctioning modules can be replaced individually without

affecting the entire robot system.

Modular robotics find applications in various industries, including manufacturing, logistics, healthcare, agriculture, defense, and research. They offer flexibility, adaptability, and versatility in robotic systems, enabling efficient and customized solutions to meet specific needs and challenges.

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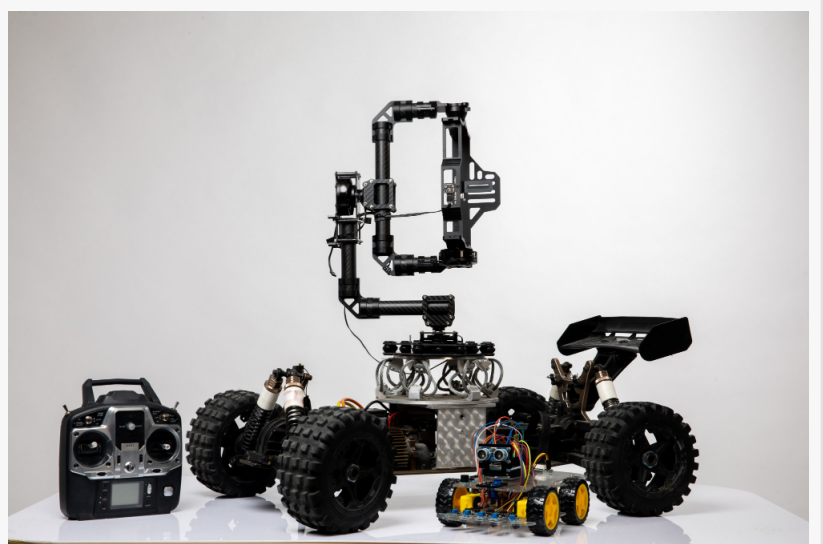
The adoption of automation is driven by the need to improve efficiency, reduce costs, and enhance productivity across industries. Automation enables companies to streamline processes, eliminate manual errors, and achieve consistent output. For example, in the manufacturing industry, automated assembly lines can significantly increase production rates while maintaining product quality. Companies like Tesla have implemented extensive automation in their manufacturing plants to enhance efficiency and accelerate production.

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There is a rising demand for robotic systems that can easily adapt to changing requirements and perform various tasks. Flexibility allows robots to be repurposed or reconfigured for different applications, reducing the need for specialized machinery. For instance, in e-commerce warehouses, robots like those developed by Boston Dynamics are capable of handling diverse tasks, such as picking, packing, and moving items, offering flexibility and adaptability to changing order fulfillment needs.

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Collaborative robots, also known as cobots, are designed to work alongside humans, enhancing productivity and safety in shared workspaces. Cobots can perform tasks that require human dexterity and interact safely with humans without the need for physical barriers. An example is in the healthcare sector, where cobots are used to assist surgeons during procedures. For instance, the da Vinci Surgical System allows surgeons to perform minimally invasive surgeries with the assistance of robotic arms, improving precision and reducing patient recovery time.



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Modular Robotics Market Size and Adoption by Industry and Region

Based on type, the largest segment in terms of market size and adoption is the Manufacturing and Logistics sector. The Manufacturing and Logistics sector has been a driving force behind the adoption of modular robotics. The need for increased efficiency, productivity, and cost-effectiveness in manufacturing processes has led to the widespread implementation of modular robots. These robots are utilized for tasks such as assembly, material handling, packaging, and quality control. The ability of modular robots to adapt to changing production needs, integrate with existing systems, and handle repetitive tasks makes them highly valuable in manufacturing and logistics operations.

Furthermore, the logistics industry has witnessed significant growth in recent years due to the rise of e-commerce and the increasing demand for efficient order fulfillment. Modular robots offer flexible and scalable solutions to handle the complexities of warehouse management, inventory control, and order processing. They enable automated picking, sorting, and packaging, resulting in improved speed, accuracy, and operational efficiency.

While other sectors like healthcare, agriculture, defense, and security also utilize modular robotics, the Manufacturing and Logistics sector has a larger market share due to its broader application across various industries. The need for streamlined production processes, faster order fulfillment, and optimized supply chain management has been a key driver for the adoption of modular robotics in manufacturing and logistics, leading to its prominence in the market.

Geographically, North America particularly the United States, there is a strong emphasis on automation across industries, driving the demand for modular robotics. Europe, with countries like Germany and Switzerland, leads in technology and industrial automation, focusing on manufacturing sectors and collaborative robotics. The Asia-Pacific region, including China, Japan, and South Korea, showcases significant growth due to their strong manufacturing base and early adoption of automation.

The Middle East and Africa region is gradually embracing modular robotics, with increased interest in sectors like manufacturing and healthcare. South America, led by countries like Brazil, is witnessing a gradual adoption of modular robotics in industries such as manufacturing, agriculture, and mining.

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Modular Robotics Market Size and Adoption by Industry and Region

ABB (Switzerland), FANUC Corporation (Japan), Festo AG & Co. KG (Germany), KUKA AG (Germany), Mitsubishi Electric Corporation (Japan), Nachi-Fujikoshi Corporation (Japan), Omron

Corporation (Japan), Rethink Robotics (United States), Rockwell Automation, Inc. (United States), Siasun Robot & Automation Co., Ltd. (China), Stäubli International AG (Switzerland), Universal Robots A/S (Denmark), Yaskawa Electric Corporation (Japan), Yamaha Motor Co., Ltd. (Japan), YRG Robotics (Canada) and Others.

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- Articulated Modular Robots
- Cartesian Modular Robots
- SCARA Modular Robots
- Parallel Modular Robots

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- Hardware
- Software
- Services

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- Automotive
- Electronics and Semiconductor
- Healthcare and Medical
- Food and Beverage
- Logistics and Warehousing
- Aerospace and Defense
- Agriculture
- Others

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- North America
 - > United States
 - > Canada
 - > Rest of North America
- Europe
 - > Germany
 - > United Kingdom
 - > Italy
 - > France

- > Spain
- > Rest of Europe

- Asia Pacific

- > Japan
- > India
- > China
- > Australia
- > South Korea
- > Rest of Asia Pacific

- Middle East & Africa

- > UAE
- > Saudi Arabia
- > South Africa
- > Rest of the Middle East & Africa

- South America

- > Brazil
- > Rest of South America

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