

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

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Abstracts

The global smart robot market size reached US\$ 10.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 28.3 Billion by 2028, exhibiting a growth rate (CAGR) of 17.78% during 2022-2028.

Smart robots collaborate with humans and adapt their behavior according to experience for performing cognitive tasks and manual labor work. They are integrated with advanced technologies, such as artificial intelligence (AI), machine learning (ML), sensors, and deep learning (DL). They can digitally connect with a cloud platform to improve operational efficiency and agility of business processes. As a result, they are widely utilized in industrial settings to automate manufacturing processes and warehouse management systems.

Smart Robot Market Trends:

The emergence of the Fourth Industrial Revolution (Industry 4.0) and the growing trend of precision manufacturing are catalyzing the need to modify manufacturing facilities into connected factories. This represents one of the major factors driving the demand for smart robots as they can perform repetitive and less ergonomic tasks, which allows seamless sharing of information and increases product quality and productivity. Moreover, several retail stores are deploying in-store robots to recognize actions in real-time, assist operators, and reduce human errors. Apart from this, service-enabled robotics is gaining traction in the healthcare industry to assist complex surgeries, elderly care, assistive technologies, and patient care at home. This, coupled with the growing prevalence of chronic diseases, is positively influencing the demand for smart robots to aid people with cognitive, sensory, and motor impairments. Furthermore, as smart robotic vacuum cleaners are lightweight, small-in-size, and require low maintenance, they are extensively utilized for mopping, cleaning, and ultraviolet (UV) sterilization of

residential and commercial spaces. This, in confluence with the outbreak of the coronavirus disease (COVID-19) and the growing emphasis of individuals on maintaining health and hygiene, is positively influencing the demand for smart robots to prevent the spread of the pandemic and create a safe workplace.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global smart robot market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, mobility, application and vertical.

Breakup by Component:

- Hardware
- Software
- Services

Breakup by Mobility:

- Stationary
- Mobile

Breakup by Application:

- Welding and Painting
- Assembling and Disassembling
- Material Handling and Sorting
- Inspection and Security
- Others

Breakup by Vertical:

- Automotive
- Manufacturing
- Electrical and Electronics
- Food and Beverages
- Chemical
- Residential
- 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 competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., F&P Robotics AG, Fanuc Corporation, Hanson Robotics Limited, Honda Motor Co. Ltd, iRobot Corporation, KUKA AG (Midea Group), Neato Robotics Inc. (Vorwerk), Rethink Robotics GmbH, Samsung Electronics Co. Ltd., Seiko Epson Corporation, SoftBank Robotics Corp and Yaskawa Electric Corporation.

Key Questions Answered in This Report

1. How big is the global smart robot market?

2. What is the expected growth rate of the global smart robot market during 2023-2028?
3. What are the key factors driving the global smart robot market?
4. What has been the impact of COVID-19 on the global smart robot market?
5. What is the breakup of the global smart robot market based on the component?
6. What is the breakup of the global smart robot market based on the mobility?
7. What is the breakup of the global smart robot market based on the application?
8. What is the breakup of the global smart robot market based on the vertical?
9. What are the key regions in the global smart robot market?
10. Who are the key players/companies in the global smart robot market?

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