

Humanoid Robot Market By Component (Hardware, Software), By Application (Research and Space Exploration, Education and Entertainment, Personal Assistance and Caregiving, Hospitality, Search and Rescue, Others), By Motion Type (Biped, Wheel drive): Global Opportunity Analysis and Industry Forecast, 2022-2031

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Report description:

Technological advancements have influenced the demand for robotics, resulting in their adoption in a variety of applications. Humanoid robots are the best companions for humans because they can mimic human behavior and interactions and provide a superior interface for human-robot interactions. The creation of these robots has been made easier by technological developments and ongoing robotics research. Artificial intelligence, robot hardware development, the implementation of biped or wheel drive locomotion, and human-robot interaction are the four main areas of study for humanoid robots. Humanoid robots may not always be suitable for specific tasks or industries, and there may not be enough customization options available to make them more appropriate. This could result in a limited range of applications for humanoid robots, which could limit their adoption. A humanoid robot is very costly, depending on the advancements of the robots. The humanoid robot will be expensive and difficult to afford; it will replace the jobs. Although this will benefit many businesses, it will replace the people who have careers in specific fields, like pharmacists, nurses, secretaries, etc. Humanoid robots that are capable of performing autonomous tasks in the healthcare industry have been developed as a result of the advancement of robotic technologies and their supporting technologies, including AI, machine learning, and speech recognition. Robots like Pepper and NAO from SoftBank Robotics are examples of this type that deliver food and medications to various locations within hospitals, playing a crucial role in the healthcare sector. These robots can also freely navigate hospital departments, lifts, and hallways. Grace is a humanoid robot that Hanson Robotics Limited unveiled in 2021 with a focus on the healthcare industry. All these factors are predicted to create excellent opportunities for the market growth during the upcoming year. The COVID-19 pandemic has had a significant impact on healthcare spending, which has affected the adoption of humanoid robots

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in this industry. One of the main challenges faced by the healthcare industry is limited funding for research and development. Due to the high expenditure required, many healthcare providers may not have the resources to invest in the development and deployment of humanoid robots. Healthcare organizations facing budget cuts and financial challenges due to the pandemic, have led to less investment in new technologies such as humanoid robots. Many healthcare organizations have had to prioritize spending on essential services, and the adoption of new technologies has taken a backseat.

The key players profiled in this report include HYULIM Robot Co., Ltd, HANSON ROBOTICS LTD, Engineered Arts Limited, Honda, KAWADA Robotics Corporation, SoftBank Robotics, Sanbot Co, ROBOTIS, Willow Garage, and Toshiba Corporation.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the humanoid robot market analysis from 2021 to 2031 to identify the prevailing humanoid robot market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the humanoid robot market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes the analysis of the regional as well as global humanoid robot market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Component

- Hardware
- Software

By Application

- Research and Space Exploration
- Education and Entertainment
- Personal Assistance and Caregiving
- Hospitality
- Search and Rescue
- Others

By Motion Type

- Biped
- Wheel drive

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China

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- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- UAE
- South Africa
- Rest of LAMEA
- Key Market Players
- Hajime Research Institute, Ltd.
- HANSON ROBOTICS LTD
- Honda Motor Co. Ltd.
- HYULIM ROBOT
- KAWADA Robotics Corp.
- PAL ROBOTICS
- SoftBank Robotics
- Toshiba Corporation
- TOYOTA MOTOR CORPORATION
- Trossen Robotics

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