

Humanoids - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Humanoids Market size is estimated at USD 4.82 billion in 2025, and is expected to reach USD 34.12 billion by 2030, at a CAGR of 47.9% during the forecast period (2025-2030).

Humanoid robots have gained increased interest in recent years, with Honda and Hyundai developing iterations for commercialization, and Tesla unveiled the prototype of its Optimus robot in September 2022. NASA has also announced its hat into the ring with its collaboration with Aptronik to launch the humanoid robot Apollo into commercial markets.

Key Highlights

- With the rapid rate of technological developments and the rise of the emergence of players in the market, there has been growth in the field of Robotics. For instance, in January 2022, according to a top official of Addverb, Reliance Retail purchased a 54 percent share in the domestic robotics startup for USD 132 million (INR 983 crore). The company planned to develop its business worldwide and build one of Noida's most extensive robotic production facilities. Such initiatives by the market players in robotics may further drive the studied market growth.
- Over the past two years, the market for humanoids has witnessed significant launches. Several projects have been developing other robots designed to work closely with people. In August 2022, Tesla planned to disclose the humanoid robot prototype this year, aiming to improve the robot's intelligence and provide a solution for large-scale production.
- Governments worldwide have also taken initiatives to foster the development of advanced technologies in robotics markets, with a view to promoting its adoption. For example, in order to strengthen the ability of the country to build its own robots and to encourage research in this area, the US Federal Government has launched a program called the National Robotics Initiative. Further, the US government plans a budget of 35 billion USD from 2020 to 2024.
- Furthermore, UBTECH Robotics, a designer of intelligent humanoid robotics and AI technologies, has recently announced Walker

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X, the latest version of humanoid robot I. Walker X has been updated to perform a broader range of household tasks, including serving tea, pouring liquids, watering flowers, wiping surfaces, and operating the vacuum cleaner.

- A major impediment to the adoption of humanoid robots has been their expensive cost, with suitable financing and leasing options being as essential for them as they are for a robot. As these robots are driven and deployed, the brick-and-mortar sector calls for a careful balancing of concerns about people's jobs.

Humanoids Market Trends

Technological Advancements in Humanoids is Expected to Drive the Market Growth

- With new facial recognition, speech, and emotion recognition capabilities enabled by the recent advances in AI, humanoid robots have seen an increase in applications of customer contact roles resulting from these developments. This technological leap is occurring against the backdrop of the smartphone, web, and social media becoming primary customer engagement channels.
- With a faster rate of technological development, these robots have been witnessing adoption in many fields, varying from education to entertainment. According to NASSCOM's most recent study on the AI Adoption Index, investments in India's artificial intelligence (AI) capabilities are registering a CAGR of 31.8%. Further, they are expected to reach USD 881 million by 2023.
- A humanoid robot with its enhanced AI & human-like exterior makes it simple to educate people with correct and consistent information. It is likely effective for vaccination centers worldwide. With several hundred vaccines daily, a social robot is an asset in giving out repetitive information so the staff can focus on other essential tasks.
- According to Spiceworks, in North American and European organizations, IT automation technology emerged as the top choice, with 45% already utilizing it and an additional 28% planning adoption within the next 2 years. Following closely, 5G technology stood as the second most favored, with 42% currently employing it and 25% eyeing adoption in the coming 2 years.
- Furthermore, in August 2022, Xiaomi launched a unique humanoid robot called CyberOne. The company invested heavily in R&D in various areas, including software, hardware, and algorithm innovation, to make the technologically advanced robot. CyberOne is capable of perceiving 3D space and recognizing individuals, gestures, and expressions, allowing it to see and process its environment.
- In addition, CyberOne is equipped with a self-made MiAI environment recognition engine and an AI vocal emotion detection engine that allows it to recognize 85 types of environmental sounds and 45 categories of human emotions for its communication with the world.

Asia-Pacific to Witness the Highest Growth

- Asia-Pacific has been an active player across the market. Countries such as China, South Korea, Japan, and contribute significantly to its large share. The presence of companies that are involved in developing humanoids in this region would make it one of the first to be adopted. It's also one of the few places in the world where players from major countries such as Softbank Japan, Robotics Korea, and Invento Robotics India have come up with advances in humanoid technology.
- When Japan's population grows older, and its workforce shrinks, it is installing robots in both offices and schools as well as nursing homes. According to the World Economic Forum (WEF), nearly one-third of Japan's population is over 65. Also, according to the Statistics Bureau Japan, it was estimated that the number of people aged 65 years or older would reach around 36.8 million people by 2025.
- Various regional companies have developed machine learning and AI solutions that help companies at every stage of their AI and machine learning development. According to a report by Accenture, it's expected that AI has the potential in order to make up 15% of India's current gross value in 2035, or USD 957 billion. Such developments in technology may further drive the studied

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market growth.

- Moreover, according to IBEF, the Government recently invested INR 7,000 crore (USD 993.05 million) in the Union Budget for Artificial Intelligence. It is expected to increase the AI intensity by approximately 1.3 times, translating into spillover benefits of a 3.2% increase in India's GDP.
- Furthermore, India has been witnessing a demand for humanoids in the aerospace industry. Further, ISRO (Indian Space Research Organization) recently revealed a humanoid robot for its Gaganyaan mission. The organization worked on a space program to launch humans into space by 2022. However, before sending humans into space, ISRO planned to launch a humanoid robot named Vyom Mitra by the end of this year.
- Likewise, regional companies have been expanding their reach to new countries. For instance, Chinese company Ubtech has released a portable humanoid robot in South Korea that can talk, read, sing, and dance.

Humanoids Industry Overview

The humanoid market is competitive, with few players currently dominating the market. The market is moving toward a consolidated stage with few active players. The major players are Toyota Motor Corporation, Softbank Robotics, and Honda Motor Co. Ltd.

- March 2024 - NVIDIA Announces Project GR00T Foundation Model for Humanoid Robots and Major Isaac Robotics Platform Update Isaac Robotics Platform Provides Developers New Robot Training Simulator, Jetson Thor Robot Computer, Generative AI Foundation Models, and CUDA-Accelerated Perception and Manipulation Libraries.
- March 2024 - Accenture has made a strategic investment through Accenture Ventures in Sanctuary AI, a developer of humanoid general-purpose robots powered by AI that can perform a wide variety of work tasks quickly, safely, and effectively.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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