

# **Global Humanoid Robot Market Size study, by Component (Hardware, Software), by Motion Type (Biped, Wheel Drive), by Application (Research and Space Exploration, Education and Entertainment, Personal Assistance and Caregiving, Hospitality, Search and Rescue, Others), and Regional Forecasts 2022-2032**

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## **Abstracts**

The global humanoid robot market, valued at USD 1.4 billion in 2023, to USD 40.92 billion by 2032 at CAGR of 45.5% from 2024-2032. This growth trajectory reflects the rising adoption of humanoid robots across diverse applications, such as surveillance, healthcare, personal assistance, and space exploration. The heightened demand for technologically advanced robots underscores their pivotal role in various industries, ranging from healthcare to entertainment and beyond.

The use of humanoid robots for surveillance and security, including unauthorized intrusion detection and terrorist activity prevention, has been a critical driver for this market. Additionally, advancements in artificial intelligence (AI) have enabled humanoid robots to function as valuable tools in research and space exploration. For instance, initiatives such as the development of remote-controlled humanoid robots for healthcare quarantine management further emphasize the market's growing potential.

Global companies are intensifying their investments in humanoid robotics to cater to evolving industry demands. A noteworthy example is Figure AI's funding of USD 675 million in 2024, supported by tech giants like Nvidia and Microsoft, to enhance humanoid robotics development. Furthermore, robots such as Aeon by Aeolus Robotics and NEO by OpenAI highlight the innovation driving the market. These robots are

designed to execute a wide array of tasks, including eldercare, germicidal cleaning, and personalized assistance, which illustrate the transformative nature of this technology.

Humanoid robots are increasingly deployed for cognitive studies, neuroscience, and behavioral sciences. Their adoption spans media, education, and social assistance applications, with a focus on improving the quality of life for individuals, particularly the elderly. Regional dynamics also play a significant role in market growth. For example, North America leads the market with significant research and development efforts, while the Asia-Pacific region showcases the highest growth rate owing to advancements in robotics and a thriving industrial landscape.

Major market players included in this report are:

SoftBank Robotics

Engineered Arts Limited

HONDA

PAL Robotics

HANSON Robotics LTD

HYULIM Robot Co., Ltd

ROBOTIS

Willow Garage

Toshiba Corporation

Sanbot Co

KAWADA Robotics Corporation

UBTECH Robotics

Apptronik

Aeolus Robotics

Boston Dynamics

The detailed segments and sub-segments of the market are explained below:

By Component:

Hardware

Software

By Motion Type:

Biped

Wheel Drive

By Application:

Research and Space Exploration

Education and Entertainment

Personal Assistance and Caregiving

Hospitality

Search and Rescue

Others

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

ROE

Asia Pacific:

China

India

Japan

Australia

South Korea

RoAPAC

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with Country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL HUMANOID ROBOT MARKET EXECUTIVE SUMMARY**

- 1.1. Global Humanoid Robot Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Component
  - 1.3.2. By Motion Type
  - 1.3.3. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL HUMANOID ROBOT MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
  - 2.3.4. Demand Side Analysis
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL HUMANOID ROBOT MARKET DYNAMICS**

- 3.1. Market Drivers
  - 3.1.1. Increasing adoption in healthcare and eldercare applications
  - 3.1.2. Growing advancements in artificial intelligence and robotics technologies
  - 3.1.3. Rising private and public sector investments in humanoid robots
- 3.2. Market Challenges
  - 3.2.1. High cost of humanoid robotics systems
  - 3.2.2. Regulatory constraints and technical complexities
- 3.3. Market Opportunities
  - 3.3.1. Expanding use cases in education and entertainment

3.3.2. Growing demand in emerging economies

## **CHAPTER 4. GLOBAL HUMANOID ROBOT MARKET INDUSTRY ANALYSIS**

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.2. PESTEL Analysis

4.2.1. Political Factors

4.2.2. Economic Factors

4.2.3. Social Factors

4.2.4. Technological Factors

4.2.5. Environmental Factors

4.2.6. Legal Factors

4.3. Top Investment Opportunities

4.4. Disruptive Trends

4.5. Analyst Recommendations

## **CHAPTER 5. GLOBAL HUMANOID ROBOT MARKET SIZE & FORECASTS BY COMPONENT 2022-2032**

5.1. Segment Dashboard

5.2. Component Revenue Trend Analysis (2022 & 2032)

5.2.1. Hardware

5.2.2. Software

## **CHAPTER 6. GLOBAL HUMANOID ROBOT MARKET SIZE & FORECASTS BY MOTION TYPE 2022-2032**

6.1. Segment Dashboard

6.2. Motion Type Revenue Trend Analysis (2022 & 2032)

6.2.1. Biped

6.2.2. Wheel Drive

## **CHAPTER 7. GLOBAL HUMANOID ROBOT MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

- 7.1. Segment Dashboard
- 7.2. Application Revenue Trend Analysis (2022 & 2032)
  - 7.2.1. Research and Space Exploration
  - 7.2.2. Education and Entertainment
  - 7.2.3. Personal Assistance and Caregiving
  - 7.2.4. Hospitality
  - 7.2.5. Search and Rescue
  - 7.2.6. Others

## **CHAPTER 8. GLOBAL HUMANOID ROBOT MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 8.1. North America
  - 8.1.1. U.S.
  - 8.1.2. Canada
- 8.2. Europe
  - 8.2.1. UK
  - 8.2.2. Germany
  - 8.2.3. France
  - 8.2.4. Italy
  - 8.2.5. Spain
  - 8.2.6. Rest of Europe
- 8.3. Asia-Pacific
  - 8.3.1. China
  - 8.3.2. Japan
  - 8.3.3. India
  - 8.3.4. Australia
  - 8.3.5. South Korea
  - 8.3.6. Thailand
  - 8.3.7. Rest of Asia-Pacific
- 8.4. Latin America
  - 8.4.1. Brazil
  - 8.4.2. Mexico
  - 8.4.3. Argentina
  - 8.4.4. Rest of Latin America
- 8.5. Middle East & Africa
  - 8.5.1. Saudi Arabia
  - 8.5.2. UAE

- 8.5.3. South Africa
- 8.5.4. Kuwait
- 8.5.5. Rest of Middle East & Africa

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Key Company SWOT Analysis
  - 9.1.1. SoftBank Robotics
  - 9.1.2. Engineered Arts Limited
  - 9.1.3. Boston Dynamics
- 9.2. Key Market Strategies
- 9.3. Company Profiles
  - 9.3.1. HYULIM Robot Co., Ltd
  - 9.3.2. HONDA
  - 9.3.3. PAL Robotics
  - 9.3.4. ROBOTIS
  - 9.3.5. Toshiba Corporation
  - 9.3.6. KAWADA Robotics Corporation
  - 9.3.7. UBTECH Robotics
  - 9.3.8. Aeolus Robotics

## **CHAPTER 10. RESEARCH PROCESS**

- 10.1. Research Process
  - 10.1.1. Data Mining
  - 10.1.2. Analysis
  - 10.1.3. Market Estimation
  - 10.1.4. Validation
  - 10.1.5. Publishing
- 10.2. Research Attributes

## **12. LIST OF TABLES**

### **1. GLOBAL HUMANOID ROBOT MARKET, REPORT SCOPE**

### **2. GLOBAL HUMANOID ROBOT MARKET ESTIMATES & FORECASTS BY REGION, 2022-2032 (USD MILLION/BILLION)**

### **3. GLOBAL HUMANOID ROBOT MARKET ESTIMATES & FORECASTS BY**

*Global Humanoid Robot Market Size study, by Component (Hardware, Software), by Motion Type (Biped, Wheel Drive...*

**COMPONENT, 2022-2032 (USD MILLION/BILLION)**

**4. GLOBAL HUMANOID ROBOT MARKET ESTIMATES & FORECASTS BY MOTION TYPE, 2022-2032 (USD MILLION/BILLION)**

**5. GLOBAL HUMANOID ROBOT MARKET ESTIMATES & FORECASTS BY APPLICATION, 2022-2032 (USD MILLION/BILLION)**

**6. GLOBAL HUMANOID ROBOT MARKET REGIONAL SNAPSHOT, 2022-2032 (USD MILLION/BILLION)**

**7. NORTH AMERICA HUMANOID ROBOT MARKET, ESTIMATES & FORECASTS BY COMPONENT, 2022-2032 (USD MILLION/BILLION)**

**8. EUROPE HUMANOID ROBOT MARKET, ESTIMATES & FORECASTS BY MOTION TYPE, 2022-2032 (USD MILLION/BILLION)**

**9. ASIA-PACIFIC HUMANOID ROBOT MARKET, ESTIMATES & FORECASTS BY APPLICATION, 2022-2032 (USD MILLION/BILLION)**

**10. LATIN AMERICA HUMANOID ROBOT MARKET, ESTIMATES & FORECASTS BY REGION, 2022-2032 (USD MILLION/BILLION)**

**11. MIDDLE EAST & AFRICA HUMANOID ROBOT MARKET, ESTIMATES & FORECASTS BY COMPONENT, 2022-2032 (USD MILLION/BILLION)**

**12. COMPETITIVE LANDSCAPE: MAJOR PLAYER REVENUE SHARE ANALYSIS (2023)**

**13. SWOT ANALYSIS OF KEY COMPANIES IN THE HUMANOID ROBOT MARKET**

**14. GLOBAL HUMANOID ROBOT MARKET, HISTORICAL TRENDS BY REGION (2018-2023)**

**15. KEY DRIVERS & CHALLENGES IN THE HUMANOID ROBOT MARKET**

**16. TECHNOLOGICAL ADVANCEMENTS IN THE HUMANOID ROBOT INDUSTRY**

**17. EMERGING APPLICATIONS IN HUMANOID ROBOTICS BY REGION**

## **18. INVESTMENT OPPORTUNITIES BY REGION AND SEGMENT, 2024-2032**

## **19. TOP MARKET STRATEGIES ADOPTED BY LEADING COMPANIES**

## **20. SUPPLY CHAIN ANALYSIS OF THE HUMANOID ROBOT MARKET**

'This list is not complete, the final report does contain more than 100 tables. The list may be updated in the final deliverable.'

## **12. LIST OF FIGURES**

### **1. GLOBAL HUMANOID ROBOT MARKET, RESEARCH METHODOLOGY FLOWCHART**

### **2. MARKET ESTIMATION TECHNIQUES FOR HUMANOID ROBOT MARKET**

### **3. GLOBAL MARKET SIZE ESTIMATES & FORECAST METHODOLOGY OVERVIEW**

### **4. KEY TRENDS SHAPING THE HUMANOID ROBOT MARKET (2023)**

### **5. GLOBAL HUMANOID ROBOT MARKET GROWTH PROSPECTS, 2022-2032**

### **6. PORTER'S FIVE FORCE ANALYSIS FOR THE HUMANOID ROBOT MARKET**

### **7. PESTEL ANALYSIS OF THE GLOBAL HUMANOID ROBOT MARKET**

### **8. VALUE CHAIN ANALYSIS OF THE HUMANOID ROBOT MARKET**

### **9. HUMANOID ROBOT MARKET REVENUE BREAKDOWN BY REGION, 2022 & 2032 (USD MILLION/BILLION)**

### **10. GLOBAL HUMANOID ROBOT MARKET SEGMENTATION OVERVIEW**

### **11. REGIONAL INSIGHTS: KEY TRENDS IN NORTH AMERICA, EUROPE, AND ASIA-PACIFIC MARKETS**

### **12. GLOBAL HUMANOID ROBOT MARKET REVENUE SHARE BY COMPONENT,**

*Global Humanoid Robot Market Size study, by Component (Hardware, Software), by Motion Type (Biped, Wheel Drive...*

**2023 (USD MILLION/BILLION)**

**13. MOTION TYPE SEGMENT ANALYSIS: GROWTH TRENDS FOR BIPED VS. WHEEL DRIVE, 2022-2032**

**14. APPLICATION SEGMENT INSIGHTS: EDUCATION, HEALTHCARE, AND ENTERTAINMENT GROWTH COMPARISON**

**15. HISTORICAL MARKET REVENUE BY REGION (2018-2023)**

**16. GLOBAL HUMANOID ROBOT MARKET OPPORTUNITY ANALYSIS BY INDUSTRY**

**17. EMERGING TRENDS IN AI AND ROBOTICS INTEGRATION (2024-2032)**

**18. COMPETITIVE LANDSCAPE OVERVIEW: KEY PLAYER STRATEGIES AND MARKET SHARE (2023)**

**19. REGIONAL COMPARISON OF INVESTMENT OPPORTUNITIES IN HUMANOID ROBOTICS**

**20. GROWTH DRIVERS & RESTRAINTS OVERVIEW WITH SUPPORTING DATA**

'This list is not complete, the final report does contain more than 50 figures. The list may be updated in the final deliverable.'

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