

U.S. Humanoid Robot Market Size, Share & Trends Analysis Report By Component (Hardware, Software), By Application (Manufacturing, Logistics & Warehousing, Healthcare, Hospitality), By Motion Type (Biped, Wheel Drive), By Sales Channel, And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. humanoid robot market size was valued at USD 897.6 million in 2025 and is projected to grow from USD 1,545.4 million in 2026 to USD 12,766.8 million by 2033, at a CAGR of 35.2% from 2026 to 2033. The market growth is driven by increasing investments in AI-driven humanoid robotics R&D, expanding use of humanoid robots across industrial and service sectors, rising adoption of Industry 4.0 and automation technologies, growing labor shortages, and continuous advancements in mobility, battery efficiency, and human-robot interaction.

The humanoid robot industry is expanding rapidly, owing to major advancements in artificial intelligence, machine learning, computer vision, and robotics engineering. These technologies are enabling humanoid robots to perform complex, human-like tasks with greater autonomy and adaptability. Improved perception, reasoning, and Motion Type control capabilities are making robots more effective in dynamic environments. As a result, humanoid robots are increasingly moving closer to practical, real-world deployment across multiple sectors.

In addition, the growing adoption of advanced artificial intelligence and robotic perception technologies is expected to enhance robotic autonomy, improve operational precision, and enable humanoid robots to operate safely in dynamic industrial and human-centric environments. Growing focus on intelligent automation, human-robot

collaboration, and workplace safety, along with digital transformation across manufacturing, logistics, healthcare, and retail, is driving investment in humanoid robotic platforms and supporting growth in the humanoid robotics industry.

Furthermore, the labor shortage across industries such as manufacturing, logistics, healthcare, and retail is becoming increasingly critical. This challenge is being intensified by aging populations and a declining pool of skilled workers in many regions. Humanoid robots are emerging as an effective solution to handle repetitive, physically demanding, and hazardous tasks. Their ability to seamlessly operate within existing human-centric environments further enhances their adoption potential.

Moreover, the application scope of humanoid robots is expanding beyond industrial settings into service-oriented sectors. Industries such as hospitality, education, defense & security, and personal assistance are increasingly using humanoid robots for interactive, customer-facing roles. These applications include customer service, training assistance, surveillance, and companionship services. This diversification is significantly widening the humanoid robot industry's potential and expanding the overall demand base.

U.S. Humanoid Robot Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest technology trends across each sub-segment from 2021 to 2033. For this study, Grand View Research has segmented the U.S. humanoid robot market report based on component, motion type, application & sales channel.

Component Outlook (Revenue, USD Million, 2021 - 2033)

Hardware

Software

Motion Type Outlook (Volume, Thousand Units; Revenue, USD Million, 2021 - 2033)

Biped

Wheel Drive

Application Outlook (Volume, Thousand Units; Revenue, USD Million, 2021 - 2033)

Manufacturing

Logistics & Warehousing

Healthcare

Retail & E-commerce

Hospitality

Education & Research

Defense & Security

Residential

Others

Sales Channel Outlook (Volume, Thousand Units; Revenue, USD Million, 2021 - 2033)

Direct Sale

Distribution Sale

This report can be delivered to the clients within 4 Business Days

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