

Humanoid Robot Assembly and Manufacturing Equipment Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Equipment Type (Assembly Equipment (Welding, Bonding, Fastening, Module or Sub-assembly Equipment, Battery or Motor or Gearbox Assembly Systems, and Others), Machining and Process Equipment (Press, CNC Machining, Metal Processing, Heat Treatment, Surface Treatment, and Others), Handling Transfer and Robotics Equipment (Robot Handlers, Collaborative Robots (Cobots), AGV or AMR, Tooling Systems, Jigs and Fixtures, and Others), and Line Setup and System Integration), By Automation Level (Fully Automated or Smart Factory Equipment, Semi-Automated Production Equipment, and Manual or Assisted Assembly Equipment), By End User (Humanoid Robot OEMs, Contract Manufacturers, System Integrators, and Research and Prototyping Labs) and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South America), and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South America)

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Abstracts

The Humanoid Robot Assembly and Manufacturing Equipment Market size was valued at US\$ 410.61 million in 2024 and is expected to reach US\$ 2210.70 million by 2031. The humanoid robot assembly and manufacturing equipment market size is estimated to register a CAGR of 28.6% during 2025–2031.

North America's strong technological infrastructure, combined with government-supported innovation programs, offers a favorable environment for the development and deployment of humanoid robot assembly and manufacturing equipment. In the US, robotics research and development is being actively promoted by federal agencies. The National Science Foundation (NSF) focuses on intelligent robotics and autonomous systems, while NASA's space robotics initiatives and the Department of Defense's programs on military robotics and autonomous vehicles underscore the strategic importance of robotics technology. The Artemis lunar exploration program, with a multi-billion-dollar budget, highlights NASA's dedication to advanced robotic capabilities for space missions. NSF research programs aim to integrate robotics into workplaces, hospitals, and homes, reflecting growing interest in human–robot collaboration. Canada is also heavily investing in robotics innovation; for example, government support through the Strategic Innovation Fund is fostering projects that develop general-purpose human-like intelligence for robots. Such initiatives demonstrate the region's commitment to advancing AI and robotics technologies and supporting innovation-driven companies. These research programs, strong funding, and focus on technological progress are expected to drive growth in the North American humanoid robot assembly and manufacturing equipment market.

In MEA, governments and private enterprises are investing in advanced manufacturing infrastructure, creating demand for precision assembly platforms, integration tools, and testing systems tailored for humanoid robotic solutions. Strategic partnerships and acquisitions are accelerating the development and deployment of humanoid robots in the region. In January 2026, Mobileye Global announced the acquisition of humanoid robotics startup Mentee Robotics for approximately US\$ 900 million, highlighting the convergence of autonomous technology and robotics. This deal underscores the increasing need for assembly and production equipment capable of supporting advanced sensors, perception systems, and AI-driven control for humanoid robots. In November 2025, Humanoid, a leading humanoid robotics company partnered with QSS

AI & Robotics to expand manufacturing and deployment capabilities in Saudi Arabia. The collaboration aims to localize technology under Saudi Arabia's Vision 2030 digital transformation strategy, with plans for production, support, and a potential pre-order framework of up to 10,000 humanoid robots over the next five years. Such initiatives emphasize the importance of flexible manufacturing systems, AI-integrated assembly platforms, and high-precision production equipment to enable large-scale humanoid robot manufacturing in the region. The MEA humanoid robot assembly and manufacturing equipment market is growing steadily, supported by strategic collaborations, investment in advanced robotics infrastructure, and increasing regional adoption of humanoid robots across industrial, commercial, and public service applications.

Across SAM, companies are leveraging humanoid robots to improve operational efficiency, reduce workplace hazards, and optimize resource utilization. In Brazil, the Unitree G1 humanoid robot has emerged as a versatile solution across industries such as agribusiness, logistics, healthcare, and security. The robot supports tasks, including crop monitoring, warehouse management, medical assistance, and surveillance, offering mobility, precision, and AI-driven capabilities to navigate challenging urban and rural environments. Adoption of humanoid robots in Brazil is helping companies reduce operational costs, enhance productivity, and strengthen competitiveness while supporting sustainability initiatives. In Argentina, startups such as Robots For Humanity SAS are providing subscription-based deployment of humanoid robots for industrial and logistics applications. Using virtual training environments and digital twin simulations, these robots are optimized for repetitive, high-risk tasks, enabling companies to automate operations without extensive infrastructure investment, minimize workplace accidents, and scale workforce capabilities. South America's humanoid robotics landscape is advancing through the integration of AI, automation, and intelligent hardware, positioning regional industries to improve operational performance and embrace future-ready manufacturing and service ecosystems.

Kuka AG, Fanuc Corp, ABB Ltd, Denso Corp, Staubli International AG, Boston Dynamics Inc, Unitree Robotics, Agility Robotics, UBTECH ROBOTICS CORP LTD., AGIBOT Innovation (Shanghai) Technology Co., Ltd, are among the key humanoid robot assembly and manufacturing equipment market players that are profiled in this market study.

The overall humanoid robot assembly and manufacturing equipment market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative

and quantitative information related to the humanoid robot assembly and manufacturing equipment market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the humanoid robot assembly and manufacturing equipment market.

Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Humanoid Robot Assembly and Manufacturing Equipment market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Humanoid Robot Assembly and Manufacturing Equipment market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Humanoid Robot Assembly and Manufacturing Equipment market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

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