

Global Humanoid Force-Controlled Arm Market Growth 2026-2032

<https://marketpublishers.com/r/G92E82898900EN.html>

Date: October 2026

Pages: 134

Price: US\$ 3,660.00 (Single User License)

ID: G92E82898900EN

Abstracts

The global Humanoid Force-Controlled Arm market size is predicted to grow from US\$ 49.8 million in 2025 to US\$ 2744 million in 2032; it is expected to grow at a CAGR of 78.8% from 2026 to 2032.

Humanoid Force-Controlled Arms are robotic arms designed to mimic the structure of the human upper limb. Their core features are high-degree-of-freedom biomimetic design and full-joint force sensing capabilities. Covering multiple load capacities, humanoid force-controlled arms boast an excellent modular architecture and open hardware and software interfaces, fully supporting secondary development and deep customization. Their highly biomimetic structural design deeply integrates ergonomics and biomechanics principles, accurately replicating human upper limb behavior patterns in terms of motion degrees of freedom, joint arrangement, and force control feedback. This enables a high-precision, high-response humanoid manipulation experience. Their openness and scalability lay a solid foundation for building multi-scenario, multi-modal humanoid robot systems. Typically employing a 7-DOF design (3 DDOF for the shoulder, 1 DDOF for the elbow, and 3 DDOF for the wrist), they replicate the flexible movements of the human arm. Through real-time monitoring of contact forces using full-joint force sensors, combined with admittance control algorithms, they achieve millisecond-level force feedback adjustment. A lightweight design (body weight ?10kg) achieves a 5kg end-effector load, significantly outperforming traditional industrial arms. In 2025, the global production of Humanoid Force-Controlled Arms is estimated at approximately 23,760 units, with an average selling price of US\$2,142.71 per unit. With an annual production capacity of 1,000 units per company, most are currently in the R&D and small-batch production stage, resulting in a low gross profit margin of approximately 25.5%, but there is still room for future growth.

The humanoid force-controlled arm market is undergoing a paradigm shift from "piecemeal integration" to "one-stop delivery." Last year, companies favored purchasing integrated joint modules, primarily driven by the pursuit of independent control over core components and the advantages of modular design in rapidly validating technological pathways during the R&D phase. However, with the increasing complexity of application scenarios (such as the need for bi-arm collaboration in medical care and plug-and-play requirements in industrial settings), companies have gradually discovered that purchasing joint modules individually requires solving engineering challenges such as mechanical structure matching, power system coordination, and sensor fusion, leading to extended development cycles and hidden cost increases. Today, complete machine or complete arm solutions, with their standardized "out-of-the-box" design (such as pre-integrated force control algorithms, unified communication protocols, and redundant safety mechanisms) and full lifecycle services (from scenario customization to after-sales maintenance), have become the preferred choice for customers in the manufacturing and service industries. This shift not only reflects the market's urgent need for "cost reduction and efficiency improvement," but also indicates that the Humanoid Force-Controlled Arm industry is moving from the technology exploration stage to the stage of large-scale commercialization. In the future, leading companies with complete arm delivery capabilities will further consolidate their barriers through ecosystem integration, while manufacturers focusing on joint modules need to iterate towards "high precision, lightweight, and low cost" in order to gain a foothold in the niche market.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Humanoid Force-Controlled Arm Industry Forecast" looks at past sales and reviews total world Humanoid Force-Controlled Arm sales in 2025, providing a comprehensive analysis by region and market sector of projected Humanoid Force-Controlled Arm sales for 2026 through 2032. With Humanoid Force-Controlled Arm sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Humanoid Force-Controlled Arm industry.

This Insight Report provides a comprehensive analysis of the global Humanoid Force-Controlled Arm landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Humanoid Force-Controlled Arm portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique

position in an accelerating global Humanoid Force-Controlled Arm market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humanoid Force-Controlled Arm and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Humanoid Force-Controlled Arm.

This report presents a comprehensive overview, market shares, and growth opportunities of Humanoid Force-Controlled Arm market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

3Kg

5Kg

7Kg

Others

Segmentation by Area:

Commercial Version

Industrial Version

Segmentation by Shape:

Dual-Arm

Single Arm

Segmentation by Application:

Auto Parts

Electronics

Commercial Services

General Industry

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Agile Robots SE

Rainbow Robotics (Samsung Electronics Co., Ltd)

Franka Robotics

Agility Robotics

SIASUN

ESTUN

Universal Robots A/S

ABB

Kawasaki

Elite Robots

JAKA

Techrobots

Juxie Intelligent

GUANGDONG TIANJI INTELLIGENT SYSTEM CO;LTD

ROKAE Robotics

RealMan Robotics

Dobot Robotics

AgileX Robotics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Force-Controlled Arm market?

What factors are driving Humanoid Force-Controlled Arm market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Humanoid Force-Controlled Arm market opportunities vary by end market size?

How does Humanoid Force-Controlled Arm break out by Type, by Application?

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