

Global Humanoid Robot Hollow Cup Motor Market Growth 2026-2032

<https://marketpublishers.com/r/G23804EC55F7EN.html>

Date: July 2026

Pages: 154

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

ID: G23804EC55F7EN

Abstracts

The global Humanoid Robot Hollow Cup Motor market size is predicted to grow from US\$ 21.02 million in 2025 to US\$ 1300 million in 2032; it is expected to grow at a CAGR of 81.8% from 2026 to 2032.

Hollow Cup Motor are DC permanent magnet servo control motors. Structurally, they break away from the traditional stator/rotor structure of motors, employing a coreless stator/rotor, fundamentally solving the inherent problems of cored structures. Compared to traditional cored motors, coreless motors offer numerous advantages, such as high motor speed, extremely high energy conversion efficiency, high acceleration, high dynamic response, small size, and light weight. Coreless motors are divided into two types: brushed coreless and brushless coggingless. Brushed coreless motors have a coreless rotor, while brushless coreless motors have a coreless stator. The two types differ in their final product performance characteristics and applications. The production technology of coreless motor coils mainly involves winding production and one-time forming production. The winding production method is complex, requiring copper wire to be wound into a hollow coil of a certain geometric shape, then flattened into a flat copper wire sheet, and finally wound into a cylindrical coil. Winding efficiency is relatively low in production methods, and one-time forming is currently the mainstream approach. The aforementioned straight-winding, oblique-winding, and concentric windings are all used in automated one-time forming equipment, but Chinese companies primarily use winding production. Motors are a key component of humanoid robots. The joints of humanoid robots require both high degrees of freedom and high-precision control. In applications where space is limited, such as finger joints, the advantages of coreless motors—small size, high power density, high response speed, and high-precision control—become prominent. The large-scale development of the global humanoid robot industry is expected to drive broad prospects for the application

of coreless motors. In 2024, global production of Humanoid Robot Hollow Cup Motors reached 47,800 units, with an average selling price of \$89.57 per unit. With a gross profit margin of approximately 35%-40%, the company produces 8.6 million high-efficiency motors annually. The upstream raw materials for coreless motors include copper, steel, magnets, bearings, and plastics. The upstream winding equipment industry is mainly concentrated in Europe, America, and Japan, with companies including Meteor (Switzerland), Tanaka Seiki (Japan), and Nippon Machinery (Japan). Coreless motors were initially used in cutting-edge industries such as aviation, aerospace, and the military. In recent years, their applications have gradually expanded to civilian sectors, such as medical devices, consumer electronics, power tools, and industrial automation. Case studies: Coreless motors are already used in surgical robots in the medical industry, and Tesla's Optimus robot's hand motion control solution also employs a coreless motor + worm gear + tendon cable drive transmission control.

Compared to traditional DC motors, Hollow Cup Motors primarily offer energy savings. Their coreless design eliminates energy losses caused by eddy currents in the core, resulting in high energy conversion efficiency, typically exceeding 70%, with some products reaching over 90% (compared to around 70% for core-driven motors). They also boast superior control characteristics, exhibiting rapid start-up and braking with extremely fast response times. The mechanical time constant is less than 28 milliseconds, with some products achieving less than 10 milliseconds (compared to over 100 milliseconds for core-driven motors). Furthermore, they offer convenient and sensitive speed adjustment within the recommended operating range at high speeds. Additionally, they provide excellent drive stability with minimal speed fluctuations, easily controlled to within 2% for micro-motors. Finally, they are lightweight, reducing weight and volume by 1/3 to 1/2 compared to core-driven motors of equivalent power, while significantly increasing energy density. The global Hollow Cup Motor market is dominated by overseas companies, resulting in high market concentration. Hollow cup motors are technologically advanced and difficult to manufacture. Furthermore, the expanding downstream applications and varying performance requirements necessitate customized production capabilities from manufacturers. In addition, rapid technological advancements require manufacturers to continuously iterate and optimize their products. Currently, the global hollow cup motor market is dominated by overseas manufacturers, with foreign companies holding over 80% market share in 2024. The downstream market for hollow cup motors is expanding rapidly, continuously increasing its market potential. On one hand, the increasing demands for precision and speed in medical devices and aerospace industrial automation products are driving the continued expansion of the hollow cup motor market. On the other hand, the rapid response and high precision characteristics of hollow cup motors are well-suited for humanoid robot

hand joints; with the mass production of humanoid robots, this is expected to boost the hollow cup motor market, further increasing its potential size.

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

This Insight Report provides a comprehensive analysis of the global Humanoid Robot Hollow Cup Motor 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 Robot Hollow Cup Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Humanoid Robot Hollow Cup Motor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humanoid Robot Hollow Cup Motor 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 Robot Hollow Cup Motor.

This report presents a comprehensive overview, market shares, and growth opportunities of Humanoid Robot Hollow Cup Motor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Coreless Motor

Slotless Motor

Segmentation by Process:

One-piece Molding - Straight Winding

One-piece Molding - Oblique Winding

One-piece Molding - Concentric (Diamond/Saddle Shape)

Rolling Type

Segmentation by Base Dimensions:

3mm-7mm

8mm-13mm

14mm-22mm

Others

Segmentation by Application:

Mobile Robots

Collaborative Robots

Service Robots

Others

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.

Maxon

Faulhaber

Portescap

Allied Motion

CITIZEN MICRO CO., LTD.

Assun Motors Pte Ltd

Orbray Co., Ltd.

KOCO MOTION GmbH

Telco Intercontinental Corp.

Takiron Co., Ltd.

Lin Engineering

Delta Line

Hennkwell

Topband Motors

Zhejiang Hechuan Technology Co.,Ltd.

MOONS'

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.

Shenzhen Zhaowei Machinery & Electronics Co., Ltd.

China Leadshine Technology Co., Ltd.

Shenzhen Topband Co., Ltd.

Jiangsu Leili Motor Co., Ltd.

Zhxmotor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Hollow Cup Motor market?

What factors are driving Humanoid Robot Hollow Cup Motor market growth, globally and by region?

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

How do Humanoid Robot Hollow Cup Motor market opportunities vary by end market size?

How does Humanoid Robot Hollow Cup Motor break out by Type, by Application?

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