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Global Electromagnetic Brakes for Humanoid Robot Market Growth 2026-2032

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Abstracts

The global Electromagnetic Brakes for Humanoid Robot market size is predicted to grow from US$ 3.42 million in 2025 to US$ 63.57 million in 2032; it is expected to grow at a CAGR of 21.4% from 2026 to 2032.

In 2025, global Electromagnetic Brakes for Humanoid Robot production reached approximately 35,000 units with average price of 100 USD/Unit.

Electromagnetic brakes for humanoid robots are safety and motion-control components installed in joint actuators, servo motors or reducer assemblies. They stop joint motion, hold a commanded position and prevent uncontrolled movement or joint collapse during power loss, emergency shutdowns or control-system failures. A typical brake consists of an electromagnetic coil, armature, friction disc, springs, magnetic components and a mounting structure, and is integrated with the motor, reducer, encoder and drive electronics to form a compact joint actuator.

The principal technologies are spring-applied electromagnetic brakes and permanent-magnet brakes. Spring-applied brakes engage mechanically when power is removed and release when the coil is energized, providing fail-safe protection for load-bearing joints such as the hip, knee, ankle, waist and shoulder. Permanent-magnet brakes can provide compact construction, rapid response, backlash-free torque transmission and accurate holding performance. Product development is increasingly focused on slim profiles, hollow-shaft structures, high torque density, low power consumption and quiet operation.

Upstream suppliers provide soft magnetic steel, electrical steel, permanent magnets, enamelled copper wire, friction materials, spring steel, bearings, fasteners, precision-

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stamped components and machined parts. Sensors, brake controllers and power-management electronics may also be included. Magnetic properties, friction stability, thermal resistance and dimensional accuracy directly influence holding torque, response time, service life and operating noise.

The midstream segment includes electromagnetic brake manufacturers, servo-motor suppliers, precision-reducer manufacturers and integrated joint-module companies. Brake suppliers undertake magnetic-circuit design, coil winding, friction-pair development, spring matching, thermal management, lifecycle testing and safety validation. Joint-module manufacturers integrate the brake with frameless torque motors, harmonic or planetary reducers, encoders, drives and structural housings. Slim hollow-shaft brakes are particularly suitable for humanoid joints because power, communication and sensor cables can be routed through the centre of the actuator.

Downstream customers include humanoid robot manufacturers and end users in automotive production, warehousing, logistics, electronics assembly, commercial services, rehabilitation and household assistance. Requirements differ by joint. Leg and waist joints emphasize high holding torque, shock resistance and fail-safe operation, while arm joints place greater importance on low weight, rapid release and low drag torque. Small hand and finger joints may use miniature brakes, mechanical locking mechanisms or brake-free actuator designs.

The market remains at an early commercialization stage but has attractive long-term growth potential. Commercial humanoid platforms increasingly contain large numbers of powered joints, with some systems disclosing more than twenty to forty joint motors and high peak torque at load-bearing leg joints. As humanoid robots move from demonstrations into factories, warehouses and human-shared environments, emergency stopping, power-off holding and protection against uncontrolled arm or body movement will become increasingly important. This is expected to support demand for high-reliability brakes in critical hip, knee, ankle, waist and shoulder actuators.

Future development will focus on higher torque density, thinner hollow-shaft construction, lower weight, minimal residual drag, millisecond-level response, low noise and reduced holding power. Energy-saving controllers can provide high initial current for brake release and then reduce voltage or use pulse-width modulation to limit steady-state power consumption and heat generation. Brakes are also expected to become more closely integrated with encoders, drives and functional-safety systems, enabling wear monitoring, temperature sensing, torque diagnostics and predictive maintenance.

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Report Scope

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

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

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

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

Segmentation by Type:

Spring-Applied Power-Off Electromagnetic Brake

Permanent-Magnet Power-Off Brake

Power-On Electromagnetic Friction Brake

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Others

Segmentation by Structure:

Ultra-Thin Hollow Compact Brake

Micro Flange Compact Brake

Flat Integrated Brake

Segmentation by Torque:

Below 1 Nm

1-5 Nm

5-20 Nm

Above 20 Nm

Segmentation by Application:

Humanoid Robot Arm Joints

Humanoid Robot Leg Joints

Waist and Torso Joints

Others

This report also splits the market by region:

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- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt

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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.

Kendrion N.V.

Chr. Mayr GmbH + Co. KG

KEB Automation KG

Warner Electric

Ogura Clutch Co., Ltd.

Miki Pulley Co., Ltd.

Nexen Group, Inc.

PRECIMA Magnettechnik GmbH

SINFONIA TECHNOLOGY CO., LTD.

MinebeaMitsumi Inc.

Ortlinghaus-Werke GmbH

Electroid Company

Mach III Clutch, Inc.

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Chengdu Reach Machinery Co., Ltd.

Chengdu CDC Technology Co., Ltd.

Zhuji Miki Technology Co., Ltd.

Suzhou Jipai Electromagnetic Technology Co., Ltd.

Jiangxi Huawu Brake Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electromagnetic Brakes for Humanoid Robot market?

What factors are driving Electromagnetic Brakes for Humanoid Robot market growth, globally and by region?

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

How do Electromagnetic Brakes for Humanoid Robot market opportunities vary by end market size?

How does Electromagnetic Brakes for Humanoid Robot break out by Type, by Application?

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