

# Global Robot-joint Electromagnetic Brake Market Growth 2026-2032

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## Abstracts

The global Robot-joint Electromagnetic Brake market size is predicted to grow from US\$ 495 million in 2025 to US\$ 1176 million in 2032; it is expected to grow at a CAGR of 13.2% from 2026 to 2032.

A robot-joint electromagnetic brake is an electrically actuated braking module integrated into a robot joint (motor/gearbox/actuator drivetrain) to stop and hold the joint/axis—especially under power loss, E-stop, or control faults—preventing drift or gravity back-drive. In 2025, global robot-joint electromagnetic brake production reached approximately 1863.7 k units. Global production capacity in 2025 is approximately 2350 k units. Upstream for robot-joint electromagnetic brakes includes structural & friction materials (steel/aluminum parts, friction linings, springs, fasteners), electromagnetic/electrical materials (copper coils, insulation, connectors/cables), and—depending on design—permanent magnets plus bearings/seals. Downstream, these brakes are commonly integrated into robot joint modules / integrated actuators (e.g., harmonic/planetary gear + frameless torque motor + encoder + brake) and delivered to industrial/collaborative robot OEMs and safety-critical automation axes, where the brake's job is to hold the arm in position under power loss or faults to prevent back-drive, drop, or drift.

Robot-joint electromagnetic brakes are critical safety components integrated into robot joints and joint actuators, designed to provide rapid holding and position locking in the event of power loss, emergency stop, or control failure. Their primary function is to prevent joint back-driving, arm drop, or uncontrolled motion caused by gravity or inertia. The mainstream technical architecture is spring-applied, electrically released (power-off fail-safe) braking, which has become a standard configuration in industrial robots, collaborative robots, and emerging humanoid robots. Current demand is driven mainly

by gravity-loaded axes in industrial robots and full-joint safety holding requirements in collaborative robots, while emerging applications such as humanoid and service robots are accelerating demand for slim, hollow-shaft, high-reliability brake designs.

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

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

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

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

Segmentation by Type:

    Holding Brake

    Dynamic Braking

### Segmentation by Form Factor:

Slim Single-disc

Hollow-shaft

Shaft-end Mounted

### Segmentation by Electrical Interface:

24VDC

48VDC

### Segmentation by Actuation Principle:

Electrically Released

Permanent-magnet

Tooth Brake/Positive Locking

### Segmentation by Application:

Industrial Robots

Service Robots

Medical 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.

Kendrion

Mayr Antriebstechnik

KEB Automation

Ogura Industrial

Miki Pulley

Warner Electric

SEPAC, Inc

Reach Group

LEISAI

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Robot-joint Electromagnetic Brake market?

What factors are driving Robot-joint Electromagnetic Brake market growth,

globally and by region?

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

How do Robot-joint Electromagnetic Brake market opportunities vary by end market size?

How does Robot-joint Electromagnetic Brake break out by Type, by Application?

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