+357 96 030922
info@marketpublishers.com

Global Robot-joint Electromagnetic Brake Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/REE7BCA5E536EN.html
Date: January 2026
Pages: 94
Price: US$ 3,480.00 (Single User License)
ID: REE7BCA5E536EN

Abstracts

According to our (Global Info Research) latest study, the global Robot-joint Electromagnetic Brake market size was valued at US$ 520 million in 2025 and is forecast to a readjusted size of US$ 1187 million by 2032 with a CAGR of 12.4% during review period.

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

+357 96 030922
info@marketpublishers.com

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.

This report is a detailed and comprehensive analysis for global Robot-joint Electromagnetic Brake market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robot-joint Electromagnetic Brake market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Robot-joint Electromagnetic Brake market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Robot-joint Electromagnetic Brake market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Robot-joint Electromagnetic Brake market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Robot-joint Electromagnetic Brake
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

+357 96 030922
info@marketpublishers.com

This report profiles key players in the global Robot-joint Electromagnetic Brake market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kendrion, Mayr Antriebstechnik, KEB Automation, Ogura Industrial, Miki Pulley, Warner Electric, SEPAC, Inc, Reach Group, LEISAI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Robot-joint Electromagnetic Brake market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Holding Brake

Dynamic Braking

Market segment by Form Factor

Slim Single-disc

Hollow-shaft

Shaft-end Mounted

Market segment by Electrical Interface

24VDC

48VDC

+357 96 030922
info@marketpublishers.com

Market segment by Actuation Principle

- Electrically Released
- Permanent-magnet
- Tooth Brake/Positive Locking

Market segment by Application

- Industrial Robots
- Service Robots
- Medical Robots
- Others

Major players covered

- Kendrion
- Mayr Antriebstechnik
- KEB Automation
- Ogura Industrial
- Miki Pulley
- Warner Electric
- SEPAC, Inc
- Reach Group

+357 96 030922
info@marketpublishers.com

LEISAI

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Robot-joint Electromagnetic Brake product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robot-joint Electromagnetic Brake, with price, sales quantity, revenue, and global market share of Robot-joint Electromagnetic Brake from 2021 to 2026.

Chapter 3, the Robot-joint Electromagnetic Brake competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robot-joint Electromagnetic Brake breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Robot-joint Electromagnetic Brake market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

+357 96 030922
info@marketpublishers.com

Chapter 13, the key raw materials and key suppliers, and industry chain of Robot-joint Electromagnetic Brake.

Chapter 14 and 15, to describe Robot-joint Electromagnetic Brake sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

2 MANUFACTURERS PROFILES

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: ROBOT-JOINT ELECTROMAGNETIC BRAKE BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Robot-joint Electromagnetic Brake Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/REE7BCA5E536EN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/REE7BCA5E536EN.html