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Global Robot-joint Electromagnetic Brake Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot-joint Electromagnetic Brake market size is expected to reach $ 436 million by 2032, rising at a market growth of 10.8% CAGR during the forecast period (2026-2032).
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 11,029.53 k units. Global production capacity in 2025 is approximately 1,300 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

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are accelerating demand for slim, hollow-shaft, high-reliability brake designs.
This report studies the global Robot-joint Electromagnetic Brake production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Robot-joint Electromagnetic Brake and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robot-joint Electromagnetic Brake that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robot-joint Electromagnetic Brake total production and demand, 2021-2032, (K Units)
Global Robot-joint Electromagnetic Brake total production value, 2021-2032, (USD Million)
Global Robot-joint Electromagnetic Brake production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Robot-joint Electromagnetic Brake consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Robot-joint Electromagnetic Brake domestic production, consumption, key domestic manufacturers and share
Global Robot-joint Electromagnetic Brake production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Robot-joint Electromagnetic Brake production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Robot-joint Electromagnetic Brake production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
This report profiles key players in the global Robot-joint Electromagnetic Brake market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ogura Clutch, Kendrion, Mayr Power Transmission, Regal Rexnord (Warner Electric), KEB Automation, Miki Pulley, Reach Machinery Co., Ltd, STEKI, Precima, Nexen Group, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robot-joint Electromagnetic Brake market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

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year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Robot-joint Electromagnetic Brake Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot-joint Electromagnetic Brake Market, Segmentation by Type:

Holding Brake

Dynamic Braking

Global Robot-joint Electromagnetic Brake Market, Segmentation by Form Factor:

Slim Single-disc

Hollow-shaft

Shaft-end Mounted

Global Robot-joint Electromagnetic Brake Market, Segmentation by Electrical Interface:

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24VDC

48VDC

Global Robot-joint Electromagnetic Brake Market, Segmentation by Actuation Principle:

Electrically Released

Permanent-magnet

Tooth Brake/Positive Locking

Global Robot-joint Electromagnetic Brake Market, Segmentation by Application:

Industrial Robots

Collaborative Robots

Medical Robots

Others

Companies Profiled:

Ogura Clutch

Kendrion

Mayr Power Transmission

Regal Rexnord (Warner Electric)

KEB Automation

Miki Pulley

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Reach Machinery Co., Ltd

STEKI

Precima

Nexen Group

SEPAC

GITRON-TECH

Key Questions Answered:

1. How big is the global Robot-joint Electromagnetic Brake market?
2. What is the demand of the global Robot-joint Electromagnetic Brake market?
3. What is the year over year growth of the global Robot-joint Electromagnetic Brake market?
4. What is the production and production value of the global Robot-joint Electromagnetic Brake market?
5. Who are the key producers in the global Robot-joint Electromagnetic Brake market?
6. What are the growth factors driving the market demand?

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