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Global Spring-applied Electromagnetic Brakes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Spring-applied Electromagnetic Brakes market size is expected to reach $ 974 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).
In 2025, global Spring-applied Electromagnetic Brakes reached approximately 11441.71 K Units, with an average global market price of around 48.6 USD per K Units.
Spring-applied electromagnetic brakes are a type of electromechanical braking system that combines spring force and electromagnetic force to stop or hold rotating machinery in place. These brakes are widely used in applications where reliable stopping power and fail-safe operation are critical, such as in industrial machinery, conveyors, elevators, and automated systems.In this system, the brake is normally engaged by springs when the power is off, causing the brake pads to press against the brake drum or disc to halt the rotation. When power is supplied to the brake?s electromagnetic coil, the magnetic field overcomes the spring force, disengaging the brake and allowing the machinery to rotate. The brake then remains disengaged as long as the power is supplied. If the power fails, the spring-applied mechanism automatically engages the brake, making it fail-safe.
The upstream core components of Spring-applied Electromagnetic Brakes mainly include electromagnets, brake springs, brake discs, friction plates, and drive shafts. Typical suppliers include Kendrion, Altra Industrial Motion, Schaeffler, KEB, and Stromag. Downstream applications are primarily in industry, logistics, medical, and wind power, with typical users including Siemens, ABB, Otis, and Haitian Precision Machinery.
The single-line capacity of Spring-applied Electromagnetic Brakes depends mainly on the level of automation, product type, and process complexity. Annual capacity per line is typically 300,000-500,000 units, with a gross profit margin usually ranging from 20% to 30%.

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Spring-applied Electromagnetic Brakes, with their inherently safe automatic braking upon power failure, millisecond-level rapid response, and precise and controllable braking performance, combined with their core advantages of compact and lightweight structure, low power consumption, and convenient maintenance, precisely address the industry pain points of traditional braking devices, such as insufficient protection, response delay, low control precision, and poor braking stability of heavy-duty equipment in sudden power outage scenarios. They effectively avoid safety hazards in the operation of equipment such as cranes, elevators, and industrial robots, while also meeting the space-saving and energy-optimized requirements of precision transmission systems. Currently, the global upgrading of industrial automation, the expansion of the new energy vehicle and intelligent connected vehicle industries, and the development of new energy equipment such as rail transit and wind power, coupled with the continuous improvement of equipment operation safety and energy efficiency standards in various countries, constitute the core driving force for industry growth, expanding the application boundaries of the products. In the future, with the deep integration of technologies such as drive-by-wire and intelligent diagnostics with braking systems, Spring-applied Electromagnetic Brakes will be further upgraded towards integration and intelligence. They will not only be better able to meet the stringent requirements of high-end equipment for redundant braking and precise control, but will also continue to penetrate emerging industrial scenarios and new energy fields. Their value as a core component for the safety protection of transmission systems will become increasingly prominent, and their market growth potential will continue to be released with broad development prospects.

This report studies the global Spring-applied Electromagnetic Brakes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Spring-applied Electromagnetic Brakes 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 Spring-applied Electromagnetic Brakes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Spring-applied Electromagnetic Brakes total production and demand, 2021-2032, (K Units)

Global Spring-applied Electromagnetic Brakes total production value, 2021-2032, (USD Million)

Global Spring-applied Electromagnetic Brakes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Spring-applied Electromagnetic Brakes consumption by region & country,

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CAGR, 2021-2032 & (K Units)
U.S. VS China: Spring-applied Electromagnetic Brakes domestic production, consumption, key domestic manufacturers and share
Global Spring-applied Electromagnetic Brakes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Spring-applied Electromagnetic Brakes production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Spring-applied Electromagnetic Brakes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
This report profiles key players in the global Spring-applied Electromagnetic Brakes 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 Kendrion?former INTORQ?, Mayr, KEB Automation, Regal Rexnord, Precima Magnettechnik, Miki Pulley, SEPAC, Inc, Sinfonia Technology, MinebeaMitsumi Inc, SG Transmission, 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 Spring-applied Electromagnetic Brakes 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 Voltage, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global Spring-applied Electromagnetic Brakes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Spring-applied Electromagnetic Brakes Market, Segmentation by Voltage:

Power-off Braking

Power-on Braking

Global Spring-applied Electromagnetic Brakes Market, Segmentation by Torque:

100Nm Below

100-500Nm

500Nm Above

Global Spring-applied Electromagnetic Brakes Market, Segmentation by Structure:

Single-plate Type

Multi-plate Type

Global Spring-applied Electromagnetic Brakes Market, Segmentation by Application:

Industrial

Logistics

Medical

Wind Power

Others

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Companies Profiled:

Kendrion?former INTORQ?

Mayr

KEB Automation

Regal Rexnord

Precima Magnettechnik

Miki Pulley

SEPAC, Inc

Sinfonia Technology

MinebeaMitsumi Inc

SG Transmission

Carlyle Johnson (Rengfeder)

Vortex (KNOTT)

Teleco Freni srl

Ortlinghaus Group

OSAKI

REACH MACHINERY

Kunshan Security Control Development Equipment

Ahyunli

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HeFei Torqe Electric

Tianjin Yonghengtai

Suzhou Youtech Electromagnetic Technology

Key Questions Answered:

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

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