

Global Spring-applied Electromagnetic Safe Brakes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Spring-applied Electromagnetic Safe Brakes market size was valued at US\$ 572 million in 2025 and is forecast to a readjusted size of US\$ 974 million by 2032 with a CAGR of 8.1% during review period.

In 2025, global Spring-applied Electromagnetic Safe Brakes reached approximately 11441.71 K Units, with an average global market price of around 48.6 USD per K Units.

Spring-applied Electromagnetic Safe 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 Safe 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 Safe 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%.

This report is a detailed and comprehensive analysis for global Spring-applied Electromagnetic Safe Brakes 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 Spring-applied Electromagnetic Safe Brakes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Spring-applied Electromagnetic Safe Brakes 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 Spring-applied Electromagnetic Safe Brakes 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 Spring-applied Electromagnetic Safe Brakes 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 Spring-applied Electromagnetic Safe Brakes
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Spring-applied Electromagnetic Safe Brakes 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(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.

Market Segmentation

Spring-applied Electromagnetic Safe Brakes 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

Power-off Braking

Power-on Braking

Market segment by Torque

100Nm Below

100-500Nm

500Nm Above

Market segment by Structure

Single-plate Type

Multi-plate Type

Market segment by Application

Industrial

Logistics

Medical

Wind Power

Others

Major players covered

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

HeFei Torqe Electric

Tianjin Yonghengtai

Suzhou Youtech Electromagnetic Technology

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 Spring-applied Electromagnetic Safe Brakes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Spring-applied Electromagnetic Safe Brakes, with price, sales quantity, revenue, and global market share of Spring-applied Electromagnetic Safe Brakes from 2021 to 2026.

Chapter 3, the Spring-applied Electromagnetic Safe Brakes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Spring-applied Electromagnetic Safe Brakes 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 Spring-applied Electromagnetic Safe Brakes 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.

Chapter 13, the key raw materials and key suppliers, and industry chain of Spring-applied Electromagnetic Safe Brakes.

Chapter 14 and 15, to describe Spring-applied Electromagnetic Safe Brakes sales channel, distributors, customers, research findings and conclusion.

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