

Global Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic Brakes market size was valued at US\$ 407 million in 2025 and is forecast to a readjusted size of US\$ 501 million by 2032 with a CAGR of 3.0% during review period.

Ultra-thin electromagnetic brakes are precision braking devices that use electromagnetic force to control braking and release, achieving an ultra-thin design through optimized magnetic circuit structure, friction components, and installation methods. Their axial thickness is typically significantly smaller than traditional electromagnetic brakes, providing reliable braking torque and rapid response performance within limited installation space. They are widely used in automation equipment, robots, servo motors, medical equipment, semiconductor equipment, packaging machinery, and precision transmission systems.

The upstream of the industry chain mainly includes suppliers of electromagnetic coils, silicon steel sheets, permanent magnet materials, friction materials, bearings, springs, precision stamping parts, and metal raw materials such as aluminum alloys and steel. It also involves manufacturers of winding equipment, precision machining equipment, and automated assembly equipment. The midstream consists of companies engaged in the research and development and production of ultra-thin electromagnetic brakes, manufacturing products such as power-off brakes, holding brakes, and servo motor brakes through processes such as magnetic circuit design, precision machining, assembly, and testing. The downstream applications are widespread in industrial robots, collaborative robots, servo motors, automation equipment, semiconductor equipment, medical devices, AGV/AMR mobile robots, elevators, packaging machinery,

and new energy equipment.

In 2025, global sales of ultra-thin electromagnetic brakes will reach 7.6 million units, with a production capacity of approximately 11 million units. The average selling price is US\$52 per unit, and the average gross profit margin is 30%-40%.

Product technology is evolving towards ultra-thinness, lightweighting, high torque density, and low energy consumption. Traditional single-plate friction structures are gradually upgrading to multi-plate designs, high-performance friction materials, and optimized magnetic circuit designs to improve braking torque and reduce installation space requirements. Simultaneously, products are beginning to integrate temperature monitoring, lifespan prediction, and intelligent control functions to meet the condition monitoring needs of Industry 4.0 and intelligent equipment. For the robotics and precision equipment market, low noise, fast response, and long lifespan have become important technological development directions.

Global digital transformation in manufacturing, industrial automation upgrades, and supportive policies for the robotics industry continue to drive the development of the ultra-thin electromagnetic brake market. China's 'Intelligent Manufacturing' and 'Robotics + Application Action' policies promote the development of domestically produced precision transmission components; while Europe, the United States, and Japan are driving demand growth for high-performance brakes through high-end equipment manufacturing and automation upgrade plans. Furthermore, the localization of semiconductor equipment, the expansion of new energy equipment, and the upgrading of medical equipment are also creating new market opportunities for the industry.

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

Global Ultra-Thin Electromagnetic Brakes Market 2026 by Manufacturers, Regions, Type and Application, Forecast...

2021-2032

Global Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic 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 Ogura Industrial, Regal Rexnord, REACH Machinery, Miki Pulley, Dunkermotoren (Ametek), Chain Tail, jbj Techniques, Kendrion, Chengdu Chaode, SEPAC, etc.

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

Market Segmentation

Ultra-Thin Electromagnetic 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 Brake

Power-On Brake

Market segment by Torque

<1 Nm

1-10 Nm

10-50 Nm

Market segment by Thickness

12-14mm

14-19mm

Market segment by Application

Robots

Servo Motors

Medical Equipment

Industrial Automation

Elevators

Others

Major players covered

Ogura Industrial

Regal Rexnord

REACH Machinery

Miki Pulley

Dunkermotoren (Ametek)

Chain Tail

jbj Techniques

Kendrion

Chengdu Chaode

SEPAC

SINFONIA

Kunshan Ankong

Ruian Hongrun

EMTorq

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 Ultra-Thin Electromagnetic Brakes product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic 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 Ultra-Thin Electromagnetic Brakes.

Chapter 14 and 15, to describe Ultra-Thin Electromagnetic Brakes sales channel, distributors, customers, research findings and conclusion.

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