

Global Ultra-Thin Electromagnetic Brakes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra-Thin Electromagnetic Brakes market size is expected to reach \$ 501 million by 2032, rising at a market growth of 3.0% CAGR during the forecast period (2026-2032).

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 studies the global Ultra-Thin Electromagnetic Brakes production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Ultra-Thin Electromagnetic Brakes total production and demand, 2021-2032, (K Units)

Global Ultra-Thin Electromagnetic Brakes total production value, 2021-2032, (USD Million)

Global Ultra-Thin Electromagnetic Brakes production by region & country, production,

value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ultra-Thin Electromagnetic Brakes consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultra-Thin Electromagnetic Brakes domestic production, consumption, key domestic manufacturers and share

Global Ultra-Thin Electromagnetic Brakes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ultra-Thin Electromagnetic Brakes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultra-Thin Electromagnetic Brakes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultra-Thin 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultra-Thin 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 Type, 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 Ultra-Thin Electromagnetic Brakes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-Thin Electromagnetic Brakes Market, Segmentation by Type:

Power-Off Brake

Power-On Brake

Global Ultra-Thin Electromagnetic Brakes Market, Segmentation by Torque:

?1 Nm

1-10 Nm

10-50 Nm

Global Ultra-Thin Electromagnetic Brakes Market, Segmentation by Thickness:

12-14mm

14-19mm

Global Ultra-Thin Electromagnetic Brakes Market, Segmentation by Application:

Robots

Servo Motors

Medical Equipment

Industrial Automation

Elevators

Others

Companies Profiled:

Ogura Industrial

Regal Rexnord

REACH Machinery

Miki Pulley

Dunkermotoren (Ametek)

Chain Tail

jbj Techniques

Kendrion

Chengdu Chaode

SEPAC

SINFONIA

Kunshan Ankong

Ruian Hongrun

EMTorq

Key Questions Answered:

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

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