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Global Maglev Flywheel Energy Storage Market 2026 by Company, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GB9355E1448CEN.html
Date: January 2026
Pages: 101
Price: US$ 3,480.00 (Single User License)
ID: GB9355E1448CEN

Abstracts

According to our (Global Info Research) latest study, the global Maglev Flywheel Energy Storage market size was valued at US$ 242 million in 2025 and is forecast to a readjusted size of US$ 349 million by 2032 with a CAGR of 5.4% during review period.

Maglev flywheel energy storage is a mechanical energy storage system that stores electricity by using it to spin a heavy rotor at very high speed and later recovering that energy by running the same machine as a generator, with the rotor supported by magnetic levitation bearings to minimize friction and wear. In a typical design, a motor-generator accelerates a composite or steel flywheel inside a sealed, low-pressure (often vacuum) enclosure to reduce aerodynamic losses, power electronics manage rapid charge/discharge, and active control keeps the levitated rotor stable. Compared with chemical batteries, maglev flywheels are valued for very fast response, high cycle life, and high power output for short-to-medium durations, making them useful for grid frequency regulation, power quality and UPS systems, regenerative braking capture, and smoothing short renewable fluctuations, while their limits tend to be energy capacity per unit cost/volume and the need for robust containment and safety engineering for high-speed rotors.

Upstream, maglev flywheel energy storage depends on specialized materials and components including high-strength rotor materials (carbon-fiber composites or alloy steels), precision machining and balancing services, magnetic bearing stacks (permanent magnets plus actively controlled electromagnets), bearing controllers and high-speed sensors, vacuum chambers and seals, motor-generator assemblies, power electronics (inverters/rectifiers, DC links), thermal management parts, and safety containment structures, with key supply coming from composite manufacturers, magnet

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producers, motor and drive suppliers, and industrial automation vendors. Downstream, flywheel systems are integrated by OEMs and EPC/system integrators into applications such as grid services (frequency regulation, fast reserve, voltage support), power quality and UPS for data centers and factories, rail and transit regenerative braking capture, microgrids and renewable smoothing, and defense or critical infrastructure, then delivered with commissioning, control software integration, monitoring, and long-term maintenance contracts that cover bearing control tuning, vacuum system upkeep, periodic health checks, and end-of-life refurbishment or recycling of rotors, magnets, and metals.

This report is a detailed and comprehensive analysis for global Maglev Flywheel Energy Storage market. Both quantitative and qualitative analyses are presented by company, by region & country, by Rated Energy Storage Capacity 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 Maglev Flywheel Energy Storage market size and forecasts, in consumption value ($ Million), 2021-2032

Global Maglev Flywheel Energy Storage market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Maglev Flywheel Energy Storage market size and forecasts, by Rated Energy Storage Capacity and by Application, in consumption value ($ Million), 2021-2032

Global Maglev Flywheel Energy Storage market shares of main players, in revenue ($ Million), 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 Maglev Flywheel Energy Storage
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 Maglev Flywheel Energy Storage market

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based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Piller, Calnetix Technologies, ABB, POWERTHRU, PUNCH Flybrid, Revterra, Amber Kinetic, Shandong Tianrui Heavy Industry, Stornetic, VYCON, etc.

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

Market segmentation

Maglev Flywheel Energy Storage market is split by Rated Energy Storage Capacity and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Rated Energy Storage Capacity and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Rated Energy Storage Capacity

500 MJ and Below

500-1500 MJ

1500 MJ and Above

Market segment by Rotor Type

Steel/Metal Rotor Flywheels

Composite Rotor Flywheels

Market segment by Application

Power Grid

Rail Transit

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UPS Uninterruptible Power Supply

Others

Market segment by players, this report covers

Piller

Calnetix Technologies

ABB

POWERTHRU

PUNCH Flybrid

Revterra

Amber Kinetic

Shandong Tianrui Heavy Industry

Stornetic

VYCON

Beijing Qifeng Energy Technology

Huachi Dongneng

Kinetic Traction Systems

BC New Energy

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Maglev Flywheel Energy Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Maglev Flywheel Energy Storage, with revenue, gross margin, and global market share of Maglev Flywheel Energy Storage from 2021 to 2026.

Chapter 3, the Maglev Flywheel Energy Storage competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Rated Energy Storage Capacity and by Application, with consumption value and growth rate by Rated Energy Storage Capacity, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Maglev Flywheel Energy Storage market forecast, by regions, by Rated Energy Storage Capacity and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Maglev Flywheel Energy Storage.

Chapter 13, to describe Maglev Flywheel Energy Storage research findings and conclusion.

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