

Global Maglev Flywheel Energy Storage Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Maglev Flywheel Energy Storage market size is expected to reach \$ 349 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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 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 studies the global Maglev Flywheel Energy Storage demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Maglev Flywheel Energy Storage, 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 Maglev Flywheel Energy Storage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Maglev Flywheel Energy Storage total market, 2021-2032, (USD Million)

Global Maglev Flywheel Energy Storage total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Maglev Flywheel Energy Storage total market, key domestic companies, and share, (USD Million)

Global Maglev Flywheel Energy Storage revenue by player, revenue and market share 2021-2026, (USD Million)

Global Maglev Flywheel Energy Storage total market by Rated Energy Storage Capacity, CAGR, 2021-2032, (USD Million)

Global Maglev Flywheel Energy Storage total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Maglev Flywheel Energy Storage market 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Maglev Flywheel Energy Storage market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Rated Energy Storage Capacity, 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 Maglev Flywheel Energy Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Maglev Flywheel Energy Storage Market, Segmentation by Rated Energy Storage Capacity:

500 MJ and Below

500-1500 MJ

1500 MJ and Above

Global Maglev Flywheel Energy Storage Market, Segmentation by Rotor Type:

Steel/Metal Rotor Flywheels

Composite Rotor Flywheels

Global Maglev Flywheel Energy Storage Market, Segmentation by Application:

Power Grid

Rail Transit

UPS Uninterruptible Power Supply

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Maglev Flywheel Energy Storage market?
2. What is the demand of the global Maglev Flywheel Energy Storage market?
3. What is the year over year growth of the global Maglev Flywheel Energy Storage market?

4. What is the total value of the global Maglev Flywheel Energy Storage market?

5. Who are the Major Players in the global Maglev Flywheel Energy Storage market?
6. What are the growth factors driving the market demand?

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