

Global Maglev Flywheel Energy Storage Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Maglev Flywheel Energy Storage market size is predicted to grow from US\$ 230 million in 2025 to US\$ 339 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 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.

United States market for Maglev Flywheel Energy Storage is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Maglev Flywheel Energy Storage is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Maglev Flywheel Energy Storage is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Maglev Flywheel Energy Storage players cover Piller, Calnetix Technologies, ABB, POWERTHRU, PUNCH Flybrid, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Maglev Flywheel Energy Storage Industry Forecast" looks at past sales and reviews total world Maglev Flywheel Energy Storage sales in 2025, providing a comprehensive analysis by region and market sector of projected Maglev Flywheel Energy Storage sales for 2026 through 2032. With Maglev Flywheel Energy Storage sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Maglev Flywheel Energy Storage industry.

This Insight Report provides a comprehensive analysis of the global Maglev Flywheel Energy Storage landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Maglev Flywheel Energy Storage portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Maglev Flywheel Energy Storage market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Maglev Flywheel Energy Storage and breaks down the forecast by Rated Energy Storage Capacity, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Maglev Flywheel Energy Storage.

This report presents a comprehensive overview, market shares, and growth opportunities of Maglev Flywheel Energy Storage market by product type, application, key players and key regions and countries.

Segmentation by Rated Energy Storage Capacity:

500 MJ and Below

500-1500 MJ

1500 MJ and Above

Segmentation by Rotor Type:

Steel/Metal Rotor Flywheels

Composite Rotor Flywheels

Segmentation by Application:

Power Grid

Rail Transit

UPS Uninterruptible Power Supply

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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