

Global Flywheel Energy Storage Devices 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 Flywheel Energy Storage Devices 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.

Flywheel energy storage devices are mechanical systems that store electricity as rotational kinetic energy by using a motor to accelerate a rotor (flywheel) to high speed and later converting that stored motion back into electricity by operating the same machine as a generator. To reduce losses, the rotor is typically supported by low-friction bearings (often magnetic or advanced mechanical designs) and housed in a sealed low-pressure or vacuum enclosure, while power electronics manage fast charging and discharging with sub-second response. Flywheels excel where high power, rapid response, and very frequent cycling are needed—such as grid frequency regulation, power-quality and UPS ride-through, and regenerative braking energy capture—but they generally provide shorter-duration energy storage than batteries and require robust containment and safety engineering because of the high rotational speeds involved. Carbon-composite flywheel rotors cost about \$1,200 per kWh of stored energy, while high-strength steel rotors designed for very high cycle life cost roughly \$1,800–\$4,000 per kWh depending on the steel grade and strength.

Upstream, flywheel energy storage devices draw on suppliers of high-strength rotor materials (alloy steels or carbon-fiber composites and resins), precision machining or filament-winding and curing services, hubs/shafts and high-speed fasteners, bearing systems (mechanical or magnetic) plus sensors and control electronics, vacuum vessels and seals, motor-generator machines, power electronics (rectifiers/inverters, DC-link capacitors, protection devices), thermal management hardware, and high-

integrity containment and certification/testing services. Downstream, flywheel OEMs and system integrators package single units or modular banks with controls and monitoring software and deploy them for grid ancillary services (frequency regulation and fast reserve), power quality and UPS ride-through in data centers and industrial facilities, rail and industrial regenerative-braking capture, microgrids and renewable smoothing, and other critical infrastructure, then provide commissioning, operations support, preventative maintenance, and end-of-life refurbishment or recycling of metals, composites, magnets, and electronics.

This report is a detailed and comprehensive analysis for global Flywheel Energy Storage Devices market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Flywheel Energy Storage Devices market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Flywheel Energy Storage Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Flywheel Energy Storage Devices market size and forecasts, by Rated Energy Storage Capacity and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Flywheel Energy Storage Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KWh), 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 Flywheel Energy Storage Devices
- 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 Flywheel Energy Storage Devices 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 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

Flywheel Energy Storage Devices 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 in terms of volume and value. 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

UPS Uninterruptible Power Supply

Others

Major players covered

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 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 Flywheel Energy Storage Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flywheel Energy Storage Devices, with price, sales quantity, revenue, and global market share of Flywheel Energy Storage Devices from 2021 to 2026.

Chapter 3, the Flywheel Energy Storage Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flywheel Energy Storage Devices 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 Rated Energy Storage Capacity and by Application, with sales market share and growth rate by Rated Energy Storage Capacity, 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 Flywheel Energy Storage Devices market forecast, by regions, by Rated Energy Storage Capacity, 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 Flywheel

Energy Storage Devices.

Chapter 14 and 15, to describe Flywheel Energy Storage Devices sales channel, distributors, customers, research findings and conclusion.

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