

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

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Abstracts

The global Flywheel Energy Storage Devices 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).

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 studies the global Flywheel Energy Storage Devices production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Flywheel Energy Storage Devices total production and demand, 2021-2032, (KWh)

Global Flywheel Energy Storage Devices total production value, 2021-2032, (USD Million)

Global Flywheel Energy Storage Devices production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Flywheel Energy Storage Devices consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Flywheel Energy Storage Devices domestic production, consumption, key domestic manufacturers and share

Global Flywheel Energy Storage Devices production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Flywheel Energy Storage Devices production by Rated Energy Storage Capacity, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Flywheel Energy Storage Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Flywheel Energy Storage Devices 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 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 Flywheel Energy Storage Devices market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) by manufacturer, 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 Flywheel Energy Storage Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

500 MJ and Below

500-1500 MJ

1500 MJ and Above

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

Steel/Metal Rotor Flywheels

Composite Rotor Flywheels

Global Flywheel Energy Storage Devices 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 Flywheel Energy Storage Devices market?
2. What is the demand of the global Flywheel Energy Storage Devices market?
3. What is the year over year growth of the global Flywheel Energy Storage Devices market?
4. What is the production and production value of the global Flywheel Energy Storage Devices market?
5. Who are the key producers in the global Flywheel Energy Storage Devices market?
6. What are the growth factors driving the market demand?

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