

Global Kinetic Energy Storage Flywheel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Kinetic Energy Storage Flywheel market size was valued at US\$ 242 million in 2024 and is forecast to a readjusted size of USD 448 million by 2031 with a CAGR of 9.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A kinetic energy storage flywheel is a mechanical device that stores energy in the form of rotational kinetic energy by spinning a rotor at very high speeds. The flywheel system typically consists of a rotor, bearings, and a motor-generator. Energy is stored when the motor accelerates the rotor to high speeds, and it is released when the rotor slows down, driving the generator to produce electricity. Flywheels offer high power density, rapid response times, and long life cycles with minimal maintenance. They are used in applications such as grid energy storage, uninterruptible power supplies (UPS), and regenerative braking systems in vehicles, providing efficient energy storage and release with low environmental impact.

This report is a detailed and comprehensive analysis for global Kinetic Energy Storage Flywheel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Kinetic Energy Storage Flywheel market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Kinetic Energy Storage Flywheel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Kinetic Energy Storage Flywheel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Kinetic Energy Storage Flywheel market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 Kinetic Energy Storage Flywheel
- 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 Kinetic Energy Storage Flywheel 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

Kinetic Energy Storage Flywheel market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Below 500 MJ

500-1500 MJ

Above 1500 MJ

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

Chapter 2, to profile the top manufacturers of Kinetic Energy Storage Flywheel, with price, sales quantity, revenue, and global market share of Kinetic Energy Storage Flywheel from 2020 to 2025.

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

Chapter 4, the Kinetic Energy Storage Flywheel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Kinetic Energy Storage Flywheel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Kinetic Energy Storage Flywheel.

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

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