

Global Permanent Magnet Coupling Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Permanent Magnet Coupling market size is expected to reach \$ 566 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

A permanent magnet coupler is a novel type of coupling device that utilizes the magnetic fields generated by high-performance permanent magnets to facilitate non-contact power transmission between a driving end (motor) and a driven end (load). By transmitting torque across an air gap, it achieves a 'soft connection,' characterized by its ability to dampen shocks, isolate vibrations, minimize mechanical wear, and conserve energy.

The core upstream raw material is high-performance Neodymium-Iron-Boron (NdFeB) permanent magnet material; specifically, its maximum energy product and coercivity directly determine the coupler's torque transmission efficiency and high-temperature resistance. Additionally, upstream inputs include electrolytic copper (used for induction rotors), high-strength alloy steel, and high-quality bearings. Given the unique nature of rare earth resources, upstream supply chains are significantly susceptible to fluctuations in both government policy and market prices. Midstream enterprises focus primarily on the optimization of magnetic circuit designs and the management of temperature rise.

In 2025, the average selling price is projected to range from \$300 to \$850 per unit. Global sales volume is estimated to be in the range of several hundred thousand units. The industry's gross profit margin typically hovers between 30% and 40%.

As a revolutionary non-contact transmission technology, the permanent magnet coupler not only resolves the issues of vibration damage and alignment challenges inherent in

rigid connections between motors and loads, but also demonstrates environmental adaptability superior to that of variable frequency drives in complex industrial settings. Driven by advancements in precision magnetic circuit design, permanent magnet couplers are evolving toward higher power capacities and intelligent speed control capabilities. Particularly in harsh environments characterized by high dust levels, excessive humidity, or strong electromagnetic interference, permanent magnet transmission is regarded as the optimal solution for enhancing system Mean Time Between Failures (MTBF) and ensuring the intrinsic safety of equipment. Future technological competition will center on how to further optimize magnetic energy utilization and how to mitigate the risk of demagnetization during ultra-high-power operation through the application of novel heat dissipation materials.

This report studies the global Permanent Magnet Coupling production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Permanent Magnet Coupling 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 Permanent Magnet Coupling that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Permanent Magnet Coupling total production and demand, 2021-2032, (K Units)

Global Permanent Magnet Coupling total production value, 2021-2032, (USD Million)

Global Permanent Magnet Coupling production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Permanent Magnet Coupling consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Permanent Magnet Coupling domestic production, consumption, key domestic manufacturers and share

Global Permanent Magnet Coupling production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Permanent Magnet Coupling production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Permanent Magnet Coupling production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Permanent Magnet Coupling 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 DST Dauermagnet-SystemTechnik, KTR Systems, Sintex, Magnetic Technologies, Dexter Magnetic Technologies, Bakker Magnetics, Electron Energy Corporation, Kimax Controls, MagnaDrive, Jiangsu Magtech, 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 Permanent Magnet Coupling market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Permanent Magnet Coupling Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Permanent Magnet Coupling Market, Segmentation by Type:

Standard Type

Delay Type

Torque-limiting Type

Others

Global Permanent Magnet Coupling Market, Segmentation by Cooling Method:

Air-cooled

Water-cooled

Global Permanent Magnet Coupling Market, Segmentation by Rotor Structure:

Cylindrical

Disc-type

Global Permanent Magnet Coupling Market, Segmentation by Application:

Electricity

Steel

Petroleum

Chemical

Cement

Others

Companies Profiled:

DST Dauermagnet-SystemTechnik

KTR Systems

Sintex

Magnetic Technologies

Dexter Magnetic Technologies

Bakker Magnetics

Electron Energy Corporation

Kimax Controls

MagnaDrive

Jiangsu Magtech

Magneta Magnetic Power

Shanghai CSET Energy Technology

Jiangsu Dianyou Technology

Nanjing Magnate Intelligent Technology

Key Questions Answered:

1. How big is the global Permanent Magnet Coupling market?
2. What is the demand of the global Permanent Magnet Coupling market?
3. What is the year over year growth of the global Permanent Magnet Coupling market?
4. What is the production and production value of the global Permanent Magnet Coupling market?
5. Who are the key producers in the global Permanent Magnet Coupling market?
6. What are the growth factors driving the market demand?

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