

Global Magnetic Particle Clutches and Brakes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Particle Clutches and Brakes market size is expected to reach \$ 1948 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Magnetic Particle Clutches and Brakes (also called magnetic powder clutches/brakes) are electromagnetic torque-control devices in which a DC-energized coil creates a magnetic field that “locks” ferromagnetic powder in an air gap to transmit (clutch) or absorb (brake) torque with a near-linear torque-to-current response, enabling smooth soft-start/soft-stop, controlled slip, and precise tension/load simulation; a typical unit comprises a housing, rotor/shaft (disc), excitation coil, and magnetic powder. Upstream components therefore map to (1) magnetic powder (representative suppliers include BASF for carbonyl iron powder and H?gan?s for soft-magnetic iron powders) (2) electromagnetic coil materials (magnet wire/copper, insulation varnishes), (3) precision bearings and seals (common industrial bearing suppliers include SKF/NSK/NTN), and (4) machined steel/aluminum housings, shafts and friction-robust internal surfaces; downstream, they are most widely deployed in web handling and tension control on unwind/rewind lines (film/foil/paper/textiles), plus printing/packaging/converting machinery, cycling/indexing and soft stopping, and test stands for load simulation. On market sizing, public market reports that explicitly label “magnetic powder clutches & brakes” or “magnetic particle brake” are not perfectly consistent in scope, but indicate a 2024 global market on the order of ~US\$1.2–1.4B. For unit pricing, list pricing from industrial sellers shows hundreds to low-thousands of USD for common torque classes (e.g., ~US\$320–560 for 3–50 N·m and ~US\$1,038 for ~100 N·m in a published price list), with higher-torque / higher-duty models and integrated cooling/controllers typically moving further into the low-to-mid four figures depending on torque rating, thermal capacity, and mounting style.

This report studies the global Magnetic Particle Clutches and Brakes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnetic Particle Clutches and Brakes 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 Magnetic Particle Clutches and Brakes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnetic Particle Clutches and Brakes total production and demand, 2021-2032, (K Units)

Global Magnetic Particle Clutches and Brakes total production value, 2021-2032, (USD Million)

Global Magnetic Particle Clutches and Brakes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Magnetic Particle Clutches and Brakes consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Magnetic Particle Clutches and Brakes domestic production, consumption, key domestic manufacturers and share

Global Magnetic Particle Clutches and Brakes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Magnetic Particle Clutches and Brakes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Magnetic Particle Clutches and Brakes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Magnetic Particle Clutches and Brakes 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 Warner Electric, Kendrion, Maxcess, mobac GmbH, Tekmatic, Placid Industries, Renova Srl, CHAIN TAIL CO., LTD., SDP/SI, Ogura Industrial, 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 Magnetic Particle Clutches and Brakes 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 Magnetic Particle Clutches and Brakes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Particle Clutches and Brakes Market, Segmentation by Type:

Magnetic Particle Brakes

Magnetic Particle Clutches

Global Magnetic Particle Clutches and Brakes Market, Segmentation by Class:

Solid Type

Hollow Type

Global Magnetic Particle Clutches and Brakes Market, Segmentation by Channel:

Direct Selling

Distribution

Global Magnetic Particle Clutches and Brakes Market, Segmentation by Application:

Industrial Automation and Assembly Lines

Packaging and Printing Machinery

Testing and Inspection Equipment

Other

Companies Profiled:

Warner Electric

Kendrion

Maxcess

mobac GmbH

Tekmatic

Placid Industries

Renova Srl

CHAIN TAIL CO., LTD.

SDP/SI

Ogura Industrial

Redex USA Inc.

SG Transmission

IBD Wickeltechnik GmbH

LIEDTKE Antriebstechnik

Regal Rexnord

Montalvo Corporatio

NIIKA

YAN Co. Ltd

Key Questions Answered:

1. How big is the global Magnetic Particle Clutches and Brakes market?
2. What is the demand of the global Magnetic Particle Clutches and Brakes market?
3. What is the year over year growth of the global Magnetic Particle Clutches and Brakes market?
4. What is the production and production value of the global Magnetic Particle Clutches and Brakes market?
5. Who are the key producers in the global Magnetic Particle Clutches and Brakes market?

6. What are the growth factors driving the market demand?

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