

Global Magnetic Particle Clutches and Brakes 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 Magnetic Particle Clutches and Brakes market size was valued at US\$ 1267 million in 2025 and is forecast to a readjusted size of US\$ 1948 million by 2032 with a CAGR of 5.8% during review period.

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 is a detailed and comprehensive analysis for global Magnetic Particle Clutches and Brakes 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 Magnetic Particle Clutches and Brakes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Particle Clutches and Brakes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Particle Clutches and Brakes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Particle Clutches and Brakes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Magnetic Particle Clutches and Brakes

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 Magnetic Particle Clutches and Brakes 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 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.

Market Segmentation

Magnetic Particle Clutches and Brakes market is split by Type and by Application. For the period 2021-2032, 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

Magnetic Particle Brakes

Magnetic Particle Clutches

Market segment by Class

Solid Type

Hollow Type

Market segment by Channel

Direct Selling

Distribution

Market segment by Application

Industrial Automation and Assembly Lines

Packaging and Printing Machinery

Testing and Inspection Equipment

Other

Major players covered

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

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 Magnetic Particle Clutches and Brakes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Particle Clutches and Brakes, with price, sales quantity, revenue, and global market share of Magnetic Particle Clutches and Brakes from 2021 to 2026.

Chapter 3, the Magnetic Particle Clutches and Brakes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetic Particle Clutches and Brakes 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 Type and by Application, with sales market share and growth rate by Type, 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 Magnetic Particle Clutches and Brakes market forecast, by regions, by Type, 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 Magnetic Particle Clutches and Brakes.

Chapter 14 and 15, to describe Magnetic Particle Clutches and Brakes sales channel, distributors, customers, research findings and conclusion.

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