

# Global Magnetics Powder Core Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Magnetics Powder Core market size was valued at USD 562.8 million in 2023 and is forecast to a readjusted size of USD 659.8 million by 2030 with a CAGR of 2.3% during review period.

A magnetic core is a piece of magnetic material with a high magnetic permeability used to confine and guide magnetic fields in electrical, electromechanical and magnetic devices such as electromagnets, transformers, electric motors, generators, inductors, magnetic recording heads, and magnetic assemblies.

Powder cores differ in chemical composition. Powder cores are pressed with an organic or inorganic binder that is responsible for storage of energy. As the non-magnetic area is distributed in the whole core's volume and it is not concentrated on a small region, they are called distributed airgap cores. Because of this peculiarity, powder cores are suitable for high direct current inductors (output inductors) and flyback transformers in critical applications. One of the most interesting features of this kind of cores is the smooth and sweet permeability versus direct current curve, that underlines the robustness of this materials against overcurrents.

By changing the magnetic to non-magnetic parts ratio, the “equivalent” relative permeability alters in the range of 10 to 600; some standard values are quite common on the market (for example: 26, 60, 90, 125, 147, 300, 550). For a particular core, the inductance factor (AL) will depend on material, shape and dimensions.

Each material, identified by the producer with a code or a commercial name, possesses its own characteristics in terms of permeability, saturation flux, specific losses. They are

typically very stable with the temperature and they can be used in critical environment applications. Powder cores are more expensive than ferrite cores, but normally cheaper than amorphous and nanocrystalline ones.

Asia-Pacific is the largest Magnetics Powder Core market with about 64% market share. North America is follower, accounting for about 17% market share.

The key players are MAGNETICS, CSC (Changsung Corp.), POCO Magnetic, TDG, Dongbu Electronic Materials, Samwha Electronics, DMEGC, Nanjing New Conda Magnetic Industrial etc. Top 3 companies occupied about 30% market share.

The Global Info Research report includes an overview of the development of the Magnetics Powder Core industry chain, the market status of Photovoltaics and Energy Storage (MPP, Sendust), Electric Vehicles and Charging Piles (MPP, Sendust), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Magnetics Powder Core.

Regionally, the report analyzes the Magnetics Powder Core markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Magnetics Powder Core market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Magnetics Powder Core market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Magnetics Powder Core industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., MPP, Sendust).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges

influencing the Magnetics Powder Core market.

**Regional Analysis:** The report involves examining the Magnetics Powder Core market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Magnetics Powder Core market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Magnetics Powder Core:

**Company Analysis:** Report covers individual Magnetics Powder Core manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Magnetics Powder Core. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Photovoltaics and Energy Storage, Electric Vehicles and Charging Piles).

**Technology Analysis:** Report covers specific technologies relevant to Magnetics Powder Core. It assesses the current state, advancements, and potential future developments in Magnetics Powder Core areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Magnetics Powder Core market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

**Market Segmentation**

Magnetics Powder Core market is split by Type and by Application. For the period

2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

#### Market segment by Type

MPP

Sendust

High Flux

Fe-Si

Others

#### Market segment by Application

Photovoltaics and Energy Storage

Electric Vehicles and Charging Piles

Household Appliances

UPS

Telecommunication

Others

#### Major players covered

POCO Magnetic

ZheJiang NBTM KeDa (KDM)

CSC (Changsung Corp.)

## MAGNETICS

Micrometals

Proterial, Ltd. (Formerly Hitachi Metals)

Dongbu Electronic Materials

Samwha Electronics

Qingdao Yunlu Advanced Materials

TDG

DMEGC

CMSS Technology

Nanjing New Conda Magnetic

Sinomag Technology

Amogreentech

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 Magnetics Powder Core product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetics Powder Core, with price, sales, revenue and global market share of Magnetics Powder Core from 2019 to 2024.

Chapter 3, the Magnetics Powder Core competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetics Powder Core breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Magnetics Powder Core market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Magnetics Powder Core.

Chapter 14 and 15, to describe Magnetics Powder Core sales channel, distributors, customers, research findings and conclusion.

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