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Global Metal Soft Magnetic Powder Core for AI Servers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Metal Soft Magnetic Powder Core for AI Servers market size is expected to reach $ 223 million by 2032, rising at a market growth of 23.6% CAGR during the forecast period (2026-2032).
In 2025, the global production of Metal Soft Magnetic Powder Core for AI Servers reached 7,600 tons, with an average selling price of US$6,000 per ton, a gross profit margin of approximately 40%, and a production capacity of approximately 8,500 tons.
In AI servers, magnetic materials are crucial for supporting high-power, high-efficiency, and high-reliability operation, and are widely used in server power systems, motherboard voltage regulator modules (VRMs), accelerator card power supplies, and data center power equipment. With the large-scale deployment of GPUs, ASICs, and other accelerators in AI servers, single-machine power consumption has rapidly increased to kilowatts or even higher, placing far higher demands on power conversion efficiency and power density than traditional servers. This has significantly increased the importance of magnetic materials.
Metal soft magnetic powder cores are soft magnetic materials with distributed air gaps. As various electronic products move towards miniaturization and micro-miniaturization, their excellent temperature characteristics, low losses, and high saturation magnetic flux density better meet the requirements of high efficiency, high power density, and high frequency in power conversion equipment. Their market prospects have been particularly prominent in recent years. Against the backdrop of the active promotion of 'dual carbon,' 'new infrastructure,' and 'artificial intelligence,' global photovoltaic, new energy vehicles and charging piles, energy storage, data centers, servers, and 5G base station construction are experiencing continuous development opportunities. These application demands are driving the continued growth in market demand for metal soft magnetic materials.

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This report studies the global Metal Soft Magnetic Powder Core for AI Servers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metal Soft Magnetic Powder Core for AI Servers 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 Metal Soft Magnetic Powder Core for AI Servers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metal Soft Magnetic Powder Core for AI Servers total production and demand, 2021-2032, (Tons)

Global Metal Soft Magnetic Powder Core for AI Servers total production value, 2021-2032, (USD Million)

Global Metal Soft Magnetic Powder Core for AI Servers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Metal Soft Magnetic Powder Core for AI Servers consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Metal Soft Magnetic Powder Core for AI Servers domestic production, consumption, key domestic manufacturers and share

Global Metal Soft Magnetic Powder Core for AI Servers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Metal Soft Magnetic Powder Core for AI Servers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Metal Soft Magnetic Powder Core for AI Servers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Metal Soft Magnetic Powder Core for AI Servers 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 POCO Magnetic, DMEGC, ZheJiang NBTM KeDa (KDM), TDG, ????, Chang Sung Corporation, Acadian Seaplants, Shandong Sukahan Bio-Technology, 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 Metal Soft Magnetic Powder Core for AI Servers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by

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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 Metal Soft Magnetic Powder Core for AI Servers Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Metal Soft Magnetic Powder Core for AI Servers Market, Segmentation by Type:

- Ring-shaped
- E-shaped
- U-shaped
- Irregularly Shaped
- Other

Global Metal Soft Magnetic Powder Core for AI Servers Market, Segmentation by Material:

- MPP

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Sendust

High Flux

Fe-Si

Others

Global Metal Soft Magnetic Powder Core for AI Servers Market, Segmentation by Application:

GPU Server

ASIC Server

FPGA Server

Others

Companies Profiled:

POCO Magnetic

DMEGC

ZheJiang NBTM KeDa (KDM)

TDG

????

Chang Sung Corporation

Acadian Seaplants

Shandong Sukahan Bio-Technology

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Key Questions Answered:

1. How big is the global Metal Soft Magnetic Powder Core for AI Servers market?
2. What is the demand of the global Metal Soft Magnetic Powder Core for AI Servers market?
3. What is the year over year growth of the global Metal Soft Magnetic Powder Core for AI Servers market?
4. What is the production and production value of the global Metal Soft Magnetic Powder Core for AI Servers market?
5. Who are the key producers in the global Metal Soft Magnetic Powder Core for AI Servers market?
6. What are the growth factors driving the market demand?

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Figure 68. Research Process and Data Source

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