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Global Molding Power Chokes for AI 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 Molding Power Chokes for AI market size was valued at US$ 161 million in 2025 and is forecast to a readjusted size of US$ 487 million by 2032 with a CAGR of 18.1% during review period.

Molding Power Chokes are a new type of SMD power inductor manufactured by completely encapsulating the winding coil in metallic magnetic powder using a one-piece molding process. Their core structure significantly distinguishes them from traditional wire-wound inductors. This technology typically uses soft magnetic powders such as iron-silicon-aluminum or iron-nickel as the core material, tightly connecting the coil and magnet into a single unit. A distributed air-gap structure is employed, resulting in extremely high saturation current carrying capacity, extremely low DC resistance (DCR), and excellent magnetic shielding.

Molding Power Chokes for AI are essentially power inductors serving AI servers, accelerator cards, and high-density rack power links. They typically employ a one-piece structure where the coil and metallic magnetic powder are integrally molded, used for buck conversion, voltage regulation, energy storage, filtering, and transient response control.

In 2025, global shipments of Molding Power Chokes for AI exceeded 411 million units, with an average ex-factory price of approximately US$380 per thousand units.

From the upstream perspective, the key to Molding Power Choke for AI no longer relies on traditional winding capabilities, but rather on the synergy of iron-based alloy powder, soft magnetic composite materials, copper wire or flat wire windings, insulating resin,

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molding, and shielding structures. TDK points out that its SPM series uses iron-based alloy powder to achieve high saturation characteristics. Murata describes the winding metal alloy as a structure that combines resin-coated metal magnetic powder with hot-pressed windings, emphasizing its suitability for high-current and high-temperature environments. Vishay directly uses its coupled inductors for multi-phase step-down inductors in data centers, servers, storage systems, and GPUs; its IHSR series further targets data centers, AI computing, and GPUs. Coilcraft explicitly positions molded inductors for powering CPUs, GPUs, ASICs, and SoCs in servers and data centers. Shenzhen Codaca Electronic directly lists AI servers as an application scenario for Molding Power Choke in CSAB, CSAG, and CSHN, while Shenzhen Sunlord Electronics has also included data centers and enterprise computing in its technical support scope.

This report is a detailed and comprehensive analysis for global Molding Power Chokes for AI 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 Molding Power Chokes for AI market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Molding Power Chokes for AI market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Molding Power Chokes for AI market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Molding Power Chokes for AI market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Molding Power Chokes for AI

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 Molding Power Chokes for AI 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 TDK, Murata, Taiyo Yuden, Vishay, Shenzhen Sunlord Electronics, Microgate Technology, Fenghua Advanced Technology, Guangdong Misun Technology, Dongguan Mentech, Tai-Tech Advanced Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Molding Power Chokes for AI 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

Small Size

Large Size

Market segment by Materials

Soft Magnetic Powder Cores

Ferroalloy Magnetic Materials

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Market segment by Application

- CPU+GPU Servers
- CPU+FPGA Servers
- CPU+ASIC Servers
- Others

Major players covered

- TDK
- Murata
- Taiyo Yuden
- Vishay
- Shenzhen Sunlord Electronics
- Microgate Technology
- Fenghua Advanced Technology
- Guangdong Misun Technology
- Dongguan Mentech
- Tai-Tech Advanced Electronics
- Shenzhen Codaca Electronic
- Cyntec

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CJiang Technology

W?rth Elektronik

INPAQ Technology

TRIO Technology International Group

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 Molding Power Chokes for AI product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Molding Power Chokes for AI, with price, sales quantity, revenue, and global market share of Molding Power Chokes for AI from 2021 to 2026.

Chapter 3, the Molding Power Chokes for AI competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Molding Power Chokes for AI breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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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 Molding Power Chokes for AI 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 Molding Power Chokes for AI.

Chapter 14 and 15, to describe Molding Power Chokes for AI sales channel, distributors, customers, research findings and conclusion.

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