

Global Giant Magnetostrictive Materials Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Giant Magnetostrictive Materials market size was valued at US\$ 187 million in 2024 and is forecast to a readjusted size of USD 294 million by 2031 with a CAGR of 6.7% during review period.

Giant magnetostrictive material is a kind of excellent engineering material for its large magnetostriction, fast response speed and high energy density. And giant magnetostrictive injector which employs giant magnetostrictive material driving an electronic controlled injector may be one new promising injector. With more adjustable injection rate, giant magnetostrictive injector can promote energy utilization and reduce pollution emission.

GMMs are widely used in actuators and sensors due to their high accuracy and fast response to magnetic fields, making them ideal for precision applications in fields like robotics, aerospace, and industrial automation.

GMMs are used in smart materials and structures that adapt to environmental changes. They are essential in vibration damping, noise reduction, and structural health monitoring in industries like construction, aerospace, and automotive.

The increasing use of GMMs in active vibration control systems, particularly in manufacturing and transportation, is a strong market driver.

GMMs are being explored for their potential in improving the efficiency of renewable energy systems, particularly in wind turbines where vibration control and structural health monitoring are critical.

The growing trend toward energy-efficient systems and self-powered devices, especially in wireless sensor networks (WSNs) and the Internet of Things (IoT), is driving the demand for GMMs. These materials are used in energy harvesting applications where mechanical vibrations are converted into electrical energy.

Advancements in manufacturing technologies, such as 3D printing and nanotechnology, are improving the production scalability of GMMs, reducing costs, and enabling their integration into smaller, more complex devices.

Ongoing research into nanostructured GMMs is focusing on enhancing their performance for use in miniaturized sensors and actuators, opening new possibilities for GMMs in medical devices, MEMS (Micro-Electro-Mechanical Systems), and wearables.

The trend toward Industry 4.0 and smart factories is creating demand for high-performance actuators and sensors that rely on GMMs for real-time monitoring and precision control. These materials are enabling more efficient robotic arms, conveyor systems, and vibration damping in automated production lines.

This report is a detailed and comprehensive analysis for global Giant Magnetostrictive Materials 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 Giant Magnetostrictive Materials market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Giant Magnetostrictive Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Giant Magnetostrictive Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Giant Magnetostrictive Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2020-2025

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 Giant Magnetostrictive Materials

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 Giant Magnetostrictive Materials 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 TdVib, Grinm Advanced Materials, Suzhou Xunshi New Material, etc.

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

Market Segmentation

Giant Magnetostrictive Materials market is split by Type and by Application. For the period 2020-2031, 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

Terfenol-D

Galfenol

Other

Market segment by Application

Actuators

Sensors

Vibrators

Vibration Power Generation

Other

Major players covered

TdVib

Grinm Advanced Materials

Suzhou Xunshi New Material

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 Giant Magnetostrictive Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Giant Magnetostrictive Materials, with price, sales quantity, revenue, and global market share of Giant Magnetostrictive Materials from 2020 to 2025.

Chapter 3, the Giant Magnetostrictive Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Giant Magnetostrictive Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Giant Magnetostrictive Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Giant Magnetostrictive Materials.

Chapter 14 and 15, to describe Giant Magnetostrictive Materials sales channel, distributors, customers, research findings and conclusion.

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