

Global Giant Magnetostrictive Materials Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/G1C9135517EEEN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: G1C9135517EEEN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Giant Magnetostrictive Materials market size will reach 211.08 Million USD in 2025 and is projected to reach 344.98 Million USD by 2032, with a CAGR of 7.27% (2025-2032). Notably, the China Giant Magnetostrictive Materials market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Giant magnetostrictive materials (GMMs) are advanced materials that exhibit significant changes in shape or dimensions in response to applied magnetic fields. This property, known as magnetostriction, allows these materials to convert magnetic energy into mechanical energy and vice versa, making them ideal for various applications in sensors, actuators, and transducers. GMMs, often composed of rare-earth elements such as Terfenol-D (a mixture of terbium, iron, and dysprosium), demonstrate enhanced magnetostrictive effects compared to traditional magnetostrictive materials, allowing for greater strain and response to magnetic fields. Their high sensitivity and rapid response times enable their use in precision engineering, such as in high-performance loudspeakers, vibration control systems, and magnetic field sensors, offering innovative solutions in fields ranging from telecommunications to robotics and aerospace.

The major global manufacturers of Giant Magnetostrictive Materials include TdVib, Grinn Advanced Materials, Suzhou Xunshi New Material, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises

global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Giant Magnetostrictive Materials. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Giant Magnetostrictive Materials market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Giant Magnetostrictive Materials market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Giant Magnetostrictive Materials industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Giant Magnetostrictive Materials Include:

TdVib

Grinm Advanced Materials

Suzhou Xunshi New Material

Giant Magnetostrictive Materials Product Segment Include:

Terfenol-D

Galfenol

Others

Giant Magnetostrictive Materials Product Application Include:

Actuators

Sensors

Vibrators

Vibration Power Generation

Others

Chapter Scope

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