

Global MEMS Magnetic Actuators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MEMS Magnetic Actuators market size is expected to reach \$ 2167 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, global MEMS Magnetic Actuator output reached about 700 million units and global capacity of around 800 million units. The average price is about USD 1.5 per unit, with gross margins near 39%. MEMS Magnetic Actuators are microelectromechanical systems (MEMS) devices that convert electrical energy into controlled mechanical motion through magnetic forces generated by permanent magnets, electromagnets, magnetic thin films, or magnetostrictive materials. These actuators are widely used for micro-positioning, optical switching, micro-mirrors, microfluidic control, biomedical devices, inertial sensors, RF switches, and precision motion systems due to their fast response, low power consumption, large displacement capability, and compatibility with semiconductor fabrication processes. The supply chain begins upstream with raw material suppliers providing silicon wafers, silicon-on-insulator (SOI) substrates, magnetic materials (nickel-iron alloys, cobalt alloys, NdFeB magnets, ferrites, Terfenol-D, FeGa alloys), thin-film deposition materials, MEMS-grade chemicals, photoresists, and semiconductor process equipment. The midstream segment consists of MEMS foundries, semiconductor manufacturers, magnetic material processing companies, wafer fabrication facilities, and packaging/testing providers that design and manufacture magnetic microactuators using lithography, etching, electroplating, sputtering, wafer bonding, and advanced MEMS packaging technologies. Downstream customers include consumer electronics manufacturers, telecommunications equipment suppliers, automotive electronics companies, medical device producers, aerospace and defense contractors, industrial automation firms, optical networking vendors, and research institutions, where MEMS magnetic actuators are integrated into sensors, optical

systems, microfluidic devices, precision instruments, and next-generation miniaturized electromechanical systems.

This report studies the global MEMS Magnetic Actuators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MEMS Magnetic Actuators 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 MEMS Magnetic Actuators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MEMS Magnetic Actuators total production and demand, 2021-2032, (Million Units)

Global MEMS Magnetic Actuators total production value, 2021-2032, (USD Million)

Global MEMS Magnetic Actuators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global MEMS Magnetic Actuators consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: MEMS Magnetic Actuators domestic production, consumption, key domestic manufacturers and share

Global MEMS Magnetic Actuators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global MEMS Magnetic Actuators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global MEMS Magnetic Actuators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global MEMS Magnetic Actuators 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 Moog Inc., H2W Technologies, BEI Kimco, Moticont, Curtiss-Wright, Portescap, Magnet-Schultz, FAULHABER, Kendrion, Rotork, 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 MEMS Magnetic Actuators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by 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 MEMS Magnetic Actuators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEMS Magnetic Actuators Market, Segmentation by Type:

Linear MEMS Magnetic Actuators

Rotary MEMS Magnetic Actuators

Oscillatory MEMS Magnetic Actuators

Global MEMS Magnetic Actuators Market, Segmentation by Force Output:

100 mN

Global MEMS Magnetic Actuators Market, Segmentation by Application:

Automotive

Industrial

Consumer Electronics

Aerospace & Defense

Medical Devices

Others

Companies Profiled:

Moog Inc.

H2W Technologies

BEI Kimco

Moticont

Curtiss-Wright

Portescap

Magnet-Schultz

FAULHABER

Kendrion

Rotork

Nidec Corporation

MinebeaMitsumi

Denso Corporation

Aisin Corporation

Hitachi Astemo

Mabuchi Motor

Sanhua Intelligent Controls

Inovance Technology

Joyson Electronics

Johnson Electric

Key Questions Answered:

1. How big is the global MEMS Magnetic Actuators market?
2. What is the demand of the global MEMS Magnetic Actuators market?
3. What is the year over year growth of the global MEMS Magnetic Actuators market?
4. What is the production and production value of the global MEMS Magnetic Actuators market?
5. Who are the key producers in the global MEMS Magnetic Actuators market?
6. What are the growth factors driving the market demand?

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