

Global Magnetorquers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetorquers market size is expected to reach \$ 78.94 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, global Magnetorquers sales reached approximately 6,994 Units with an average global market price of around 5,485 USD per Unit.

Magnetorquers are electromagnetic actuators used in a spacecraft's Attitude Determination and Control System (ADCS), mainly for satellite attitude control, initial detumbling, reaction-wheel momentum unloading, and long-duration stabilization in low Earth orbit. They generate a magnetic dipole moment by passing current through a coil, which interacts with the Earth's or local external magnetic field to produce control torque. Main product forms include air-core coils, torquer rods/bars, magnetic torquer boards, and three-axis magnetorquer modules integrated into ADCS units. Compared with thrusters, magnetorquers consume no propellant, have a simple structure, high reliability, and long operating life, making them particularly suitable for CubeSats, microsats, LEO remote-sensing satellites, communication satellites, and scientific spacecraft. Their limitation is that torque direction and magnitude depend on the external magnetic field, so they are typically used together with reaction wheels, magnetometers, sun sensors, star trackers, and control algorithms rather than acting as a standalone high-precision three-axis control system.

Magnetorquers are high-reliability, relatively low-unit-price spacecraft platform components with demanding qualification requirements. The overall gross margin can generally be estimated at around 35%–60%. Standard CubeSat torquer rods, magnetic torquer boards, and COTS three-axis modules are typically in the 35%–45% range. Batch-delivered smallsat platform components and ADCS-integrated products with

control electronics and software interfaces can reach 40%–55%. Deeply customized products with space-grade screening, radiation requirements, flight heritage, and mission-level engineering support may approach or exceed 55%. The upstream chain includes copper wire, soft magnetic alloys or ferrite cores, PCBs, connectors, space-grade electronics, insulation materials, structural parts, and surface treatment. Midstream activities include electromagnetic design, winding, potting, thermal-vacuum testing, magnetic cleanliness control, radiation assessment, vibration and shock testing, and software-interface adaptation. Downstream customers include satellite platform manufacturers, prime spacecraft builders, commercial constellation operators, defense space programs, university satellites, and system integrators.

Market Development Opportunities & Main Driving Factors

The core opportunity for magnetorquers comes from the continued expansion of small satellites, proliferated constellations, and low Earth orbit space infrastructure. The OECD reported that the global population of operational satellites increased from about 3,300 at the end of 2020 to more than 6,700 in 2022, mainly driven by LEO broadband constellations. ESA reported that 2,940 spacecraft were placed into orbit in 2023, a record high, with 63% below 500 kg and the number of satellites launched for defense customers doubling over the past five years. For satellite platforms, magnetorquers are low-cost, low-power, long-life baseline actuators and are commonly paired with reaction wheels in smallsat ADCS architectures. The U.S. Space Development Agency's 2025 award of approximately USD 3.5 billion for 72 Tracking Layer satellites further demonstrates the shift toward proliferated, LEO-based, defense-oriented satellite procurement, strengthening demand for core spacecraft platform components.

Market Challenges, Risks, & Restraints

The main challenges for magnetorquers come from technical boundaries, mission environment, and regulatory constraints. Technically, a magnetorquer can only generate control torque in the plane perpendicular to the local external magnetic field and typically cannot independently provide high-precision three-axis stabilization. Beyond low Earth orbit or in weak-field environments, its effectiveness must be reassessed and may require combination with thrusters, control moment gyroscopes, or higher-performance reaction wheels. From an engineering perspective, magnetic-core residual fields, magnetometer interference, magnetic cleanliness layout, power consumption, thermal design, and long-term coil reliability can all affect spacecraft pointing performance. Commercially, COTS products face transparent pricing and intensifying low-end CubeSat competition, while high-end customers require flight heritage, batch

consistency, traceable materials, qualification reports, and mission-level technical support. From a regulatory perspective, U.S. space products remain subject to ITAR, EAR, USML, and CCL frameworks. Although the U.S. Commerce Department moved in 2024 to modernize certain space-related export controls, compliance review, end-user restrictions, and cross-border technical transfer remain important constraints for global suppliers.

Downstream Demand Trends

Downstream demand is shifting from single research-satellite procurement to batch constellations, standardized platforms, and integrated ADCS system purchasing. Commercial customers emphasize cost, lead time, size, power consumption, flight heritage, and plug-and-play compatibility with satellite buses. Defense and government customers place greater weight on reliability, supply-chain security, domestic sourcing, radiation tolerance, and long-duration mission assurance. In terms of product form, single-axis torquer rods will continue to serve conventional satellite platforms, while three-axis magnetorquers, magnetic torquer boards, PCB-embedded coils, and magnetorquer components inside integrated ADCS units are better aligned with CubeSat and smallsat serial production. NASA's list of integrated ADCS systems typically includes reaction wheels, magnetic torquers, magnetometers, sun sensors, star trackers, and processors, indicating that magnetorquer value is shifting from a standalone actuator to a foundational module inside the broader attitude-control system. Future demand growth will be concentrated in LEO remote sensing, satellite IoT, communications constellations, on-orbit servicing, space situational awareness, and missile-warning/tracking constellations, with competition centered on flight validation, batch manufacturing, rapid delivery, and system-level integration capability.

This report studies the global Magnetorquers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Magnetorquers total production and demand, 2021-2032, (Units)

Global Magnetorquers total production value, 2021-2032, (USD Million)

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

Global Magnetorquers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Magnetorquers domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Magnetorquers 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 NewSpace Systems, AAC Clyde Space, Kongsberg NanoAvionics, CubeSpace, SPUTNIX, IAI - Tamam, Meisei Electric, ZARM Technik, GomSpace, Custom Coils, 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 Magnetorquers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Magnetorquers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetorquers Market, Segmentation by Type:

Single-axis Magnetorquers

Three-axis Magnetorquers

Global Magnetorquers Market, Segmentation by Physical Form:

Magnetorquer Rods

Air-core Coils

Embedded PCB Coils

Global Magnetorquers Market, Segmentation by Core Material:

Ferromagnetic Core

Coreless Core

Global Magnetorquers Market, Segmentation by Satellite Scale:

Micro/Nano Class

SmallSat Class

Large Class

Global Magnetorquers Market, Segmentation by Application:

CubeSat

MicroSat and NanoSat

Others

Companies Profiled:

NewSpace Systems

AAC Clyde Space

Kongsberg NanoAvionics

CubeSpace

SPUTNIX

IAI - Tamam

Meisei Electric

ZARM Technik

GomSpace

Custom Coils

Tensor Tech

GITAI

Space Inventor

SENSORPIA

LusoSpace

Cayuga Astronautics

Chang Guang Satellite Technology

Hunan Hangsheng Satellite Technology

Hunan Lanyue

mu Space

Key Questions Answered:

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

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