+357 96 030922
info@marketpublishers.com

Magnetorquer Market - Strategic Insights and Forecasts (2026-2031)

https://marketpublishers.com/r/MD994912B3CAEN.html
Date: February 2026
Pages: 143
Price: US$ 3,950.00 (Single User License)
ID: MD994912B3CAEN

Abstracts

The Magnetorquer market is forecast to grow at a CAGR of 10.0%, reaching USD 1,714.3 million in 2031 from USD 1,064.5 million in 2026.

The global magnetorquer market is strategically positioned for robust growth as space exploration and satellite deployment expand worldwide. Adoption of small satellites, particularly CubeSats and nanosatellites, is increasing demand for lightweight and energy-efficient attitude control systems. Government and commercial investments in space infrastructure are rising, underpinning market expansion. Technological advancements in control algorithms and device miniaturization are reinforcing this trend. Knowledge Sourcing Intelligence estimates the market was valued at USD 967.7 million in 2025 and is projected to reach USD 1,563.8 million by 2030 under the original forecast window, with a CAGR of 10.07% through 2030.

Market Drivers

The magnetorquer market growth is driven by several key factors. First, the proliferation of small satellites for earth observation, communication, and scientific missions is increasing demand for compact and cost-effective attitude control systems. CubeSats and microsatellites benefit from magnetorquers due to their low weight and power requirements, making them preferred solutions for orbit stabilization and control. Second, the growing commercialization of outer space and expansion of satellite constellations by private and public entities are creating continuous demand. Third, technological advancements, such as AI-enabled control systems, enhance performance, autonomy, and reliability of attitude control systems in space environments. Finally, increasing government and private funding for space missions is stimulating research and development, fostering innovations in magnetorquer design

+357 96 030922
info@marketpublishers.com

and manufacturing.

Market Restraints

Despite strong growth prospects, the magnetorquer market faces certain restraints. Magnetic interference poses a significant challenge. Because magnetorquers rely on interactions with Earth's magnetic field, external electromagnetic disruptions can degrade performance and reduce device accuracy. This interference can originate from both natural geomagnetic variations and manmade sources, particularly in densely satellite-populated orbits. In addition, the high cost of space-grade hardware and the rigorous qualification standards for aerospace components can slow adoption among smaller satellite manufacturers. These factors may temper investment decisions and delay product deployments in some market segments.

Technology and Segment Insights

The magnetorquer market is segmented by type, application, end user, and geography. Electromagnetic magnetorquers remain the dominant technology due to their adaptability and performance across small and large satellite platforms. Permanent magnet and hybrid magnetorquers are also gaining attention as manufacturers seek to balance torque efficiency with reduced power draw. In terms of application, satellite attitude control remains the largest segment, with increasing usage in spacecraft maneuvering and research missions. Small satellites, particularly CubeSats, represent the fastest-growing end-user segment due to their rapid deployment cycles and cost sensitivity. Geographically, North America holds a significant share, supported by advanced space technology firms and substantial public sector space investments. Europe and Asia Pacific are also emerging as important regions with expanding aerospace initiatives.

Competitive and Strategic Outlook

The competitive landscape of the magnetorquer market is moderately fragmented, with several established and emerging players. Major companies include Meisei Electric Co., CubeSpace, Glavkosmos, ZARM Technik, and Sputnik, among others. These firms are focused on expanding product portfolios, enhancing technological capabilities, and scaling manufacturing capacities to meet growing space mission demands. Recent strategic moves include new facility developments and modular system offerings tailored to diverse satellite classes. Partnerships between technology providers and satellite integrators are increasing to deliver integrated attitude control solutions that

+357 96 030922
info@marketpublishers.com

reduce time to market for spacecraft developers.

The global magnetorquer market is poised for sustained growth from 2026 to 2031, supported by satellite industry expansion and technological innovation. While challenges related to interference and hardware costs persist, ongoing investments and advancements in compact, high-performance solutions are expected to drive market momentum. Stakeholders across the aerospace value chain can leverage these trends to capitalize on emerging opportunities in satellite attitude control and related applications.

Key Benefits of this Report

Insightful Analysis: Gain detailed market insights across regions, customer segments, policies, socio-economic factors, consumer preferences, and industry verticals.

Competitive Landscape: Understand strategic moves by key players to identify optimal market entry approaches.

Market Drivers and Future Trends: Assess major growth forces and emerging developments shaping the market.

Actionable Recommendations: Support strategic decisions to unlock new revenue streams.

Caters to a Wide Audience: Suitable for startups, research institutions, consultants, SMEs, and large enterprises.

What Businesses Use Our Reports For

Industry and market insights, opportunity assessment, product demand forecasting, market entry strategy, geographical expansion, capital investment decisions, regulatory analysis, new product development, and competitive intelligence.

Report Coverage

Historical Data: 2021-2024, Base Year: 2025, Forecast Years: 2026-2031

+357 96 030922
info@marketpublishers.com

Growth opportunities, challenges, supply chain outlook, regulatory framework, and trend analysis

Competitive positioning, strategies, and market share evaluation

Revenue growth and forecast assessment across segments and regions

Company profiling including strategies, products, financials, and key developments

+357 96 030922
info@marketpublishers.com

Contents

1. EXECUTIVE SUMMARY

2. MARKET SNAPSHOT

2.1. Market Overview
2.2. Market Definition
2.3. Scope of the Study
2.4. Market Segmentation

3. BUSINESS LANDSCAPE

3.1. Market Drivers
3.2. Market Restraints
3.3. Market Opportunities
3.4. Porter’s Five Forces Analysis
3.5. Industry Value Chain Analysis
3.6. Policies and Regulations
3.7. Strategic Recommendations

4. TECHNOLOGICAL OUTLOOK

5. MAGNETORQUERS MARKET BY TYPE

5.1. Introduction
5.2. Electromagnetic Magnetorquers
5.3. Permanent Magnet Magnetorquers
5.4. Hybrid Magnetorquers

6. MAGNETORQUERS MARKET BY APPLICATION

6.1. Introduction
6.2. Satellite Attitude Control
6.3. Spacecraft Maneuvering
6.4. Research and Exploration Missions

7. MAGNETORQUERS MARKET BY END-USER INDUSTRY

+357 96 030922
info@marketpublishers.com

7.1. Introduction
7.2. Small Satellites
7.3. Medium Satellites
7.4. Large Satellites

8. MAGNETORQUERS MARKET BY GEOGRAPHY

8.1. Introduction
8.2. North America
  8.2.1. USA
  8.2.2. Canada
  8.2.3. Mexico
8.3. South America
  8.3.1. Brazil
  8.3.2. Argentina
  8.3.3. Others
8.4. Europe
  8.4.1. United Kingdom
  8.4.2. Germany
  8.4.3. France
  8.4.4. Italy
  8.4.5. Spain
  8.4.6. Others
8.5. Middle East & Africa
  8.5.1. Saudi Arabia
  8.5.2. United Aran Emirates
  8.5.3. Others
8.6. Asia Pacific
  8.6.1. China
  8.6.2. India
  8.6.3. Japan
  8.6.4. South Korea
  8.6.5. Taiwan
  8.6.6. Thailand
  8.6.7. Others

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

9.1. Major Players and Strategy Analysis

+357 96 030922
info@marketpublishers.com

9.2. Market Share Analysis
9.3. Mergers, Acquisitions, Agreements, and Collaborations
9.4. Competitive Dashboard

10. COMPANY PROFILES

10.1. Meisei Electric Co., Ltd.
10.2. CubeSpace
10.3. Glavkosmos
10.4. ZARM Technik AG
10.5. Sputnik
10.6. NewSpace Systems
10.7. NanoAvionics
10.8. Beijing SunWise Space Technology Co., Ltd.
10.9. Sensorpia
10.10. AAC Clyde Space

11. APPENDIX

11.1. Currency
11.2. Assumptions
11.3. Base and Forecast Years Timeline
11.4. Key benefits for the stakeholders
11.5. Research Methodology
11.6. Abbreviations

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Magnetorquer Market - Strategic Insights and Forecasts (2026-2031)
Product link: https://marketpublishers.com/r/MD994912B3CAEN.html
Price: US$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/MD994912B3CAEN.html