

Electromagnetic Bomb Market is Forecasted to Reach a Value of US \$1.7 Billion by 2029

*The Business Research Company's
Electromagnetic Bomb Global Market
Report 2025 – Market Size, Trends, And
Global Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED
KINGDOM, August 25, 2025

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What Is The Expected Cagr For The [Electromagnetic Bomb Market](#) Through 2025?

Over the past few years, there has been a significant expansion in the market size of the

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electromagnetic bomb. The market, which is worth \$1.07 billion in 2024, is expected to rise to \$1.18 billion in 2025, demonstrating a compound annual growth rate (CAGR) of 9.9%. Various factors contribute to this growth observed in the historic period, such as increased budgets for military modernization, escalating geopolitical discord, heightened emphasis on electronic warfare abilities, expanding use of cutting-edge electronic countermeasure systems, and a growing consciousness of threats related to cyber and electronic warfare.

Expectations are high for substantial expansion in the electromagnetic bomb market within the coming years, with projections seeing it surge to a worth of \$1.70 billion by 2029. This implies a compound annual growth rate (CAGR) of 9.6%. Such robust growth over the forecasted period can be linked to the heightened usage of unmanned systems, the burgeoning demand for non-harmful warfare strategies, an upsurge in the preference for battlefield electronic disruption tools, an increase in the implementation of intelligent and networked military apparatus, in addition to a rising emphasis on operations spanning multiple domains. Within this projected period, notable trends are anticipated to include the development of counter-measure technologies, the incorporation of real-time data from the battlefield, the integration of undercover technologies, advancements in electromagnetic pulse modulation, and novel

developments in pulse shaping technology.

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What Are The Driving Factors Impacting The Electromagnetic Bomb Market?

The advancement of the electromagnetic bomb market is likely to be spurred by increasing geopolitical discord. These tensions encompass disagreements, battles, and rivalries among nations or regions brought about by political, economic, territorial, or strategic importance. The escalation of geopolitical tension often culminates from territorial disputes, as they pose a risk to national sovereignty and dominion over regions of strategic significance. Electromagnetic bombs can help mitigate geopolitical tensions by providing non-lethal weaponry to disable opposition electronics, thus conferring strategic superiority in areas of conflict. They augment defense strategies by impeding communication and control systems, thereby diminishing the reliance on traditional kinetic warfare. For instance, the US Department of Homeland Security, a US federal agency, reported in October 2024 that encounters with migrants at the US-Canada border surpassed 181,000 in 2024, a 6.5% increase from the 170,000 recorded in 2023. Consequently, the escalation of geopolitical tension is fuelling the expansion of the electromagnetic bomb market.

Which Players Dominate The Electromagnetic Bomb Industry Landscape?

Major players in the Electromagnetic Bomb Global Market Report 2025 include:

- Raytheon Technologies Corporation
- The Boeing Company
- Lockheed Martin Corporation
- General Dynamics Corporation
- Northrop Grumman Corporation
- Honeywell International
- BAE Systems plc
- Thales S.A.
- L3Harris Technologies Inc.
- Leonardo S.p.A.

What Are The Future Trends Of The Electromagnetic Bomb Market?

Key players in the electromagnetic bomb industry are prioritizing the development of technologically superior solutions, including high-power microwave (HPM) systems, that can accurately and non-lethally disrupt the electronic equipment and communication systems of adversaries. HPM systems, which emit dense surges of microwave energy to incapacitate or obliterate electronic devices, are a fundamental element of electromagnetic bombs used to interfere with enemy systems without causing destructive physical harm. For example, in April 2025, Epirus Inc., an American technology firm, introduced the Leonidas H2O, a high-energy, high-power microwave system engineered for maritime interference and protection against unmanned aerial vehicles (UAVs) and small vessels, such as unmanned sea vessels. The Leonidas

H2O, which is designed to disrupt the electronics of its targets non-kinetically, offers a scalable, reusable and safe method for marine security and anti-drone operations. It comes with an unlimited magazine, an open architecture and has proven successful in incapacitating ship engines across unprecedented distances during U.S. Navy drills, even when in low-power mode.

Global [Electromagnetic Bomb Market Segmentation](#) By Type, Application, And Region

The electromagnetic bomb market covered in this report is segmented –

- 1) By Type: High-Power Electromagnetic Bombs, Nuclear Electromagnetic Pulse Weapons, Non-Nuclear Electromagnetic Pulse Devices, Microwave Weapons
- 2) By Platform: Airborne, Naval, Ground-Based
- 3) By Application Sector: Military And Defense, Civilian Protection And Disaster Relief, Cyber Warfare Operations, Telecommunication Disruption
- 4) By End User: Government, Defense Contractors, Research Organizations, Commercial Enterprises, Private Sector

Subsegments:

- 1) By High-Power Electromagnetic Bombs: Directed Energy Weapons, Flux Compression Generators, Radio Frequency (RF) Weapons, Vircator-Based Systems, Repetitive Pulse Power Systems
- 2) By Nuclear Electromagnetic Pulse Weapons: High-Altitude Nuclear Explosions, Tactical Electromagnetic Pulse Warheads, Strategic Electromagnetic Pulse Warheads
- 3) By Non-Nuclear Electromagnetic Pulse Devices: Portable Electromagnetic Pulse Generators, Improvised Electromagnetic Pulse Devices, Ground-Based Non-Nuclear Electromagnetic Pulse Systems, Vehicle-Mounted Non-Nuclear Electromagnetic Pulse Systems
- 4) By Microwave Weapons: Active Denial Systems, High-Power Microwave (HPM) Bombs, Millimeter Wave Weapons, Airborne Microwave Platforms

View the full electromagnetic bomb market report:

<https://www.thebusinessresearchcompany.com/report/electromagnetic-bomb-global-market-report>

Which Region Holds The Largest Market Share In The Electromagnetic Bomb Market?

In the 2025 Global Market Report for Electromagnetic Bombs, North America stood out as the most dominant region in 2024. The report forecasts Asia-Pacific to surpass other regions in terms of rapid growth during the predicted period. Other regions examined in this market report include Western Europe, Eastern Europe, South America, Middle East, and Africa.

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