

Global Electromagnetic Weapons Market Size Study, by Type (Rail Guns, EMP, Coil Gun), by Platform (Air-Based, Sea-Based, Land-Based), by End User (Military, Homeland Security) and Regional Forecasts 2022-2032

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Abstracts

Global Electromagnetic Weapons Market was valued at approximately USD 601.50 million in 2023, and it is projected to grow significantly with a robust CAGR of 19.77% over the forecast period of 2024-2032. Electromagnetic weapons leverage the power of electromagnetic energy to deliver heat, mechanical, or electrical energy, thereby causing significant disruption to electronic systems and physical targets. These weapons are particularly effective in inducing destructive voltages within electronic wiring, which can disable critical enemy electronics used for communication, navigation, guidance, computing, and display systems.

The Global Electromagnetic Weapons Market is experiencing growth driven by increased investments in the development of electromagnetic weapons, particularly for integration into air and missile defense as well as anti-surface warfare. Innovations in modernized weaponry are expected to further fuel market growth. The demand for smaller electromagnetic weapons, particularly for unmanned aerial vehicles and combat operations, has also contributed to market expansion. Additionally, the incorporation of advanced technologies and rising demand from emerging economies are expected to supplement market growth. Moreover, ongoing technological advancements and increasing research and development activities globally offer substantial growth opportunities. However, challenges such as the limitations of anti-personnel high-powered microwaves and the risk of high collateral damage pose obstacles to market expansion.

The key regions considered for the market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America leads the market

due to the rising demand for electromagnetic weapons from emerging economies and significant investments in the development of advanced weaponry. The region's market growth is further supported by collaborations and research and development activities aimed at enhancing product portfolios and expanding into new regions. Furthermore, the Asia-Pacific region is projected to exhibit the highest CAGR during the forecast period, driven by increased defense spending and technological advancements.

Major market players included in this report are:

Lockheed Martin Corporation
Honeywell International Inc.
Thales Group
Rheinmetall AG
BAE Systems
Raytheon Technologies Corporation
Northrop Grumman Corporation
Rafael Advanced Defense Systems Ltd.
L3Harris Technologies, Inc.
The Boeing Company
General Atomics
Leonardo S.p.A.
QinetiQ Group PLC
Dynetics, Inc.
Textron Inc.

The detailed segments and sub-segment of the market are explained below:

By Type:

- Rail Guns
- EMP
- Coil Gun

By Platform:

- Air-Based
- Sea-Based
- Land-Based

By End User:

- Military
- Homeland Security

By Region:

North America:

- U.S.

- Canada

Europe:

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific:

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America:

- Brazil
- Mexico
- RoLA

Middle East & Africa:

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market

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