

Report Information

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Directed Energy Weapon Market Research Report - Global Forecast till 2032

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Description:

Global Directed Energy Weapon Market Overview

Directed Energy Weapon Market Size was valued at USD 1.5 Billion in 2022. The Directed Energy Weapon market industry is projected to grow from USD 1.77 Billion in 2023 to USD 6.96 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 18.60% during the forecast period (2023 - 2032). Increased demand for directed energy weapons and rising demand for technologically advanced equipment for security are the key market drivers enhancing the growth of market.

Directed Energy Weapon Market Overview

Source The Secondary Research, Primary Research, MRFR Database, and Analyst Review

Directed Energy Weapon Market Trends

- Growing demand for directed energy weapons is driving the market growth

Market CAGR for directed energy weapons is being driven by the rising demand and adoption of directed energy weapons. The rising product utilization in the navy and air forces in order to combat the threats is increasing the demand for directed energy weapons. The government is increasingly investing in research and development activities to enhance the performance of the weapons. Directed energy weapons are in high demand in defense forces throughout the world from powerful militaries.

The increasing development of high-energy laser weapons and the adoption of high-energy laser weapons to deal with the threat of Unmanned Aerial Vehicles has become one of the advanced directed energy technologies. The rapid growth in the military expenses of developed and evolving countries owing to the rising geopolitical tensions is accelerating the procurement of new land, air, and sea platforms. The armed forces are extensively investing in the integration of advanced weapon systems like directed energy weapons on board the vehicles, driving the market growth. DEWs are largely utilized for defending ships against several threats, including unmanned aerial systems, anti-ship missiles, and small boats, and also for protecting critical naval assets like aircraft carriers, logistical support vessels, and amphibious assault ships, contributing to the growth of the market.

The integration of solid-state that provides high-energy output, compact size, and scalability is influencing the market growth positively. The recent development of fiber lasers that offers high beam quality, improved performance, and improved reliability are boosting the market growth. The integration of adaptive optics and beam control to compensate for atmospheric turbulence, provide better engagement performance over long distances, and enable effective target tracking is boosting the market growth. Additionally, the inclusion of advanced sensor systems like radar and electro-optical sensors that allows better target acquisition, engagement, and tracking is strengthening the market growth. Thus, driving the Directed Energy Weapon market revenue.

However, the high development price and restrictions on anti-personnel lasers are anticipated to hamper the market growth. The use of DEW for law enforcement missions and rising barriers to designing military DEW systems are anticipated to restrain the directed energy weapons market during the forecast period.

Directed Energy Weapon Market Segment Insights

Directed Energy Weapon Type Insights

The Directed Energy Weapons market segmentation, based on type, includes High Energy Laser Technology, High Power Microwave Technology, Particle Beam Weapons, Plasma Weapons, and Sonic Weapons. The high-energy laser technology segment dominated the market, accounting for the largest market revenue due to the high demand for high-energy laser technology and technological advancements in laser technology. Also, the rising application of high-energy laser technology in directed energy weapons is anticipated to boost market growth. Further, the high-power microwave technology segment of directed energy weapons technology is the fastest growing during the forecast period.

Directed Energy Weapon Lethality Insights

The Directed Energy Weapons market segmentation, based on distribution channels, includes Lethal and Non-Lethal. The lethal segment dominates the market due to the rising adoption of lethal DEW by armed forces ly and the

focus on destroying enemy military assets. Further, the non-lethal segment is expected to be the fastest growing segment throughout the forecast period due to the surge in R&D investments by governments of countries for homeland security, paramilitary forces, and peacekeeping forces.

Figure 1: Directed Energy Weapon Market, by Lethality, 2022 & 2032 (USD Billion)

Directed Energy Weapon Market, by Lethality, 2022 & 2032 (USD Billion)

Source The Secondary Research, Primary Research, MRFR Database, and Analyst Review

Directed Energy Weapon Regional Insights

By region, the study gives market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American Directed Energy Weapon market area dominates the market due to the rising adoption rate of laser-based technology weapon systems. There is an increased federal budget allocation for new-generation electronic warfare weapons to protect against different threats for sea, land, and air defense applications in this region.

Further, the prime countries studied in the market report are The US, Canada, France, the UK, German, Italy, Spain, Japan, India, China, Australia, South Korea, and Brazil.

Figure 2: DIRECTED ENERGY WEAPON MARKET SHARE BY REGION 2022 (USD Billion)

DIRECTED ENERGY WEAPON MARKET SHARE BY REGION 2022 (USD Billion)

Source The Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe's Directed Energy Weapon market accounts for the second-largest market share due to the increased investments made in the next-generation high-energy laser technology across the land, air, and naval platforms. Further, the German Directed Energy Weapon market held the largest market share, and the UK Directed Energy Weapon market was the fastest-growing market in the European region.

The Asia-Pacific Directed Energy Weapon Market is expected to grow at a rapid CAGR from 2023 to 2032. This is due to the high adoption rate for defense and homeland security applications and rising investments by the regional market players in this region. Moreover, China's Directed Energy Weapon market held the largest market share, and the Indian Directed Energy Weapon market was the fastest-growing market in the Asia-Pacific region.

Directed Energy Weapon Key Market Players & Competitive Insights

Leading market participants are investing heavily in research and development in order to spread their product lines, which will help the Directed Energy Weapon market grow even more. Market participants are also undertaking various strategic activities to expand their footprint, with important market developments including new product launches, mergers and acquisitions, higher investments, contractual agreements, and collaboration with other organizations. To spread and survive in a more competitive and rising market climate, the Directed Energy Weapons industry must provide cost-effective items.

Manufacturing locally to reduce operational costs is one of the key business tactics utilized by manufacturers in the Directed Energy Weapon industry to benefit clients and increase the market sector. In recent years, the Directed Energy Weapon industry has offered some of the most significant advantages to safety and security. Major participants in the Directed Energy Weapon market, including Elbit System Limited, Applied Technologies Associate, Rafael Advanced Defense Systems Ltd., BAE Systems Plc, Honeywell International Inc, Lockheed Martin Corporation, Raytheon Technologies Corporation, Thales Group, The Boeing Company, L3Harris Technologies Inc, and others, are trying to increase market demand by investing in research and development operations.

Elbit Systems Ltd is an Israel-based international defense electronics company involved in a broad range of programs across the globe. Elbit Systems and its subsidiaries operate in areas of land, aerospace and naval systems, control, command, communications, intelligence surveillance, reconnaissance, and many others. The company is also emphasizing the upgradation of existing military platforms, commercial aviation, and homeland security applications. In July 2022, the company was awarded a contract worth 80 million USD dollars to offer IR-PAWS (Infrared-based Passive Airborne Warning Systems) EW systems and C-MUSIC directed infrared countermeasures to an undisclosed Asia Pacific country. This contract will be completed within the next two years.

Applied Technologies Associate, which is a division of Scientific Drilling International, located in Paso Robles, California. This company is a leader in the research and development and manufacturing of leading-edge technologies for the petroleum industry. It is the provider of advanced technology products that aims to tackle sensing, control, and measurement of problems. The company provides solutions for technical services, sensors and systems, crash testing, aerospace controls, system testing and evaluation, platform stabilization, and many more. In October 2020, the company gained a contract of 17.66 million US dollars for other transaction prototype project agreement for the assembly, development, and testing of a ground-based Directed Energy Weapons prototype for a fixed-site Air Forces Air Base Air Defense to combat Group 1 and Group 2 unmanned aerial system threats.

Key Companies in the Directed Energy Weapon market include

- Elbit System Limited
- Applied Technologies Associate
- Rafael Advanced Defense Systems Ltd.
- BAE Systems Plc
- Honeywell International Inc
- Lockheed Martin Corporation
- Raytheon Technologies Corporation
- Thales Group

- The Boeing Company
- L3Harris Technologies Inc

Directed Energy Weapon Industry Developments

- **For Instance, March 2022** KaraMD announced Pure Health Apple Cider Vinegar Gummies, a vegan gummy aimed to aid ketosis, digestion regulation, weight management, and encourage greater levels of energy.
- **For Instance, January 2022** KBR announced its technical demonstration of the first DE M-SHORAD (Directed Energy Maneuver-Short Range Air Defense) Combat Shoot-Off (CSO) user trial operations in collaboration with the US Army on Stryker Armored Vehicles-mounted systems for combat capability requirement assessment.
- **For Instance, September 2021** Three directed-energy weapon demonstrator contracts totaling 100 million dollars were awarded by the British Ministry of Defense to a British industry team. This will help in demonstrator trials taking place with systems mounted aboard a Royal Navy Types 23 vessel, a truck, and an armored vehicle.

Directed Energy Weapon Market Segmentation

Directed Energy Weapon Technology Outlook

- High Energy Laser Technology
- High Power Microwave Technology
- Particle Beam Weapons
- Plasma Weapons
- Sonic Weapons

Directed Energy Weapon Lethality Outlook

- Lethal
- Non-Lethal

Directed Energy Weapon Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India

- Australia
- South Korea
- Australia
- Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

Table of Content:

Contents	
1 Executive Summary	
1.1. Market Attractiveness Analysis	
1.1.1. Global Directed Energy Weapon Market, By Type	
1.1.2. Global Directed Energy Weapon Market, By Technology	
1.1.3. Global Directed Energy Weapon Market, By Application	
1.1.4. Global Directed Energy Weapon Market, By Platform	
1.1.5. Global Directed Energy Weapon Market, By Region	
2 Market Introduction	
2.1. Market Definition	
2.2. Scope Of The Study	
2.3. Market Structure	
2.4. Key Buying Criteria	
2.5. Market Factor Indicator Analysis	
3 Research Methodology	
3.1. Research Process	
3.2. Primary Research	
3.3. Secondary Research	
3.4. Market Size Estimation	
3.5. Forecast Model	
3.6. List Of Assumptions	
4 Market Insights	
5 Market Dynamics	
5.1. Introduction	
5.2. Drivers	
5.2.1. Increase In Military Spending	
5.2.2. Rising Terrorist Attacks And Focus On Counter Operations	
5.2.3. Drivers Impact Analysis	
5.3. Restraints	
5.4. Opportunities	
5.4.1. Changing Nature Of Warfare	
5.4.2. Use Of Technologically Advanced Equipment By Military Forces	
5.5. Market/Technological Trends	
5.5.1. High Energy Laser Weapons	
5.5.2. Electromagnetic Weapons	
5.6. Patent Trends	
5.7. Regulatory Landscape/Standards	
6 Market Factor Analysis	
6.1. Value Chain/Supply Chain Analysis	
6.1.1. R&D	
6.1.2. Manufacturing	
6.1.3. Distribution & Sales	
6.1.4. Post-Sales Monitoring	
6.2. Porter's Five Forces Analysis	
6.2.1. Threat Of New Entrants	
6.2.2. Bargaining Power Of Buyers	
6.2.3. Threat Of Substitutes	
6.2.4. Segment Rivalry	
6.2.5. Bargaining Power Of Suppliers	
7 Global Directed Energy Weapon Market, By Type	
7.1. Introduction	
7.2. Lethal Weapon	
7.2.1. Market Estimates & Forecast, 2023-2032	
7.2.2. Market Estimates & Forecast, By Region, 2023-2032	
7.3. Non-Lethal Weapon	
7.3.1. Market Estimates & Forecast, 2023-2032	
7.3.2. Market Estimates & Forecast, By Region, 2023-2032	
8 Global Directed Energy Weapon Market, By Technology	
8.1. Introduction	
8.2. High Energy Laser Technology	
8.2.1. Market Estimates & Forecast, 2023-2032	
8.2.2. Market Estimates & Forecast, By Region, 2023-2032	
8.3. High Power Microwave Technology	
8.3.1. Market Estimates & Forecast, 2023-2032	
8.3.2. Market Estimates & Forecast, By Region, 2023-2032	
8.4. Particle Beam Weapons	
8.4.1. Market Estimates & Forecast, 2023-2032	
8.4.2. Market Estimates & Forecast, By Region, 2023-2032	
9 Global Directed Energy Weapon Market, By Application	

- 9.1. Introduction
- 9.2. Military
 - 9.2.1. Market Estimates & Forecast, 2023-2032
 - 9.2.2. Market Estimates & Forecast, By Region, 2023-2032
- 9.3. Homeland Security
 - 9.3.1. Market Estimates & Forecast, 2023-2032
 - 9.3.2. Market Estimates & Forecast, By Region, 2023-2032
- 10 Global Directed Energy Weapon Market, By Platform
 - 10.1. Introduction
 - 10.2. Airborne
 - 10.2.1. Market Estimates & Forecast, 2023-2032
 - 10.2.2. Market Estimates & Forecast, By Region, 2023-2032
 - 10.3. Ground-Based
 - 10.3.1. Market Estimates & Forecast, 2023-2032
 - 10.3.2. Market Estimates & Forecast, By Region, 2023-2032
 - 10.4. Naval
 - 10.4.1. Market Estimates & Forecast, 2023-2032
 - 10.4.2. Market Estimates & Forecast, By Region, 2023-2032
- 11 Global Directed Energy Weapon Market, By Region
 - 11.1. Introduction
 - 11.2. North America
 - 11.2.1. Market Estimates & Forecast, By Country, 2023-2032
 - 11.2.2. Market Estimates & Forecast, By Type, 2023-2032
 - 11.2.3. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.2.4. Market Estimates & Forecast, By Application, 2023-2032
 - 11.2.5. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.2.6. US
 - 11.2.6.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.2.6.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.2.6.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.2.6.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.2.7. Canada
 - 11.2.7.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.2.7.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.2.7.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.2.7.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.3. Europe
 - 11.3.1. Market Estimates & Forecast, By Country, 2023-2032
 - 11.3.2. Market Estimates & Forecast, By Type, 2023-2032
 - 11.3.3. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.3.4. Market Estimates & Forecast, By Application, 2023-2032
 - 11.3.5. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.3.6. UK
 - 11.3.6.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.3.6.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.3.6.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.3.6.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.3.7. Germany
 - 11.3.7.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.3.7.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.3.7.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.3.7.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.3.8. France
 - 11.3.8.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.3.8.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.3.8.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.3.8.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.3.9. Italy
 - 11.3.9.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.3.9.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.3.9.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.3.9.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.3.10. Rest Of Europe
 - 11.3.10.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.3.10.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.3.10.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.3.10.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.4. Asia-Pacific
 - 11.4.1. Market Estimates & Forecast, By Country, 2023-2032
 - 11.4.2. Market Estimates & Forecast, By Type, 2023-2032
 - 11.4.3. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.4.4. Market Estimates & Forecast, By Application, 2023-2032
 - 11.4.5. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.4.6. China
 - 11.4.6.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.4.6.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.4.6.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.4.6.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.4.7. Japan
 - 11.4.7.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.4.7.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.4.7.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.4.7.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.4.8. India
 - 11.4.8.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.4.8.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.4.8.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.4.8.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.4.9. Australia
 - 11.4.9.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.4.9.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.4.9.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.4.9.4. Market Estimates & Forecast, By Platform, 2023-2032

- 11.4.10. Rest Of Asia-Pacific
 - 11.4.10.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.4.10.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.4.10.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.4.10.4. Market Estimates & Forecast, By Platform, 2023-2032
- 11.5. Middle East & Africa
 - 11.5.1. Market Estimates & Forecast, By Country, 2023-2032
 - 11.5.2. Market Estimates & Forecast, By Type, 2023-2032
 - 11.5.3. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.5.4. Market Estimates & Forecast, By Application, 2023-2032
 - 11.5.5. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.5.6. Saudi Arabia
 - 11.5.6.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.5.6.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.5.6.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.5.6.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.5.7. UAE
 - 11.5.7.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.5.7.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.5.7.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.5.7.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.5.8. Rest Of Middle East & Africa
 - 11.5.8.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.5.8.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.5.8.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.5.8.4. Market Estimates & Forecast, By Platform, 2023-2032
- 11.6. Latin America
 - 11.6.1. Market Estimates & Forecast, By Country, 2023-2032
 - 11.6.2. Market Estimates & Forecast, By Type, 2023-2032
 - 11.6.3. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.6.4. Market Estimates & Forecast, By Application, 2023-2032
 - 11.6.5. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.6.6. Brazil
 - 11.6.6.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.6.6.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.6.6.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.6.6.4. Market Estimates & Forecast, By Platform, 2023-2032
 - 11.6.7. Rest Of Latin America
 - 11.6.7.1. Market Estimates & Forecast, By Type, 2023-2032
 - 11.6.7.2. Market Estimates & Forecast, By Technology, 2023-2032
 - 11.6.7.3. Market Estimates & Forecast, By Application, 2023-2032
 - 11.6.7.4. Market Estimates & Forecast, By Platform, 2023-2032
- 12 Competitive Landscape
 - 12.1. Competitive Overview
 - 12.2. Competitor Dashboard
 - 12.3. Major Growth Strategy In The Global Directed Energy Weapon Market
 - 12.4. Competitive Benchmarking
 - 12.5. Market Share Analysis
 - 12.6. Leading Player In Terms Of Number Of Developments In Global Directed Energy Weapon Market
 - 12.7. Key Developments & Growth Strategies
 - 12.7.1. New Product Launch/Service Deployment
 - 12.7.2. Merger & Acquisition
 - 12.7.3. Joint Ventures
- 13 Company Profiles
 - 13.1. Key Market Players
 - 13.1.1. BAE Systems PLC
 - 13.1.1.1. Company Overview
 - 13.1.1.2. Product Offering
 - 13.1.1.3. Financial Overview
 - 13.1.1.4. Key Developments
 - 13.1.1.5. SWOT Analysis
 - 13.1.1.6. Strategy
 - 13.1.2. The Boeing Company
 - 13.1.2.1. Company Overview
 - 13.1.2.2. Product Offering
 - 13.1.2.3. Financial Overview
 - 13.1.2.4. Key Developments
 - 13.1.2.5. SWOT Analysis
 - 13.1.2.6. Strategy
 - 13.1.3. L3Harris Technologies, Inc.
 - 13.1.3.1. Company Overview
 - 13.1.3.2. Product Offering
 - 13.1.3.3. Financial Overview
 - 13.1.3.4. Key Developments
 - 13.1.3.5. SWOT Analysis
 - 13.1.3.6. Strategy
 - 13.1.4. Lockheed Martin Corporation
 - 13.1.4.1. Company Overview
 - 13.1.4.2. Product Offering
 - 13.1.4.3. Financial Overview
 - 13.1.4.4. Key Developments
 - 13.1.4.5. SWOT Analysis
 - 13.1.4.6. Strategy
 - 13.1.5. Moog Inc.
 - 13.1.5.1. Company Overview
 - 13.1.5.2. Product Offering
 - 13.1.5.3. Financial Overview
 - 13.1.5.4. Key Developments
 - 13.1.5.5. SWOT Analysis
 - 13.1.5.6. Strategy
 - 13.1.6. Northrop Grumman Corporation
 - 13.1.6.1. Company Overview
 - 13.1.6.2. Product Offering

13.1.6.3. Financial Overview
13.1.6.4. Key Developments
13.1.6.5. SWOT Analysis
13.1.6.6. Strategy
13.1.7. Quinetiq Group PLC
13.1.7.1. Company Overview
13.1.7.2. Product Offering
13.1.7.3. Financial Overview
13.1.7.4. Key Developments
13.1.7.5. SWOT Analysis
13.1.7.6. Strategy
13.1.8. Raytheon Company
13.1.8.1. Company Overview
13.1.8.2. Product Offering
13.1.8.3. Financial Overview
13.1.8.4. Key Developments
13.1.8.5. SWOT Analysis
13.1.8.6. Strategy
13.1.9. Rheinmetall AG
13.1.9.1. Company Overview
13.1.9.2. Product Offering
13.1.9.3. Financial Overview
13.1.9.4. Key Developments
13.1.9.5. SWOT Analysis
13.1.9.6. Strategy
13.1.10. Textron Inc.
13.1.10.1. Company Overview
13.1.10.2. Product Offering
13.1.10.3. Financial Overview
13.1.10.4. Key Developments
13.1.10.5. SWOT Analysis
13.1.10.6. Strategy
14 Appendix
14.1. References
14.2. Related Reports
14.3. List Of Abbreviation
15 List Of Tables
TABLE 1 LIST OF ASSUMPTIONS
TABLE 2 MAJOR PATENTS GRANTED FOR DIRECTED ENERGY WEAPON (15 MAY 2010–15 MAY 2019)
TABLE 3 TYPE: GLOBAL DIRECTED ENERGY WEAPON MARKET, 2023-2032 (USD MILLION)
TABLE 4 TECHNOLOGY: GLOBAL DIRECTED ENERGY WEAPON MARKET, 2023-2032 (USD MILLION)
TABLE 5 APPLICATION: GLOBAL DIRECTED ENERGY WEAPON MARKET, 2023-2032 (USD MILLION)
TABLE 6 PLATFORM: GLOBAL DIRECTED ENERGY WEAPON MARKET, 2023-2032 (USD MILLION)
TABLE 7 GLOBAL DIRECTED ENERGY WEAPON MARKET, BY REGION, 2023-2032 (USD MILLION)
TABLE 8 NORTH AMERICA: DIRECTED ENERGY WEAPON MARKET, BY COUNTRY, 2023-2032 (USD MILLION)
TABLE 9 NORTH AMERICA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 10 NORTH AMERICA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 11 NORTH AMERICA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 12 NORTH AMERICA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 13 US: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 14 US: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 15 US: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 16 US: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 17 CANADA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 18 CANADA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 19 CANADA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 20 CANADA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 21 EUROPE: DIRECTED ENERGY WEAPON MARKET, BY COUNTRY, 2023-2032 (USD MILLION)
TABLE 22 EUROPE: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 23 EUROPE: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 24 EUROPE: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 25 EUROPE: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 26 UK: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 27 UK: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 28 UK: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 29 UK: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 30 GERMANY: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 31 GERMANY: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 32 GERMANY: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 33 GERMANY: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 34 FRANCE: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 35 FRANCE: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 36 FRANCE: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 37 FRANCE: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 38 ITALY: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 39 ITALY: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 40 ITALY: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 41 ITALY: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 42 REST OF EUROPE: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 43 REST OF EUROPE: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 44 REST OF EUROPE: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 45 REST OF EUROPE: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 46 ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY COUNTRY, 2023-2032 (USD MILLION)
TABLE 47 ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 48 ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 49 ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)

MILLION)
TABLE 50 ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 51 CHINA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 52 CHINA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 53 CHINA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 54 CHINA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 55 INDIA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 56 INDIA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 57 INDIA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 58 INDIA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 59 JAPAN: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 60 JAPAN: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 61 JAPAN: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 62 JAPAN: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 63 AUSTRALIA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 64 AUSTRALIA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 65 AUSTRALIA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 66 AUSTRALIA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 67 REST OF ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 68 REST OF ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 69 REST OF ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 70 REST OF ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 71 MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY COUNTRY, 2023-2032 (USD MILLION)
TABLE 72 MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 73 MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 74 MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 75 MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 76 SAUDI ARABIA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 77 SAUDI ARABIA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 78 SAUDI ARABIA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 79 SAUDI ARABIA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 80 UAE: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 81 UAE: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 82 UAE: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 83 UAE: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 84 REST OF THE MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 85 REST OF THE MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 86 REST OF THE MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 87 REST OF THE MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 88 LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY COUNTRY, 2023-2032 (USD MILLION)
TABLE 89 LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 90 LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 91 LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 92 LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 93 BRAZIL: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 94 BRAZIL: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 95 BRAZIL: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 96 BRAZIL: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 97 REST OF LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY TYPE, 2023-2032 (USD MILLION)
TABLE 98 REST OF LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY TECHNOLOGY, 2023-2032 (USD MILLION)
TABLE 99 REST OF LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY APPLICATION, 2023-2032 (USD MILLION)
TABLE 100 REST OF LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET, BY PLATFORM, 2023-2032 (USD MILLION)
TABLE 101 THE MOST ACTIVE PLAYERS IN THE GLOBAL DIRECTED ENERGY WEAPON MARKET
TABLE 102 CONTRACTS AND AGREEMENTS
TABLE 103 MERGERS & ACQUISITIONS
TABLE 104 PRODUCT DEVELOPMENT
TABLE 105 EXPANSIONS AND INVESTMENTS
TABLE 106 JOINT VENTURES & PARTNERSHIPS
16 List Of Figures
FIGURE 1 MARKET SYNOPSIS
FIGURE 2 GLOBAL DIRECTED ENERGY WEAPON MARKET: MARKET ATTRACTIVENESS ANALYSIS
FIGURE 3 GLOBAL DIRECTED ENERGY WEAPON MARKET ANALYSIS, BY TYPE
FIGURE 4 GLOBAL DIRECTED ENERGY WEAPON MARKET ANALYSIS, BY COMPONENT
FIGURE 5 GLOBAL DIRECTED ENERGY WEAPON MARKET ANALYSIS, BY APPLICATION
FIGURE 5 GLOBAL DIRECTED ENERGY WEAPON MARKET ANALYSIS, BY PLATFORM
FIGURE 6 GLOBAL DIRECTED ENERGY WEAPON MARKET ANALYSIS, BY REGION
FIGURE 7 GLOBAL DIRECTED ENERGY WEAPON MARKET: MARKET STRUCTURE
FIGURE 8 KEY BUYING CRITERIA FOR DIRECTED ENERGY WEAPON TYPES
FIGURE 9 RESEARCH PROCESS OF MRFR
FIGURE 10 NORTH AMERICA: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2032
FIGURE 11 EUROPE: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2032

FIGURE 12 ASIA-PACIFIC: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2032
FIGURE 13 MIDDLE EAST & AFRICA: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2032
FIGURE 14 LATIN AMERICA: MARKET SIZE & MARKET SHARE, BY REGION, 2023-2032
FIGURE 15 MARKET DYNAMICS OVERVIEW
FIGURE 16 GROWTH IN INTERNATIONAL SEABORNE TRADE (1970–2017)
FIGURE 17 WORLD SEABORNE TRADE, BY REGION, 2017
FIGURE 18 DRIVERS IMPACT ANALYSIS: GLOBAL DIRECTED ENERGY WEAPON MARKET
FIGURE 19 RESTRAINTS IMPACT ANALYSIS: GLOBAL DIRECTED ENERGY WEAPON MARKET
FIGURE 20 GLOBAL OCEAN CRUISE PASSENGERS (IN MILLIONS) 2009–2023
FIGURE 21 PORTER'S FIVE FORCES ANALYSIS OF THE GLOBAL DIRECTED ENERGY WEAPON MARKET
FIGURE 22 SUPPLY CHAIN: GLOBAL DIRECTED ENERGY WEAPON MARKET
FIGURE 23 GLOBAL DIRECTED ENERGY WEAPON MARKET SHARE, BY TYPE, 2023 (% SHARE)
FIGURE 24 GLOBAL DIRECTED ENERGY WEAPON MARKET SHARE, BY COMPONENT, 2023 (% SHARE)
FIGURE 25 GLOBAL DIRECTED ENERGY WEAPON MARKET SHARE, BY APPLICATION, 2023 (% SHARE)
FIGURE 26 GLOBAL DIRECTED ENERGY WEAPON MARKET SHARE, BY REGION, 2023 (% SHARE)
FIGURE 27 NORTH AMERICA: DIRECTED ENERGY WEAPON MARKET SHARE, BY COUNTRY, 2023 (% SHARE)
FIGURE 28 EUROPE: DIRECTED ENERGY WEAPON MARKET SHARE, BY COUNTRY, 2023 (% SHARE)
FIGURE 29 ASIA-PACIFIC: DIRECTED ENERGY WEAPON MARKET SHARE, BY COUNTRY, 2023 (% SHARE)
FIGURE 30 MIDDLE EAST & AFRICA: DIRECTED ENERGY WEAPON MARKET SHARE, BY COUNTRY, 2023 (% SHARE)
FIGURE 31 LATIN AMERICA: DIRECTED ENERGY WEAPON MARKET SHARE, BY COUNTRY, 2023 (% SHARE)
FIGURE 32 COMPETITOR DASHBOARD: GLOBAL DIRECTED ENERGY WEAPON MARKET
FIGURE 33 CAPITAL MARKET RATIO AND FINANCIAL MATRIX
FIGURE 34 CONTRACTS & AGREEMENTS: THE MAJOR STRATEGY ADOPTED BY KEY PLAYERS IN THE GLOBAL DIRECTED ENERGY WEAPON MARKET
FIGURE 35 BENCHMARKING OF MAJOR COMPETITORS
FIGURE 36 MAJOR MANUFACTURERS MARKET SHARE ANALYSIS, 2023