

Military Robots Market Report by Platform (Land Robots, Marine Robots, Airborne Robots), Application (Intelligence, Surveillance and Reconnaissance (ISR), Search and Rescue, Combat Support, Transportation, EOD, Mine Clearance, Firefighting, and Others), Mode of Operation (Human Operated, Autonomous), and Region 2024-2032

<https://marketpublishers.com/r/M45F931F4B23EN.html>

Date: April 2024

Pages: 147

Price: US\$ 3,899.00 (Single User License)

ID: M45F931F4B23EN

Abstracts

The global military robots market size reached US\$ 19.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 46.3 Billion by 2032, exhibiting a growth rate (CAGR) of 10% during 2024-2032.

A military robot refers to a human-operated or automated mechanical device that is used for Intelligence, Surveillance and Reconnaissance (ISR) activities on land, water and air. The robots are specifically configured for military functions and are equipped with global positioning systems (GPS), Light Detection and Ranging (LIDAR) systems and fiber optics tethers to transform, receive and forward information to various endpoints. They are also used for operations involving search and rescue, combat support, transportation, mine clearance and firefighting. Some of the commonly used military robots, such as Unmanned Security Vehicles (USVs), are equipped with sensors, video and thermal cameras, microphones and two-way radios. They provide backup against heavy artillery and can also be used to rescue injured soldiers or troops from the battlefield.

Military Robots Market Trends:

The market is primarily being driven by an alarming increase in terrorism across the globe. In line with this, the growing requirement for efficient military robots that can

perform hazardous tasks and can be deployed in life-threatening situations to minimize the casualties of soldiers is further facilitating the demand for military robots. Significant advancements in robotics and automation technologies are acting as another major growth-inducing factor. For instance, the integration of artificial intelligence (AI) has enabled the production of military robots with advanced monitoring, targeting and information gathering systems.

Governments of both emerging and developed nations are investing significantly to improve their existing security infrastructure. Initiatives are continually being undertaken to equip air, marine and land forces with advanced security solutions, such as wheeled, tracked and legged robots, wearable robots, Remotely Operated Underwater Vehicles (ROVs) and Unmanned Combat Aerial Vehicle (UCAV). Other factors, including increasing investments in the defense sector and the implementation of various military modernization programs, are projected to drive the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global military robots market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on platform, application and mode of operation.

Breakup by Platform:

- Land Robots
 - Wheeled
 - Tracked
 - Legged
 - Wearable
- Marine Robots
 - Unmanned Surface Vehicles (USVs)
 - Autonomous Underwater Vehicles (AUVs)
 - Remotely Operated Underwater Vehicles (ROVs)
- Airborne Robots
 - Small UAV
 - Strategic UAV
 - Tactical UAV
 - Unmanned Combat Aerial Vehicle (UCAV)

Breakup by Application:

Intelligence, Surveillance and Reconnaissance (ISR)

Search and Rescue

Combat Support

Transportation

EOD

Mine Clearance

Firefighting

Others

Breakup by Mode of Operation:

Human Operated

Autonomous

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Bae Systems, Boston Dynamics, Cobham Plc, Elbit Systems Ltd., Endeavor Robotics (iRobot), General Dynamics Corporation, Lockheed Martin Corporation, Northrop Grumman Corporation, Qinetiq, Saab AB, etc.

Key Questions Answered in This Report

1. What was the size of the global military robots market in 2023?
2. What is the expected growth rate of the global military robots market during 2024-2032?
3. What are the key factors driving the global military robots market?
4. What has been the impact of COVID-19 on the global military robots market?
5. What is the breakup of the global military robots market based on the platform?
6. What is the breakup of the global military robots market based on the application?
7. What is the breakup of the global military robots market based on mode of operation?
8. What are the key regions in the global military robots market?
9. Who are the key players/companies in the global military robots market?

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