

Military Robots Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global military robots market size reached US\$ 17.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 33.0 Billion by 2028, exhibiting a growth rate (CAGR) of 11.35% during 2023-2028.

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 2023-2028. 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 2022?
2. What is the expected growth rate of the global military robots market during 2023-2028?
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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL MILITARY ROBOTS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PLATFORM

- 6.1 Land Robots
 - 6.1.1 Market Trends
 - 6.1.2 Major Types
 - 6.1.2.1 Wheeled
 - 6.1.2.2 Tracked
 - 6.1.2.3 Legged
 - 6.1.2.4 Wearable

- 6.1.3 Market Forecast
- 6.2 Marine Robots
 - 6.2.1 Market Trends
 - 6.2.2 Major Types
 - 6.2.2.1 Unmanned Surface Vehicles (USVs)
 - 6.2.2.2 Autonomous Underwater Vehicles (AUVs)
 - 6.2.2.3 Remotely Operated Underwater Vehicles (ROVs)
 - 6.2.3 Market Forecast
- 6.3 Airborne Robots
 - 6.3.1 Market Trends
 - 6.3.2 Major Types
 - 6.3.2.1 Small UAV
 - 6.3.2.2 Strategic UAV
 - 6.3.2.3 Tactical UAV
 - 6.3.2.4 Unmanned Combat Aerial Vehicle (UCAV)
 - 6.3.3 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Intelligence, Surveillance and Reconnaissance (ISR)
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Search and Rescue
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Combat Support
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Transportation
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 EOD
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 Mine Clearance
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 7.7 Firefighting
 - 7.7.1 Market Trends

- 7.7.2 Market Forecast
- 7.8 Others
 - 7.8.1 Market Trends
 - 7.8.2 Market Forecast

8 MARKET BREAKUP BY MODE OF OPERATION

- 8.1 Human Operated
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Autonomous
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast

- 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa

- 9.5.1 Market Trends
- 9.5.2 Market Breakup by Country
- 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

- 11.1 Overview
- 11.2 Inbound Logistics
- 11.3 Operations
- 11.4 Outbound Logistics
- 11.5 Marketing and Sales
- 11.6 Post Sales Services

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE INDICATORS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Bae Systems
 - 14.3.1.1 Company Overview

- 14.3.1.2 Product Portfolio
- 14.3.1.3 Financials
- 14.3.2 Boston Dynamics
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
- 14.3.3 Cobham Plc.
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
- 14.3.4 Elbit Systems Ltd.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
- 14.3.5 Endeavor Robotics (iRobot)
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
- 14.3.6 General Dynamics Corporation
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Lockheed Martin Corporation
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 Northrop Grumman Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Qinetiq
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
- 14.3.10 Saab AB
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Military Robots Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Military Robots Market Forecast: Breakup by Platform (in Million US\$), 2023-2028

Table 3: Global: Military Robots Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Military Robots Market Forecast: Breakup by Mode of Operation (in Million US\$), 2023-2028

Table 5: Global: Military Robots Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Military Robots Market: Competitive Structure

Table 7: Global: Military Robots Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Military Robots Market: Major Drivers and Challenges

Figure 2: Global: Military Robots Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Military Robots Market: Breakup by Platform (in %), 2022

Figure 4: Global: Military Robots Market: Breakup by Application (in %), 2022

Figure 5: Global: Military Robots Market: Breakup by Mode of Operation (in %), 2022

Figure 6: Global: Military Robots Market: Breakup by Region (in %), 2022

Figure 7: Global: Military Robots Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 8: Global: Military Robots (Land Robots) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Military Robots (Land Robots) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Military Robots (Marine Robots) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Military Robots (Marine Robots) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Military Robots (Airborne Robots) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Military Robots (Airborne Robots) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Military Robots (Intelligence, Surveillance and Reconnaissance-ISR) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Military Robots (Intelligence, Surveillance and Reconnaissance-ISR) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Military Robots (Search and Rescue) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Military Robots (Search and Rescue) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Military Robots (Combat Support) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Military Robots (Combat Support) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Military Robots (Transportation) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Military Robots (Transportation) Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 22: Global: Military Robots (EOD) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Military Robots (EOD) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Military Robots (Mine Clearance) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Military Robots (Mine Clearance) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Military Robots (Firefighting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Military Robots (Firefighting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Military Robots (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Military Robots (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Military Robots (Human Operated) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Military Robots (Human Operated) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Military Robots (Autonomous) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Military Robots (Autonomous) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: North America: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: North America: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: United States: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: United States: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Canada: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Canada: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Asia Pacific: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Asia Pacific: Military Robots Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 42: China: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: China: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 44: Japan: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Japan: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 46: India: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: India: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 48: South Korea: Military Robots Market: Sales Value (in Million US\$), 2017 &
2022

Figure 49: South Korea: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 50: Australia: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Australia: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 52: Indonesia: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Indonesia: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 54: Others: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Others: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 56: Europe: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Europe: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 58: Germany: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Germany: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 60: France: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: France: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 62: United Kingdom: Military Robots Market: Sales Value (in Million US\$), 2017
& 2022

Figure 63: United Kingdom: Military Robots Market Forecast: Sales Value (in Million
US\$), 2023-2028

Figure 64: Italy: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Italy: Military Robots Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 66: Spain: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Spain: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Russia: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Russia: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Others: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Others: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Latin America: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Latin America: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Brazil: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Brazil: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Mexico: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Mexico: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Others: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Others: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Middle East and Africa: Military Robots Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Middle East and Africa: Military Robots Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Global: Military Robots Industry: SWOT Analysis

Figure 83: Global: Military Robots Industry: Value Chain Analysis

Figure 84: Global: Military Robots Industry: Porter's Five Forces Analysis

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