

Military Robots and Autonomous Systems - Market and Technology Forecast to 2030

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Abstracts

The ongoing conflict in Ukraine has once again drawn the attention of military planners towards military robots and autonomous systems. Military robots are autonomous robots or remote-controlled mobile robots created for military functions, from transport to search & rescue and strike mission. Some of these robotic systems are presently in use, and several such robots are under development. These military robots and autonomous systems just rolling out or already in prototype stage are far more proficient, logical, and autonomous than ones now in Iraq and Afghanistan. As new additions are developed, military robots will be able to take on a wider set of battlefield roles. As of now the United States military remains the largest user of these robots, however countries like China and Russia are investing billions in robotics research and development that will allow them to narrow the gap with the US.

Market Forecast's latest report "Global Military Robots and Autonomous Systems - Market and Technology Forecast to 2030" examines, analyzes, and predicts the evolution of airborne military robot systems, technologies, markets, and outlays (expenditures) over the next 8 years – 2022 -2030 in the military robots and autonomous system industry. It also examines military robot markets geographically, focusing on the top 95% of global markets, in the United States, Europe, and Asia.

Throughout the report we show how military robots and autonomous systems are used today to add real value. To provide the most thorough and realistic forecast, this report provides a twin-scenario analysis, including "steady state", emergence of new military robot and autonomous system technology.

Scope

Overview: Snapshot of the various military robots and autonomous system tech in the defense market during 2022-2030, including highlights of the demand drivers, trends, and challenges. It also provides a snapshot of the spending with respect to regions as well as segments. It also sheds light on the emergence of new technologies

Market Dynamics: Insights into the technological developments in this market and a detailed analysis of the changing preferences of governments around the world. It also analyzes changing industry structure trends and the challenges faced by the industry participants.

Segment Analysis: Insights into the various Systems market from a segmental perspective and a detailed analysis of factors influencing the market for each segment.

Regional Review: Insights into modernization patterns and budgetary allocation for top countries within a region.

Regional Analysis: Insights into the Systems market from a regional perspective and a detailed analysis of factors influencing the market for each region.

Trend Analysis: Key military robots and autonomous system markets: Analysis of the key markets in each region, providing an analysis of the various Systems segments expected to be in demand in each region.

Key Program Analysis: Details of the top programs in each segment expected to be executed during the forecast period.

Competitive landscape Analysis: Analysis of competitive landscape of this industry. It provides an overview of key companies, together with insights such as key alliances, strategic initiatives, and a brief financial analysis.

Segmentation

In this report we have classified military robots and autonomous system industry under 5 major groups. We will research these six major groups and also provide forecast figures from 2022 -2030. These are:

Region

Americas

Europe

Asia

Middle East

Africa

Technology

Software Technologies

Computer Vision

Natural Language Processing

Edge Computing

Complex Event Process

Transfer Learning AI

Hardware Acceleration for AI

Reinforcement Learning

Generative Adversarial Networks (GANs)

Mixed Reality

Emotion research – affective computing

Hardware Technologies

Power Source

Actuation

Sensing

Manipulation

Locomotion

Environmental Interaction & Navigation

Human Robot Interaction

Control

Application

Intelligence, Surveillance and Reconnaissance (ISR)

Search and Rescue

Combat

Transportation

Explosive Ordnance Disposal

Mine Clearance

Firefighting

Others

Operation

Fully Autonomous

Semi-Autonomous

Platform

Land Based Platforms

Air Based Platforms

Sea Based Platforms

End User:

Army

Air Force

Navy

Reasons to buy

Determine prospective investment areas based on a detailed trend analysis of the Global Military Robots & Autonomous System Market over the next eight years

Gain in-depth understanding about the underlying factors driving demand for different systems segments in the top spending countries across the world and identify the opportunities offered by each of them

Strengthen your understanding of the market in terms of demand drivers, industry trends, and the latest technological developments, among others

Identify the major channels that are driving the global small sat business, providing a clear picture about future opportunities that can be tapped, resulting in revenue expansion

Channelize resources by focusing on the ongoing programs that are being undertaken by the ministries of different countries within the small sat market

Make correct business decisions based on thorough analysis of the total competitive landscape of the sector with detailed profiles of the top systems providers around the world which include information about their products, alliances, recent contract wins and financial analysis wherever available

Contents

1 INTRODUCTION

1.1 Scope

2 EXECUTIVE SUMMARY

2.1 Trends and Insights

2.2 Major Findings

2.3 Major Conclusions

2.4 Important Tables and Graphs

3 MARKET OVERVIEW

3.1 Introduction

3.2 Russia – Ukraine conflict of 2022 and the use of military robots and autonomous systems

4 TECHNOLOGIES AND DEVELOPMENTS

4.1 Technology overview

4.1.1 Autonomy in Aerial Vehicles

4.1.2 Autonomy in Ground Vehicles

4.1.3 Autonomy in Underwater Vehicles

4.1.4 Autonomy in Maritime Surface Vehicles

4.1.5 Unmanned Spacecraft

4.2 Avionics

4.2.1 Flight Controls

4.2.2 Air data computers

4.2.3 Autopilots/flight control computers

4.3 Navigation

4.3.1 Global Positioning Systems (GPS) / Global Navigation Satellite systems (GNSS)

4.3.2 Inertial navigation systems (INS)/inertial measurement units (IMU)

4.3.3 Sense & Avoid

4.4 Sensors

4.4.1 Speed Sensors

4.4.2 Light Sensors

4.4.3 Proximity Sensors

- 4.4.4 Temperature Sensors
- 4.4.5 Position Sensors
- 4.4.6 Communication devices
- 4.4.7 Proprioceptive Sensors
- 4.4.8 Exteroceptive Sensors
- 4.4.9 Acoustic Sensors
- 4.5 Propulsion
 - 4.5.1 Gas engine
 - 4.5.2 Electric engine
 - 4.5.3 Batteries
 - 4.5.4 Hydrogen Cells
- 4.6 Payload
 - 4.6.1 Cameras
 - 4.6.2 Radars
 - 4.6.3 Lidars
 - 4.6.4 Gimbals
 - 4.6.5 Datalink
 - 4.6.6 Ground control station
 - 4.6.7 Autonomous Manipulation
- 4.7 Autonomous Systems: Testing, Validation and Certification

5 MARKET ANALYSIS AND FORECAST FACTORS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Trends
- 5.4 Opportunities
- 5.5 Challenges
- 5.6 Important events in the market

6 MARKET SEGMENTATION

7 REGION MARKET FORECAST TO 2030

- 7.1 Introduction
- 7.2 Military Robots and Autonomous Systems market by Region overview
 - 7.2.1 Americas - Military Robots & Autonomous Systems Market
 - 7.2.2 Europe - Military Robots & Autonomous Systems Market
 - 7.2.3 Asia - Military Robots & Autonomous Systems Market

7.2.4 Middle East - Military Robots & Autonomous Systems Market

7.2.5 Africa - Military Robots & Autonomous Systems Market

8 TECHNOLOGY MARKET FORECAST TO 2030

8.1 Introduction

8.2 Military Robots & Autonomous Systems market by Technology overview – Software

8.2.1 Computer Vision Military Robots & Autonomous Systems Market

8.2.2 Natural Language Processing Military Robots & Autonomous Systems Market

8.2.3 Edge Computing Military Robots & Autonomous Systems Market

8.2.4 Complex Event Process Military Robots & Autonomous Systems Market

8.2.5 Transfer Learning AI Military Robots & Autonomous Systems Market

8.2.6 Hardware Acceleration for AI Military Robots & Autonomous Systems Market

8.2.7 Reinforcement Learning Military Robots & Autonomous Systems Market

8.2.8 Generative Adversarial Networks Military Robots & Autonomous Systems Market

8.2.9 Mixed Reality Military Robots & Autonomous Systems Market

8.2.10 Emotion research – affective computing Military Robots & Autonomous Systems Market

8.3 Military Robots & Autonomous Systems market by Technology overview – Hardware

8.3.1 Power Source Military Robots & Autonomous Systems Market

8.3.2 Actuation Military Robots & Autonomous Systems Market

8.3.3 Sensing Military Robots & Autonomous Systems Market

8.3.4 Manipulation Military Robots & Autonomous Systems Market

8.3.5 Locomotion Military Robots & Autonomous Systems Market

8.3.6 Environmental Interaction & Navigation Military Robots & Autonomous Systems Market

8.3.7 Human-Robot Interaction Military Robots & Autonomous Systems Market

8.3.8 Control Military Robots & Autonomous Systems Market

9 APPLICATION MARKET FORECAST TO 2030

9.1 Introduction

9.2 Military Robots & Autonomous Systems market by Application overview

9.2.1 Intelligence, Surveillance and Reconnaissance Military Robots & Autonomous Systems Market

9.2.2 Search and Rescue Military Robots & Autonomous Systems Market

9.2.3 Combat Military Robots & Autonomous Systems Market

9.2.4 Transportation Military Robots & Autonomous Systems Market

9.2.5 Explosive Ordnance Disposal Military Robots & Autonomous Systems Market

- 9.2.6 Mine Clearance Military Robots & Autonomous Systems Market
- 9.2.7 Firefighting Military Robots & Autonomous Systems Market
- 9.2.8 Others Military Robots & Autonomous Systems Market

10 OPERATION MARKET FORECAST TO 2030

- 10.1 Introduction
- 10.2 Military Robots & Autonomous Systems market by Operation overview
 - 10.2.1 Fully Autonomous Military Robots & Autonomous Systems Market
 - 10.2.2 Semi-Autonomous Military Robots & Autonomous Systems Market

11 PLATFORM MARKET FORECAST TO 2030

- 11.1 Introduction
- 11.2 Military Robots and Autonomous Systems market by Platform overview
 - 11.2.1 Land based Platform Military Robots & Autonomous Systems Market
 - 11.2.2 Air based Platform Military Robots & Autonomous Systems Market
 - 11.2.3 Sea based Platform Military Robots & Autonomous Systems Market

12 END-USER MARKET FORECAST TO 2030

- 12.1 Introduction
- 12.2 Military Robots and Autonomous Systems market by End-Use overview
 - 12.2.1 Army Military Robots & Autonomous Systems Market
 - 12.2.2 Air Force Military Robots & Autonomous Systems Market
 - 12.2.3 Navy Military Robots & Autonomous Systems Market

13 EVENT FORECAST TO 2030

- 13.1 Introduction
- 13.2 Military Robots and Autonomous Systems market – Event Forecast overview
 - 13.2.1 Region Military Robots & Autonomous Systems Market
 - 13.2.2 Software Technology Military Robots & Autonomous Systems Market
 - 13.2.3 Hardware Technology Military Robots & Autonomous Systems Market
 - 13.2.4 Application Military Robots & Autonomous Systems Market
 - 13.2.5 Operation Military Robots & Autonomous Systems Market
 - 13.2.6 Platform Military Robots & Autonomous Systems Market
 - 13.2.7 End User Military Robots & Autonomous Systems Market

14 OPPORTUNITY ANALYSIS

- 14.1 Introduction
- 14.2 Region: Opportunity Analysis
- 14.3 Technology: Opportunity Analysis
- 14.4 Application: Opportunity Analysis
- 14.5 Operation: Opportunity Analysis
- 14.6 Platform: Opportunity Analysis

15 LEADING COMPANIES

- 15.1 Introduction
- 15.2 Airbus
 - 15.2.1 Company profile
 - 15.2.2 Segment Revenue
 - 15.2.3 Financial info (revenues, profit last 5 years)
 - 15.2.4 Recent contract wins
 - 15.2.5 Recent Projects completed
 - 15.2.6 Strategic Alliances
 - 15.2.7 SWOT Analysis
- 15.3 BAE Systems
 - 15.3.1 Company profile
 - 15.3.2 Segment Revenue
 - 15.3.3 Financial info (revenues, profit last 5 years)
 - 15.3.4 Recent contract wins
 - 15.3.5 Recent Projects completed
 - 15.3.6 Strategic Alliances
 - 15.3.7 SWOT Analysis
- 15.4 Boeing
 - 15.4.1 Company profile
 - 15.4.2 Segment Revenue
 - 15.4.3 Financial info (revenues, profit last 5 years)
 - 15.4.4 Recent contract wins
 - 15.4.5 Recent Projects completed
 - 15.4.6 Strategic Alliances
 - 15.4.7 SWOT Analysis
- 15.5 Israel Aerospace Industries (IAI)
 - 15.5.1 Company profile
 - 15.5.2 Segment Revenue

- 15.5.3 Financial info (revenues, profit last 5 years)
- 15.5.4 Recent contract wins
- 15.5.5 Recent Projects completed
- 15.5.6 Strategic Alliances
- 15.5.7 SWOT Analysis
- 15.6 Leonardo
 - 15.6.1 Company profile
 - 15.6.2 Segment Revenue
 - 15.6.3 Financial info (revenues, profit last 5 years)
 - 15.6.4 Recent contract wins
 - 15.6.5 Recent Projects completed
 - 15.6.6 Strategic Alliances
 - 15.6.7 SWOT Analysis
- 15.7 Northrop Grumman Corp.
 - 15.7.1 Company profile
 - 15.7.2 Segment Revenue
 - 15.7.3 Financial info (revenues, profit last 5 years)
 - 15.7.4 Recent contract wins
 - 15.7.5 Recent Projects completed
 - 15.7.6 Strategic Alliances
 - 15.7.7 SWOT Analysis
- 15.8 Raytheon
 - 15.8.1 Company profile
 - 15.8.2 Segment Revenue
 - 15.8.3 Financial info (revenues, profit last 5 years)
 - 15.8.4 Recent contract wins
 - 15.8.5 Recent Projects completed
 - 15.8.6 Strategic Alliances
 - 15.8.7 SWOT Analysis
- 15.9 Safran
 - 15.9.1 Company profile
 - 15.9.2 Segment Revenue
 - 15.9.3 Financial info (revenues, profit last 5 years)
 - 15.9.4 Recent contract wins
 - 15.9.5 Recent Projects completed
 - 15.9.6 Strategic Alliances
 - 15.9.7 SWOT Analysis
- 15.10 Thales
 - 15.10.1 Company profile

- 15.10.2 Segment Revenue
- 15.10.3 Financial info (revenues, profit last 5 years)
- 15.10.4 Recent contract wins
- 15.10.5 Recent Projects completed
- 15.10.6 Strategic Alliances
- 15.10.7 SWOT Analysis
- 15.11 Other Companies of Interest
 - 15.11.1 Apium Swarm Robotics
 - 15.11.2 Axon AI
 - 15.11.3 Bosch Group
 - 15.11.4 Brainalyzed
 - 15.11.5 Continental AG
 - 15.11.6 DoBots
 - 15.11.7 Hydromea S A
 - 15.11.8 Lexalytics
 - 15.11.9 Nvidia
 - 15.11.1 Resson
 - 15.11.1 Sentien Robotics
 - 15.11.1 SpaceX

16 RESULTS AND CONCLUSIONS

- 16.1 Conclusions
- 16.2 Recommendations

17 ABOUT MARKET FORECAST

- 17.1 General
- 17.2 Contact us
- 17.3 Disclaimer
- 17.4 License
- Appendix A: Companies Mentioned
- Appendix B: Abbreviations

List Of Figures

LIST OF FIGURES

Figure 1: Ukrainian autonomous surface vessel targeting a Russian frigate

Figure 2: Blood Wing drone and robot

Figure 3: Overview Military Robots & Autonomous Systems Market by Region [US\$ bn]

Figure 4: Military Robots & Autonomous Systems Market Forecast to 2030 by Region [%]

Figure 5: Military Robots & Autonomous Systems Market Forecast to 2030 by Technology [US\$ bn]

Figure 6: Overview Military Robots & Autonomous Systems Market by Technology - Software [US\$ bn]

Figure 7: Overview Military Robots & Autonomous Systems Market by Technology - Hardware [US\$ bn]

Figure 8: Military Robots & Autonomous Systems Market Forecast to 2030 by Application [US\$ bn]

Figure 9: Overview Military Robots & Autonomous Systems Market by Operation [US\$ bn]

Figure 10: Overview Military Robots & Autonomous Systems Market by Platform [US\$ bn]

Figure 11: Overview Military Robots & Autonomous Systems Market by End User [US\$ bn]

Figure 12: Region Analysis

Figure 13: Drone Flight Autonomy Level as of 2022

Figure 14: DJI Matrice

Figure 15: Autonomous Vehicle Control Kit

Figure 16: Autonomous Ground Vehicle - Components & Systems

Figure 17: GPU-CPU Superchip

Figure 18: REMUS 100 AUV

Figure 19: Knifefish AUV

Figure 20: Waveglider AUV

Figure 21: Navigation & Flight Control in drones

Figure 22: Autopilot for drones

Figure 23: AAV Transponder

Figure 24: Integrated data link system

Figure 25: Acoustic Sensor

Figure 26: Autonomous Aerial Vehicle - Propulsion

Figure 27: Comparison between lithium batteries, fuel cells, and solar cells

characteristics

Figure 28: Hydrogen Fuel Cell Technology

Figure 29: Different types of Gimbals

Figure 30: Autonomous Vehicles - Validation

Figure 31: Safety regulations for autonomous vehicles

Figure 32: Powered Exoskeleton

Figure 33: Ukrainian robot tank Phantom

Figure 34: Cheetah 3 robot

Figure 35: Region Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 36: Region Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 37: Americas - Military Robots & Autonomous Systems Market Forecast to 2030

Figure 38: Europe - Military Robots & Autonomous Systems Market Forecast to 2030

Figure 39: Asia - Military Robots & Autonomous Systems Market Forecast to 2030

Figure 40: Middle East - Military Robots & Autonomous Systems Market Forecast to 2030

Figure 41: Africa - Military Robots & Autonomous Systems Market Forecast to 2030

Figure 42: Technology Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 43: Overview Military Robots & Autonomous Systems Market by Technology
[US\$ bn]

Figure 44: Software Technology Military Robots & Autonomous Systems Market
Forecast to 2030 [US\$ bn]

Figure 45: Hardware Technology Military Robots & Autonomous Systems Market
Forecast to 2030 [US\$ bn]

Figure 46: Hardware Technology Total: Military Robots & Autonomous Systems Market
Forecast to 2030 [US\$ bn]

Figure 47: Application Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 48: Operation Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 49: Platform Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 50: End User Military Robots & Autonomous Systems Market Forecast to 2030
[US\$ bn]

Figure 51: Region Military Robots & Autonomous Systems [US\$ Bn] – 2022-2030

Figure 52: Hardware Technology Military Robots & Autonomous System [US\$ Bn] –
2022-2030

Figure 53: Application Military Robots & Autonomous System [US\$ Bn] – 2022-2030

Figure 54: Operation Military Robots & Autonomous Systems Market [US\$ Bn] – 2022-2030

Figure 55: Platform Military Robots & Autonomous Systems Market [US\$ Bn] – 2022-2030

Figure 56: End User Military Robots & Autonomous Systems Market [US\$ Bn] – 2022-2030

Figure 57: Factors determining success of Opportunity Analysis

Figure 58: Region: Military Robots & Autonomous Systems CAGR growth 2022 - 2030

Figure 59: Software Technology: Military Robots & Autonomous Systems CAGR growth 2022 - 2030

Figure 60: Hardware Technology: Military Robots & Autonomous Systems CAGR growth 2022 - 2030

Figure 61: Robotic mule

Figure 62: Application: Military Robots & Autonomous Systems CAGR growth 2022 - 2030

Figure 63: Operation: Military Robots & Autonomous Systems CAGR growth 2022 - 2030

Figure 64: Platform: Military Robots & Autonomous Systems CAGR growth 2022 - 2030

Figure 65: Airbus Segment Revenue 2021 (%)

Figure 66: Airbus Revenue 2017-2021 (US\$ billion)

Figure 67: Airbus Profit: 2017 - 2021 (US\$ billion)

Figure 68: Airbus - Financial Information 2017-2021 (US\$ billion)

Figure 69: BAE Segment Revenue in 2021 (%)

Figure 70: BAE Total Revenue: 2017 - 2021 (US\$ billion)

Figure 71: BAE Profit: 2017 - 2021 (US\$ billion)

Figure 72: BAE Systems - Financial Information 2017 – 2021 (US\$ billion)

Figure 73: Boeing Segment Revenue in 2021 (%)

Figure 74: Boeing – Total Revenue 2017-2021 (US\$ billion)

Figure 75: Boeing: Profit - 2017-2021 (US\$ billion)

Figure 76: The Boeing Company Financial Information 2017-2021 (US\$ billion)

Figure 77: IAI Segment Revenue 2021 (%)

Figure 78: IAI - Total Revenue 2017-2021 (US\$ billion)

Figure 79: IAI- Profit 2017-2021 (US\$ billion)

Figure 80: IAI - Financial Information 2017-2021 (US\$ billion)

Figure 81: Leonardo Segment Revenue 2021 (%)

Figure 82: Leonardo – Total Revenue 2017 - 2021 (US\$ billion)

Figure 83: Leonardo – Profit 2017 - 2021 (US\$ billion)

Figure 84: Leonardo Financial Information 2017-2021 (US\$ billion)

- Figure 85: Northrop Grumman Segment Revenue 2021 (%)
- Figure 86: Northrop Grumman - Total Revenue 2017 - 2021 (US\$ billion)
- Figure 87: Northrop Grumman - Profit 2017 - 2021 (US\$ billion)
- Figure 88: Northrop Grumman Financial Information 2017 - 2021 (US\$ billion)
- Figure 89: Raytheon Segment Revenue in 2021 (%)
- Figure 90: Raytheon Total Revenue 2017-2021 (US\$ billion)
- Figure 91: Raytheon Profit 2017-2021 (US\$ billion)
- Figure 92: Raytheon Financial Information 2017-2021 (US\$ billion)
- Figure 93: Safran Net Profit by Segment in 2021 (%)
- Figure 94: Safran - Total Revenue 2017-2021 (US\$ billion)
- Figure 95: Safran - Profit - 2017-2021 (US\$ billion)
- Figure 96: Safran Financial Information 2017-2021 (US\$ billion)
- Figure 97: Thales – Sales by Business Segments in 2021 (%)
- Figure 98: THALES – Total Revenue- 2017-2021 (US\$ billion)
- Figure 99: THALES - Profit - 2017-2021 (US\$ billion)
- Figure 100: THALES Financial Information 2017-2021 (US\$ billion)
- Figure 101: ProViu®ASL360
- Figure 102: Hive system
- Figure 103: Falcon H rocket
- Figure 104: Revenue split for autonomous vehicles technology product vendors

List Of Tables

LIST OF TABLES

Table 1: Military Robots & Autonomous Systems Market Forecast to 2030 by Region [US\$ bn]

Table 2: Military Robots & Autonomous Systems Market Forecast to 2030 by Technology -Software [US\$ bn]

Table 3: Military Robots & Autonomous Systems Market Forecast to 2030 by Technology - Hardware [US\$ bn]

Table 4: Military Robots & Autonomous Systems Market Forecast to 2030 by Application [US\$ bn]

Table 5: Military Robots & Autonomous Systems Market Forecast to 2030 by Operation [US\$ bn]

Table 6: Military Robots & Autonomous Systems Market Forecast to 2030 by Platform [US\$ bn]

Table 7: Military Robots & Autonomous Systems Market Forecast to 2030 by End User [US\$ bn]

Table 8: Autonomous System Type Globally [US\$ Bn] – 2022 - 2030

Table 9: ST-35 Silent Thunder

Table 10: Homing Missile vs Loitering Munition

Table 11: Classification of Sensors Used in Autonomous Systems

Table 12: Class III UAVs that can be automated using AI

Table 13: Major military drone projects in Europe

Table 14: Number of Military Robots & Autonomous Systems - Americas

Table 15: Number of Military Robots & Autonomous Systems - Europe

Table 16: Number of Military Robots & Autonomous Systems - Asia

Table 17: Number of Military Robots & Autonomous Systems - Middle East

Table 18: Number of Military Robots & Autonomous Systems - Africa

Table 19: Region Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 20: Americas - Military Robots & Autonomous Systems Market Forecast to 2030

Table 21: Europe - Military Robots & Autonomous Systems Market Forecast to 2030

Table 22: Asia - Military Robots & Autonomous Systems Market Forecast to 2030

Table 23: Middle East - Military Robots & Autonomous Systems Market Forecast to 2030

Table 24: Africa - Military Robots & Autonomous Systems Market Forecast to 2030

Table 25: Software Technology Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 26: Computer Vision Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 27: Natural Language Processing Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 28: Edge Computing Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 29: Complex Event Process Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 30: Transfer Learning AI Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 31: Hardware Acceleration Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 32: Reinforcement Learning Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 33: Generative Adversarial Networks Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 34: Mixed Reality Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 35: Emotion Research – Affective Computing Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 36: Hardware Technology Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 37: Power Source Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 38: Actuation Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 39: Sensing Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 40: Manipulation Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 41: Locomotion Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 42: Environmental Interaction Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 43: Human Robot Interaction Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 44: Control Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 45: Application Military Robots & Autonomous Systems Market Forecast to 2030

[US\$ bn]

Table 46: Intelligence, Surveillance and Reconnaissance Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 47: Search & Rescue Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 48: Combat Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 49: Transportation Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 50: Explosive Ordnance Disposal Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 51: Mine Clearance Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 52: Firefighting Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 53: Others Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 54: Operation Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 55: Fully Autonomous Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 56: Semi-Autonomous Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 57: Platform Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 58: Land based Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 59: Air based Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 60: Sea based Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 61: End User Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 62: Army Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 63: Air Force Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 64: Navy Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 65: Region Military Robots & Autonomous Systems [US\$ Bn] – 2022-2030

Table 66: Software Technology Military Robots & Autonomous System [US\$ Bn] – 2022-2030

Table 67: Hardware Technology Military Robots & Autonomous System [US\$ Bn] – 2022-2030

Table 68: Application Military Robots & Autonomous System [US\$ Bn] – 2022-2030

Table 69: Operation Military Robots & Autonomous Systems Market [US\$ Bn] – 2022-2030

Table 70: Platform Military Robots & Autonomous Systems Market [US\$ Bn] – 2022-2030

Table 71: End User Military Robots & Autonomous Systems Market [US\$ Bn] – 2022-2030

Table 72: Region: Military Robots & Autonomous Systems [US\$ Bn] – 2022- 2030

Table 73: Technology: Military Robots & Autonomous Systems [US\$ Bn] – 2022- 2030

Table 74: Software Technology Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 75: Hardware Technology Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 76: Military Robots & Autonomous Systems Market Forecast to 2030 by Application [US\$ bn]

Table 77: Operation Military Robots & Autonomous Systems Market Forecast to 2030 [US\$ bn]

Table 77: Military Robots & Autonomous Systems Market Forecast to 2030 by Platform [US\$ bn]

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