

Global Swarm Robotics Market Size study & Forecast, by Platform (Unmanned Ground Vehicles (UGV), Unmanned Aerial Vehicles (UAV), Others) By Application (Security Inspection & Monitoring, Mapping & Surveying, Search & Rescue, Warehouse Management, Others) By End Use (Military & Defense, Agriculture, Manufacturing, Healthcare, Logistics & Transportation, Others) and Regional Analysis, 2023-2030

https://marketpublishers.com/r/G563D9EA39CAEN.html

Date: February 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G563D9EA39CAEN

Abstracts

Global Swarm Robotics Market is valued approximately at USD 635 million in 2022 and is anticipated to grow with a healthy growth rate of more than 25% over the forecast period 2023-2030. Swarm Robotics Swarm robotics is a field of robotics that studies how a group of relatively simple robots can work together to achieve complex tasks. It is inspired by the collective behavior of social insects, such as ants and bees, which can perform amazing feats without any central control. The Swarm Robotics market is expanding because of factors such as rising warehouse automation and growing demand for agriculture robots. As a result, the demand of Swarm Robotics has progressively increased in the international market during the forecast period 2023-2030.

Warehouses are dynamic environments with constantly changing layouts and inventory. Swarm robotics systems excel in adaptability, as they can autonomously adjust their behaviors based on real-time data and environmental changes. This flexibility is valuable in warehouse automation where tasks could vary, and robots need to work together to handle unforeseen situations. According to the Statista, in 2023, the global



warehouse automation market accounts USD 23 billion and projected to increase at a CAGR of almost 15% reaching up to USD 41 billion by the year 2027. Another important factor drives the Swarm Robotics market is increasing demand for agriculture robots. Agriculture robots, including swarm robotics, are designed to perform various tasks in the agricultural field, such as planting, monitoring, harvesting, and pest control. Swarm robotics can enhance the efficiency of these operations by deploying multiple robots working collaboratively. This simultaneous and coordinated approach allows for quicker and more precise completion of tasks, ultimately leading to increased overall efficiency in farming operations. In addition, as per Statista, the global agricultural robot's industry is anticipated to reach USD 30.5 billion by the year 2032. Moreover, rising integration of robotics in airlines and technological advancements in Swarm Robotics is anticipated to create a lucrative growth opportunity for the market growth over the forecast period. However, scalability issues and limited real-world testing is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Swarm Robotics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the increasing demand for route analytics and automation in retail e-commerce in the region. Swarm robots equipped with sensors and analytics capabilities can contribute to dynamic inventory management. They can constantly monitor stock levels, track product movements, and update inventory data in real-time. This ensures accurate stock information, minimizes errors, and helps in preventing stockouts or overstock situations. The region's dominant performance is anticipated to propel the overall demand of Swarm Robotics. Furthermore, Asia Pacific is expected to grow at a fastest CAGR during the forecast period, owing to factors such as increasing demand for precision agriculture in the region. Precision agriculture relies heavily on data collection and monitoring to make informed decisions. Swarm robotics can be equipped with various sensors and imaging devices to collect real-time data on soil conditions, crop health, and other relevant parameters. This data can be used to optimize farming practices and enhance overall productivity.

Major market player included in this report are:

Hydromea SA

Boston Dynamics Inc



Swarmfarm robotics pty ltd Swarm Technologies, Inc. Sentinen Robotics Inc Berkeley Marine Robotics Inc Swisslog Holding AG **Dobot Robotics** Unanimous Al Inc Axon Enterprise, Inc Recent Developments in the Market: In September 2022, FARobot, the swarm robotics pioneer for enterprise robotics automation, has introduced Swarm Autonomy, a new type of software platform for autonomous intralogistics operations. The company claimed that their platform is going to become the go-to software for factories and warehouses due to its emphasis on Agile Collaboration. Global Swarm Robotics Market Report Scope: Historical Data - 2020 - 2021 Base Year for Estimation – 2022 Forecast period - 2023-2030 Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends Segments Covered - Platform, Application, End Use, Region

Global Swarm Robotics Market Size study & Forecast, by Platform (Unmanned Ground Vehicles (UGV), Unmanned Aeri...

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle



East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Platform

Unmanned Ground Vehicles (UGV)

Unmanned Aerial Vehicles (UAV)

Others

By Application

Security Inspection & Monitoring

Mapping & Surveying

Search & Rescue

Warehouse Management

Others

By End Use



Military & Defense
Agriculture
Manufacturing
Healthcare
Logistics & Transportation
Others
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
Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa



Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Million)
 - 1.2.1. Swarm Robotics Market, by region, 2020-2030 (USD Million)
 - 1.2.2. Swarm Robotics Market, by Platform, 2020-2030 (USD Million)
 - 1.2.3. Swarm Robotics Market, by Application, 2020-2030 (USD Million)
 - 1.2.4. Swarm Robotics Market, by End Use, 2020-2030 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL SWARM ROBOTICS MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL SWARM ROBOTICS MARKET DYNAMICS

- 3.1. Swarm Robotics Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising warehouse automation
 - 3.1.1.2. Growing demand for agriculture robots
 - 3.1.2. Market Challenges
 - 3.1.2.1. Scalability issues
 - 3.1.2.2. Limited real-world testing
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Rising integration of robotics in airlines
 - 3.1.3.2. Technological advancements in Swarm Robotics

CHAPTER 4. GLOBAL SWARM ROBOTICS MARKET: INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model



- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
- 4.3.2. Economic
- 4.3.3. Social
- 4.3.4. Technological
- 4.3.5. Environmental
- 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SWARM ROBOTICS MARKET, BY PLATFORM

- 5.1. Market Snapshot
- 5.2. Global Swarm Robotics Market by Platform, Performance Potential Analysis
- 5.3. Global Swarm Robotics Market Estimates & Forecasts by Platform 2020-2030 (USD Million)
- 5.4. Swarm Robotics Market, Sub Segment Analysis
 - 5.4.1. Unmanned Ground Vehicles (UGV)
 - 5.4.2. Unmanned Aerial Vehicles (UAV)
 - 5.4.3. Others

CHAPTER 6. GLOBAL SWARM ROBOTICS MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Swarm Robotics Market by Application, Performance Potential Analysis
- 6.3. Global Swarm Robotics Market Estimates & Forecasts by Application 2020-2030 (USD Million)
- 6.4. Swarm Robotics Market, Sub Segment Analysis
 - 6.4.1. Security Inspection & Monitoring



- 6.4.2. Mapping & Surveying
- 6.4.3. Search & Rescue
- 6.4.4. Warehouse Management
- 6.4.5. Others

CHAPTER 7. GLOBAL SWARM ROBOTICS MARKET, BY END USE

- 7.1. Market Snapshot
- 7.2. Global Swarm Robotics Market by End Use, Performance Potential Analysis
- 7.3. Global Swarm Robotics Market Estimates & Forecasts by End Use 2020-2030 (USD Million)
- 7.4. Swarm Robotics Market, Sub Segment Analysis
 - 7.4.1. Military & Defense
 - 7.4.2. Agriculture
 - 7.4.3. Manufacturing
 - 7.4.4. Healthcare
 - 7.4.5. Logistics & Transportation
 - 7.4.6. Others

CHAPTER 8. GLOBAL SWARM ROBOTICS MARKET, REGIONAL ANALYSIS

- 8.1. Top Leading Countries
- 8.2. Top Emerging Countries
- 8.3. Swarm Robotics Market, Regional Market Snapshot
- 8.4. North America Swarm Robotics Market
 - 8.4.1. U.S. Swarm Robotics Market
 - 8.4.1.1. Platform breakdown estimates & forecasts, 2020-2030
 - 8.4.1.2. Application breakdown estimates & forecasts, 2020-2030
 - 8.4.1.3. End Use breakdown estimates & forecasts, 2020-2030
 - 8.4.2. Canada Swarm Robotics Market
- 8.5. Europe Swarm Robotics Market Snapshot
 - 8.5.1. U.K. Swarm Robotics Market
 - 8.5.2. Germany Swarm Robotics Market
 - 8.5.3. France Swarm Robotics Market
 - 8.5.4. Spain Swarm Robotics Market
 - 8.5.5. Italy Swarm Robotics Market
 - 8.5.6. Rest of Europe Swarm Robotics Market
- 8.6. Asia-Pacific Swarm Robotics Market Snapshot
- 8.6.1. China Swarm Robotics Market



- 8.6.2. India Swarm Robotics Market
- 8.6.3. Japan Swarm Robotics Market
- 8.6.4. Australia Swarm Robotics Market
- 8.6.5. South Korea Swarm Robotics Market
- 8.6.6. Rest of Asia Pacific Swarm Robotics Market
- 8.7. Latin America Swarm Robotics Market Snapshot
 - 8.7.1. Brazil Swarm Robotics Market
 - 8.7.2. Mexico Swarm Robotics Market
- 8.8. Middle East & Africa Swarm Robotics Market
 - 8.8.1. Saudi Arabia Swarm Robotics Market
 - 8.8.2. South Africa Swarm Robotics Market
 - 8.8.3. Rest of Middle East & Africa Swarm Robotics Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Hydromea SA
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Recent Developments
 - 9.3.2. Boston Dynamics Inc
 - 9.3.3. Swarmfarm robotics pty ltd
 - 9.3.4. Swarm Technologies, Inc.
 - 9.3.5. Sentinen Robotics Inc
 - 9.3.6. Berkeley Marine Robotics Inc
 - 9.3.7. Swisslog Holding AG
 - 9.3.8. Dobot Robotics
 - 9.3.9. Unanimous Al Inc
 - 9.3.10. Axon Enterprise, Inc.

CHAPTER 10. RESEARCH PROCESS



- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes
- 10.3. Research Assumption



List Of Tables

LIST OF TABLES

TABLE 1. Global Swarm Robotics Market, report scope

TABLE 2. Global Swarm Robotics Market estimates & forecasts by Region 2020-2030 (USD Million)

TABLE 3. Global Swarm Robotics Market estimates & forecasts by Platform 2020-2030 (USD Million)

TABLE 4. Global Swarm Robotics Market estimates & forecasts by Application 2020-2030 (USD Million)

TABLE 5. Global Swarm Robotics Market estimates & forecasts by End Use 2020-2030 (USD Million)

TABLE 6. Global Swarm Robotics Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 7. Global Swarm Robotics Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 8. Global Swarm Robotics Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 9. Global Swarm Robotics Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 10. Global Swarm Robotics Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 11. Global Swarm Robotics Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 12. Global Swarm Robotics Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 13. Global Swarm Robotics Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 14. Global Swarm Robotics Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 15. Global Swarm Robotics Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 16. U.S. Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 17. U.S. Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 18. U.S. Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)



- TABLE 19. Canada Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 20. Canada Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 21. Canada Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 22. UK Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 23. UK Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 24. UK Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 25. Germany Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 26. Germany Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 27. Germany Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 28. France Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 29. France Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 30. France Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 31. Italy Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 32. Italy Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 33. Italy Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 34. Spain Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 35. Spain Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 36. Spain Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 37. RoE Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 38. RoE Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)



- TABLE 39. RoE Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 40. China Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 41. China Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 42. China Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 43. India Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 44. India Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 45. India Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 46. Japan Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 47. Japan Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 48. Japan Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 49. South Korea Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 50. South Korea Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 51. South Korea Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 52. Australia Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 53. Australia Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 54. Australia Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 55. RoAPAC Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 56. RoAPAC Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 57. RoAPAC Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 58. Brazil Swarm Robotics Market estimates & forecasts, 2020-2030 (USD



Million)

TABLE 59. Brazil Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 60. Brazil Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 61. Mexico Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 62. Mexico Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 63. Mexico Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 64. RoLA Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 65. RoLA Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 66. RoLA Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 67. Saudi Arabia Swarm Robotics Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 68. South Africa Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 69. RoMEA Swarm Robotics Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 70. List of secondary sources, used in the study of global Swarm Robotics Market

TABLE 71. List of primary sources, used in the study of global Swarm Robotics Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable



List Of Figures

LIST OF FIGURES

- FIG 1. Global Swarm Robotics Market, research methodology
- FIG 2. Global Swarm Robotics Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Swarm Robotics Market, key trends 2022
- FIG 5. Global Swarm Robotics Market, growth prospects 2023-2030
- FIG 6. Global Swarm Robotics Market, porters 5 force model
- FIG 7. Global Swarm Robotics Market, pest analysis
- FIG 8. Global Swarm Robotics Market, value chain analysis
- FIG 9. Global Swarm Robotics Market by segment, 2020 & 2030 (USD Million)
- FIG 10. Global Swarm Robotics Market by segment, 2020 & 2030 (USD Million)
- FIG 11. Global Swarm Robotics Market by segment, 2020 & 2030 (USD Million)
- FIG 12. Global Swarm Robotics Market by segment, 2020 & 2030 (USD Million)
- FIG 13. Global Swarm Robotics Market by segment, 2020 & 2030 (USD Million)
- FIG 14. Global Swarm Robotics Market, regional snapshot 2020 & 2030
- FIG 15. North America Swarm Robotics Market 2020 & 2030 (USD Million)
- FIG 16. Europe Swarm Robotics Market 2020 & 2030 (USD Million)
- FIG 17. Asia pacific Swarm Robotics Market 2020 & 2030 (USD Million)
- FIG 18. Latin America Swarm Robotics Market 2020 & 2030 (USD Million)
- FIG 19. Middle East & Africa Swarm Robotics Market 2020 & 2030 (USD Million)

List of tables and figures and dummy in nature, final lists may vary in the final deliverable



I would like to order

Product name: Global Swarm Robotics Market Size study & Forecast, by Platform (Unmanned Ground

Vehicles (UGV), Unmanned Aerial Vehicles (UAV), Others) By Application (Security Inspection & Monitoring, Mapping & Surveying, Search & Rescue, Warehouse Management, Others) By End Use (Military & Defense, Agriculture, Manufacturing, Healthcare, Logistics & Transportation, Others) and Regional Analysis, 2023-2030

Product link: https://marketpublishers.com/r/G563D9EA39CAEN.html

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G563D9EA39CAEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html



To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$