

Swarm Robotics Market by Platform (UAV, UGV), Application (Security, Inspection & Monitoring, Mapping & Surveying, Search & Rescue and Disaster Relief, Supply Chain and Warehouse Management), End-Use Industry and Region - Global Forecast to 2028

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Abstracts

The swarm robotics market is projected to grow from USD 0.8 billion in 2023 to USD 3.0 billion by 2028, registering a CAGR of 30.9% during the forecast period. Some of the major factors driving the growth of the swarm robotics market include the increasing use of swarm robotics for parcel delivery through drones and the rising adoption of swarm-based drones in the military sector. However, technical challenges and high initial investment act as a challenge for the market in the future. The major growth opportunities for the market players are an integration of swarm intelligence technology with connected cars and the increasing use of swarm robotics in warehouses.

'Market for agriculture end-use industry will have the highest CAGR during the forecast period.'

The agriculture segment of the swarm robotics market is expected to witness the highest CAGR during the forecast period. Agriculture is one of the main applications of swarm robotics, and using these robots provides an opportunity to inspect agricultural data for large areas and highly enhance the tasks required in precision agriculture. Swarm robotics is considered extremely relevant for precision farming and large-scale agricultural applications. Increasing adoption of automation and developing IoT are driving market growth due to the growing population and labor shortage. Furthermore, increasing research and development activities by the government and market players

are also driving market growth.

'Supply chain and warehouse management application expected to register the highest CAGR during the forecast period.'

The swarm robotics market's supply chain and warehouse management segment is expected to account for the highest CAGR in the forecast period. Swarm robotics can enhance supply chain and warehouse management efficiency, accuracy, and flexibility. These applications can lead to reduced operational costs, faster order processing, improved customer satisfaction, and better warehouse space and resource utilization. The increasing demand for swarm robots in supply chain and warehouse management is driven by the growing development of manufacturers and the rising trend of automation in various industries.

'North America to account for the highest market share among other regions during the forecast period.'

North America is expected to dominate the swarm robotics market during the forecast period. Increased R&D activities in the field of swarm intelligence would drive the growth of the swarm robotics market in North America. Further, the increasing demand for autonomous and semi-autonomous systems in the military, healthcare, and industrial sectors is driving the market growth. Moreover, the growing availability of advanced sensors and communication technologies is creating an opportunity for the market. Furthermore, the initiatives by various players in the market and government are also driving the market growth.

In determining and verifying the market size for several segments and subsegments gathered through extensive primary interviews, secondary research has been conducted with key industry experts in the swarm robotics market.

The break-up of primary participants for the report has been shown below:

By company type: Tier 1 - 35 %, Tier 2 - 45%, and Tier 3 - 20%

By designation: C-Level Executives - 35%, Managers - 25%, and Others - 40%

By region: North America - 45%, Europe - 20%, Asia Pacific - 30%, and RoW - 5%

The report profiles key players in the swarm robotics market with their respective market ranking analyses. Prominent players profiled in this report include Hydromea (Switzerland), Boston Dynamic (US), SwarmFarm (Australia), Swarm Technology (US), Sentien Robotics (US), Berkeley Marine Robotics (US), Swisslog Holding AG (Switzerland), FARobot, Inc. (Taiwan), K-Team Corporation (Switzerland), KION Group AG (Germany), among others.

Research Coverage

This research report categorizes the swarm robotics market based on platform, application, end-use industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the swarm robotics market and forecasts the same till 2028. The report also consists of leadership mapping and analysis of companies in the swarm robotics ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall swarm robotics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (rising adoption of swarm-based drones in military sector, the development of new technologies, such as artificial intelligence and machine learning, and use of swarm robotics for parcel delivery through drones), restraints (technical challenges and high initial investment), opportunities (integration of swarm intelligence technology with connected cars and use of swarm robotics in warehouses), and challenges (lack of skilled workforce and low awareness about swarm intelligence and Reluctance to accept new technology by key industries) influencing the growth of the swarm robotics market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the

swarm robotics market

Market Development: Comprehensive information about lucrative markets – the report analyses the swarm robotics market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the swarm robotics market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product/service offerings of leading players like Hydromea (Switzerland), Boston Dynamic (US), SwarmFarm (Australia), Swarm Technology (US), K-Team Corporation (Switzerland), among others in the swarm robotics market.

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*Details on Business overview, Products/Services/Solutions offered, Recent developments & MnM View might not be captured in case of unlisted companies.

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