

Micro Tactical Ground Robot Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The Micro Tactical Robot Market is anticipated to register a CAGR of 5% during the forecast period.

The COVID-19 pandemic led to a negative effect on the micro tactical robot market. The onset of the pandemic led to a decline in terms of trade and with the lockdown being effective in various countries, this led to an impact on the supply of raw components which led to manufacturers of microrobots not fulfilling their production deadlines. In addition, the pandemic also led to a decline in the demand for microrobots by various defense agencies around the world which hampered the production as well as sales of microrobots. On the other hand, the decline in the COVID-19 pandemic led to the opening up of borders of various counties which facilitated free flow in terms of trade, and with the lifting of the lockdown policies imposed by various governments, there was an ease in the availability of raw materials and manufacturers witnessed a significant increase in the production process. Moreover, the gradual increase in demand for micro-robots by various defense forces worldwide led to the market witnessing growth during the forecast period.

The increasing military advancements, defense expenditures as well as increase in advancement in terms of micro robots by various companies will lead to a growth of micro tactical ground robot market during the forecast period.

Micro Tactical Ground Robot Market Trends

The Intelligence, Surveillance and Reconnaissance (ISR) Segment is Expected to Witness Significant Growth During the Forecast Period

By application, the intelligence surveillance and reconnaissance (ISR) segment is expected to witness significant growth during

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the forecast period. An increase in defense spending and equipment modernization plans adopted by various governments around the world will be the primary factors for the growth of micro tactical robots during the forecast period.

In the present scenario, there has been a growth in the use of micro tactical robots by defense forces of various countries to carry out covert operations. Advancements in miniaturization technology will lead to more and more soldiers being equipped with micro tactical robots as a standard issue. Moreover, various companies are engaged in the manufacturing of advanced micro tactical robots which provide defense forces with additional capabilities to carry out intelligence, surveillance, and reconnaissance (ISR) missions.

In addition, this micro-robots help in identifying objects from far distances, locating designated targets, and breaching a compound amongst others. Moreover, advancement in miniaturization technology has also bought a newer generation of military tactical robots which are small and light and is enough for an individual to carry and capable of squeezing undetected into otherwise inaccessible spaces, these miniature robotic systems will be capable of delivering lifesaving ISR information to the operator and relay it to a command-and-control center.

Over the past few years, a new generation of robots known as throwable robots are being increasingly used by defense forces around the world to carry out ISR activities. These robots combine mobility, durability, and lightweight so they can be thrown over walls and in through windows, where they can be steered remotely to capture data using a range of onboard sensors. In addition, these miniature robots are highly adaptable to environmental conditions and come equipped with a variety of accessories, cameras, payloads, and maneuvering methods. Thus, such advancements will lead to growth in the market in the forecast period.

The North American Region is Expected to Witness Significant Growth During the Forecast Period

The North American region is expected to witness significant growth during the forecast period. The increase in defense expenditure as well as the military modernization plans are the main reasons which will lead to the market witnessing growth in the coming years. According to the SIPRI database, the defense spending of the United States of America accounted for USD 801 billion in 2021 which was a drop of 1.4% from the defense spending budget of 2020.

There has been a drastic change in warfare in the current scenario and technology is playing a pivotal role to help defense forces to cope with changing battlefield conditions. There have been several major advancements in the development of military robotics due to technological advancements in automation and sensor systems. Currently, the United States Army is focusing on freeing up bottlenecks by increasing autonomy on the battlefield. Various microrobot manufacturing companies within the United States are now engaged in the development of microrobots in order to carry out military operations such as ISR, land mine clearance, and inspection amongst others. Thus, advancements in micro tactical robots in the coming year will lead to the market witnessing growth during the forecast period.

Micro Tactical Ground Robot Market Competitor Analysis

The micro tactical ground robot market is moderately fragmented, owing to a number of players providing different micro tactical ground robots based on different technologies. Some of the prominent players in the smart weapons market are Boeing, Thales SA, Northrop Grumman, QinetiQ, and ReconRobotics Inc amongst others. Investments in the development of advanced microrobots by various manufacturers for carrying out various military applications are expected to help them gain a competitive edge over the other competitors. Moreover, companies are also leveraging strategic collaborative initiatives to increase market share and profitability.

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