

Micro Robots Market Continues to Thrive: Anticipated Surge to US\$ 159.17 Billion by 2033 with a 17.5% CAGR | FMI Study

United States micro robots market is poised for remarkable growth, with a 19.1% CAGR projected by 2033, making it a highly attractive North American market.



NEWARK, DELAWARE, UNITED STATES OF AMERICA, November 3, 2023 /EINPresswire.com/ -- The global [micro robots market size](#) is anticipated to reach a valuation of US\$ 31.73 billion in 2023, driven by increased application across various domains. The trend is expected to create new opportunities for the global market, leading to a projected CAGR of 17.5% between 2023 and 2033. It is estimated to gain a valuation of approximately US\$ 159.17 billion by 2033.

In the medical and healthcare industries, micro robots are highly sought-after for minimally invasive treatments, targeted drug administration, and diagnostics. Micro robots offer precise control and accessibility to distant or delicate bodily areas, reducing invasiveness and improving patient outcomes. The healthcare sector's surge in demand has greatly supported the growth of the micro robot industry.

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Micro-robots are also used in consumer electronics including mobile phones, cameras, as well as wearables for focusing, image stabilization, and augmented reality applications. The popularity of these technologies among consumers contributes to the growth of the worldwide microrobot industry.

The [micro robots market growth](#) is increasing in the industrial and logistics sectors thanks to Industry 4.0, which is characterized by the integration of data interchange, automation, and digital technology. These robots carry out tasks including quality control, installation, and material handling in smart factories.

Key Takeaways from the Micro Robots Market Report:

The global market for micro robots expanded at a CAGR of 10.2% from 2018 to 2022.

Through 2033, the US micro robots market is projected to grow at a CAGR of 19.1%.

In the field of robotics, China has long had a leading position. The projected CAGR for China's growth throughout the predicted period is 17.3%.

In Japan, the micro robots market would grow at a 15.8% CAGR over the course of the predicted years.

Sales of the bio-hybrid material type are expected to increase and are projected to grow at a CAGR of 17.0% through 2033.

By mode, the semi-autonomous sector is anticipated to maintain its dominance in the micro robots market from 2023 to 2033, growing at a CAGR of 21.7%.

"Micro robots are increasingly being used in minimally invasive surgical procedures because they need fewer procedures. This in turn is boosting the global micro robot market growth,"- says Nikhil Kaitwade, Associate Vice President at Future Market Insights, Inc.

Leading Key Players:

Titan Medical
Medtronic
Stryker Corporation
Zimmer Biomet
Auris Health
Mazor Robotics
Intuitive Surgical
Smith & Nephew
Medrobotics

Recent Developments:

Foldable micro robots were developed by a company named École polytechnique fédérale de Lausanne (EPFL) in Switzerland. These robots are meant to be used for various medical and healthcare applications. These come in the form of capsules and require to be swallowed down. They then unfold and navigate within the human body for minimally invasive surgery and targeted drug delivery.

The Wyss Institute launched Robobees- miniature flying robots for Biologically Inspired Engineering at Harvard University. These are meant to mimic the bees and have enormous agricultural applications like environmental monitoring and crop pollination.

Heaven Drones announced their collaboration with Roboteam to deploy a comprehensive turnkey robotic system featuring air and ground integration at the ISDEF 2022, International Defense & HLS Exhibition. The first-ever airborne robot was created by combining these tiny Roboteam microrobots with the Heaven Drones H100 Robo, which improves the time-to-lift abilities of both flying and ground robots.

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Micro Robots Market Segmentation:

By Mode:

Autonomous

Semi-Autonomous

By Material Type:

Bio-Hybrid

Synthetic

By End User:

Pharmaceutical Industry

Healthcare Industry

Automotive Industry

Manufacturing Industry

Military

By Region:

North America

Latin America

Western Europe

Eastern Europe

South Asia and Pacific

East Asia

The Middle East & Africa

Author

Nikhil Kaitwade (Associate Vice President at Future Market Insights, Inc.) has over a decade of experience in market research and business consulting. He has successfully delivered 1500+

client assignments, predominantly in Automotive, Chemicals, Industrial Equipment, Oil & Gas, and Service industries.

His core competency circles around developing research methodology, creating a unique analysis framework, statistical data models for pricing analysis, competition mapping, and market feasibility analysis. His expertise also extends wide and beyond analysis, advising clients on identifying growth potential in established and niche market segments, investment/divestment decisions, and market entry decision-making.

Nikhil holds an MBA degree in Marketing and IT and a Graduate in Mechanical Engineering. Nikhil has authored several publications and quoted in journals like EMS Now, EPR Magazine, and EE Times.

Have a Look at the Related Reports of the Industrial Automation Domain:

[Robotic Lawn Mower Market Analysis](#): It is expected that this market would expand, from US\$ 821.76 Million in 2022 to US\$ 2,721.23 Million in 2032. According to FMI, the market is anticipated to develop at a CAGR of 11.5% during the forecast period.

About Future Market Insights (FMI):

Future Market Insights, Inc. (ESOMAR certified, recipient of the Stevie Award, and a member of the Greater New York Chamber of Commerce) offers profound insights into the driving factors that are boosting demand in the market. FMI stands as the leading global provider of market intelligence, advisory services, consulting, and events for the Packaging, Food and Beverage, Consumer Technology, Healthcare, Industrial, and Chemicals markets. With a vast team of over 5000 analysts worldwide, FMI provides global, regional, and local expertise on diverse domains and industry trends across more than 110 countries.

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