

Nanorobotics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global nanorobotics market size reached US\$ 6.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 12.1 Billion by 2028, exhibiting a growth rate (CAGR) of 11.1% during 2023-2028.

Nanorobotics refers to an emerging technology that helps to create machines or robots that have components around the scale of a nanometer. These robots are known as nanorobots and can be injected into patients for performing diagnosis or providing treatment at the cellular level. They can also be used in pharmacokinetics, disease monitoring, targeting drug delivery in cancer therapeutics and improving the effectiveness and efficiency of healthcare. Besides this, they are utilized for assembling and maintaining sophisticated systems.

Extensive applications of nanorobotics in the medical industry are one of the primary factors driving the market growth. Recent research has suggested that nanorobots can serve as antibodies or antiviral agents in patients with compromised immunity or diseases that do not respond to conventional treatment methods. As a result, nanorobots are being used in gene therapy and cancer detection and treatment. They are also being employed in various dentistry procedures and act as ancillary devices for processing different chemical reactions in the affected organs. Furthermore, nanorobots are utilized for monitoring and controlling glucose levels in diabetic patients. Some of the other medical applications of nanorobots that are strengthening the nanorobotics market growth include repairing damaged tissues and unblocking arteries affected by plaques. Apart from this, governments of several countries are extending their support by increasing investments in nanorobotics. Consequently, the leading players are

increasing their focus on research and development (R&D) activities to introduce technological advancements in molecular robotics.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global nanorobotics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, application and end user.

Breakup by Type:

3D-Motion Nanomachines

Bacteria Powered Nanobots

Biochips

Nubots

Nanorockets

Others

Breakup by Application:

Medical Imaging

Information Storage

Drug Delivery

Health Sensors and Replicators

Others

Breakup by End User:

Hospitals

Diagnostic Centers

Research Laboratories

Others

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Bruker Corporation, EV Group, Ginkgo Bioworks Inc., Imina Technologies SA, JEOL Ltd., Kleindiek Nanotechnik GmbH, Nanonics Imaging Limited, Oxford Instruments plc, Synthace Limited, Thermo Fisher Scientific Inc., Toronto Nano Instrumentation Inc. and Zymergen Inc.

Key Questions Answered in This Report

1. How big is the global nanorobotics market?
2. What is the expected growth rate of the global nanorobotics market during 2023-2028?
3. What are the key factors driving the global nanorobotics market?
4. What has been the impact of COVID-19 on the global nanorobotics market?
5. What is the breakup of the global nanorobotics market based on the application?

6. What are the key regions in the global nanorobotics market?

7. Who are the key players/companies in the global nanorobotics market?

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