

Vaccine Delivery Devices Market Report by Device (Syringes, Jet Injectors, and Others), Route of Administration (Intramuscular Vaccination, Intradermal Vaccination, Subcutaneous Vaccination, and Others), End User (Hospitals, Clinics, Others), and Region 2025-2033

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Report description:

The global vaccine delivery devices market size reached USD 8.0 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 14.3 Billion by 2033, exhibiting a growth rate (CAGR) of 6.28% during 2025-2033. The market is experiencing steady growth driven by the growing awareness and demand for vaccination, coupled with innovations such as needle-free injectors and microneedles, the rising prevalence of infectious diseases, and ongoing strategic collaborations among key players.

A vaccine is a biological substance used to protect individuals from bacterial illnesses by stimulating the immune response of the body against the disease. It helps the immune system to produce antibodies against the invading antigens when given at specific intervals. It can be delivered in the body through liposomes, microspheres, nanoparticles, dendrimers, micellar systems, immune stimulating complexes (ISCOMs), and plant-derived viruses. At present, there is a rise in the utilization of vaccine delivery devices due to the growing prevalence of infectious diseases across the globe.

Vaccine Delivery Devices Market Trends:

Technological advancements in the systematic delivery of vaccines, such as micro-needles and electroporation, represent one of the key factors driving the market. Moreover, there is an increase in the utilization of needle-free delivery systems as they decrease needle stick injuries and the vaccine antigen dose and enhance the vaccine immunogenicity. This, along with the rising research in the field of vaccines and the development of new vaccine delivery devices around the world, is propelling the growth of the market. In addition, governments of several countries are promoting immunization programs to prevent disabilities and

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deaths from vaccine-preventable diseases. This, coupled with the growing investments by non-governmental organizations (NGOs) for various vaccination programs and campaigns globally, is positively influencing the market. Besides this, key market players are focusing on novel delivery technologies that increase the therapeutic value of vaccines by reducing toxicity. Additionally, the expanding healthcare sector due to the increasing geriatric population and easy access to medical products and services is bolstering the market growth. Furthermore, the outbreak of coronavirus disease (COVID-19) is augmenting the sales of vaccine delivery devices worldwide.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on device, route of administration and end user.

Breakup by Device:

- Syringes
- Jet Injectors
- Others

Breakup by Route of Administration:

- Intramuscular Vaccination
- Intradermal Vaccination
- Subcutaneous Vaccination
- Others

Breakup by End User:

- Hospitals
- Clinics
- Others

Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others
- Europe
- Germany
- France
- United Kingdom

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- Italy
- Spain
- Russia
- Others
- Latin America
- Brazil
- Mexico
- Others
- Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Becton Dickinson and Company, Enesi Pharma Limited, Gerresheimer AG, INOVIO Pharmaceuticals, NanoPass, Panacea Biotech Pharma Limited (Panacea Biotec), Pharmajet Inc., Schott AG (Carl-Zeiss-Stiftung), Terumo Corporation and Vaxxas.

Key Questions Answered in This Report

- 1.What was the size of the global vaccine delivery devices market in 2024?
- 2.What is the expected growth rate of the global vaccine delivery devices market during 2025-2033?
- 3.What are the key factors driving the global vaccine delivery devices market?
- 4.What has been the impact of COVID-19 on the global vaccine delivery devices market?
- 5.What is the breakup of the global vaccine delivery devices market based on the device?
- 6.What is the breakup of the global vaccine delivery devices market based on the route of administration?
- 7.What is the breakup of the global vaccine delivery devices market based on end user?
- 8.What are the key regions in the global vaccine delivery devices market?
- 9.Who are the key players/companies in the global vaccine delivery devices market?

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