

Disposable Medical Device Market by Device (Drug Delivery Devices, Surgical & Procedural Instruments, Personal Protective Equipment, Catheters & Tubes), Device Class (I, II, III), Material (Plastic-based, Metal-based, Rubber-based), and Application - Global Forecast to 2030

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Report description:

The global disposable medical device market is projected to reach 144.85 billion in 2030, growing from USD 113.95 billion in 2025, at a CAGR of 4.9% during the forecast period. The growth of the market is driven by rising concerns over hospital-acquired infections (HAIs), increasing surgical procedures, and the need for cost-effective, single-use solutions. Additionally, the growing elderly population, rising prevalence of chronic diseases, and strong demand for home healthcare support this trend. Regulatory emphasis on infection control, materials, and manufacturing technology advancements fuels global market expansion.

<https://www.marketsandmarkets.com/Images/disposable-medical-device-market-Overview.webp>

"By device type, the drug delivery devices segment is projected to grow at the highest CAGR during the forecast period."

The drug delivery devices segment is experiencing significant growth driven by the increasing prevalence of chronic diseases, such as diabetes, cancer, and autoimmune disorders, which are significantly boosting the demand for disposable syringes, needles, and infusion sets for long-term therapy management. Additionally, the global rise in vaccination programs, especially post-pandemic, has accelerated the adoption of single-use drug delivery systems to reduce the risk of contamination and enhance patient safety. The growing preference for home-based care and self-administration of injectable drugs also supports this growth, alongside technological advancements, such as prefilled syringes and auto-injectors that offer greater convenience and compliance. Moreover, regulatory push for infection prevention and disposables' cost-effectiveness further reinforces this

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segment's rapid expansion.

"The plastic-based segment is projected to grow at the highest CAGR during the forecast period."

The plastic-based segment is projected to witness the fastest growth during the forecast period. The growth is due to the cost-effectiveness, lightweight nature, high versatility, and ease of mass production offered by plastic-based materials. Plastics like polyethylene, polypropylene, and PVC are widely used for manufacturing a broad range of disposable devices, such as syringes, catheters, and surgical instruments. Additionally, advancements in biocompatible and recyclable plastics support sustainability trends, further fueling growth in this segment.

"By class of device, the class II segment is projected to grow at the highest CAGR during the forecast period."

The growth of the class II segment is driven by the widespread use of class II medical devices in essential medical procedures, especially in infection prevention and chronic disease management. These devices, such as surgical gloves, catheters, infusion sets, and diagnostic tools, balance safety and regulatory requirements, which makes them faster to market compared to class III devices. Additionally, the rising number of hospital admissions, outpatient procedures, and home healthcare setups has significantly boosted the demand for these moderately regulated devices. Moreover, post-pandemic infection control protocols and the global push for safe, single-use medical solutions continue accelerating the adoption of class II disposable devices.

"By end user, the homecare setting segment is projected to grow at the highest CAGR during the forecast period."

The projected growth of the home care setting during the forecast period is due to the increasing preference for home-based treatment, especially among the elderly and patients with chronic illnesses. Additionally, the rising cost of hospital care has further encouraged a shift toward more affordable home care solutions. Technological advancements have led to the development of compact, user-friendly, and safe disposable devices, such as insulin pens, wound dressings, and portable diagnostic tools. Moreover, greater awareness of people regarding health management and improved patient education empower individuals to manage their conditions independently at home, further fueling this segment's growth.

"Asia Pacific is projected to grow at the highest CAGR during the forecast period."

The growth of the disposable medical devices market in Asia Pacific is driven by rapid urbanization and an expanding middle-class population with increased access to healthcare services, boosting the demand for affordable and efficient medical solutions. Governments in India, China, and Southeast Asia are investing heavily in healthcare infrastructure and expanding insurance coverage, which, in turn, supports higher usage of disposable devices in hospitals and clinics. Additionally, the growing burden of chronic diseases, rising awareness of infection prevention, and an aging population are amplifying the need for single-use medical products. A strong medical manufacturing base and cost-effective production capabilities make the region a hub for domestic consumption and global supply of disposable medical devices.

A breakdown of the primary participants (supply-side) is provided below:

-□By Company Type: Tier 1 - 45%, Tier 2 - 20%, and Tier 3 - 35%

-□By Designation: C-level Executives - 35%, Directors - 25%, and Others - 40%

-□By Region: North America - 40%, Europe - 25%, Asia Pacific - 20%, Latin America - 10%, Middle East & Africa - 5%

The prominent players in the disposable medical device market include Johnson & Johnson (US), Baxter. (US), BD (US), Cardinal Health, Inc. (US), Abbott (US), Medtronic (Ireland), Solventum (US), Boston Scientific Corporation (US), Stryker Corporation (US), Teleflex Incorporated (US), B Braun SE. (US), Terumo Corporation (Japan), Nipro Corporation (Japan), Merit Medical Systems. (US),

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Alcon Inc. [Switzerland], Medline Industries, Inc. (US), Fresenius SE & Co. KGaA (Germany), ICU Medical, Inc. (US), STERIS. (US), Integra LifeSciences Holdings Corporation (US), Coloplast (Denmark), Kirwan Surgical Products, LLC (US), Owens & Minor, Inc. (US), Aspen Surgical Products, Inc. (US), and Paul Hartmann AG (Germany).

Research Coverage:

The report analyzes the disposable medical device market. It aims to estimate its size and future growth potential based on device type, device class, material, application, end user, and region. It covers a competitive analysis of key players and studies their company profiles, product/service offerings, recent developments, and key market strategies.

Reasons to Buy the Report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall disposable medical device market and its subsegments. It will help stakeholders understand the competitive landscape, gain more insights, and position their businesses better to plan suitable go-to-market strategies. The report will also help stakeholders understand the market pulse and provide information on key market drivers, restraints, challenges, and opportunities.

This report provides insights into the following pointers:

- Market Dynamics: Analysis of key drivers (Need for Infection Prevention & Cross-contamination Control, Growing Volume of Surgical and Minimally Invasive Procedures, Technological Innovations and Sustainable Alternatives, Regulatory Support and Guidelines), restraints (High Cumulative Costs for Bulk Procurement of Disposables, Advancements in Sterilization and Reprocessing Technologies), opportunities (Innovation in Sustainable Materials, Expansion in Emerging Markets & Underserved Regions), and challenges (Environmental Concerns and Regulatory Scrutiny on Medical Waste)
- Market Penetration: Extensive information on product portfolios offered by the major players in the global disposable medical device market
- Product Enhancement/Innovation: Comprehensive details about product launches and anticipated trends in the global disposable medical device market
- Market Development: Thorough knowledge and analysis of profitable markets by device type, class of device, material, application, end user, and region
- Market Diversification: Comprehensive information about newly launched consumable products, expanding markets, current advancements, and investments in the global disposable medical device market
- Competitive Assessment: Thorough evaluation of the market share, growth plans, product and service offerings, and capacities of the major competitors in the global disposable medical device market

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