

Elastomeric Infusion Pump Market Report: Trends, Forecast and Competitive Analysis to 2030

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Abstracts

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Elastomeric Infusion Pump Trends and Forecast

The future of the global elastomeric infusion pump market looks promising with opportunities in the hospital and ambulatory surgical center markets. The global elastomeric infusion pump market is expected to grow with a CAGR of 4.7% from 2024 to 2030. The major drivers for this market are increased cancer incidence due to sedentary lifestyles, a growing proportion of people who smoke and drink, as well as, rising adoption of small disposable ambulatory pumps.

Lucintel forecasts that, within the application category, pain management is expected to witness the highest growth over the forecast period.

Within the end-use category, the hospital is expected to witness higher growth.

In terms of regions, North America is expected to witness the highest growth over the forecast period due to the rising prevalence of chronic illnesses and an increasing frequency of surgical interventions.

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Emerging Trends in the Elastomeric Infusion Pump Market

The elastomeric infusion pump market is evolving with new trends shaping its future. These trends reflect technological innovations, changing healthcare needs, and market dynamics.

Integration with Digital Health Technologies: There is a growing trend toward integrating infusion pumps into digital health technologies. This may involve linking with EHRs and mobile applications to enhance monitoring, data collection, and patient management activities. Such integrations lead to improved accuracy, reduced errors, and real-time data availability for healthcare providers.

Enhanced Safety Features: Modern elastomeric infusion pumps incorporate advanced safety features like alarms or dose error reduction systems, while others come with real-time monitoring capabilities. These innovations help reduce medication errors, improve patient safety, and ensure strict compliance with regulatory policies.

Customization for Specific Therapies: The customization of elastomeric infusion pumps is gaining attention for specific therapeutic uses, such as chemotherapy or pain management. Tailored pumps with specialized settings and features allow for more effective control and treatment, improving control and therapeutic outcomes.

Cost-Effective and Accessible Solutions: The market has witnessed a rise in affordable and accessible elastomeric infusion pumps, particularly in emerging economies. These solutions aim to ensure that advanced infusion technology is both available and affordable to as many patients as possible.

Sustainability and Eco-Friendly Materials: The production of elastomeric infusion pumps is increasingly characterized by a growing preference for sustainable and eco-friendly materials. This shift addresses environmental concerns and regulatory requirements, minimizing the ecological impact of medical devices.

These emerging trends are reshaping the elastomeric infusion pump market by driving technological innovation, enhancing patient experience, and adapting to new healthcare environments. The focus on digital integration, patient-centric designs, and home healthcare reflects a shift toward more personalized and efficient treatment solutions,

while regulatory scrutiny and sustainability initiatives highlight the industry's commitment to safety and environmental responsibility.

Recent Developments in the Elastomeric Infusion Pump Market

The elastomeric infusion pump market is undergoing notable developments, reflecting advancements in technology and shifts in healthcare needs. These developments are influencing market dynamics and setting new standards for infusion pump solutions.

Integration of Smart Technologies: Recent designs of elastomeric infusion pumps have integrated connectivity with electronic health records (EHRs) and mobile apps. This innovation enables real-time monitoring and data sharing, improving drug delivery accuracy and enhancing patient management through seamless communication between devices and healthcare providers.

Focus on Safety Enhancements: Improved versions of elastomeric infusion pumps are now fitted with more sophisticated safety mechanisms, including dose error reduction systems, malfunction detection alarms, and improved visual and auditory alerts. These enhancements help reduce medication errors, ensure patient safety, and meet higher regulatory standards by fulfilling healthcare providers' requirements for reliable devices.

Development of Customized Pumps: There is an increasing trend toward developing elastomeric infusion pumps tailored for specific therapies, such as chemotherapy or pain management. These devices have individual settings, allowing for better control over their usage and improved dosing precision, which is crucial for therapeutic purposes.

Cost Reduction and Accessibility: Recent advancements aim to make elastomeric infusion pumps more affordable and accessible, especially in developing markets. Innovations in manufacturing and material selection are designed to reduce production costs while maintaining high-quality standards, making these devices more affordable for healthcare facilities.

Sustainability Initiatives: The market is seeing a shift toward sustainability, with new elastomeric infusion pumps being designed using eco-friendly materials and manufacturing processes. This trend responds to growing environmental concerns and regulatory pressures, aiming to reduce the environmental impact of medical devices and align with global sustainability goals.

These developments are transforming the elastomeric infusion pump market by advancing technology, adapting to regulatory changes, and expanding into new regions. Increased investment in R&D and the growth of homecare applications are driving innovation and improving accessibility, reflecting a dynamic shift toward more advanced and patient-centered solutions.

Strategic Growth Opportunities for Elastomeric Infusion Pump Market

The elastomeric infusion pump market presents several strategic growth opportunities across various applications. These opportunities are influenced by technological advancements and evolving healthcare needs.

Technological Integration: There is a significant opportunity to integrate elastomeric infusion pumps with digital health technologies, such as EHRs and mobile apps. This integration improves data accuracy, patient monitoring capabilities, and real-time communication, leading to better outcomes and streamlined operations within the healthcare industry.

Customization for Specific Treatments: Customizing elastomeric infusion pumps for specific treatments, such as chemotherapy or pain management, presents a major growth opportunity. Customization results in greater control over efficacy, meeting the diverse therapeutic needs in these specialized areas.

Expansion into Emerging Markets: Expanding the availability of cost-effective elastomeric infusion pumps in emerging markets offers substantial growth opportunities. By addressing affordability and local healthcare needs, companies can increase market penetration and reach new patient populations in these regions.

Focus on Sustainability: Embracing sustainability in the production of elastomeric infusion pumps is an emerging opportunity. This includes the use of environmentally friendly materials and manufacturing processes, which align with global environmental goals and appeal to environmentally conscious consumers and regulators.

Enhanced Safety Features: Investing in advanced safety systems, such as dose error reduction systems and real-time monitoring, offers a strategic opportunity

to meet rising standards for patient safety and device reliability. These improvements can also help differentiate products in a competitive market and address essential healthcare concerns.

These growth opportunities reflect the expanding applications of elastomeric infusion pumps in various healthcare settings. By focusing on home healthcare, chronic disease management, oncology, pediatric care, and emergency services, companies can leverage these opportunities to drive market expansion and meet diverse patient needs.

Elastomeric Infusion Pump Market Driver and Challenges

Market dynamics, patient safety concerns, regulatory issues, cost considerations, and technological advances are the principal drivers and challenges of the elastomeric infusion pump market. All these factors must be considered to navigate the complexities of the market and find ways to improve and grow.

Drivers of Market Growth:

Technological Advancements: The evolution of digital health technologies and smart devices has created new growth opportunities. For instance, connecting pumps with EHRs and mobile apps enhances patient monitoring, making treatments more effective and personalized.

Increasing Demand for Home Healthcare: The growing need for home healthcare services has driven demand for portable, easy-to-use elastomeric infusion pumps. These devices enable treatment outside hospital premises, minimizing hospitalization durations and increasing patient convenience.

Focus on Patient Safety: The increasing emphasis on patient safety, coupled with efforts to reduce medication errors, is driving the development of advanced safety features in elastomeric infusion pumps. These mechanisms align with regulatory standards, thereby enhancing the quality of care.

Growing Prevalence of Chronic Diseases: The high incidence of chronic illnesses, such as diabetes and cancer, continues to drive demand for reliable infusion systems. Elastomeric pumps are essential for delivering long-term therapies and supporting the treatment of various chronic conditions.

Regulatory Support: The use of real-world evidence by regulatory bodies encourages innovation and market growth while maintaining high standards for medical devices. Regulatory guidelines ensure that device quality and safety are standardized.

Challenges in the Elastomeric Infusion Pump Market:

High Costs: The cost of elastomeric infusion pumps may hinder widespread adoption, especially in price-sensitive markets. To address this, efforts should be made to manage costs and improve affordability.

Data Security Concerns: As more integrations are made digitally, data security and patient privacy protection become significant challenges. Compliance with regulations and the implementation of robust security measures are necessary to mitigate these risks.

Regulatory Compliance Complexity: Navigating through complex regulations, especially with varying requirements across regions, can be overwhelming. Meeting diverse standards can delay market entry and increase costs incurred during approval processes.

The elastomeric infusion pump market is driven by significant factors, such as technological advancements, increasing demand for homecare solutions, the growing prevalence of chronic diseases, regulatory support, and robust investment in R&D. However, challenges like regulatory hurdles, high production costs, and intense market competition impact market dynamics. Balancing these drivers and challenges is crucial for market players to drive growth, enhance product offerings, and navigate the evolving landscape of healthcare delivery.

List of Elastomeric Infusion Pump Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies elastomeric infusion pump companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the elastomeric

infusion pump companies profiled in this report include-

Ambu

Avanos Medical

Baxter

B. Braun Melsungen

Werfenlife

Nipro

Woo Young Medical

Epic Medical

Daiken Medical

Smiths Medical

Elastomeric Infusion Pump by Segment

The study includes a forecast for the global elastomeric infusion pump by product type, end use, application, and region.

Elastomeric Infusion Pump Market by Product Type [Analysis by Value from 2018 to 2030]:

Continuous Rate Elastomeric Infusion Pump

Variable Rate Elastomeric Infusion Pump

Elastomeric Infusion Pump Market by End Use [Analysis by Value from 2018 to 2030]:

Hospitals

Ambulatory Surgical Centers

Others

Elastomeric Infusion Pump Market by Application [Analysis by Value from 2018 to 2030]:

Pain Management

Chemotherapy

Chelation Therapy

Others

Elastomeric Infusion Pump Market by Region [Shipment Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

The Rest of the World

Country Wise Outlook for the Elastomeric Infusion Pump Market

The elastomeric infusion pump market has seen significant advancements across various regions due to technological innovations and increasing healthcare demands. These pumps are favored for their portability, ease of use, and cost-effectiveness in delivering medications. Recent developments reflect a global trend toward improved patient care and operational efficiency in healthcare settings.

United States: Innovations in user-friendly designs and integration with digital

health technologies are among the recent developments in the U.S. elastomeric infusion pump market. Notable advancements include improved precision in drug delivery, including smart systems to enhance patient outcomes and operational efficiency. These improvements target the growing demand for effective pain management and chemotherapy delivery.

China: The Chinese market for elastomeric infusion pumps is expanding due to increased manufacturing capabilities and cost-effectiveness. Local production, integrated with international standards, helps cut costs while maintaining quality. Recent developments include the introduction of advanced infusion pumps tailored to local healthcare needs, making them more affordable and accessible for a broader population.

Germany: In Germany, major developments in elastomeric infusion pumps focus on meeting regulatory compliance requirements and incorporating innovative features such as enhanced safety mechanisms and more accurate dosage controls. The market is seeing an increasing number of high-quality devices that meet strict European medical device regulations, which cater to the sophisticated healthcare system in the country.

India: Elastomeric infusion pumps are gaining popularity in India, where they are becoming more affordable for people who need them most. Current trends focus on providing cost-effective solutions and adapting the devices to local healthcare requirements. Innovations are aimed at increasing the use of elastomeric pumps across both urban and rural areas, addressing the needs of diverse patient populations.

Japan: In Japan, recent developments include the creation of highly accurate and reliable elastomeric infusion pumps, with features customized to meet the needs of the Japanese healthcare system. Notable innovations include integration with electronic health records (EHRs) and improved usability for healthcare providers. These advancements reflect Japan's focus on technology and precision in medical equipment.

Features of the Global Elastomeric Infusion Pump Market

Market Size Estimates: Elastomeric infusion pump market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Elastomeric infusion pump market size by product type, end use, application, and region in terms of value (\$B).

Regional Analysis: Elastomeric infusion pump market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different product type, end use, application, and regions for the elastomeric infusion pump market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the elastomeric infusion pump market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

If you are looking to expand your business in this market or adjacent markets, then contact us. We have done hundreds of strategic consulting projects in market entry, opportunity screening, due diligence, supply chain analysis, M & A, and more.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the elastomeric infusion pump market by product type (continuous rate elastomeric infusion pump and variable rate elastomeric infusion pump), end use (hospitals, ambulatory surgical centers, and others), application (pain management, chemotherapy, chelation therapy, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

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