

# Elastomeric Infusion Pumps Market to Reach US\$ 2459 Mn by 2032, Says Persistence Market Research

*The Elastomeric infusion pumps market grows with rising chronic diseases, home care demand, and innovations in biocompatible, sustainable drug delivery.*

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/EINPresswire.com/ -- The [elastomeric infusion pumps market](#) is poised for significant growth, with an estimated increase from US\$ 1328 million in 2025 to US\$ 2459 million by 2032. This represents a projected Compound

Annual Growth Rate (CAGR) of 9% over the forecast period from 2025 to 2032. These pumps are increasingly favored due to their cost-effectiveness, ease of use, and potential to reduce treatment expenses by up to 25% compared to traditional electronic infusion pumps. Moreover, the technological advancements in elastomeric pump materials have ensured 99.9% biocompatibility and a 50% reduction in drug adsorption, enhancing drug delivery efficiency and minimizing adverse effects. This trend is particularly beneficial for patients dealing with chronic conditions such as cancer and diabetes.

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## Key Highlights of the Market

Several key factors contribute to the increasing adoption of elastomeric infusion pumps. The prevalence of chronic conditions like cancer, diabetes, and cardiovascular diseases has surged, driving the demand for continuous medication delivery systems. With more than 1.7 billion people globally affected by such ailments, the need for innovative drug delivery solutions is greater than ever.

North America is expected to maintain its market dominance, holding a 35% share, driven by the



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Elastomeric Infusion Pumps Market

region's advanced healthcare infrastructure and rising demand for outpatient care. Innovations in pump design, such as the development of biodegradable materials and improved drug stability, are expected to further propel market growth. Notably, continuous rate elastomeric pumps, which ensure the regulated and consistent delivery of medications, are expected to maintain a commanding 60% share of the market in 2024.

## Market Dynamics

### Driver: Increased Prevalence of Chronic Diseases

The prevalence of chronic diseases, particularly cancer, diabetes, and cardiovascular disorders, is one of the key drivers of the elastomeric infusion pumps market. According to the World Health Organization (WHO), chronic diseases are responsible for 71% of global fatalities, creating a significant demand for medical devices that offer continuous, long-term medication delivery. Elastomeric infusion pumps are ideal for managing these conditions, offering patients effective drug administration while minimizing the need for frequent hospital visits.

### Restraint: Risk of Inaccurate Drug Delivery

Despite their advantages, elastomeric infusion pumps face challenges such as inaccurate flow rates, which can disrupt treatment schedules and result in sub-therapeutic dosing. A two-phase study showed that nearly 50% of elastomeric pumps failed to complete the infusion on time in patients undergoing ambulatory chemotherapy. Such issues, coupled with design flaws and potential device malfunctions, have led to product recalls in the past, which may limit wider adoption, particularly in regions with stringent regulatory requirements.

### Opportunity: Technological Advancements in Sustainable Pump Design

The increasing demand for environmentally friendly solutions presents an opportunity for elastomeric pump manufacturers to innovate. Advances in biodegradable and sustainable materials have already garnered attention, with companies such as ICU Medical and Terumo Corporation exploring eco-friendly designs. These pumps not only cater to the global trend of reducing medical waste but also align with the push toward more sustainable healthcare practices, positioning them as a promising growth avenue.

## Category-wise Analysis

The elastomeric infusion pumps market is segmented based on product type, treatment type, and end-use.

### Product Type: Continuous Rate vs. Variable Rate

Continuous rate elastomeric pumps dominate the market, holding a 60% share in 2024. These

pumps are preferred for their ability to deliver medication at a steady and regulated rate, making them ideal for applications such as pain management and antibiotic treatments. Their user-friendliness and reliability make them particularly popular in both hospital and home healthcare settings. In contrast, variable rate pumps are gaining traction in certain specialized treatments but are expected to hold a smaller share of the market.

### Treatment Type: Pain Management Leads the Way

Pain management is the largest segment in the elastomeric infusion pumps market, accounting for 38% of the total market share. This is driven by the growing incidence of chronic pain, particularly in aging populations. Elastomeric pumps provide a convenient, cost-effective solution for managing post-operative pain and chronic conditions like cancer pain. Their ability to deliver precise, on-demand doses of analgesics without requiring hospital admission makes them an attractive choice for both healthcare providers and patients.

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### Regional Insights

North America is set to continue leading the elastomeric infusion pumps market, with an expected share of 35% in 2024. The region's robust healthcare infrastructure, early adoption of medical technologies, and high prevalence of chronic diseases such as cancer and diabetes contribute to its dominance. Additionally, the trend towards outpatient care, especially in the U.S., is fueling demand for portable, cost-effective drug delivery solutions like elastomeric pumps.

Europe follows closely, with growth driven by the aging population and increasing focus on home healthcare solutions. The Asia-Pacific region, however, is expected to witness the fastest growth, spurred by the expanding healthcare infrastructure and growing awareness of chronic disease management in emerging economies.

### Competitive Landscape

The elastomeric infusion pumps market is competitive, with several established players vying for market share. Leading companies include Baxter International, B. Braun Melsungen, Fresenius Kabi, ICU Medical, and Nipro Corporation. These companies are focused on technological innovation, expanding their product portfolios, and enhancing customer service to maintain their market leadership. In addition, regional players in Asia-Pacific are intensifying competition by offering cost-effective alternatives, catering to the price-sensitive markets in these regions.

Strategic collaborations and partnerships are also a significant aspect of the competitive landscape. Companies are increasingly teaming up with healthcare providers to optimize the use

of elastomeric pumps in treatment regimens. Moreover, the development of digital platforms for monitoring drug delivery and patient compliance is becoming an essential feature of many new products.

### Key Players

Baxter International, Inc.  
Fresenius Kabi AG  
B. Braun Melsungen AG  
Ambu A/S  
Leventon, S.A.U.  
Nipro Corporation  
Terumo Corporation  
Avanos Medical, Inc.

These players dominate the market through continuous innovation, a strong presence in key geographic regions, and strategic partnerships with healthcare providers.

### Recent Developments

In January 2024, the East and North Hertfordshire NHS Trust launched a new protocol for using elastomeric pumps in home care settings, specifically for antibiotic treatments. This initiative reduces the need for frequent nursing visits, enhancing patient convenience while reducing healthcare costs. Such developments underline the growing acceptance of elastomeric pumps in home healthcare and outpatient care.

In October 2023, China's National Medical Product Administration (NMPA) approved 221 medical devices, including elastomeric infusion pumps, which is expected to facilitate market expansion in the Asia-Pacific region.

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### Market Segmentation

#### By Product

Continuous Rate Elastomeric Pumps  
Variable Rate Elastomeric Pumps

#### By Treatment

Pain Management  
Antibiotic/Antiviral

Chemotherapy

By End User

Hospitals

Ambulatory Surgical Centers

Homecare Settings

Clinics

By Region

North America

Latin America

Europe

South Asia & Oceania

East Asia

The Middle East & Africa

Future Outlook

The elastomeric infusion pumps market is expected to witness continued growth driven by technological advancements, the rising prevalence of chronic diseases, and increasing adoption of outpatient and home healthcare solutions. Innovations in pump materials, such as biodegradable and eco-friendly pumps, are likely to open new market opportunities. Additionally, the emphasis on reducing healthcare costs and improving patient outcomes will continue to drive demand for elastomeric pumps, particularly in regions like North America and Europe.

However, the market faces challenges related to product recalls, safety concerns, and competition from alternative infusion pumps. Manufacturers will need to focus on improving device reliability, enhancing safety features, and addressing concerns related to inaccurate drug delivery to ensure sustained growth. With ongoing investments in research and development, the future of elastomeric infusion pumps appears promising, offering a sustainable and efficient solution to the growing demand for continuous medication delivery.

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