

Metered Dose Inhalers Market Size Predicted to Hit USD 18.4 billion, Globally, by 2034 at 6.2% CAGR: Allied Market

Metered Dose Inhalers (MDIs) are widely used in the treatment and management of respiratory conditions such as asthma and COPD.

PORTLAND, OR, UNITED STATES, June 8, 2026 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[Metered Dose Inhalers Market](#) by Product Type (Conventional MDIs, Breath actuated MDIs), Application (Asthma, COPD, Other), and Distribution Channel (Hospital Pharmacies, Retail Pharmacies, Online Pharmacies): Global Opportunity Analysis and Industry Forecast, 2025-2034". According to the report, the metered dose inhalers market was valued at \$10.1 billion in 2024, and is estimated to reach \$18.4 billion by 2034, growing at a CAGR of 6.2% from 2025 to 2034.

MDIs are popular across hospitals, clinics, and home care settings due to their portability, ease of use, and effective drug delivery mechanism. The increasing global burden of respiratory diseases, rising air pollution levels, growing geriatric population, and advancements in inhaler technology are driving the adoption of MDIs. The market is further supported by innovations such as breath-actuated MDIs and the integration of dose counters to enhance treatment compliance and monitoring.

Request Sample of the Report on Metered Dose Inhalers Market Forecast 2034 – <https://www.alliedmarketresearch.com/request-sample/A38925>

Market Introduction

The metered dose inhalers (MDIs) market encompasses handheld aerosol delivery devices designed to administer precise doses of medication directly to the lungs, primarily for managing respiratory conditions such as asthma, chronic obstructive pulmonary disease (COPD), and other bronchial disorders. These devices are a cornerstone of both acute and maintenance therapies due to their portability, rapid onset of action, and non-invasive drug delivery. The market has witnessed significant growth driven by the increasing global prevalence of respiratory diseases, rising air pollution, urbanization, and lifestyle changes. According to the Global Burden of Disease Study, over 500 million people globally are affected by asthma and COPD combined, highlighting the critical need for effective inhalation therapies. Advancements in inhaler technology such as dose counters, digital inhalers, and breath-actuated MDIs—are enhancing

patient compliance and treatment outcomes. Regulatory support for generic MDIs and expanding healthcare access in emerging markets like Asia-Pacific and Latin America further fuel market expansion. Additionally, growing awareness of preventive respiratory care and home-based disease management is prompting widespread adoption of MDIs across hospitals, retail pharmacies, and home healthcare channels.

Report Overview

The metered dose inhalers market is segmented on the basis of product type, application, distribution channel, and region. On the basis of product type the market is segmented into conventional MDIs, and breath-actuated MDIs. On the basis of application, the market is segmented into asthma, COPD and others. On the basis of distribution channel, the market is fragmented into hospital pharmacies, retail pharmacies, and online pharmacies. Region-wise, the market is analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, France, UK, Italy, Spain, and rest of Europe), Asia-Pacific (China, Japan, India, Australia, South Korea, and rest of Asia-Pacific), and LAMEA (Brazil, Saudi Arabia, South Africa, and rest of LAMEA).

On the basis of product type, the conventional MDIs segment dominated the global market in 2024. However, the breath-actuated MDIs segment is expected to register the highest CAGR during the forecast period.

On the basis of application, the Asthma segment dominated the global market in 2024.

On the basis of distribution channel, the hospital pharmacies segment dominated the market in terms of revenue in 2024. However, the online pharmacies segment is expected to register the highest CAGR during the forecast period.

Region wise, North America dominated the market in terms of revenue in 2024. However, Asia-Pacific is anticipated to grow at the highest CAGR during the forecast period.

Market Growth & Opportunities Factors

The metered dose inhalers (MDIs) market is experiencing steady growth, primarily driven by the rising global prevalence of chronic respiratory diseases such as asthma and chronic obstructive pulmonary disease (COPD). These conditions affect millions globally and are exacerbated by urbanization, rising air pollution, tobacco use, and environmental allergens. MDIs are compact, portable drug delivery devices that provide a pre-measured dose of aerosolized medication directly to the lungs, offering rapid relief and improved treatment of adherence. As healthcare systems worldwide prioritize non-invasive, cost-effective respiratory therapies, MDIs have become a staple in both emergency and maintenance care settings. The Global Initiative for Asthma (GINA) and World Health Organization WHO (2024) estimate that over 260 million people suffer from asthma globally, further underscoring the demand for MDIs.

The market has also gained momentum with technological innovations such as breath-actuated MDIs, dose counters, and smart inhalers equipped with sensors to monitor usage and improve

compliance. For instance, Teva's ProAir Digihaler and Propeller Health's digital inhaler solutions have transformed asthma management by providing real-time feedback on inhalation patterns and dosage adherence. The increasing prevalence of pediatric and geriatric respiratory patients who often require easier-to-use and precise drug delivery systems further supports the demand for MDIs.

Additionally, the shift toward home-based healthcare is fueling the adoption of MDIs among patients managing chronic respiratory diseases outside hospital settings. The devices' portability, affordability, and ease of use make them highly suitable for self-administered therapy. Healthcare providers are also emphasizing early diagnosis and preventive management of respiratory conditions, further reinforcing the role of MDIs in both primary and secondary care. Rising awareness campaigns by government bodies and non-profits have also contributed to early intervention and widespread adoption of MDIs, especially in low- and middle-income countries.

Major Challenges in Industry & Solutions

Despite robust demand, the MDI market faces several challenges. One of the primary issues is the improper use of inhalers due to lack of patient education, leading to suboptimal treatment outcomes. Studies show that nearly 70–80% of patients misuse MDIs, either by failing to coordinate actuation and inhalation or by not shaking the device before use. This significantly reduces medication efficacy. To address this, manufacturers are developing breath-actuated and smart MDIs that eliminate coordination requirements and provide feedback on correct usage. Additionally, hospitals and pharmacies are adopting patient education programs to ensure proper inhaler techniques.

Environmental concerns also pose a growing challenge. Traditional MDIs use hydrofluoroalkane (HFA) propellants, which are greenhouse gases with high global warming potential. As regulatory bodies like the U.S. FDA and the European Medicines Agency (EMA) tighten restrictions on high-emission propellants, manufacturers are under pressure to develop eco-friendly alternatives. Companies such as AstraZeneca and Chiesi have committed to low-carbon inhaler production, with plans to shift toward propellant-free or dry powder inhaler (DPI) options. In the interim, the development of MDIs with low-GWP (Global Warming Potential) propellants such as HFO-1234ze is emerging as a viable solution.

Another restraint is the limited access to inhalers in underserved regions due to high costs and supply chain issues. Generic MDIs and government-subsidized inhalation therapies are being promoted as solutions in countries with constrained healthcare budgets. Organizations like UNICEF and the Global Asthma Network are working to improve access to affordable respiratory care in Africa, South Asia, and Latin America through policy advocacy and distribution initiatives.

Regional Insights

North America leads the global MDI market, owing to a high burden of asthma and COPD, well-established healthcare infrastructure, and widespread insurance coverage. According to the CDC, over 25 million people in the U.S. have asthma, with COPD affecting more than 16 million adults. The presence of leading pharmaceutical companies such as Teva Pharmaceuticals, AstraZeneca, and Mylan (Viatris) also fosters continuous product innovation. Additionally, the region is witnessing strong adoption of smart inhalers, with digital health integration improving remote patient monitoring and adherence tracking.

Europe holds the second-largest market share, driven by robust public health programs, environmental regulations, and growing emphasis on sustainable drug delivery solutions. Countries like the UK, Germany, and the Netherlands are actively transitioning to low-emission inhalers under NHS and EU Green Deal mandates. In the UK alone, the National Health Service (NHS) has set a target to reduce the carbon footprint of inhalers by 50% by 2028. This regulatory push is prompting both pharmaceutical companies and healthcare providers to shift toward eco-friendly MDIs or DPIs, supporting market growth and innovation.

Asia-Pacific is the fastest-growing region in the MDI market, fueled by rising respiratory disease prevalence, increasing urbanization, and expanding healthcare access. Nations such as China, India, and Japan are witnessing significant increases in asthma and COPD cases due to air pollution and industrial exposure. China alone has over 100 million people affected by COPD, making it one of the largest untapped markets. Growing middle-class populations, increased government investment in primary care, and awareness campaigns on respiratory health are driving MDI adoption. Moreover, domestic manufacturers in India and China are developing affordable generic inhalers, further supporting regional market expansion.

Latin America and the Middle East & Africa present emerging opportunities due to increasing healthcare investments, rising pollution levels, and collaborative efforts with global health organizations to improve respiratory care. Brazil and Mexico are leading the Latin American market with government-backed asthma control programs, while Gulf countries like Saudi Arabia and the UAE are investing in hospital modernization and pharmaceutical accessibility, creating demand for portable inhalation therapies such as MDIs.

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Key Players

AstraZeneca

GlaxoSmithKline Pharmaceuticals Ltd

Chiesi Farmaceutici S.p.A.

Cipla Ltd.

Teva Pharmaceutical Industries

Lupin
AptarGroup, Inc.
Boehringer Ingelheim International GmbH
Sun Pharmaceutical Industries Ltd.
Zydus Lifesciences Limited.

Our Market Research Solution Provides You Answer to Below Mentioned Question:

- Which are the driving factors responsible for the growth of market?
- Which are the roadblock factors of this market?
- What are the new opportunities, by which market will grow in coming years?
- What are the trends of this market?
- Which are main factors responsible for new product launch?
- How big is the global & regional market in terms of revenue, sales and production?
- How far will the market grow in forecast period in terms of revenue, sales and production?
- Which region is dominating the global market and what are the market shares of each region in the overall market in 2022?
- How will each segment grow over the forecast period and how much revenue will these segments account for in 2030?
- Which region has more opportunities?

By Region Outlook

- North America
(U.S., Canada, Mexico)
- Europe
(Germany, France, UK, Italy, Spain, Rest of Europe)
- Asia-Pacific
(Japan, China, India, Rest of Asia-Pacific)
- LAMEA
(Brazil, Saudi Arabia, South Africa, Rest of LAMEA)

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