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Lung Stent Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Lung Stent Market, valued at USD 161.7 million in 2024, is projected to experience a robust growth rate of 9.3% CAGR from 2025 to 2034. This rapid market expansion can be attributed to several factors, including the rising prevalence of chronic respiratory diseases, advancements in minimally invasive procedures, and a surge in investments aimed at developing innovative medical technologies. Respiratory conditions are becoming more widespread, driven by factors like air pollution, smoking, and sedentary lifestyles. These conditions have led to an increased demand for lung stents, as they play a crucial role in maintaining airway patency and improving breathing for patients suffering from blockages caused by tumors, infections, or congenital abnormalities.

Lung stents are increasingly recognized for their ability to improve patient outcomes by offering effective solutions for airway management. As healthcare systems evolve, there is a growing shift toward minimally invasive treatments that provide quicker recovery times, reduced complications, and lower healthcare costs. Technological advancements have made lung stents more adaptable to various airway anatomies, and the integration of artificial intelligence-driven imaging and navigation systems has further enhanced the precision of stent placement. This technological integration is paving the way for better treatment outcomes and success rates. Additionally, the aging global population is more vulnerable to respiratory diseases, contributing to a higher demand for such medical devices. Government initiatives supporting advanced respiratory care and favorable reimbursement policies are also fueling the market's growth.

The lung stent market is divided into three product types: tracheal, bronchial, and laryngeal stents. The tracheal stents segment led the market with USD 111.9 million in 2024. Their widespread use in treating severe airway obstructions has made them the

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most preferred choice among healthcare providers. These stents offer immediate relief in cases of critical respiratory blockages, ensuring uninterrupted airflow and significantly reducing the risk of complications. As a result, tracheal stents are commonly used in both emergency and planned procedures.

Device type segmentation includes self-expandable and balloon-expandable stents. The self-expandable stents segment generated USD 126.5 million in 2024 and is expected to grow at a CAGR of 9.4% between 2025 and 2034. These stents are favored for their ease of deployment and their ability to conform to complex airway structures. Upon placement, self-expandable stents automatically expand, cutting down procedural time and ensuring accurate positioning. Their reliability and efficiency make them especially valuable in emergency scenarios where quick restoration of airflow is critical.

In the U.S., the lung stent market reached USD 63.6 million in 2024 and is anticipated to grow at a CAGR of 8.8% through 2034. The U.S. continues to dominate the global market, thanks to its advanced healthcare infrastructure, high incidence of lung diseases, and increasing focus on minimally invasive treatments. The integration of cutting-edge technologies, such as AI-driven imaging, is improving the precision of stent placements, further bolstering the country’s leading position in this sector. Supportive government policies and reimbursement frameworks are also contributing significantly to the U.S. market’s growth trajectory.

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