

# Root Blower Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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## Abstracts

The Global Root Blower Market was valued at USD 624.1 million in 2024 and is estimated to grow at a CAGR of 4.7% to reach USD 977.2 million by 2034.

The steady growth is driven by its essential use in both industrial and municipal sectors. Root blowers are widely adopted for their robust performance and ability to deliver high air volumes at a constant pressure, making them ideal for various processes such as food production, water treatment, and more. Increasing demand across industries, including cement, chemicals, power generation, and steel production, continues to boost market growth. These blowers play a critical role in aeration, pneumatic conveying, and supplying combustion air. Rising infrastructure investments and environmental initiatives across developed regions are creating strong demand for cost-effective and specialized air movement systems. Municipal upgrades, especially in sewage and water treatment, are key contributors to this momentum. Technological advancements are also reshaping the landscape, with manufacturers focusing on compact, low-noise, and energy-efficient designs that meet evolving industry regulations. The integration of smart features like IoT-based monitoring and predictive maintenance is further improving system performance and helping operators minimize downtime and operational costs.

In 2024, the 2-lobe root blower segment generated USD 252.5 million. Its dependable operation, simple mechanics, and ability to maintain uninterrupted air flow make it a popular option across numerous industrial settings. With a design that incorporates two lobes rotating in opposite directions, this blower type ensures a steady airflow without internal compression. These features make it well-suited for operations in sectors such as cement manufacturing, wastewater treatment, and chemicals, where it is employed for tasks like aeration, combustion air supply, and material handling, due to its durability

and effectiveness under varying conditions.

The low-pressure segment held a 52.6% share in 2024. Designed for operating pressures up to 15 PSI, low-pressure root blowers are commonly utilized in applications where a steady, low-pressure airflow is essential. These include aquaculture, municipal wastewater treatment, and several light industrial processes. Their non-pulsating air delivery is especially useful in biological treatment applications, as well as in the pneumatic conveying of grains, powders, and other lightweight materials where higher pressure is not necessary, but continuous airflow is critical to the process.

United States Root Blower Market held a 78.4% share and generated USD 145.6 million in 2024. The market is experiencing stable expansion driven by the need to upgrade outdated water treatment systems and increasing enforcement of environmental regulations. With regulatory bodies tightening emission and discharge standards, municipalities and industries are turning to reliable equipment like root blowers to meet compliance standards. These systems are vital in processes like sludge handling and aeration, both of which are integral to efficient and compliant wastewater treatment.

Leading companies operating in the Global Root Blower Market include Robuschi/Gardner Denver, KlimatVentMash, AERZEN, Baker Hughes, Ventinform, Izhvent, Howden/Chart Industries, Roots, VENTPROM, Atlas Copco, Gardner Denver/Ingersoll Rand, Ukrventsystemy, Azvetra, Kaeser, and TMC Fluid Systems. Companies in the Global Root Blower Market are focusing on innovation, energy efficiency, and digital integration to strengthen their competitive positioning. Many are developing compact, low-noise blowers with enhanced energy-saving features to meet modern industrial requirements. Incorporating smart technologies like IoT for remote monitoring and predictive maintenance is a key strategy to improve equipment lifespan and reduce operational downtime. To expand their customer base, manufacturers are also tailoring products for specific applications in water treatment, cement, and power industries.

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