

Heavy-Duty Vehicle Braking System Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Heavy-Duty Vehicle Braking System Market was valued at USD 3 billion in 2024 and is expected to grow at a CAGR of 5.1% from 2025 to 2034. Stricter government regulations to improve road safety drive the demand for advanced braking technologies. Regulatory frameworks, such as those in the European Union and the United States, mandate that heavy-duty vehicles include safety features like Anti-lock Braking Systems (ABS), Electronic Stability Control (ESC), and Automated Emergency Braking (AEB), which has significantly boosted the adoption of advanced braking systems.

The rapid expansion of e-commerce, infrastructure development, and urbanization has led to a surge in the demand for heavy-duty vehicles such as trucks, buses, and construction equipment. These vehicles require durable braking systems capable of handling heavy loads and extreme driving conditions. As a result, both commercial and construction sectors prioritize vehicles equipped with reliable and efficient braking systems to enhance safety and operational productivity.

The market is categorized by braking system types, including disc brakes, drum brakes, electric brakes, and hydraulic brakes. In 2024, the disc brakes segment held a 42% share and is projected to reach USD 2.1 billion by 2034. Disc brakes are preferred in heavy-duty vehicles due to their superior heat dissipation, which reduces the risk of brake fade—a critical concern for vehicles that frequently travel long distances with heavy loads. Additionally, the open design of disc brakes allows for efficient water expulsion, ensuring consistent braking performance even in wet conditions.

The market is also segmented based on sales channels, with OEM and aftermarket as

the primary categories. In 2024, the OEM segment dominated with a 74% market share. OEMs ensure that braking systems meet the necessary design, performance, and safety standards. This is particularly important for heavy-duty vehicles, where reliability and safety are paramount. By working directly with manufacturers, OEMs can install compatible and certified braking systems from the outset, minimizing compatibility issues and the need for costly aftermarket modifications.

Germany heavy-duty vehicle braking system market held a 24% share in 2024 and is expected to generate USD 528.5 million by 2034. The country's strong automotive industry supports the demand for advanced braking technologies driven by stringent safety regulations. As the need for safer and more efficient braking systems grows, Germany is well-positioned to remain a leader in the global market.

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