

Medium-duty Engine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Medium-Duty Engine Market, valued at USD 9.2 billion in 2024, is anticipated to grow at a compound annual growth rate (CAGR) of 6.4% from 2025 to 2034. This growth is largely driven by the surge in e-commerce, which has increased the demand for efficient last-mile delivery vehicles. Medium-duty trucks are particularly suited for urban routes, where balancing payload capacity and maneuverability is critical for navigating congested city streets.

The rise of online shopping and the expansion of urban fulfillment centers have further fueled the need for medium-duty engines that deliver both performance and efficiency. These engines are designed to support logistics operations by offering the power required for short-distance deliveries while maintaining fuel efficiency.

Sustainability is another significant factor shaping the market. As governments and corporations prioritize greener technologies, manufacturers are developing medium-duty engines with lower emissions and improved fuel efficiency. Regulatory frameworks such as the Euro 6 standards in Europe and similar policies in other regions drive advancements in hybrid and low-emission engine technologies. The push for eco-friendly solutions prompts companies to adopt cleaner engines to meet their environmental goals and reduce their carbon footprint.

In terms of vehicle classification, the market is divided into Class 4, Class 5, and Class 6 vehicles. Class 6 vehicles held over 60% of the market share in 2024 and are projected to surpass USD 9.5 billion by 2034. To enhance fuel efficiency and maximize payload capacity, manufacturers increasingly use lightweight materials like aluminum and composites in Class 6 vehicles. These innovations not only improve cargo space

but also offset the weight of electric powertrains, ensuring a balance between environmental performance and operational utility.

The modular design of Class 6 vehicles allows for greater flexibility and customization, catering to diverse industry needs. Scalable platforms enable manufacturers to offer various body styles, powertrain configurations, and specialized equipment, making these vehicles adaptable for different applications.

Based on horsepower, the market is segmented into engines below 150 HP, 150-250 HP, and above 250 HP. The 150-250 HP category is expected to exceed USD 3 billion by 2034, driven by the demand for cleaner combustion and alternative fuel powertrains. Integrated powertrain systems that combine engines, transmissions, and other components are becoming increasingly popular for their enhanced reliability and efficiency.

Regionally, China dominated the market in 2024, contributing over 30% of the global revenue. Chinese manufacturers are focusing on localized production and developing engines optimized for domestic conditions. Meanwhile, North American manufacturers are investing in clean diesel technologies to comply with stringent emissions regulations while maintaining performance and fuel efficiency.

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