

Automotive Turbocharger Market to Reach USD 16.5 Billion by 2030, Led by Asia Pacific's 48.89% Market Share

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According to DataM Intelligence, the Global [Automotive Turbocharger Market](#) reached USD 13.5 billion in 2022 and is expected to grow to USD 16.5 billion by 2030, registering a robust CAGR of 10.3% during 2023–2030.



The Automotive Turbocharger Market is expanding rapidly, driven by demand for fuel-efficient engines, stricter emissions norms, and innovations in electric and variable geometry turbochargers."

DataM Intelligence

Rising demand for fuel-efficient and high-performance vehicles is driving the growth of turbochargers worldwide. The increasing emphasis on reducing vehicle emissions and meeting stringent regulatory standards is accelerating the adoption of turbocharging technology across passenger cars, commercial vehicles, and electric hybrids.

The integration of advanced materials and innovative designs in turbochargers is enhancing engine efficiency and power output. As automakers focus on downsizing engines without compromising performance,

turbochargers play a critical role in achieving lower fuel consumption and carbon footprint, supporting the global shift toward sustainable mobility solutions.

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Key Industry Developments

-Cummins launched its industry-first hydrogen internal combustion engine turbocharger for on-highway applications, featuring advanced aerodynamics and prognostics to address hydrogen combustion challenges.

-Cummins introduced the next-generation 6.7L Turbo Diesel engine for Ram Heavy Duty trucks, equipped with a new variable-geometry turbocharger and enhanced air management for higher output and improved serviceability.

-BorgWarner spins off Delphi Technologies PLC (2025): BorgWarner finalized the divestiture of its former fuel systems and aftermarket business (Delphi Technologies PLC), a move that allowed it to focus its core strategy on electrification and clean air solutions, including advanced turbocharging systems for internal combustion engines (ICE) and hybrids.

-Honeywell Transportation Systems divests turbocharger business (2025): Honeywell completed a spin-off of its transportation systems business (Garrett Motion Inc.), focusing solely on high-performance turbochargers for both ICE and hybrid powertrains.

-Cummins completes acquisition of Meritor (2025): Cummins completed its acquisition of Meritor, a global supplier of drivetrain, mobility, braking, and aftermarket solutions for commercial vehicle and industrial markets. This acquisition enhances Cummins' ability to integrate powertrain components, which include turbochargers.

Automotive Turbocharger Market



Market Growth Drivers

-The rising demand for fuel-efficient and high-performance vehicles is a primary factor driving growth in the automotive turbocharger market. Turbochargers enable engine downsizing while enhancing power output, resulting in improved fuel economy and reduced greenhouse gas emissions. Increasing consumer preference for vehicles that offer both power and efficiency is pushing automakers to integrate advanced turbocharging technologies, such as variable geometry turbochargers and electrically assisted turbochargers, into new models.

-Stringent global emission regulations and government policies aimed at reducing vehicular pollution are accelerating the adoption of turbochargers. These regulations compel manufacturers to develop engines that meet strict CO2 emission norms without compromising performance. Turbochargers help meet these regulations by optimizing combustion efficiency and lowering carbon footprints, thereby becoming essential components in modern internal combustion engines.

-Advancements in turbocharger technology and increasing collaborations between turbocharger manufacturers and automotive original equipment manufacturers (OEMs) are further propelling market growth. Innovations including twin-scroll turbochargers and integrated waste heat

recovery systems enhance performance and fuel efficiency. The expanding demand from passenger vehicles, commercial vehicles, and specialty applications, coupled with growing aftermarket acceptance, is broadening the market's reach across global automotive sectors.

Segmentation Analysis

-By Turbo Charger

The Automotive Turbocharger Market is segmented into exhaust gas turbocharger, axial flow turbocharger, and radial flow turbocharger. Exhaust gas turbochargers dominate due to their efficiency in harnessing exhaust energy to boost engine power, widely used in diesel and gasoline applications for improved fuel economy. Axial flow turbochargers excel in high-flow scenarios for large engines, while radial flow turbochargers offer compact designs ideal for passenger vehicles, enhancing responsiveness and performance across diverse engine platforms.

-By Technology Type

The market is segmented by technology type into variable geometry turbocharger (VGT), waste gate, twin turbocharger, and others. VGT holds a significant share with superior boost control and reduced turbo lag, optimizing performance across varying loads in both diesel and gasoline engines. Waste gate technology provides reliable pressure regulation for cost-effective applications, twin turbochargers deliver high power for performance vehicles, and other innovations like electric-assisted systems further enhance efficiency and emission compliance.

-By Engine Type

By engine type, the market includes diesel engine and gasoline engine. Diesel engines lead due to turbochargers' natural synergy with high-torque demands and emission regulations, enabling downsizing without power loss. Gasoline engines are rapidly growing with turbo adoption for fuel-efficient downsized engines meeting stringent CO2 norms, balancing performance and economy in passenger cars.

-By Vehicle Type

The vehicle type segment consists of passenger car, commercial vehicle, and heavy duty vehicle. Passenger cars command the largest share driven by demand for efficient, high-performance models amid emission standards. Commercial vehicles grow steadily for fuel savings in fleets, while heavy duty vehicles rely on turbochargers for power in demanding applications like trucks and construction equipment.

-By Sales Channel

By sales channel, the market divides into OEM and aftermarket. OEM channels dominate with integrated turbo solutions from manufacturers like BorgWarner for new vehicle production, ensuring compliance and optimization. Aftermarket grows with upgrades for performance tuning and replacements, catering to enthusiasts and fleet maintenance needs.

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Regional Insights:

-The Asia Pacific region leads the Automotive Turbocharger Market with the largest market share of approximately 48.89%. This dominance is driven by the region's strategic importance as a manufacturing hub and significant vehicle production volumes, fueling high turbocharger adoption.

-Europe follows with a substantial share of around 25% of the global automotive turbocharger market. The strong automotive manufacturing base and strict emission standards boost the demand for turbochargers across the region.

-North America holds about 18.5% of the market share, propelled by fuel economy regulations and initiatives for engine downsizing that rely heavily on advanced turbocharging technologies. The market benefits from high-performance vehicle applications and growing fuel efficiency standards, notably in the United States.

Competitive Landscape

-The Automotive Turbocharger Market is competitive with key players like BorgWarner Inc., Continental AG, Cummins Inc., Honeywell Garrett, Mitsubishi Heavy Industries, and IHI Turbo America leading the space. These companies focus on strategic partnerships with major OEMs, product innovation in variable geometry and electric-assisted turbo systems, and expanding offerings for fuel-efficient downsized engines.

-BorgWarner Inc. and Honeywell Garrett dominate through advanced R&D in high-performance turbochargers for passenger and commercial vehicles, emphasizing emission compliance and power enhancement. Continental AG and Cummins Inc. drive growth via integrated powertrain solutions and aftermarket expansions, while Mitsubishi Heavy Industries and IHI Turbo America excel in precision engineering for diesel and gasoline applications. Investment in lightweight materials, twin-scroll designs, and hybrid turbo technologies remains strong.

-Collaborations with automotive giants like Ford, Volkswagen, and Toyota, along with ongoing R&D in wastegate and electric turbo variants, enhance reliability and market penetration, positioning these firms as leaders in the evolving turbocharger ecosystem.

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Conclusion

The Automotive Turbocharger Market is poised for significant growth, driven by increasing demand for fuel-efficient and high-performance vehicles. Stricter emissions regulations worldwide and advancements in turbocharger technologies, such as variable geometry and electric turbochargers, further propel market expansion. Emerging markets and the rising

adoption of downsized engines also contribute to the positive outlook, positioning the market for robust growth through 2035.

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Sai Kiran

DataM Intelligence 4market Research LLP

+1 877-441-4866

[email us here](#)

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