
Description: The global automotive turbocharger market is likely to grow at a steady pace with a CAGR of 10.06% during the forecast period. The usefulness of a turbocharger lies to its mechanism in increasing the engine power by pumping more air to facilitate the ease of combustion. An automotive turbocharger makes use of the exhaust air released from the combustion chamber of a vehicle. The exhaust air strikes the turbine blades, which makes the turbine to rotate and provides intake air to the turbocharger. The compressed air passes through a charge-air cooler and enters the intake manifold of the engine, allowing it for better fuel combustion in the engine, thus increasing the engine power and enhancing fuel efficiency. OEMs are keen on adding automotive turbochargers to help the engine boost, after reducing the size of the engine. For instance, a four-cylinder engine fitted with a turbocharger can produce power equivalent to a six-cylinder engine. Volvo has been using 2 liter engine with four-cylinders, but equipped with turbochargers to deliver a V6 or V8 level of power.

There are three key technologies which are extensively used for turbo charging, namely- Waste gate turbo: mostly used in commercial vehicles, Twin-turbo: mostly used in passenger vehicles, Variable-geometry turbocharger: mostly used in passenger vehicles. Turbochargers help to increase performance of the engine. This leads to their increased demand from racing and sport segment vehicles. The growth of the market is driven from the increased use of turbocharger in the EMEA region, followed by APAC and the Americas will likely contribute to the growth of the market. Increased stringency in the emission norms, would lead to the increased incorporation of downsizing engine, for all new vehicles by the OEMs. Initiatives from the governments in EMEA have helped to promote the use of low-emission and high-efficiency vehicles, which boosts the demand for turbochargers.

Freight companies and fleet owners have also moved toward diesel LCVs that have a low average-emission rate. They are trying to downsize their fleet to smaller vehicles and are installing turbochargers in their engines to increase fuel efficiency. The disadvantage of the turbocharger lies to its increased lag in the activation of turbocharger, which is also coined popularly as turbo lag. Turbochargers are generally expensive in nature due to the requirement of stronger and high-efficient components. They also generate a considerable amount of heat, for which the cooling systems are most commonly required. The expensive nature of turbochargers along with the increasing focus on BEVs in the European market restrain market growth in this region. However, the advent of electric turbocharger, would add a significant growth dimension in the forecast period.

Electric turbochargers boost fuel efficiency between 15%-20%. They effectively eliminate turbo-lag, as they require only quarter to half of a second to reach full boost. Electric turbochargers comprise of a high-speed turbine-generator and a high-speed electric air compressor. These components ensure high electrical efficiency and minimal energy loss during transfer of compressed air.

The market is segmented on the basis of vehicle type (SUV and Crossovers, Sedans, Premium Luxury, Commercial Vehicles), engine type (Diesel, Gasoline), by end consumers (OEMs, Aftermarket) and by geography (North America, Europe, Asia Pacific, Latin America, Africa & Middle-East). Among the engine type, turbochargers for diesel vehicles comprise the majority of the market. The market for customised turbocharger, would drive the demand for the turbocharger end-consumer market. Borgwarner, Cummins, Garnett are some of the leading vendors in this market.

The Report Offers:

- Market Definition along with identification of key drivers and restraints for the market.
- Market analysis with region specific assessments and competition analysis on the global automotive turbocharger market
- Identification of factors instrumental in changing the market scenarios, rising prospective opportunities and identification of key companies, which can influence the market.
- Extensively researched competitive landscape section with profiles of major companies along with their strategic initiatives and market shares.
- Identification and analysis of the Macro and Micro factors that affect the industry in the region as well as
for the countries.

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