

Automotive Turbocharger Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The automotive turbocharger market was valued at over USD 11.74 billion in 2021, and it is expected to reach over USD 19.17 billion by 2027, while registering a CAGR of around 8.5% during the forecast period, 2022-2027.

The COVID-19 pandemic affected the industry by forcing the manufacturers to shut down assembly lines and pushing the economy down. With almost zero vehicular movements, there were no new requirements for turbochargers to be installed into new vehicles and spare turbochargers for replacements in already present vehicles.

Over the medium term, with the increasing demand for performance and luxury cars, the market is looking to get back into a stable economic condition with good sales projections to meet the potentially high demand. Players in the business seek constructive alliances with OEM and turbocharger suppliers to maintain long-term relations. For instance, In February 2022, SuperTurbo technologies Inc. came under an alliance with Linamar Corp. to market the new automotive turbocharger technology. In addition, McLaren Engineering, a division of Linamar, announced to produce prototypes and will manufacture and test SuperTurbos for the global market soon.

Many car manufacturers consider turbochargers a viable option to keep internal combustion (IC) engines cleaner, thus increasing the share of turbocharged vehicles every year. At the current pace, about half of the cars rolling out of production are expected to be turbocharged by 2022, thereby influencing automakers and tier-1 suppliers to introduce more technologically advanced products.

North America and Europe are expected to witness significant market growth over the forecast period. The North American automotive turbocharger market is set to witness high growth through 2026 due to the implementation of government regulations

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on vehicle emissions. Regulatory bodies, such as the US Environmental Protection Agency (EPA), have introduced stringent emission regulations for on-road vehicles, including passenger vehicles and commercial trucks & buses. The EPA standards enforce automobile manufacturers to produce cleaner engines with more fuel efficiency, spurring the industry statistics.

Automotive Turbocharger Market Trends

Increased Adoption of Petrol Engines Likely to Grow During Forecast Period

Diesel engines have emerged as the dominant fuel type for car companies, as diesel engine emits low CO₂ and offers great performance. However, on the other hand, the diesel proportion of new registrations has been falling gradually for some time, as modern petrol-powered cars are popular and have become better at delivering similar benefits, and this trend is expected to pick up the pace during the forecast period.

A few more reasons had propelled the market for gasoline-type engines, for instance, the Volkswagen diesel emissions scandal in 2015, when Volkswagen supplied around 11 million defective diesel engine cars globally, including eight million in Europe. The diesel car sales are witnessing a declining trend in the region, and the Volkswagen emission scandal resulting in a call back of all faulty vehicles has further resulted in the decline in sales of the company's vehicles. The revelations resulted in a sharp fall in demand for diesel engine cars, which aided in the rise in the demand for gasoline engine cars.

In the United Kingdom, car buyers prefer downsized petrol engines emitting nearly 100g/km CO₂ as a feasible, efficient alternative to diesel engines. Currently, global players, such as Ford, Opel/Vauxhall, Volkswagen, and Hyundai, offer similarly downsized petrol engines, many emitting around 100g/km of CO₂.

Recent developments in turbo petrol engines have engaged several players under strategic alliance for elevating the market potential. For instance, Toyota corporation announced its expansion in 2.0-litre turbo-petrol engine and AWD with Glanza-based GR Starley. The company made this maiden expansion for its 2.0-liter 3S-GTE turbocharged petrol engine.

Petrol-powered engines are moving from naturally aspirated engines to turbocharged engines at a faster rate than ever before. It has been estimated that over the forecast period, 50% of the cars sold may have turbochargers, and similar growth is expected to continue.

The tendency to use turbochargers for diesel engines for improved fuel efficiency and engine performance is slowly changing. The market revenue from diesel turbochargers is slowly shifting toward petrol superchargers, and this shift has been beneficial for the market, considering the emission norms.

Europe Likely to Account for the Largest Market Share During the Forecast Period

The modern car industry is governed by fuel economy and efficiency, which, in turn, is driven by the EU legislation on fuel economy and emissions targets. The Kyoto Protocol required the world to pull its 1990-level emissions back to 8% by 2012, which led to the start of the Euro I vehicle emissions standards of 1993. It covered mostly nitrous oxide and particulate emissions, which increased diesel-engine vehicle sales. However, diesel-engine vehicles shifted to turbocharging to reach EU targets on NO_x. This, in turn, resulted in improving the efficiency of the vehicles and reducing the price of turbochargers.

Europe has become the epicenter of COVID-19 impact, with approximately 50,000 units of lost production in March and April due to stringent plant closures, workplace controls across the region, supply chain challenges, and stay-at-home orders.

Compared to the previous year, the European region's production of commercial vehicles declined by approximately 20% by the

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end of 2020. The sharpest decline in demand is anticipated to be faced by Italy and the United Kingdom in Western Europe and countries, including Poland, in Central Europe, where the trucking industry prominently supports the European goods movement. For instance,

In March 2022, Mercedes-Benz announced the launch of sales of its new Mercedes-AMG C 43 4MATIC with a price starting at EUR 71,460 for the Saloon and EUR 73,245 for the Estate. In this completely redeveloped model performance of the agile, 300 kW (408 hp) AMG engine is enhanced by an electric exhaust gas turbocharger. The belt-driven starter generator (RSG) offers an additional short-term boost of 10 kW (14 hp) in certain driving situations.

In April 2022, Daimler Trucks announced that the third generation of its OM 471 heavy-duty engine is now available to order and available from October 2022. With the third generation of the OM 471, Mercedes-Benz Trucks is introducing two new turbochargers developed and manufactured in-house. The second turbocharger variant has an engine rating of up to 390 kW (530 hp).

Such aforementioned developments are anticipated to positively impact the market during the forecast period.

Automotive Turbocharger Market Competitor Analysis

The automotive turbocharger market is highly consolidated among seven players, Honeywell, BorgWarner, IHI, MHI, Cummins, Bosch-Mahle, and Continental AG. Honeywell constitutes a significant share of the market, followed by BorgWarner, IHI, MHI, Cummins, etc. Bosch and Mahle produce turbochargers under the Bosch-Mahle joint venture.

Players are either following a constructive alliance approach else aggressively launching turbochargers in the market. For instance:

In November 2021, several media sources reported that Cummins has been investing BRL 170 million to produce new Euro 6 engines to meet the demands of the P8 phase of the Proconve program for heavy vehicles, which will become effective in Brazil in 2022. The engines will be equipped with Holset turbochargers. The resources were also used to increase the nationalization of components for Euro 6 engines, a process that required the development of new local suppliers.

In October 2021, Fiat presented its all-new Pulse SUV in Brazil as dealers are now accepting orders throughout the country. Produced at the Betim plant, the Pulse debuts with the 130 hp 1.0-liter Turbo 200 Flex engine, featuring BorgWarner's low inertia turbocharger, which generates 130 hp of maximum power with ethanol (125hp with gasoline) and 200 Nm (20.4 kgf.m) of torque, regardless of fuel.

In October 2021, Angka-Tan Motor (ATM) officially launched the JMC Vigus Pro pick-up truck in Malaysia with starting price of MYR 98,888. According to ATM, the Vigus Pro, which is CKD locally assembled at Tan Chong's Serendah plant, is a new value proposition among pick-up trucks sold in Malaysia. Power comes from a 'Puma' 2.0-liter turbodiesel engine with a variable geometry turbocharger.

Additional Benefits:

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Table of Contents:

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1 INTRODUCTION

1.1 Study Assumptions

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Market Drivers

4.2 Market Restraints

4.3 Industry Attractiveness - Porter's Five Forces Analysis

4.3.1 Threat of New Entrants

4.3.2 Bargaining Power of Buyers/Consumers

4.3.3 Bargaining Power of Suppliers

4.3.4 Threat of Substitute Products

4.3.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION (Market Size in Value USD billion)

5.1 Vehicle Type

5.1.1 Passenger Cars

5.1.2 Commercial Vehicles

5.2 Fuel Type

5.2.1 Gasoline

5.2.2 Diesel

5.3 Sales Channel Type

5.3.1 OEM

5.3.2 Replacement/Aftermarket

5.4 Geography

5.4.1 North America

5.4.1.1 United States

5.4.1.2 Canada

5.4.1.3 Rest of North America

5.4.2 Europe

5.4.2.1 Germany

5.4.2.2 United Kingdom

5.4.2.3 France

5.4.2.4 Italy

5.4.2.5 Rest of Europe

5.4.3 Asia-Pacific

5.4.3.1 China

5.4.3.2 India

5.4.3.3 Japan

5.4.3.4 South Korea

5.4.3.5 Rest of Asia-Pacific

5.4.4 Rest of the World

5.4.4.1 Brazil

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- 5.4.4.2 South Africa
- 5.4.4.3 Other Countries

6 COMPETITIVE LANDSCAPE

- 6.1 Vendor Market Share
- 6.2 Company Profiles*
 - 6.2.1 BorgWarner Inc.
 - 6.2.2 Continental AG
 - 6.2.3 Cummins Inc.
 - 6.2.4 Magnum Performance Turbos
 - 6.2.5 Mitsubishi Heavy Industries Ltd
 - 6.2.6 IHI Corporation
 - 6.2.7 Garrett Motion Inc.
 - 6.2.8 Rotomaster International
 - 6.2.9 Keyyang Precision Co., LTD
 - 6.2.10 BMTS Technology GmbH & Co. KG
 - 6.2.11 Turbo Energy Private Limited

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

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