

# **Global Automotive Turbocharger Market Size Study, By Engine Type (Gasoline, Diesel, Alternative Fuel/CNG), By Technology (Twin Turbo, Variable Geometry Turbocharger, Wastegate Turbocharger, Electric Turbocharger), By Material (Cast Iron, Aluminium, Others), By Operation (Conventional, E-Turbochargers), By Vehicle (Passenger Vehicles, Light Commercial Vehicles, Trucks, Buses & Coaches, Off-Road Vehicles, Industrial Vehicles), By Sales Channel (OEMs, Aftermarket) and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Automotive Turbocharger Market is valued at approximately USD 11.99 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.90% over the forecast period 2024-2032. An automotive turbocharger is a sophisticated forced induction device that enhances the efficiency and power output of an internal combustion engine by compressing the intake air before it enters the combustion chamber. Comprising primarily a turbine and a compressor connected by a shaft, the turbocharger's operation is driven by exhaust gases that propel the turbine, thereby spinning the compressor. This increased air pressure enables more fuel to be burned, resulting in greater power and torque without necessitating a larger engine. Turbochargers are employed across various vehicle types, including passenger cars, trucks, and commercial vehicles, for improved performance, fuel efficiency, and emission reduction.

The automotive turbocharger market is poised for significant growth, propelled by stringent emissions regulations mandating fuel-efficient turbocharged engines, the increasing adoption of downsized engines to meet fuel economy targets, and a growing demand for enhanced engine power and torque in both passenger and commercial vehicles. Notable technological advancements have yielded more efficient and durable turbocharger systems, and the automotive industry's expansion in emerging markets provides ample opportunities for manufacturers. Additionally, the integration of electric and hybrid turbocharger systems further optimizes performance and efficiency. However, the market faces challenges such as the high initial cost of turbocharged engines, concerns over reliability and durability, and issues related to turbocharger lag and response time, which can impact the driving experience.

The Asia Pacific region is expected to have a strong presence in the global market, driven by substantial production of passenger cars and commercial vehicles. Countries like China and India showcase high demand for economy and mid-range cars, with gasoline engines dominating. The trend towards smaller vehicles such as SUVs and crossovers has prompted OEMs to focus on engine downsizing with turbocharger technologies. Furthermore, the region's emphasis on producing commercial vehicles, especially heavy trucks and buses equipped with turbochargers, is significant. Improving socio-economic conditions and industrialization in emerging economies like China, India, Indonesia, and Thailand bolster the demand for turbochargers in the Asia Pacific.

Major market players included in this report are:

Garrett Motion Inc.

BorgWarner Inc.

Cummins Inc.

Mitsubishi Heavy Industries Ltd.

Continental AG

IHI Corporation

Mahle GmbH

Robert Bosch GmbH

Precision Turbo and Engine Inc.

Rotomaster International

The detailed segments and sub-segment of the market are explained below:

By Engine Type:

Gasoline Automotive Turbochargers

Diesel Automotive Turbochargers

Alternative Fuel/CNG

By Technology:

Twin Turbo

Variable Geometry Turbocharger

Wastegate Turbocharger

Electric Turbocharger

By Material:

Cast Iron Automotive Turbochargers

Aluminium Automotive Turbochargers

Other Materials

By Operation:

Conventional Turbochargers

E-Turbochargers

By Vehicle:

Passenger Vehicles

Light Commercial Vehicles

Trucks

Buses & Coaches

Off-Road Vehicles

Industrial Vehicles

By Sales Channel:

OEMs

Aftermarket

By Region: North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

#### Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

#### Latin America

Brazil

Mexico

#### Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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