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Automotive Supercharger Market Report by Component (Harmonic Balancers, Pulleys/Belts, Compressors, Intercoolers, Blowers, and Others), Technology (Centrifugal Supercharger, Roots Supercharger, Twin-Screw Supercharger), Drive Type (Engine Driven Superchargers, Electric Motor Driven Superchargers), Vehicle Type (Passenger Cars, Commercial Vehicles, and Others), End User (OEM, Aftermarket), and Region 2024-2032

https://marketpublishers.com/r/AAADD8634629EN.html
Date: August 2024
Pages: 136
Price: US$ 3,899.00 (Single User License)
ID: AAADD8634629EN

Abstracts

The global automotive supercharger market size reached US$ 8.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 12.6 Billion by 2032, exhibiting a growth rate (CAGR) of 4.7% during 2024-2032. The market is experiencing steady growth driven by the growing demand for high-performance vehicles, such as sports cars, rising focus on enhanced performance of vehicles, and stringent emission standards to combat air pollution and reduce greenhouse gas (GHG) emissions.

Automotive Supercharger Market Analysis:

Market Growth and Size: The market is witnessing stable growth, driven by the growing demand for high-performance vehicles, especially sports and racing cars, along with stringent emission regulations.

Technological Advancements: The introduction of twin-screw and centrifugal superchargers assists in enhancing efficiency and reliability. The rising focus on electric superchargers to align with green technologies is also propelling the

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market growth.

Industry Applications: Automotive superchargers find application in various vehicle types, such as high-performance sports cars, racing vehicles, and passenger vehicles, seeking improved power and acceleration.

Geographical Trends: North America leads the market, driven by the increasing focus on reducing carbon emissions. However, Asia Pacific is emerging as a fast-growing market due to stringent emission standards to reduce carbon footprint while maintaining a cleaner environment.

Competitive Landscape: Key players are focusing on developing advanced supercharger technologies that offer improved efficiency, power delivery, and compatibility with various engine types.

Challenges and Opportunities: While the market faces challenges, such as meeting evolving emission regulations while maintaining performance, it also encounters opportunities in rising demand for electric vehicles (EVs).

Future Outlook: The future of the automotive supercharger market looks promising, with the increasing adoption of green technologies. The rising demand for electric superchargers is anticipated to propel the market growth.

Automotive Supercharger Market Trends:

Rising focus on enhanced performance

The integration of superchargers by original equipment manufacturers (OEMs) is propelling the growth of the market. In addition, OEMs are increasingly recognizing the value of offering superchargers as factory-installed options in their vehicle lineup. Moreover, the rising employment of superchargers in vehicles to provide enhanced performance is contributing to the market growth. Apart from this, people are seeking high-performance vehicles that offer enhanced power and responsiveness. Furthermore, OEM integration also assures people about the quality and compatibility of supercharger systems with the vehicle, reducing concerns about aftermarket modifications. It also aligns with the efforts of automakers to cater to diverse preferences of individuals while maintaining competitiveness. In line with this, OEMs have the resources and engineering expertise to optimize supercharger systems for

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specific vehicle models, ensuring seamless integration and efficient performance. As a result, the increasing awareness among individuals about the importance of convenience and reliability of factory-installed superchargers is supporting the market growth.

Growing demand for high-performance vehicles

The escalating demand for automotive superchargers on account of the rising adoption of high-performance vehicles among the masses across the globe is propelling the market growth. In line with this, people are increasingly preferring vehicles that offer exhilarating acceleration and superior power. Moreover, there is an increase in the need for quicker acceleration in various driving scenarios. Apart from this, high-performance vehicles, such as sports and racing cars, often incorporate superchargers to boost engine power. Superchargers provide an immediate power increase, resulting in faster acceleration and enhanced overall performance. As a result, automakers are increasingly incorporating superchargers into their high-performance vehicle models to meet the preferences of individuals. Additionally, the growing demand for high-end vehicles due to inflating income levels of individuals is offering a positive market outlook. Besides this, high-performance vehicles provide an attractive look and cater to the unique needs of people. There is a rise in the demand for fast-speed and comfortable vehicles among racers.

Stringent emission regulations

Governing agencies of various countries are imposing stringent emission standards to combat air pollution and reduce greenhouse gas (GHG) emissions, which is strengthening the growth of the market. Automakers face the challenge of meeting these regulations while still delivering powerful and fuel-efficient vehicles, and superchargers play a crucial role in addressing this challenge. In addition, superchargers enable automakers to achieve a balance between performance and emissions control by increasing engine efficiency and power output. Moreover, they are particularly valuable in downsized engines that aim to maintain or enhance performance levels while reducing engine displacement. Apart from this, automakers are focusing on improving fuel efficiency without sacrificing power, which is contributing to the market growth. Furthermore, superchargers deliver instant power and torque, compensating for the reduced engine size and enabling compliance with emission standards. In line with this, rising environmental concerns among the masses worldwide are bolstering the market growth.

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Automotive Supercharger Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on component, technology, drive type, vehicle type, and end user.

Breakup by Component:

- Harmonic Balancers
- Pulleys/Belts
- Compressors
- Intercoolers
- Blowers
- Others

The report has provided a detailed breakup and analysis of the market based on the component. This includes harmonic balancers, pulleys/belts, compressors, intercoolers, blowers, and others.

Harmonic balancers, also known as crankshaft pulleys, are an essential component of supercharger systems. Besides this, they are responsible for dampening vibrations in the crankshaft of the engine. In addition, the increasing demand for harmonic balancers, as they assist in maintaining the stability and balance of the engine and preventing excess vibrations, is propelling the growth of the market.

Pulleys/belts are crucial for transmitting power from the engine to the supercharger. Moreover, they connect the supercharger to the crankshaft of the engine and enable the rotation of the compressor of supercharger. Apart from this, these components play a pivotal role in regulating the speed and efficiency of the supercharger and impacting its performance.

Compressors are responsible for compressing air before it enters the intake manifold of

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the engine. Furthermore, superchargers have different types of compressors, such as screw, twin-screw, or centrifugal, each with its unique advantages. In addition, the choice of compressor type directly influences the performance characteristics of superchargers.

Intercoolers are essential components that cool down the compressed air before it enters the engine. Cooler air is denser and contains more oxygen, improving engine efficiency and power output. Additionally, they are beneficial in enhancing the overall performance of the supercharged engine. Intercoolers are particularly crucial in high-performance and racing applications.

Blowers, also known as supercharger units, are responsible for compressing air and delivering it to the engine. They are widely available in various designs, such as roots-type, twin-screw, or centrifugal, each offering different performance characteristics. In line with this, blowers are the primary mechanism for delivering compressed air to the engine.

Breakup by Technology:

Centrifugal Supercharger

Roots Supercharger

Twin-Screw Supercharger

Centrifugal supercharger holds the largest market share

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes centrifugal supercharger, roots supercharger, and twin-screw supercharger. According to the report, centrifugal supercharger accounted for the largest market share.

Centrifugal supercharger operates on a centrifugal compressor design, where a high-speed impeller draws in and compresses air before delivering it to the engine. These superchargers are known for their efficiency and relatively compact size, making them suitable for various vehicle applications. In addition, centrifugal superchargers are favored for their linear power delivery and provide a smooth and consistent increase in engine performance.

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Roots supercharger employs a pair of counter-rotating lobed rotors to move air into the engine. Moreover, these superchargers are known for their instant power delivery, making them popular for applications where immediate torque and power are required. Besides this, they have a characteristic whining sound, which is appreciated by individuals for its unique auditory experience.

Twin-screw supercharger utilizes two rotors with intermeshing screws to compress air. These superchargers offer a combination of immediate low-end torque and high-end power, making them versatile for various vehicle types. Apart from this, twin-screw superchargers are known for their high efficiency and consistent power delivery throughout the revolutions per minute (RPM) range.

Breakup by Drive Type:

Engine Driven Superchargers

Gasoline

Diesel

Electric Motor Driven Superchargers

Engine driven superchargers represent the leading market segment

The report has provided a detailed breakup and analysis of the market based on the drive type. This includes engine driven superchargers (gasoline and diesel) and electric motor driven superchargers. According to the report, engine driven superchargers represented the largest segment.

Engine driven superchargers, also known as mechanically driven superchargers, are powered directly by the internal combustion engine of the vehicle. In addition, gasoline engine-driven superchargers are typically used in gasoline-powered vehicles. They are connected to the crankshaft of the engine via a pulley and belt system. On the other hand, diesel engine driven superchargers are mechanically connected to the engine and increase air intake, leading to improved power and torque. Diesel superchargers are often used in applications, such as trucks and heavy-duty vehicles, where torque and towing capacity are essential.

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Electric motor driven superchargers are known for their quick response and precise control. They can deliver instant power and torque, enhancing engine performance even at low revolutions per minute (RPM). Additionally, these superchargers are often used in hybrid vehicles and some high-performance sports cars. In hybrid applications, they provide an extra boost during acceleration. These superchargers benefit in reducing parasitic drag on the engine as they are not mechanically linked to it.

Breakup by Vehicle Type:

Passenger Cars

Commercial Vehicles

Others

Passenger cars account for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the vehicle type. This includes passenger cars, commercial vehicles, and others. According to the report, passenger cars represented the largest segment.

Passenger cars are used to transport passengers from one place to another. They comprise various subtypes, such as sedans, hatchbacks, sports utility vehicles (SUVs), and sports cars. Superchargers are often integrated into high-performance passenger cars to enhance engine power, acceleration, and overall driving experience. Besides this, the rising employment of superchargers in sports cars to deliver exhilarating performance is bolstering the market growth. In passenger cars, superchargers are often integrated into sports and luxury models, where the focus is on delivering impressive speed and responsiveness.

Commercial vehicles encompass a wide range of vehicles designed for commercial purposes, including trucks, vans, buses, and industrial vehicles. Superchargers are employed in commercial vehicles to address specific performance and functional requirements. In line with this, superchargers can enhance engine efficiency, especially in heavy-duty and long-haul trucks. Commercial vehicles equipped with superchargers may experience improved towing capacity, reduced lag in acceleration, and enhanced overall engine performance.

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Breakup by End User:

OEM

Aftermarket

OEM holds the biggest market share

The report has provided a detailed breakup and analysis of the market based on the end user. This includes OEM and aftermarket. According to the report, OEM represented the largest segment.

Original equipment manufacturers (OEMs) are companies responsible for the design and production of new vehicles. Superchargers are integrated directly into vehicles during the manufacturing process. These factory-installed superchargers are designed to meet the specific performance and engineering requirements of the vehicle model. OEMs often incorporate superchargers into high-performance and specialty vehicle models, such as sports cars, muscle cars, and luxury vehicles. Superchargers enhance the power output of the engine, delivering a high performance.

Aftermarket involves the sale and installation of superchargers in vehicles after they have left the factory. This includes parts and components sold by third-party manufacturers, dealerships, and auto shops. Individuals who desire improved engine performance, whether for sports cars, modified vehicles, or regular passenger cars, often turn to the aftermarket for supercharger installations. Apart from this, aftermarket superchargers offer flexibility and customization options. People can choose from various supercharger brands, types, and sizes as per their preferences.

Breakup by Region:

North America

United States

Canada

Asia Pacific

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China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

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Middle East and Africa

North America leads the market, accounting for the largest automotive supercharger market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share due to the rising demand for vehicles that deliver improved power and acceleration. In addition, the increasing adoption of superchargers to enhance engine efficiency and reduce emissions on account of stringent emission regulations is propelling the market growth. Besides this, the rising number of racing circuits and motorsports events is contributing to the market growth in the region.

Asia Pacific stands as another key region in the market, driven by the presence of key automotive manufacturers. In line with this, the growing demand for passenger cars and high-performance vehicles due to rapid urbanization is offering a positive market outlook. Furthermore, the rising focus on maintaining environmental sustainability, along with stringent emissions standards, is supporting the market growth.

Europe maintains a strong presence in the market, with the increasing production of high-performance and luxury vehicles. In addition, the growing demand for superchargers, as they enhance engine power, torque, and overall performance of vehicles, is positively influencing the market. Furthermore, superchargers are increasingly adopted by automakers in Europe to enhance engine efficiency while complying with environmental standards.

Latin America exhibits growing potential in the automotive supercharger market on account of the rising adoption of high-performance cars among the masses. In line with this, the increasing awareness among individuals about the importance of maintaining a cleaner environment is contributing to the market growth.

The Middle East and Africa region shows a developing market for automotive supercharger, primarily driven by the rising demand for supercharger-equipped vehicles, particularly in sports and racing cars. Apart from this, the increasing focus on

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enhancing the performance of vehicles is strengthening the market growth.

Leading Key Players in the Automotive Supercharger Industry:

Key players in the market are developing advanced supercharger technologies that offer improved efficiency, power delivery, and compatibility with various engine types. They are also introducing superchargers that are more compact, lightweight, and capable of higher compression ratios while minimizing energy losses. In line with this, companies are developing superchargers that help reduce emissions while maintaining or enhancing engine performance. Moreover, companies are engaging in collaborations and partnerships with original equipment manufacturers (OEMs) to work closely with automakers to develop supercharger solutions tailored to specific vehicle models. Furthermore, manufacturers are focusing on providing supercharger kits and components for individuals preferring to customize and enhance the performance of their vehicles.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

A&A Corvette Performance Ltd.

Daimler AG

Eaton Corporation

Federal-Mogul (Tenneco Inc.)

Ferrari N.V. (Exor)

Ford Motor Company

Honeywell International Inc.

Ihi Corporation

Mitsubishi Heavy Industries Ltd.

Pagani Automobili S.p.A. (Horacio Pagani SPA)

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Porsche AG (Volkswagen AG)

Rotrex A/S (Formkon Holding ApS)

Valeo

Vortech Engineering

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Latest News:

November 1, 2022: Eaton Corporation launched its Twin Vortices Series (TVS®) X3100 supercharger for aftermarket applications. A new design based on both the R-Series and V-Series rotors, the X-Series was developed specifically for aftermarket consumers whose primary goal is maximum airflow efficiency at higher supercharger speeds. The X-series rotor is a three-lobe, high-twist design that moves 30% more air than the R2650 at comparable pulley speeds while maintaining the same design footprint within the engine compartment.

October, 2023: Ford Motor Company announced that it will add over 15,000 of Superchargers of Tesla to its network, up from its earlier projection of 12,000 chargers. The addition of more chargers offers some relief to EV owners who are facing issues related to charging. It provided people an access of three new charging providers, known as Francis Energy, Blink and Red E across the U.S. and Canada, with embedded charger routing and simple payment options via FordPass.

July, 2023: Daimler AG announced that Mercedes-Benz electric vehicle drivers will have access to more than 12,000 Tesla superchargers in North America starting in 2024. In addition, Mercedes-Benz will initially offer an adapter to enable charging on the North American Charging Standard (NACS) network. It allows drivers to seamlessly access the chargers and automatically pay for their charging sessions.

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Key Questions Answered in This Report:

How has the global automotive supercharger market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global automotive supercharger market?

What is the impact of each driver, restraint, and opportunity on the global automotive supercharger market?

What are the key regional markets?

Which countries represent the most attractive automotive supercharger market?

What is the breakup of the market based on the component?

Which is the most attractive component in the automotive supercharger market?

What is the breakup of the market based on the technology?

Which is the most attractive technology in the automotive supercharger market?

What is the breakup of the market based on the drive type?

Which is the most attractive drive type in the automotive supercharger market?

What is the breakup of the market based on the vehicle type?

Which is the most attractive vehicle type in the automotive supercharger market?

What is the breakup of the market based on the end user?

Which is the most attractive end user in the automotive supercharger market?

What is the competitive structure of the market?

Who are the key players/companies in the global automotive supercharger

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