

Automotive Brake Caliper - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Automotive Brake Caliper Market size is estimated at USD 9.97 billion in 2024, and is expected to reach USD 13.5 billion by 2029, growing at a CAGR of greater than 3.80% during the forecast period (2024-2029).

The demand for the automotive brake caliper market is mainly attributed to increasing concerns toward vehicle safety, growing adoption of disc brakes in vehicles over drum brakes, governments' vehicle safety norms, and growth in global vehicle production. These factors are anticipated to boost the market's growth during the forecast period.

Considering the scenario, brake caliper manufacturers are adopting advanced technologies. In June 2023, Continental developed a brake caliper that reduces brake dust and meets the brake dust regulations, as Euro 7 emission regulations are scheduled to come into effect from July 2025.

Selecting the correct replacement brake linings is an important component in the overall safety of the vehicle. The gradual shift toward lightweight and composite materials to produce lighter electric and hybrid vehicles and develop advanced braking systems for upcoming vehicles are expected to boost the market's growth. Government regulations and standards have mainly contributed toward the adoption of brake calipers in vehicle safety modules.

In June 2023, the National Highway Safety Administration proposed a new Federal Motor Vehicle Safety Standard. It directs that light vehicles should require automatic emergency braking (AEB) systems, including pedestrian AEB (PAEB).

The FMVSS standards are designed to ensure that new vehicles can stop within a certain distance, which is necessary for safe driving. Currently, FMVSS 135 and 126 standards are applied to new cars and most vehicles on the road. Compared to the earlier FMVSS 105 standard, FMVSS 135 requires ~25% reduction in pedal effort for the same stopping distance.

The Euro 7 emission standards, set to take effect in July 2025, are described as the most stringent regulations, extending beyond traditional tailpipe emissions to encompass electric vehicles (EVs). Reports indicate that these upcoming regulations will, for the first time, govern the quantity of brake dust produced and the release of microplastics from tire wear.

As consumers are gaining awareness about advanced safety features and technologies, companies are also focusing on manufacturing vehicles with advanced safety systems. This factor may boost the market's growth during the forecast period.

Automotive Brake Caliper Market Trends

Fixed Brake Calipers are Expected to be in High Demand

The automotive brake caliper market is driven by research, development, and innovation. New technologies are being discovered to manufacture reliable braking parts and components that can be incorporated well into an automobile.

Some key players, such as Honda, BMW, Toyota, Mercedes-Benz, and Nissan, aspire to offer the best braking systems to help vehicles stop at minimum distance and time without any jerks and shocks to the passenger inside. 3-D printing and additive manufacturing have allowed manufacturers to produce complex parts and components. Growth in adventure sports and racing is expected to fuel the expansion of the brake caliper market.

Fixed brake calipers are expected to be in high demand as they offer advantages like weight reduction and residual torque to vehicles. The growing demand for high-performance and low-carbon-emitting vehicles is expected to fuel the need for fixed brake calipers. The high-pressure die-casting process is likely to gain significant momentum in the industry as it is extensively used in making steel calipers.

With the growing automotive demand, brake caliper manufacturers are working to provide new offerings and technologies to the market. For instance, in November 2023,

Neotech revolutionized automotive performance with the launch of an advanced 6 Piston Brake Caliper at SEMA 2023.

Asia-Pacific is Expected to Hold a Major Share in the Market

Asia-Pacific is expected to hold a major share of the market studied during the forecast period. The regional growth is mainly driven by the top-producing automotive countries like India, China, and Japan. Moreover, the growing demand for passenger vehicles in these markets is due to the growing disposable income of the population, the rising automotive industry, the growing availability of loans and funding to purchase new vehicles, and many others.

For instance, the Indian automotive industry is dominated by passenger car sales, which include small and mid-sized cars. The total number of automobiles exported stood at 42,85,809 in the previous year.

Automotive brake calipers play an important role in vehicles as they are complex arrangements of components with the sole objective of slowing down or bringing the vehicle to a complete stop.

Therefore, as per the above-mentioned factors, Asia-Pacific is expected to hold the largest market share in the automotive industry, thereby boosting the demand for automotive brake caliper market.

Automotive Brake Caliper Industry Overview

The automotive brake caliper market is consolidated and led by globally and regionally established players. The companies are adopting strategies such as new product launches, collaborations, and mergers to sustain their market positions. For instance,

In December 2023, Apec Automotive elevated its braking capabilities with a significant expansion, introducing 32 new part numbers to its diverse range, including six brake calipers designed to enhance stopping power across various vehicles.

In September 2023, Continental unveiled the expansion of its aftermarket ATE

electronic parking brake calipers, catering to over 5 million vehicle identification numbers (VIO), including popular European brands like BMW, Volkswagen, Audi, and Volvo between 2016 and 2021.

In June 2023, Continental introduced a new Green Caliper to reduce brake dust and energy consumption, catering to electric vehicles (EVs) by leveraging both regenerative and conventional braking systems.

Comline's caliper range has stood out in the UK automotive brake market since its debut in 2020, offering over 1,000 unique caliper references bolstered by the brand's esteemed reputation.

Some of the major players in the market include Continental AG, Automotive Brake Engineering (ABE), Robert Bosch GmbH, and ZF Friedrichshafen AG.

Additional Benefits:

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