

Europe Automotive Anti-Lock Braking System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The Europe Automotive Anti-Lock Braking System Market size is estimated at USD 20.35 billion in 2024, and is expected to reach USD 27.62 billion by 2029, growing at a CAGR of 6.30% during the forecast period (2024-2029).

Key Highlights

- COVID-19 had a severe impact on the market due to the indirect consequence of low automotive production and sales registered in 2020 due to the pandemic. However, with the expected increase in sales of passenger vehicles and increased awareness of safety in both passenger and commercial vehicles, the market is looking forward to reviving and growing economically back to pre-covid conditions.
- Over the long term, Growing production of vehicles with integrated safety features in the wake of rising awareness toward the comfort and safety of passengers and government regulations mandating safety features are expected to drive demand in the market. Moreover, the rising acceptance of self-driving or automated vehicles further contributes to the enhanced growth of the market.
- Nowadays, an anti-lock braking system (ABS) is used in every modern car. It automatically provides optimum braking force short of lockup. The computers modulate the brake pressure to ensure that all wheels maintain traction, allowing them to brake and steer simultaneously.
- Europe is known for its swift and stringent adaption toward road safety. Countries such as Germany and the United Kingdom have mandated entry-level vehicles to install ABS systems just as important as seatbelts seen today in every car.
- However, ABS in 2-wheelers, especially in cost-conscious markets, sometimes offer options for a single channel, with only a front wheel equipped with an ABS. Additionally, entry-level cars are not provided by ABS with a higher safety system. However, with emerging technologies and growing government policies, entry-level and 2- wheelers may see higher adoption of ABS systems since results have shown that even a lower ABS-equipped system may increase braking distances.

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Europe Automotive Anti-Lock Braking System Market Trends

Government Regulations Likely to Drive Adoption of ABS in Passenger Cars

- The automotive anti-lock braking system market is primarily driven by the growing demand for vehicle safety and control systems in automobiles, such as anti-lock brakes (ABS). Furthermore, the implementation of strict regulations dictating safety standards, and the launch of various programs highlighting the importance of vehicle safety, have fuelled market expansion.
- In Europe, all new passenger cars must be equipped with ABS since 2004. The United States took nearly a decade to mandate ABS in all new passenger cars. The National Highway Traffic Safety Administration (NHTSA) mandated ABS in conjunction with Electronic Stability Control (ESC) under the provisions of the March 2007 Federal Motor Vehicle Safety Standard (FMVSS) No. 126.
- The increasing safety standards in the automotive industry across the region are driving market growth, where all new passenger cars are sold with ABS as a standard feature.
- For 4-wheelers, research indicates ABS is quite useful, reducing the overall crash-involvement rate by 6% in passenger cars and 8% in lightweight vehicles for non-fatal crashes, which is statistically significant. However, for fatal crashes, antilock brake systems (ABS) have close to a zero-net effect on the crash involvement, and ABS brakes do not appear to have any effect on rear-end collisions.
- In 2-wheelers, 93% of motorcycle falls may have been avoided or reduced the severity of the accident. Additionally, a reduction in fatal and severe injuries to motorcycle drivers by 8 to 10% suggests that ABS may reduce the number of crash victims, especially on wet pavements, by improving overall vehicle stability during braking, preserving the ability to steer, and reducing stopping distances on many surfaces.
- The government mandates the anti-lock braking system in vehicles across the region, which in turn is likely to enhance the demand for the system in coming years.
- For instance, in March 2023, The European Transport Safety Council (ETSC) mandated anti-lock braking systems (ABS) on all new motorcycles, including those under 125cc.
- With the above-mentioned development across the region, the market is likely to witness major growth for the market during the forecast period.

Germany Leads the European Market for ABS Usage

- Governments are making continuous efforts across the world to reduce the rate of accidents. Mandating the anti-lock braking systems market in all automobiles is expected to remain the driving factor.
- European Transport Safety Council (ETSC) called for automated emergency braking systems to be fitted as standard on new cars in the EU. However, options were available as an extra feature, especially on low-cost vehicles. Nevertheless, ETSC believes that ABS technology, along with Electronic Stability Control (ESC), should be compulsory for cars in the EU governments worldwide to reduce the rate of accidents.
- Germany is one of the leading vehicle manufacturing countries across the globe. The country has the major presence of housing industry giants such as Volkswagen, Daimler-Mercedes, BMW, Porsche, etc. The automotive industry in the country accounts for much of the R&D spending of the country, with a share of over 35%. Several presences of automotive tier-1 suppliers, such as Robert Bosch, Continental AG, and others across the country, are likely to witness major growth in the market during the forecast period.
- Additionally, the country introduced incentives and investments, like purchase grants, ownership tax, and company car tax, to promote clean cars. The adoption rate of hybrid electric vehicles witnessed a rate higher than 100%. This would positively impact

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the target market growth.

Europe Automotive Anti-Lock Braking System Industry Overview

The European automotive anti-lock braking system market is dominated by several key players, such as Robert Bosch GmbH, Autoliv Inc., Continental AG, DENSO Corporation, and ZF Friedrichshafen AG, among others. As the demand for anti-lock braking is growing in the region, OEM manufacturers are trying to have an edge over their competitors by making joint ventures and partnerships and launching new products with advanced technology. For instance,

In June 2022, Likino Bus Plant (LIAZ), a wholly owned subsidiary of GAZ, introduced an i-CITYMAX 18 electric bus of extra-large class in Russia. The i-CITYMAX 18 is equipped with an electronic-pneumatic braking system (EBS), anti-lock braking system (ABS), anti-slip regulation system (ASR), and electronic parking brake (EPB).

In March 2022, Haldex signed a long-term agreement with KRONE Commercial Vehicle Group to supply the fourth-generation Electronic Brake System (EBS) platform for trailers.

In January 2022, Ineos Styrolution announced the start of ABS production in Wingles, France, having completed the conversion of an existing polystyrene line to the production of ABS. This move makes Wingles the company's third ABS production site in Europe, together with Antwerp, Belgium, and Cologne, Germany.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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