

# **Anti-Lock Braking System Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sub-System (Sensors, Electronic Control Unit (ECU), and Hydraulic Unit), By Vehicle Type (Two-Wheeler, Passenger Car, and Commercial Vehicles), By Region & Competition,al, By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Anti-Lock Braking System Market is projected to expand from USD 50.16 Billion in 2025 to USD 84.54 Billion by 2031, achieving a CAGR of 9.09%. As a critical safety mechanism, the Anti-Lock Braking System is engineered to prevent wheels from locking during braking maneuvers, thereby ensuring the driver retains steering control and adequate traction. The market's growth is primarily underpinned by the enforcement of strict government mandates regarding vehicle safety standards, alongside a global rise in automotive production rates. These regulatory obligations necessitate that manufacturers standardize active safety technologies across both commercial and passenger vehicle segments to effectively lower accident rates.

Despite this promising growth trajectory, the market faces a substantial obstacle in the form of volatile raw material and electronic component costs, which exert pricing pressure on manufacturers. While high production volumes demand resilient supply chains, cost instability creates significant barriers for suppliers striving to sustain competitive pricing. According to the International Organization of Motor Vehicle Manufacturers, global motor vehicle production reached 92.5 million units in 2024. This statistic underscores the massive scale of demand that safety system suppliers are required to fulfill, even as they manage the financial intricacies associated with component manufacturing.

## Market Driver

The enforcement of rigorous global vehicle safety regulations acts as a primary driver for the Anti-Lock Braking System market. Governments across the world are implementing stricter standards to reduce road fatalities, necessitating the universal adoption of advanced braking technologies, such as ABS and Automatic Emergency Braking (AEB), in both passenger and commercial vehicles. These regulatory frameworks force automotive manufacturers to incorporate active safety systems as standard equipment rather than optional upgrades to ensure compliance. According to the National Highway Traffic Safety Administration's April 2024 announcement regarding the 'NHTSA Finalizes Key Safety Rule to Reduce Rear-End and Pedestrian Crashes', the new standard requiring AEB on all new passenger cars and light trucks is expected to save at least 360 lives and prevent a minimum of 24,000 injuries annually, ensuring sustained demand for braking components.

Additionally, the extension of ABS mandates into the two-wheeler sector is a critical factor propelling market growth, particularly within high-volume developing economies. With increasing urbanization and rising motorcycle usage, authorities are mandating safety features to mitigate high accident rates involving two-wheelers, which directly increases the procurement of compact ABS units. Supporting this trend, the Society of Indian Automobile Manufacturers reported in their 'Auto Industry Sales Performance of March 2024' that domestic two-wheeler sales in India reached 17.97 million units for the financial year 2023-24. Consequently, suppliers are expanding operations to satisfy this demand while preserving profitability, a sentiment reflected by Robert Bosch GmbH, which reported that its Mobility business sector generated sales of 56.3 billion euros in the previous fiscal year, highlighting the robust global demand for safety solutions.

## Market Challenge

A significant obstacle to the growth of the Global Anti-Lock Braking System Market is the fluctuating cost of raw materials and electronic components. Because ABS units depend heavily on semiconductors, sensors, and specific metals, they are highly susceptible to price volatility within the supply chain. Unpredictable increases in input costs erode profit margins and heighten financial risks for manufacturers, leading to a hesitation to invest in essential capacity expansions or advanced research and development. This volatility effectively stalls production scalability and makes it difficult for suppliers to offer competitive pricing to automotive OEMs, potentially resulting in delayed contract fulfillment and a slowdown in the broader standardization of these

safety systems.

The severity of these financial pressures is illustrated by recent industry performance metrics. According to the European Association of Automotive Suppliers (CLEPA), data from late 2024 indicates that approximately 38% of automotive suppliers expected to operate at break-even levels or face financial losses due to persistent cost pressures. This statistic reveals that a substantial segment of the supply base is financially compromised, which directly restricts their capacity to meet the intense volume demands of the global market and hampers the overall growth trajectory of the ABS sector.

## **Market Trends**

The shift toward integrated brake-by-wire architectures marks a fundamental technological transition in the market, motivated by the demand for software-defined vehicle capabilities and improved safety redundancy. Unlike conventional hydraulic systems, these advanced architectures separate the brake pedal from the physical braking mechanism, using electronic signals to actuate calipers. This innovation facilitates faster pressure buildup and precise control, which are requisite for higher levels of vehicle automation. A significant validation of this technology was seen when suppliers began securing major commercial agreements for these systems; according to a January 2025 press release from ZF Friedrichshafen AG titled 'ZF Secures Brake-by-Wire Milestone', the company finalized a contract to equip nearly 5 million vehicles with its Electro-Mechanical Braking (EMB) system, underscoring the rapid industrial adoption of next-generation braking solutions.

Concurrently, the integration of anti-lock braking systems with regenerative braking technologies is gaining momentum due to the exponential expansion of the electric vehicle sector. Electric drivetrains necessitate specialized ABS algorithms that can seamlessly merge regenerative deceleration with friction braking to ensure vehicle stability without sacrificing energy recovery efficiency. This demand is directly linked to the surging production of new energy vehicles, requiring high-performance braking control units capable of managing instantaneous electric torque. According to the China Association of Automobile Manufacturers (CAAM) report 'China produced and sold 31.282 million and 31.436 million vehicles in 2024', released in January 2025, sales of New Energy Vehicles (NEVs) reached 12.87 million units in 2024, representing a 35.5% increase that is actively reshaping procurement strategies for compatible stability control components.

## Key Market Players

Robert Bosch GmbH

Continental AG

ZF Friedrichshafen AG

Advics Co. Ltd

ZF Group

HL Mando Corporation

Astemo Ltd

Nissin Kogyo Co. Ltd

BWI Group

Haldex AB

## Report Scope

In this report, the Global Anti-Lock Braking System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Anti-Lock Braking System Market, By Sub-System

Sensors

Electronic Control Unit (ECU)

Hydraulic Unit

Anti-Lock Braking System Market, By Vehicle Type

Two-Wheeler

Passenger Car

Commercial Vehicles

## Anti-Lock Braking System Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

## South America

Brazil

Argentina

Colombia

## Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Anti-Lock Braking System Market.

## Available Customizations:

Global Anti-Lock Braking System Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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