

# **Global Anti-Lock Braking System Market Segmented By Sub-System (Sensors, Electronic Control Unit (ECU), and Hydraulic Unit), By Vehicle Type (Two-Wheeler, Passenger Car, and Commercial Vehicles), By Regional, Competition Forecast & Opportunities, 2018 – 2028F**

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## **Abstracts**

The Global Anti-Lock Braking System (ABS) Market achieved a valuation of USD 47 Billion in 2022 and is poised for robust growth throughout the forecast period, projecting a Compound Annual Growth Rate (CAGR) of 8.9% until 2028. The ABS market has undergone significant evolution, playing a pivotal role in enhancing vehicle safety and control. ABS is an advanced automotive safety system designed to prevent wheel lockup during braking, thereby preventing skidding and maintaining steering control. This technology has become an integral component of modern vehicles, contributing substantially to the reduction of road accidents and fatalities. The widespread adoption of ABS is primarily driven by the growing emphasis on road safety and regulatory standards.

Key Market Drivers:

### 1. Regulatory Standards and Safety Mandates:

A primary driver behind the adoption of ABS is the enforcement of regulatory standards and safety mandates. Governments and regulatory bodies worldwide have recognized ABS's potential to enhance road safety and have mandated its implementation in vehicles. These regulations require vehicles to meet specific safety requirements, including ABS functionality, promoting safer driving conditions for both motorists and

pedestrians.

## 2. Advancements in Technology:

Technological advancements in ABS have played a pivotal role in driving its market growth. While early iterations of ABS focused on preventing wheel lockup during braking, the technology has evolved to include more sophisticated features. Electronic Stability Control (ESC), an advanced iteration of ABS, intervenes in instances of understeer or oversteer, enhancing overall vehicle stability.

## 3. Enhanced Vehicle Safety and Reduced Accidents:

The increasing concern for vehicle safety has led to heightened demand for advanced safety features like ABS. Consumers seek vehicles equipped with technologies that mitigate risks and prevent accidents. ABS provides improved stability, shorter braking distances, and better control during emergency maneuvers, making it a sought-after safety feature for both consumers and manufacturers.

## 4. Increasing Consumer Awareness:

As consumer awareness of the benefits of ABS grows, its adoption is fostered. Educating drivers about ABS's advantages in preventing skidding and maintaining steering control boosts the demand for vehicles equipped with this technology. Automotive manufacturers and regulatory bodies collaborate to communicate ABS's significance as a fundamental safety feature.

## 5. Commercial Vehicle Safety and Stability:

The commercial vehicle sector significantly contributes to the ABS market's growth. ABS addresses stability concerns in trucks, buses, and other commercial vehicles, particularly during braking. By preventing wheel lockup and maintaining stability under heavy loads, ABS plays a crucial role in reducing accidents, protecting cargo, and ensuring driver and passenger safety in commercial vehicles.

## 6. International Trade and Harmonization:

International trade and harmonization efforts have facilitated ABS adoption across global markets. As vehicles are manufactured for export to various countries, automakers incorporate standardized safety features, including ABS, to comply with

international regulations and reach a wider consumer base. This harmonization of safety standards encourages the widespread integration of ABS in vehicles sold worldwide.

## 7. Technological Integration in Modern Vehicles:

ABS has become a foundational element of modern vehicle safety systems, often integrated with other technologies like traction control, electronic brake-force distribution, and adaptive cruise control. The convergence of these technologies enhances overall vehicle safety and control, driving the demand for ABS integration.

### Key Market Challenges:

#### 1. Technological Complexities and Integration:

As vehicles become more sophisticated and interconnected, integrating ABS seamlessly within complex systems, including Electronic Stability Control (ESC) and Autonomous Emergency Braking (AEB), presents a challenge. Manufacturers must navigate these complexities to maintain the effectiveness and reliability of ABS in diverse driving scenarios.

#### 2. Market Saturation and Compliance:

In regions where ABS regulations have been in place for an extended period, the market may face saturation, with a substantial portion of vehicles already equipped with the technology. Ensuring the quality and performance of existing ABS systems becomes essential, alongside maintaining compliance with safety regulations.

#### 3. Cost Considerations and Affordability:

The cost of implementing ABS technology can pose a challenge, particularly for vehicles in lower price segments or emerging markets. Striking a balance between advanced safety features and affordability is crucial for broader adoption. Cost constraints can impact adoption rates, particularly in price-sensitive markets.

#### 4. Standardization and Compatibility:

Diverse regulatory requirements across countries can complicate standardization and compatibility efforts. Ensuring that vehicles meet varying ABS regulations in different

markets while maintaining global standardization requires coordinated efforts among manufacturers, regulatory bodies, and industry stakeholders.

#### 5. Education and Awareness:

Educating consumers about the benefits and functionality of ABS is essential to foster its adoption. Manufacturers and regulatory bodies need to collaboratively communicate ABS's importance as a fundamental safety feature that enhances vehicle control and prevents accidents.

#### 6. Compatibility with Non-Paved Terrains:

Adapting ABS algorithms to effectively function on non-paved terrains presents a challenge. Developing ABS systems that cater to both on-road and off-road scenarios requires thorough testing and calibration to maintain vehicle stability and control.

#### 7. Integration with Autonomous Vehicles:

Integrating ABS into autonomous vehicles, which rely on a combination of sensors and algorithms for driving decisions, presents complexity. Ensuring seamless interactions between autonomous control and braking systems requires careful consideration.

#### Key Market Trends:

##### 1. Integration with Advanced Safety Systems:

ABS integration with other advanced safety systems, such as Electronic Stability Control (ESC) and Autonomous Emergency Braking (AEB), is a significant trend. This integration enhances vehicle stability, traction, and collision avoidance, offering a holistic approach to preventing accidents.

##### 2. Regulatory Mandates and Safety Standards:

Continued growth in the ABS market is driven by regulatory mandates and safety standards. Global recognition of ABS's role in reducing accidents leads to widespread integration. ABS remains a critical safety feature for both passenger cars and commercial vehicles.

##### 3. Technological Advancements and Sensor Integration:

Technological advancements, particularly in sensor technology, enhance ABS performance and responsiveness. Wireless sensors contribute to improved wheel speed detection, ensuring effective wheel lock prevention.

#### 4. Electric and Hybrid Vehicles:

Rising adoption of electric and hybrid vehicles influences the ABS market. Optimizing ABS algorithms to accommodate regenerative braking systems in electric vehicles becomes essential for consistent braking efficiency.

#### 5. Autonomous Vehicles and Brake-by-Wire Systems:

Autonomous vehicles drive the evolution of ABS technology. Brake-by-wire systems and precise control of braking forces require ABS systems to adapt to new braking paradigms.

#### 6. Consumer Demand for Safety Features:

Growing consumer awareness and demand for safer driving experiences drive ABS adoption. ABS-equipped vehicles are increasingly preferred by safety-conscious consumers, encouraging manufacturers to make ABS a standard feature.

#### 7. Cost Reduction and Mass Adoption:

ABS technology's maturity prompts manufacturers to focus on cost reduction strategies. Achieving economies of scale in ABS production enables broader adoption, including entry-level and mid-range vehicles.

#### 8. Maintenance and Service Advancements:

Advancements in diagnostics and software make ABS maintenance and servicing more efficient. User-friendly interfaces provide drivers with information about ABS functionality and maintenance requirements.

Segmental Insights:

Sub-System Type Insights:

The ABS market's growth is influenced by key sub-systems, including sensors, electronic control units (ECU), and hydraulic units. Sensors play a crucial role in detecting wheel speed to prevent lockup, ensuring vehicle steerability. Advancements in sensor technology, including wireless sensors, enhance their importance in the ABS market. The ECU interprets sensor data and controls brake pressure to prevent wheel lockup. The demand for ECU increases with the growing electronic integration in vehicles. Hydraulic units modulate brake pressure, and advancements in hydraulic technology drive the ABS market's growth.

#### Application Insights:

The ABS market is segmented into passenger cars, light commercial vehicles, and heavy commercial vehicles. Passenger cars dominate due to high production volume and increased consumer demand for safety. Light commercial vehicles are experiencing growth due to the booming e-commerce industry, while heavy commercial vehicles maintain consistent demand due to strict safety regulations in the logistics sector.

#### Regional Insights:

Different regions exhibit varying trends in the ABS market. North America benefits from strict safety regulations and consumer awareness. Europe emphasizes advanced safety features, while Asia-Pacific showcases a mix of developing countries adopting ABS and developed nations enhancing its performance. Latin America and the Middle East experience slower penetration due to economic factors and varying regulations, yet they strive to align with global safety standards.

#### Key Market Players

Continental Reifen Deutschland GmbH

Delphi Technologies PLC

DENSO Corporation

Autoliv Inc.

ZF Friedrichshafen AG

Robert Bosch GmbH

Haldex AB

WABCO Holdings Inc.

Hyundai Mobis Co. Ltd

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:

Global Anti-Lock Braking System Market, By Sub-System Type:

Sensors

Electronic Control Unit (ECU)

Hydraulic Unit

Global Anti-Lock Braking System Market, By Vehicle Type:

Two-Wheeler

Passenger Car

Commercial Vehicles

Global Anti-Lock Braking System Market, Region:

Asia-Pacific

China

India

Japan

Indonesia

Thailand

South Korea

Australia

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

North America

United States

Mexico

Canada

South America

Brazil

Argentina

Colombia



## Middle East & Africa

Turkey

Iran

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, Tech Sci 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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