

# Global Automotive Electronic Brake Force Distribution (EBD) System Market - Forecasts from 2019 to 2024

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## Abstracts

The global automotive electronic brake force distribution system (EBD) market is expected to grow at a CAGR of 3.86%, reaching a total market size of US\$18.940 billion in 2024 from US\$15.086 billion in 2018. This growth is attributed to the increasing requirement of safer vehicle driving experience and vehicle safety systems.

EBD or electronic brake force distribution is also known as electronic brakeforce limitation is an automobile brake technology that varies the amount of force being applied to the wheels of the vehicle based on different conditions such as road conditions, speed loading and etc. Basically, EBD is based on the principle that not all wheels carry the same weight and every wheel requires different brake force to bring it to a stop without the car going out of control. Also, the amount of weight being carried by vehicle shifts during the braking process and so the amount of braking force required by the wheel may also change. EBD is always coupled with anti-lock braking systems (ABS) and electronic stability control (ESC), EBD regulated the amount of brake force applied on each wheel to maximize stopping power while maintaining vehicle control. Mostly the most weight is carried by the front wheels so the EBD applies less pressure at the rear wheels so that they don't skid or lock.

EBD basically acts a subsystem of ABS and ESC out of which ABS which is anti-lock braking system works by applying braking force gradually on the wheel so that the vehicle slows down without the wheels of the vehicle locking and causing a skid whereas the ESC works by maintaining the vehicles stability and balance during turning operations and removes the possibility of understeer or oversteer. EBD module consists of wheel speed sensors, brake force accumulators and electronic control module. EBD works as when the wheel speed sensors read the speed of the wheel and calculate the slip ratio, this information is then sent to the ECU which in turn gives the signal to the

brake force accumulators telling the amount of force that needs to applied on the wheel.

The global automotive electronic brake force distribution system (EBD) market has been segmented on the basis of vehicle type, sales channel, and geography. There have been key developments and investments by various key players in the electronic brakeforce distribution system market. For example, the company Toyota, which is headquartered in Japan, announced in 2016 that the company's all-new vehicle variants will come with the ABS and EBD safety features in them.

### By Vehicle Type

On the basis of the Vehicle type, the global automotive electronic brake force distribution system (EBD) market is segmented as passenger vehicles, light commercial vehicles, heavy commercial vehicles. Passenger vehicles hold a significant amount of share in the market due to the increasing production and demand for passenger vehicles.

### By Sales Channel

On the basis of Sales Channel, global automotive electronic brake force distribution system (EBD) market is segmented as OEMs and aftermarket. OEMs hold a notable amount of share in the market due to the fact that most of the vehicles produced come with an EBD module fitted in conjunction with the ABS module.

### By Geography

By geography, global automotive electronic brake force distribution system (EBD) market is segmented as North America, Europe, Middle East & Africa, Asia-Pacific, and South America. North America holds a significant amount of share in the market owing to the increasing demand and production of automobiles in the region coupled with the increase in the need for safe and convenient driving systems.

### Competitive Landscape

The global automotive electronic brake force distribution system (EBD) market is competitive owing to the presence of well-diversified international, regional and local players. The competitive landscape details strategies, products, and investments being done by key players in different technologies and companies to boost their market

presence.

## Segmentation

The global automotive electronic brake force distribution system (EBD) market has been segmented by component, vehicle type, sales channel, and geography.

### By Component

Hardware

Software

### By Vehicle Type

Passenger Vehicle

Light Commercial Vehicle

Heavy Commercial Vehicle

### By Sales Channel

OEMs

Aftermarket

### By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

Israel

UAE

Others

Asia Pacific

China

Japan

South Korea

India

Others

\*NOTE: The report will be delivered in 3 working days.

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\*list is not exhaustive

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