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Autonomous Bus Door System Market by Bus Type(Shuttle Bus, City Bus, Intercity Bus, Coach, and BRT Bus), Door Type (Conventional Doors, Folding Doors, Sliding Plug Doors, Coach Doors, and Inward Gliding Doors), Mechanism (Pneumatic and Electric), Level of Automation (Level 4 and Level 5), Propulsion Type (ICE, and Electric), and by Component (Hardware, Software, and Solutions): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

A self-driving bus is a robotic vehicle designed to travel between destinations without a human operator. They combine sensors and software to control, navigate, and drive the vehicle. This vehicle uses LiDAR and RADAR and several other sensors for its operations. Bus door system is a hinged piece or object that allows entry/exit of the passengers. Many companies are developing these door systems in innovative manner. For instance, Schaltbau Holding offers smart door systems/intelligent door systems for self-driving shuttle buses and other vehicle concepts. There is a wide range of products of bus door systems. Electric inward swinging doors, pneumatic inward swinging doors, pneumatic outward swinging doors are a few examples of these systems.

The autonomous bus door system market is driven by factors such as improved safety coupled with the reduction in traffic congestion, rise of connected infrastructure, and increase in demand for fuel-efficient, high-performance, and low-emission vehicles. However, high manufacturing cost and data management challenges restrict the market

growth. Moreover, development of smart cities and supportive government regulations create lucrative growth opportunities for the market expansion.

The global autonomous bus door system market is segmented based on bus type, door type, mechanism, level of automation, propulsion type, component, and region. By bus type, the market is segmented into shuttle bus, city bus, intercity bus, coach, and BRT bus. Based on door type, the market is segmented into conventional doors, folding doors, sliding plug doors, coach doors, and inward gliding doors. Moreover, pneumatic and electric mechanisms are covered in the report. Level 4 and Level 5 are considered under level of automation segment. Based on propulsion type, the market is bifurcated into ICE, and electric. Further, the components segment consists of hardware, software as well as solutions. The hardware segment is sub-segmented into actuators, door controls, door panels, seals, door accessories, and others.

By region, the market is segmented into North America, Europe, Asia-Pacific, and Latin America, Middle East & Africa (LAMEA) including country-level analysis for each region.

The major companies profiled in the autonomous bus door system market include Bode Sud S.p.A., Vapor Bus International, Circle Bus Door Systems Co., Ltd., KBT GmbH, Masats LLC, PSV Transport Systems Ltd., Shavo Norgren (India) Pvt. Ltd., Transport Door Solutions Ltd., Ventura Systems CV, and Schaltbau Holding AG.

The report also covers company profiles of the players such as AV Volvo, Continental AG, Volkswagen AG, Tesla, Scania AB, Daimler AG, Proterra, Hyundai Motor Company, Hino Motors, Ltd., and Navya, which are operating in the global self-driving bus market. (Market size covers revenue generated by all players in the autonomous bus door system market).

KEY BENEFITS FOR STAKEHOLDERS

This study comprises analytical depiction of the autonomous bus door system market with current trends and future estimations to depict the imminent investment pockets.

The overall market potential is determined to understand the profitable trends to gain a stronger coverage in the market.

The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.

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The current market is quantitatively analyzed from 2019 to 2027 to highlight the financial competency of the market.

Porter's five forces analysis illustrates the potency of the buyers and suppliers.

KEY MARKET SEGMENTS

By Bus Type

Shuttle bus

City bus

Intercity bus

Coach

BRT bus

By Door Type

Conventional doors

Folding doors

Sliding plug doors

Coach doors

Inward gliding doors

By Mechanism

Pneumatic

Electric

By Level of Automation

Level 4

Level 5

By Propulsion Type

ICE

Electric

By Component

Hardware

Actuators

Door Controls

Door Panels

Seals

Door accessories

Others

Software

Services

By Region

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North America

- U.S.
- Canada
- Mexico

Europe

- UK
- Germany
- France
- Russia
- Italy
- Turkey
- Spain
- Rest of Europe

Asia-Pacific

- China
- India
- Japan
- South Korea
- Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players (Autonomous Bus Door System Market)

Bode Sud S.p.A.

Vapor Bus International

Circle Bus Door Systems Co., Ltd.

KBT GmbH

Masats LLC

PSV Transport Systems Ltd.

Shavo Norgren (India) Pvt. Ltd.

Transport Door Solutions Ltd.

Ventura Systems CV

Schaltbau Holding AG

Key Market Players (Self-Driving Bus Market)

AV Volvo

Continental AG

Volkswagen AG

Tesla

Scania AB

Daimler AG

Proterra

Hyundai Motor Company

Hino Motors, Ltd.

Navya

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