



Global Automotive Safety Systems Market Report 2023

Key Players, Types, Applications, Countries, Market Size, Forecast till 2030

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Report Details

The base year for the calculation is 2022 and 2018 to 2022 will be historical period. At the same time, data for the year 2023 will be an estimated one while the forecasted data will be from year 2023 to 2030.



1 Research Methodology

- Primary Research Methodology
- Secondary Research Methodology
- Market Size Estimation Methodology
- Data Triangulation

2 Competitors Analysis

- Business Segment/ Overview:
- Investment in Research and Development
- Recent Developments:
- Business Strategy
- SWOT Analysis

3 Market Dynamics

- Key Drivers, Restraints and Opportunities
- Market Attractiveness Analysis for Each Segment and Region
- PESTEL Analysis
- Porter 5 Force's Analysis
- Value Chain Analysis

4 Regional and Country Analysis

- North America (United States, Canada, Mexico)
- Europe (UK, France, Germany, Italy, Russia, Spain)
- Asia Pacific (China, Japan, Korea, India, South East Asia)
- South America (Brazil, Argentina, Colombia)
- Middle East & Africa (GCC, Egypt, South Africa, Nigeria, Turkey)

Report Scope

<div>Technology</div> <div><ul style="list-style-type: none">Active Safety SystemPassive Safety System</div>	<div>Vehicle Type</div> <div><ul style="list-style-type: none">On-Highway VehicleOff-Highway VehicleElectric Vehicle</div>
<div>Offering</div> <div><ul style="list-style-type: none">HardwareSoftware</div>	<div>Regions</div> <div><ul style="list-style-type: none">North AmericaEuropeAsia-PacificSouth AmericaMiddle East and Africa</div>

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Chapter 4 Automotive Safety Systems Market Overview

4.1 Product Overview and Scope of Automotive Safety Systems Market

Automotive safety systems refer to the sector of the economy that is involved in the creation, production, and use of various technologies and safety features in cars. These systems are primarily intended to reduce the probability of collisions, safeguard passengers within the vehicle, and lessen the degree of injuries in the case of a collision or other dangerous circumstances on the road.

Several different technologies and parts are included in automotive safety systems, which together improve vehicle safety. Active Safety Systems are intended to lessen the effects of accidents or even prevent them altogether. By preventing wheel locking during braking, the Anti-lock Braking System (ABS) enables the driver to keep control of the steering. By applying individual brakes and lowering engine power to prevent skidding or loss of control, Electronic Stability Control (ESC) contributes to maintaining vehicle stability.

The traction control system (TCS) controls excessive wheel spin and keeps an eye on wheel speed to increase traction in slick conditions. On highways, adaptive cruise control (ACC) maintains a certain distance from the car in front by automatically altering the speed. Sensors, cameras, and radar are used by collision avoidance systems to identify impending crashes and warn the driver or take action on their own to prevent or lessen the impact.

LDW and LKA alert the driver or automatically correct the vehicle's route if it unintentionally deviates from its path. The risk of side crashes during lane changes is decreased by Blind Spot Detection (BSD), which alerts the driver of any vehicles or objects in the blind spots. Vehicle occupants are protected by passive safety systems in the event of a collision.

Rapid airbag deployment lowers the risk of injury to passengers and provides a calming effect in the case of a collision. When a collision occurs, seatbelts keep passengers inside the car and keep them from flying out or colliding with the interior parts. By absorbing and dissipating collision energy, crumple zones—specially designed vehicle structures—reduce the impact forces that are delivered to the occupants.

Reinforced Safety Cages are robust constructions intended to protect the passenger compartment's structural integrity in catastrophic collisions. Seatbelt pre-tensioners and load limiters automatically tighten the belts during a collision, keeping passengers safely strapped in while controlling the forces applied to them. Headrests and seat designs with Whiplash Protection Systems lessen the possibility of neck and spinal injuries in rear-end collisions.

Chapter 8 Automotive Safety Systems Market – Industry Analysis

8.1 Market Drivers

8.1.1 Increasing awareness towards the safety and security of passengers is significantly drives market growth

Increasing awareness among consumers about the importance of safety features in vehicles is driving the demand for the automotive safety systems market. Consumers are becoming more conscious of the risks related to driving and are seeking vehicles with advanced safety technologies to ensure their well-being. In addition, safety is an important requirement in the automotive industry, and any failure in safety or security results in serious harm or death. The increasing number of road accidents worldwide is a major driver for automotive safety systems. Furthermore, governments and organizations are increasingly focusing on reducing accidents and mortalities. For instance, The U.S. Department of Transportation (DOT) under the National Highway Traffic Safety Administration (NHTSA) is committed to reaching an era of crash-free roadways through the deployment of innovative safety technologies.

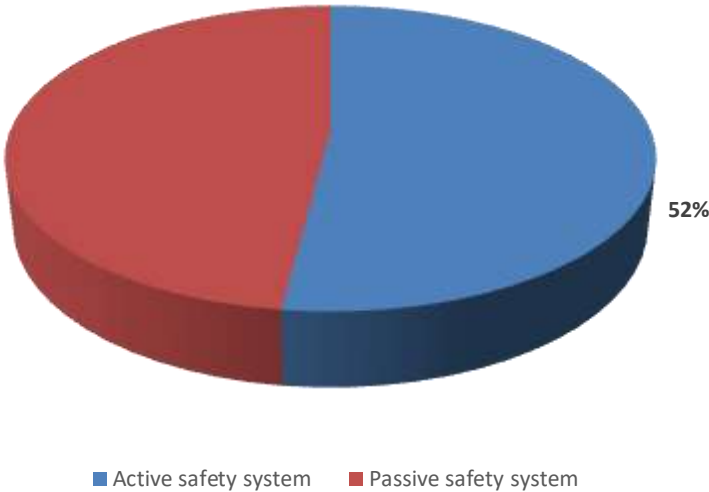
The vehicles are integrated with advanced safety technologies and automated driving features including padded knee bolsters, passenger sensing systems, auto-dimming mirrors or electrochromic mirrors, and energy-absorbing systems steering systems, which protect passengers from major injuries. Furthermore, educational initiatives by governments, automotive manufacturers, and safety organizations focus on educating passengers about the importance of safety systems. These programs provide information regarding the proper use of seat belts, kid safety seats, and other safety measures. These activities help to increase demand for vehicles with complete safety features by increasing passenger knowledge and understanding. As a result, increasing safety and security awareness drive the growth of the automotive safety system market in the forecast period.

8.1.2 Increasing vehicle population in developing regions is significantly drive the automotive safety system market growth

Increasing vehicle population in developing regions is significantly drive the automotive safety system market growth. The growing middle class in emerging economies is driving the demand for new vehicles, which in turn is driving the demand for automotive safety systems. The increasing number of road accidents in these regions is also driving the demand for safety systems. Furthermore, governments in these regions are increasingly focusing on improving road safety, which is driving the demand for safety systems.

The growing middle class in emerging economies is driving the demand for new vehicles, which in turn is driving the demand for automotive safety systems. The increasing number of road accidents in these regions is also driving the demand for safety systems. Furthermore, governments in these regions are increasingly focusing on improving road safety, which is driving the demand for safety systems.

FIG. 35 Revenue Market Share (%) of Automotive Safety Systems by Technology



Source: Cognitive Market Research

The passive safety system segment has dominated the automotive safety systems market in terms of revenue share during the forecast period. This is attributed to passive safety systems are intended to keep car occupants safe in the case of an accident. In addition, these systems include seat belts, airbags, crumple zones, and structural integrity enhancements. Passive safety systems are critical for occupant protection and are well-established and widely used in the automotive industry. Furthermore, the passive safety system structure of the car is fitted with crumple zones and high-strength glass. This is expected to drive the growth of this segment in the automotive safety systems market.

Chapter 13 Global Automotive Safety Systems Manufacturers Profiles/Analysis

This segment of the report provides in-depth and pertinent information on every foremost player in the market through both primary and secondary research. The company profiling chapter includes ten or more key players, which are dominating the market. Each company profile includes demystifying professional information in a tabular format, which comprises the company's official website, established year, market position, geographical presence, competitors, and contact information.

Further, company profiling includes an in-detailed business overview, COVID-19 impact on the particular firm, product type specifications, revenue & market share, and recent developments done by the company for its inorganic development, such as mergers, strategic acquisitions, partnerships, and others. Besides, profiling includes the company's investment in research and development activities.

The recent innovative product launches, business expansion, investments done by the company in different markets, and other news are also available in the company profiling section. At last, it provides the company's business strategy and SWOT analysis.

Questions

- Which are the paramount players in the market?
- What key Developments Company has done in recent years?
- What are the major acquisitions done by the players?
- What are the opportunities for companies to grow in the Automotive Safety Systems market?
- Which player held the largest market share in 2020 & 2021?

13.1 Robert Bosch GmbH

13.1.1 Robert Bosch GmbH. Basic Information, Manufacturing Base, Sales Area and its Competitors

TABLE 14 Robert Bosch GmbH. Basic Information, Manufacturing Base, Sales Area and Its Competitors

Item	Description
Company Name	Robert Bosch GmbH
Website	www.bosch.com
Established Date	1886
Headquartered	Germany
Market Position/ History	Robert Bosch GmbH was founded in 1886. In 1897, Bosch started installing magneto ignition devices into automobiles and became the only supplier of ignition devices. However, in 1901, the first Bosch factory was constructed, and till 2021, 440 subsidiaries and regional companies in approximately 60 countries. The company has 3,95,000 employees working across the globe. Further, Bosch acquired a 26% stake in SUN Mobility. The company also forayed into the e-commerce space with new-age partners such as Amazon, Flipkart, E-Dealers, and in 2020 with GEM.
Sales Area	Worldwide
Manufacturing Location	Germany and others
Ticker	3,95,000
No. of Employees	Delphi Automotive PLC Continental AG Denso Corporation Magna International Inc. DENSO CORPORATION Toyota Gosei Co. Ltd. Autoliv Inc.

	Toyota Boshoku.,
Competitors	Private Limited
CEO	Lautenschlagerstraße 20, 70173 Stuttgart, Germany Tel: +4971140040990 Fax: +49 711 6155 41-15
Ownership Type	Robert Bosch Gmbh
Contact Information	www.bosch.com

13.1.2 Business Segment/ Overview:

Robert Bosch Gmbh is a Germany-based global manufacturer and supplier of technology and services. It employs roughly 3,95,000 employees worldwide. Robert Bosch Gmbh operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. The company operates through 440 subsidiaries and approximately 60 regional companies along with 16 manufacturing sites.

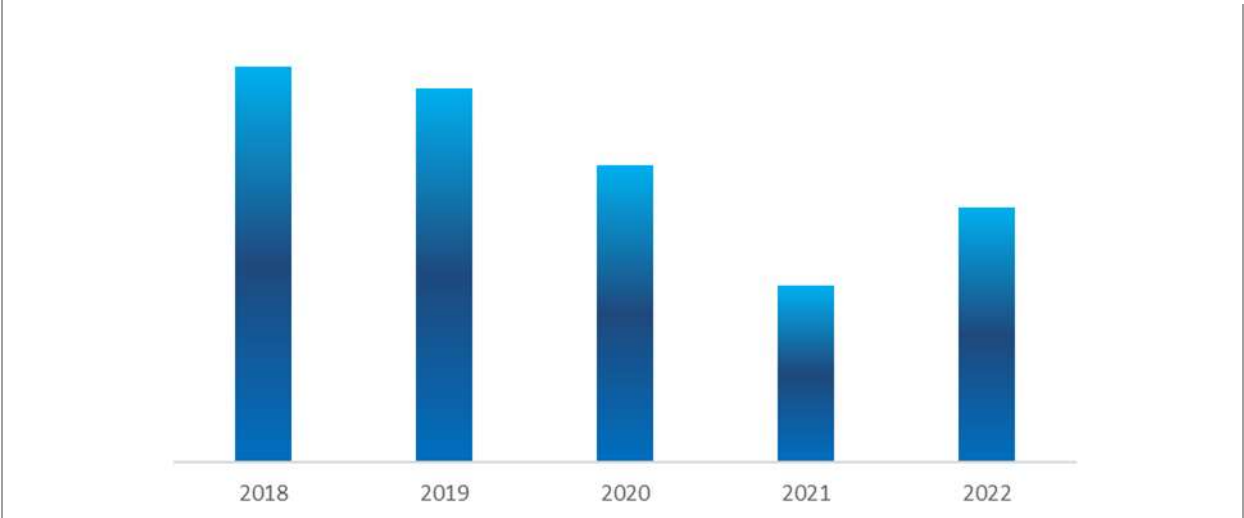
The company's mobility segment offers cars, e-bikes, motorsports, commercial vehicles, two-wheelers, off-highway applications, and ship and rail transport and wide range of spare parts. The industrial technology segment offers industrial boilers, CHP plants, air conditioning appliances, and waste heat recovery systems. The consumer goods segment provides wide range of products to be used at home such as washing machines, dishwashers, fridges, cooking and baking appliances, etc. The energy and building technology segment is focusing on transforming the buildings and surroundings along with SOFC fuel cell energy storage solutions, energy-efficient heating, etc.

13.1.3 Financials

TABLE 15 Robert Bosch GmbH. Revenue (USD Million), Gross Margin (%) and Market Share (%) (2018-2022)

Value	2018	2019	2020	2021	2022
Revenue	xx	xx	xx	xx	xx
Gross Margin	xx	xx	xx	xx	xx

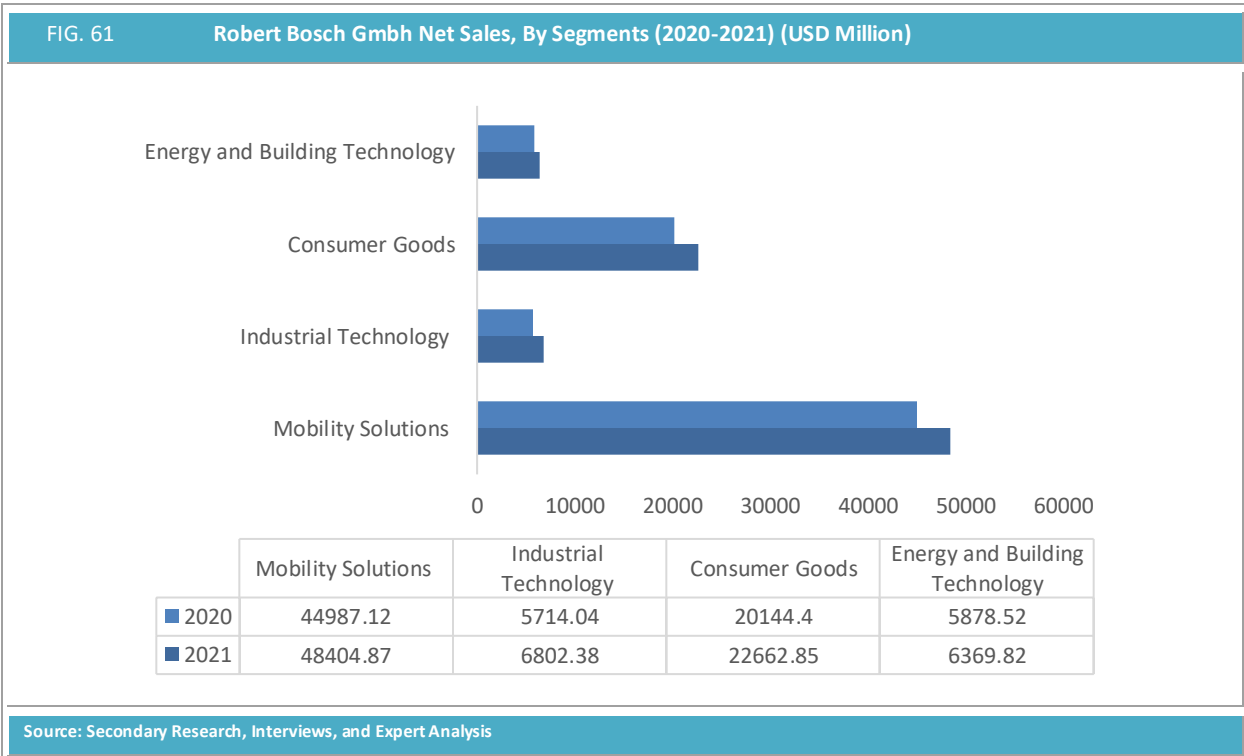
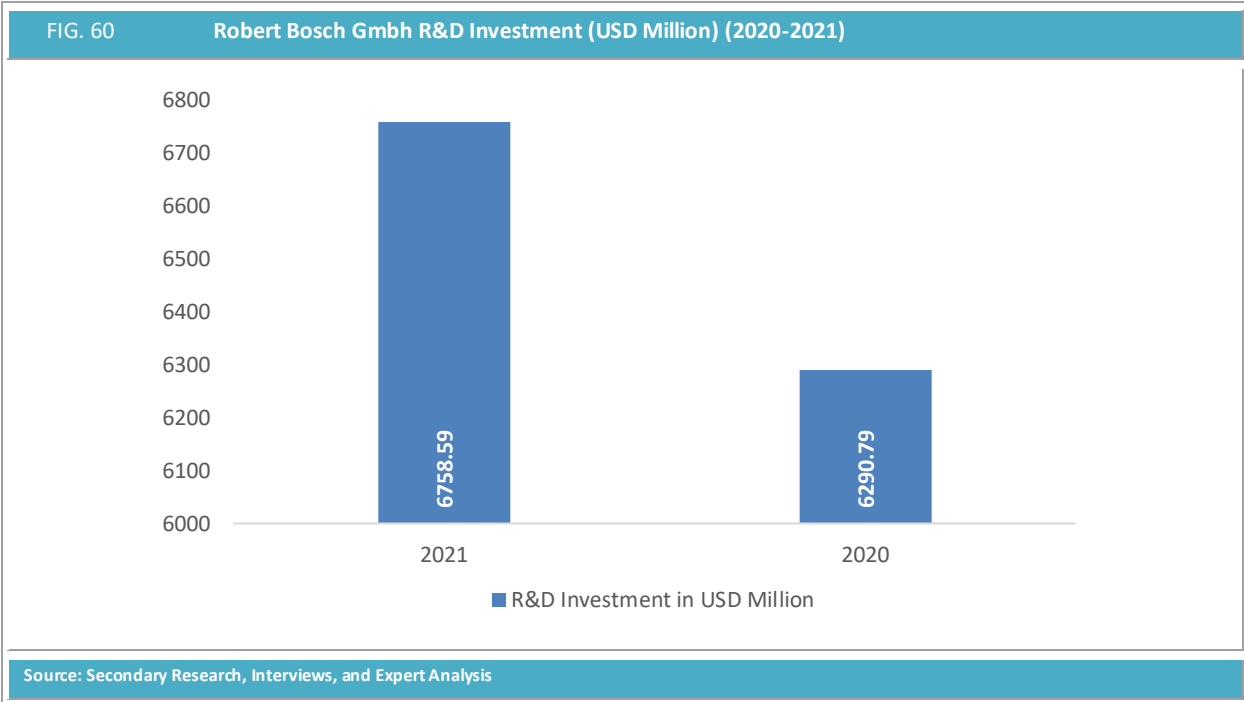
FIG. 59 Robert Bosch GmbH. Revenue Market Share (%) (2018-2022)

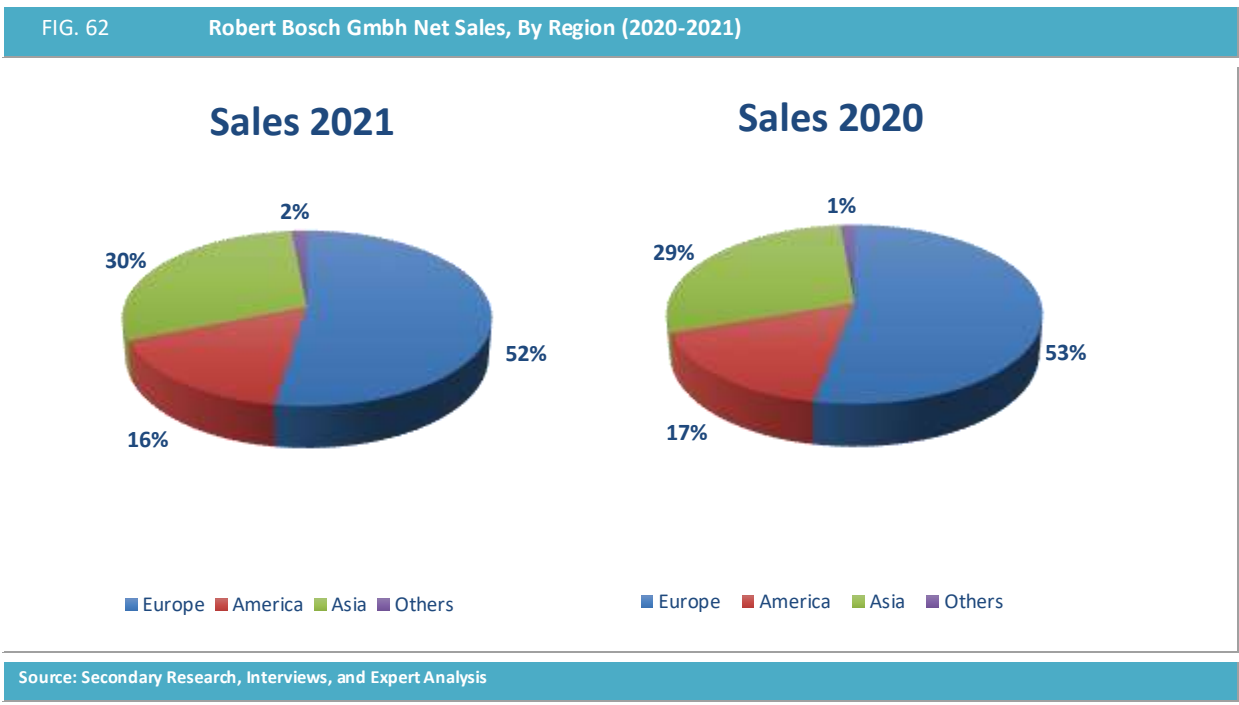


Source: Secondary Research, Interviews, and Expert Analysis

13.1.4 Investment in Research and Development

Research and development costs incurred and charged to income for the fiscal years ended December 31, 2021, and 2020 were \$6758.59 million and \$6290.79 million respectively.





13.1.5 **Recent Developments:**

Year	Latest News
XX	XX
XX	XX

13.1.6 **Business Strategy**

The company is involved in the diversification of its business in several different fields which is expected to expand its business operations around the world. Bosch has focused on strategic acquisitions and mergers to enhance the product offering of the company. The company is following a growth strategy such as the constant introduction of new products to expand its consumer base of the company. In addition, the company is involved in the adoption of advanced technology to enhance its manufacturing efficiency which is expected to increase the growth of the company. Bosch has done significant investments in research and development to create innovative products and develop the robust product portfolio

13.1.7 **Management Change**

Uwe Raschke and Dr. Michael Bolle retired from board of management of Robert Bosch GmbH effective June 30, 2021, and Dr. Stefan Hartung assumed responsibility for corporate quality management.

13.1.8 Automotive Safety Systems Market Product Types Specification:

Product	Product Description
Integrated safety systems	<p>It is equipped with more advanced safety technologies coupled with automated driving features.</p> <p>The system provides a new level of occupant protection through intelligent networking of components.</p> <p>Reduced injury risk due to earlier and more reliable triggering of the safety features.</p> <p>Front radar sensor</p> <p>The front radar sensor is employed to enhance comfort and safety and enables automated driving.</p> <p>Multi-purpose camera</p> <p>The multi-purpose camera provides artificial intelligence for image-processing algorithms.</p> <p>Sensor data fusion</p> <p>Sensor data fusion provides a detailed image and powerful interpretation of the vehicle's surroundings.</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Determine the severity of an accident. • Shift occupants to an optimum sitting position with a reversible seat belt tensioner. • Enable earlier and more reliable triggering of the safety features. • Reduce the load to the neck of occupants by 24 %

13.1.9 Robert Bosch GmbH. S.W.O.T Analysis**Strength**

- ❖ Strong Brand Recognition
- ❖ Diversified product portfolio
- ❖ Significant investments in research and development
- ❖ Wide range of customer base across the globe

Weakness

- ❖ High employee turnover rate
- ❖ Disruption in the supply chain

Opportunity

- ❖ Emerging advanced technologies
- ❖ Further geographical expansion

Threats

- ❖ Tariff and trade barriers
- ❖ Technological development by competitors

13.1.10 COVID-19 Impact Analysis

The challenges posed by the COVID-19 pandemic accelerated several megatrends such as growing demand for personal mobility contributing to increased demand in the two-wheeler and PC segment. The COVID-19 pandemic had impacted income sentiments and in addition to that high fuel prices have pushed up the cost of ownership thus automobile industry was deeply impacted between April - June 2020. The nationwide lockdown resulted in supply chain restrictions, a semiconductor crisis, manpower constraints, and a liquidity crisis. Despite these challenges, revenues increased by 2% in 2021.

Note: Following company's data will be provided in the same format, for example 1st company profile shown above. In case you need any data Customization please feel free to contact us!

13.2 [Delphi Automotive PLC](#)

13.3 [Continental AG](#)

13.4 [Denso Corporation](#)

13.5 [Magna International Inc.](#)

13.6 [TRW Automotive](#)

13.7 [Johnson Electric Holdings Limited.](#)

13.8 [Mobileye](#)

13.9 [Continental AG](#)

13.10 [Infineon Technologies AG](#)

Note: Company Revenue Information Will Be Provided Subject to Data Availability!

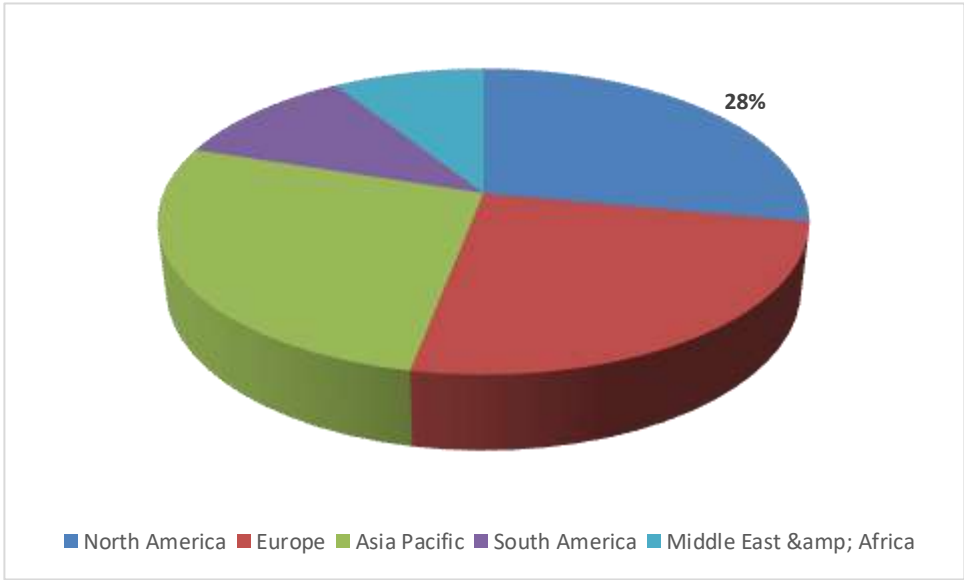
14.1 Global Automotive Safety Systems Revenue and Market Share (%) by Region (2018 - 2030)

TABLE 16 Global Automotive Safety Systems Revenue (USD Billion) by Region (2018- 2030)

	2018													2030	CAGR
North America	XX													Xx	Xx
Europe	XX													Xx	Xx
Asia-Pacific	XX													Xx	Xx
South America	XX													Xx	Xx
Middle East and Africa	XX													Xx	Xx
Total	XX				104.2									XX	7.8%

Global Automotive Safety Systems Market Was Valued at 104.2 Billion in 2022 with a CAGR of 7.8%

FIG. 63 Global Automotive Safety Systems Revenue Market Share (%) by regions in 2022



Source: Cognitive Market Research

The passive safety system segment has dominated the automotive safety systems market in terms of revenue share during the forecast period. This is attributed to passive safety systems are intended to keep car occupants safe in the case of an accident. In addition, these systems include seat belts, airbags, crumple zones, and structural integrity enhancements. Passive safety systems are critical for occupant protection and are well-established and widely used in the automotive industry. Furthermore, the passive safety system structure of the car is fitted with crumple zones and high-strength glass. This is expected to drive the growth of this segment in the automotive safety systems market.

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Future Updates	Paid	Paid	Paid	Paid	Free (3 Years Validity)	Unlimited Validity
Quarterly Updates	X	X	X	X	Free Quarterly Industry Update	Free Quarterly Industry Update
Add Ons	✓	✓	✓	✓	✓	✓
License Upgrade	✓	✓	✓	✓	✓	✓
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