

Saudi Arabia Smart Tire Market By Sensor Type (TPMS, Accelerometer Sensor, Strain Gauge Sensor, RFID Chip, Other Sensors), By Engineering Technology (Pneumatic Tire, Run-Flat Tire, Non-Pneumatic Tire), By Vehicle Type (Commercial Vehicles, Passenger Cars), By Vehicle Propulsion (Conventional Vehicles, Electric Vehicles), By Demand Category (OEM, Aftermarket), By Product Type (Connected Tire, Intelligent Tire/TPMS) and By Region, Competition Forecast & Opportunities, 2018-2028F

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Abstracts

The Saudi Arabia Smart Tire Market has shown growth in the past years, and it is anticipated to increase at a high rate in the forecast year 2024-2028. Smart tires have various features. For example, smart tires make it possible for V2X or vehicle-to-everything connectivity so that the drivers always have access to all the information. In order to read and interpret tire data, smart tires are equipped with both sensors and chips. Sensors are often found in the tread of modern tires. The chip enables communication with numerous devices via Bluetooth. The advantage of Bluetooth is that it allows users to view data using a smartphone or tablet. In Saudi Arabia, sports cars are famous, compared to normal cars, due to which many automotive companies offer sports cars that are now equipped with smart tires and have the latest technology in them. The obtained data can be used by the vehicle to guarantee top performance. Additionally, the obtained data is sent to and synchronized with a cloud platform that can be viewed anywhere using a device like a smartphone. It will likely take another five years for this technology to be widely commercialized and for people to understand how

important it is for tire performance and safe driving. The smart tires appear to be an improved alternative to the TPMS (Tire Pressure Monitoring System).

Saudi Arabia has an overall tire market share of 23.63% in the Middle East & Africa region. In the year 2021, tire sales in Saudi Arabia were around 22.44 million units, in which the passenger car segment has a market share of 74.55% among all other vehicles. The sales of tires are mostly generated from the replacement market in Saudi Arabia, which accounts for 99.33% in the year 2021.

There are numerous applications for smart tire technology that have enormous potential for growth in the future. Vehicle platooning, in which vehicles are outfitted with cutting-edge driver assistance systems, is one of these possibilities. Vehicles form a platoon that follows one another closely and is kept together by smart technology that relies on sensory data input and vehicle-to-vehicle communication. Tire manufacturers can assess the braking potential of the vehicles in real-time and tailor the convoy composition to maximize fuel efficiency while traveling safely, thanks to sophisticated vehicle data processing.

Self-Inflating Tire

In a situation where the tire is slightly deflated, the self-inflating tire has the ability to autonomously inflate. The tires continuously maintain standard tire pressure and guarantee vehicle safety in the event of slow leaks. The use of self-inflating tires increases vehicle stability, increases driver safety by reducing the chance of tire blowouts, and improves vehicle handling and maneuverability. By reducing rolling resistance and ensuring optimum inflation, the tires significantly promote fuel efficiency. They also guarantee a longer tire life. It is a workable solution for a safer environment because of the reduced carbon emission and tire debris.

Increasing Concern Towards Environment and Vehicle Safety

As a result of increasing awareness about the rising pollution from IC vehicles, the adoption of various eco-friendly vehicles, including electric and hydrogen-powered vehicles, is being increased. As a result, tires that conserve fuel and aid environmental sustainability are also being developed. Additionally, the Clinton Administration's passage of the Transportation Recall Enhancement Accountability and Documentation (TREAD) Act in 2000 helped tire pressure monitoring systems (TPMS) gain significant prominence. The TREAD Act required that all new vehicles sold in the US after September 2007 come equipped with TPMS, among other enhancements to

transportation safety. Many light trucks and cars with the model year of 2008 or more include tire pressure monitoring devices. Under-inflated tires also cause issues in several other nations.

Smart Tire Ensures Safety of The Vehicle

The automobile industry is looking for comprehensive and affordable monitoring systems to better track tire conditions in order to meet tire safety criteria, particularly for autonomous vehicles. In contrast to traditional tires, which can only monitor tire properties passively, smart tires actively examine tire characteristics and immediately sound an alarm when abnormal conditions are detected. In the smartphone application, data is also collected and examined, as well as compared and shared. As a result, it is possible to keep track of tire characteristics and promptly modify tire parameters, such as pressure.

Market Segmentation

The Saudi Arabia smart tire market is segmented based on sensor type, engineering technology, vehicle type, vehicle propulsion, demand category, and product type by region. Based on the product type, the market is further fragmented into the connected tire and intelligent tire/TPMS. Based on sensor type, the market is divided into TPMS, accelerometer sensor, strain gauge sensor, RFID chip, and other sensors. Based on technology, the market is divided into Pneumatic Tires, Run-Flat Tires, and Non-Pneumatic Tires. Based on vehicle type, the market is divided into passenger cars and commercial vehicles. On the basis of propulsion type, the market is divided into conventional vehicles and electric vehicles. Based on the demand category, the market is divided into OEMs and aftermarkets. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among the Northern & Central Regions, Western Region, Eastern Region, and Southern Region.

Company Profiles

Apple Inc., AT&T Inc., Ford Motor Company, General Motors Company, BMW Group, Google Inc, Audi AG, Delphi Automotive PLC, NXP Semiconductors N.V, and Car Force., are among the major market players in the Saudi Arabia platform that lead the market growth of the Saudi Arabia Smart Tire Market.

Report Scope:

In this report, the Saudi Arabia Smart Tire Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Saudi Arabia Smart Tire Market, By Sensor Type:

TPMS

Accelerometer Sensor

Strain Gauge Sensor

RFID Chip

Other Sensor

Saudi Arabia Smart Tire Market, By Engineering Technology:

Pneumatic Tire

Run-Flat Tire

Non-Pneumatic Tire

Saudi Arabia Smart Tire Market, By Vehicle Type:

Passenger Cars

Commercial Vehicles

Saudi Arabia Smart Tire Market, By Vehicle Propulsion:

Conventional Vehicles

Electric Vehicles

Saudi Arabia Smart Tire Market, By Demand Category:

OEM

Aftermarket

Saudi Arabia Smart Tire Market, By Product Type:

Connected Tire

Intelligent Tire/TPMS

Saudi Arabia Smart Tire Market, By Region:

Northern & Central Region

Western Region

Eastern Region

Southern Region

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Smart Tire Market.

Available Customizations:

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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