

Off-the-Road Tire Market Report by Vehicle Type (Mining Vehicles, Construction & Industrial Vehicles, Agricultural Vehicles, and Others), Tire Type (Radial Tire, Bias Tire), End-Use (OEM, Replacement), Distribution Channel (Online, Offline), Rim Size (Below 29 inches, 29-45 inches, Above 45 inches), and Region 2024-2032

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Report description:

The global off-the-road tire market size reached US\$ 30.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 46.6 Billion by 2032, exhibiting a growth rate (CAGR) of 4.5% during 2024-2032. The expansion of construction and mining industries, the extensive infrastructure development projects, increasing environmental consciousness, rapid technological advancements, a surge in tourism and recreation, fluctuating raw material prices, and the growing logistics and transportation sector are some of the factors propelling the market growth.

Off-the-Road Tire Market Analysis:

Market Growth and Size: The global off-the-road tire market has exhibited consistent growth in recent years, due to the increasing demand for eco-friendly and technologically advanced tires, particularly in regions experiencing infrastructure development.

Major Market Drivers: The market is influenced by factors such as the rising demand for off-the-road tires in the forestry industry, the emergence of electric off-highway vehicles, increased focus on tire recycling and sustainability, a growing need for off-the-road tires in the military and defense sector, and the expansion of the aviation ground support equipment market.

Technological Advancements: Technological advancements have played a pivotal role in shaping the off-the-road tire market. Manufacturers are incorporating innovative materials and designs to enhance tire performance, durability, and fuel efficiency. Additionally, the integration of tire pressure monitoring systems and the development of intelligent tires with embedded sensors are contributing to improved safety and maintenance practices.

Industry Applications: Off-the-road tires find applications across a wide range of industries, including agriculture, construction, mining, forestry, aviation ground support, military and defense, and recreational vehicles.

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Key Market Trends: The key market trends include the adoption of autonomous off-highway vehicles, the growth of off-the-road tire retreading services, the development of all-terrain and mud-terrain off-the-road tires for recreational vehicles, increased investment in research and development (R&D) for sustainable tire solutions, and the expansion of tire production facilities.

Geographical Trends: The Asia-Pacific region leads the global off-the-road tire market due to its robust construction and mining activities, extensive agricultural practices, and significant infrastructure development projects. China, India, and Australia are among the key contributors to the region's dominance in the market. North America and Europe also hold substantial market shares, driven by their advanced industrial sectors.

Competitive Landscape: The off-the-road tire market features a competitive landscape with key players engaging in strategic partnerships, mergers, and acquisitions to strengthen their market presence. Additionally, regional manufacturers in Asia-Pacific and emerging markets are gaining prominence, intensifying competition.

Challenges and Opportunities: Challenges facing the market include the volatility of raw material prices, regulatory compliance with environmental standards, and the need for constant innovation. However, opportunities lie in the development of sustainable and eco-friendly tire solutions, expanding into untapped markets, and catering to the evolving needs of industries like electric off-highway vehicles and autonomous machinery.

Off-the-Road Tire Market Trends:

Growth in construction and mining industries

The robust growth in the construction and mining industries stands as a primary driver of the global off-the-road tire market. In the construction sector, the demand for off-the-road tires is propelled by heavy-duty construction equipment such as excavators, bulldozers, and loaders, which rely on these specialized tires for optimal performance in rugged terrains. Similarly, the mining industry heavily depends on off-the-road tires for large haul trucks and earthmoving equipment essential for mining operations. The continuous expansion of infrastructure projects, urbanization, and mining activities, particularly in developing regions, fuels the demand for off-the-road tires.

Expansion in the agricultural sector

The agricultural sector's expansion serves as another significant driver for the global off-the-road tire market. With the mechanization and modernization of agriculture, the demand for specialized agricultural off-the-road tires has surged. The tires are vital for tractors, combines, and other agricultural machinery used in planting, harvesting, and fieldwork. As farms seek to improve efficiency and productivity, there is a growing need for off-the-road tires designed to provide traction and stability in various soil conditions. Furthermore, the adoption of precision farming techniques, which rely on heavy agricultural equipment, further underscores the importance of high-quality off-the-road tires in modern agriculture.

Infrastructure development projects worldwide

Infrastructure development projects on a global scale significantly contribute to the growth of the off-the-road tire market. Governments and private enterprises invest heavily in infrastructure development, including the construction of roads, bridges, airports, and industrial facilities. These projects require a wide range of heavy machinery and vehicles equipped with off-the-road tires to operate in diverse and often challenging environments. The demand for off-the-road tires is further amplified by urbanization trends, as expanding cities necessitate improved transportation networks.

Environmental concerns and sustainable practices

Environmental concerns and the adoption of sustainable practices have led to the development of eco-friendly off-the-road tire options, which represent a pivotal driver in the market. As the global community becomes increasingly aware of environmental issues, there is a growing emphasis on reducing the carbon footprint and conserving natural resources. In response, tire

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manufacturers have innovated to produce off-the-road tires with eco-friendly materials and designs that minimize environmental impact. These tires are designed to offer durability while also being energy-efficient and promoting fuel savings. Furthermore, governments and regulatory bodies have introduced stringent environmental regulations that encourage industries to adopt greener practices.

Off-the-Road Tire Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on the vehicle type, tire type, end-use, distribution channel, and rim size.

Breakup by Vehicle Type:

- Mining Vehicles
- Construction & Industrial Vehicles
- Agricultural Vehicles
- Others

Agricultural vehicles accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the vehicle type. This includes mining vehicles, construction & industrial vehicles, agricultural vehicles, and others. According to the report, agricultural vehicles represented the largest segment.

Breakup by Tire Type:

- Radial Tire
- Bias Tire

Bias tire holds the largest share in the industry

The report has provided a detailed breakup and analysis of the market based on the tire type. This includes radial tire and bias tire. According to the report, bias tire accounted for the largest market share.

Breakup by End-Use:

- OEM
- Replacement

OEM represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the end-use. This includes OEM and replacement. According to the report, OEM accounted for the largest market share.

Breakup by Distribution Channel:

- Online
- Offline

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Offline dominates the market

The report has provided a detailed breakup and analysis of the market based on the distribution channel. This includes online and offline. According to the report, offline represented the largest segment.

Breakup by Rim Size:

Below 29 inches

29-45 inches

Above 45 inches

The report has provided a detailed breakup and analysis of the market based on the rim size. This includes below 29 inches, 29-45 inches, and above 45 inches.

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Saudi Arabia

UAE

South Africa

Others

Asia Pacific leads the market, accounting for the largest off-the-road tire market share

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The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa (Saudi Arabia, UAE, South Africa and other). According to the report, Asia Pacific accounted for the largest market share.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Apollo Tyres
Balkrishna Industries Limited
Bridgestone Corporation
Cheng Shin Rubber Ind. Co. Ltd.
China National Tire & Rubber Co. Ltd. (China National Chemical Corporation Limited)
Continental AG
Double Coin Holdings (Shanghai Huayi Group Corporation Limited)
JK Tyre & Industries Ltd.
Michelin
Pirelli & C. S.p.A.
The Goodyear Tire & Rubber Company
Titan International Inc.
Trelleborg Ab
Yokohama Rubber Co. Ltd.

Key Questions Answered in This Report

1. How big is the global off-the-road tire market?
2. What is the expected growth rate of the global off-the-road tire market during 2024-2032?
3. What are the key factors driving the global off-the-road tire market?
4. What has been the impact of COVID-19 on the global off-the-road tire market?
5. What is the breakup of the global off-the-road tire market based on the vehicle type?
6. What is the breakup of the global off-the-road tire market based on the tire type?
7. What is the breakup of the global off-the-road tire market based on the end-use?
8. What is the breakup of the global off-the-road tire market based on the distribution channel?
9. What are the key regions in the global off-the-road tire market?
10. Who are the key players/companies in the global off-the-road tire market?

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