

Fire Trucks Market Report by Type (Mini Tank, Rescue Trucks, Ini Pumpers, Multi-tasking Trucks), Application (Residential and Commercial, Enterprises and Airports, Military), and Region 2024-2032

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Abstracts

The global fire trucks market size reached US\$ 4.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 7.3 Billion by 2032, exhibiting a growth rate (CAGR) of 4.6% during 2024-2032. Rapid urbanization, technological advancements, the implementation of stringent safety policies, an increase in fire safety consciousness, and growing industrial operations are some of the factors providing a considerable thrust to the market growth.

Fire Trucks Market Analysis:

Major Market Drivers: The rapid increase in the frequency of fire outbreaks and the realization of their destructive and fatalistic tendencies have been the driving fire trucks market growth. The statistics from the National Interagency Fire Center confirm that in 2023, “there were approximately 56,580 wildfires covering 2.7 million acres of land burning” in the US, consequently, many governments around the globe have made significant investments in the acquisition of fire-fighting equipment such as fire trucks. Similarly, reports by media outlets suggest that more businesses, organized residential communities, and factories have increased their focus on robust fire-detection and response initiatives that involve owning the necessary machinery. Therefore, stakeholders have witnessed why having immediate response and action abilities is crucial to prevent catastrophic fire disasters and protect the lives of people and property, which is another factor driving the fire trucks market demand.

Key Market Trends: When it comes to the fire trucks market, several trends continue to define the new offerings of the sector, such as the establishment of electric and hybrid fire trucks. This trend is inspired by global strides towards enhancing environmental

conservation and sustainability and is bound to affect the fire trucks market statistics significantly. The fire-fighting equipment in the new trucks is setting new standards in the industry, with virtually all the devices being equipped with new suppression devices and advanced robotic equipment. Moreover, the growing investment in fire-fighting units, rescue unit, and emergency medical services and the integration of advanced communication and navigation systems are some of the key fire trucks market trends.

Geographical Trends: Predominantly, the fire trucks market is led by North America, which is primarily due to well-established emergency services and massive investment in fire safety and regulations. The escalating market demand is also driven by the need to replace obsolete fire-fighting fleets with advanced technologies, as shown by the robust development of extensive training programs and infrastructure. Asia-Pacific is the fastest-growing market due to rapid urbanization and industrialization and the increasing fire safety awareness, with the most significant impact considering emerging economies. This geographical segmentation helps understand where leads in the markets are advancing and expanding, which presents distinct regional dynamics and market penetration.

Competitive Landscape: As per the fire trucks market overview, some of major market players include Albert Ziegler GmbH, Alexis Fire Equipment Company, BME Fire Trucks LLC, GIMAEX, HME Incorporated, Magirus GmbH (CNH Industrial N.V.), Morita Holdings Corporation, Oshkosh Corporation, Rosenbauer International AG, The Shyft Group Inc., W. S. Darley & Co., and Weihai Guangtai Airport Equipment Co. Ltd.

Challenges and Opportunities: The fire trucks market faces multiple challenges such as high manufacturing costs, the ever-tightening grip of legislative bodies, and the need for more advanced new technological solutions. Additionally, the critical problem is the ability of fire trucks to interact with emergency response systems. High competition to ensure healthy competitiveness is yet another major issue. There is also a problem to ensure high vehicle-reliability and safety. However, the mentioned challenges are accompanied by impressive opportunities. It is becoming more and more lucrative to develop fire trucks that are fully performing and reliable and much more cost-efficient compared to the conventional ones. Developing alternative, eco-friendly fuel technologies, and a growing amount of smart cities worldwide is supporting the prospects of fire trucks' integration into the infrastructure, which are some of the fire trucks market opportunities that are supporting the market growth.

Fire Trucks Market Trends:

Rapid industrialization and urbanization

Urbanization and industrialization across the globe have surged the demand for fire

trucks, which is boosting the market growth. Moreover, increasing urban sprawls and industrial activities have increased the threat and difficulty of fire incidences, necessitating more advanced fire-fighting infrastructure to anticipate the eventual growth of the sector. The National Fire Protection Association reported that a fire department responded to a fire in the United States in 2022 on average every 21 seconds. High-rise, high-density buildings in urban places and large industrial sites are set to increase, which will require rapid reaction and recovery from fire trucks to buses to assist mitigate and remove fire causes. In this scope, modern firefighting equipment equipped with proper technology is required to navigate urban areas to prevent and reduce industrial area fires.

Development of advanced fire-fighting equipment

The process of fire trucks manufacturing has become highly revolutionized due to the introduction of sophisticated technological innovations such as Internet of Things (IoT) capability, artificial intelligence (AI), and advanced material engineering, among others. The new fire engines have better performance, reliability, and multifunctionality, hence making firefighter units more effective. The current models of fire trucks are smarter, incorporating features like real-time data sharing, predictive analytics for maintenance, and enhanced operational efficiency. The ability to integrate such emerging technologies has better prepared fire-fighting units, enabling them to respond quickly and effectively in dealing with emergencies, thereby improving the safety standards of fire response services.

Burgeoning awareness about fire safety

The increasing prevalence of fire outbreaks and the awareness of their devastating and fatal effects have sparked the need for fire trucks. As per the the National Interagency Fire Center, information, in 2023, there were about 56,580 wildfires that had consumed 2.7 million acres in the United States. Progressively, governments of several countries have invested heavily in fire-fighting equipment such as fire trucks. Companies, apartments, and factories have grown more aware of the need for adequate fire safety and, in reflection, all have installed the required equipment on their installations. The demand for fire trucks has consequently risen due to the need to maintain high levels of readiness and response in the face of rising casualties and property loss.

Fire Trucks Market 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 type and application.

Breakup by Type:

Mini Tank

Rescue Trucks

Ini Pumpers

Multi-tasking Trucks

Mini tank accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes mini tank, rescue trucks, ini pumpers, and multi-tasking trucks. According to the report, mini tank represented the largest segment.

The mini tank segment is driven by the increasing demand for compact, versatile military vehicles capable of operating in varied terrains and confined spaces. These smaller tanks are favored for their agility, lower cost, and ease of deployment, especially in urban warfare or in regions with challenging landscapes. The integration of autonomous technologies and AI is also a key factor, enhancing their operational capabilities and enabling unmanned missions, thereby expanding their strategic relevance in modern military doctrines. As per ZD NET, Singapore is arming its firefighters with smart glasses with AI that capable of inspecting and identifying defects in their equipment, so the frontliners can be better prepared to respond to emergencies. The two-year pilot project encompasses the use of AI, including augmented reality (AR) technologies, and fifth generation (5G) technology to automate processes and facilitate real-time remote assistance. The shift towards rapid deployment forces and the need for high mobility in modern conflict scenarios further propel the demand. Innovations in miniaturized yet powerful weaponry, advanced communication systems, and improved armor that maintains maneuverability while offering protection are pivotal.

Breakup by Application:

Residential and Commercial

Enterprises and Airports

Military

Residential and commercial represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the application. This includes residential and commercial, enterprises and airports, and military. According to the report, residential and commercial represented the largest segment.

The residential and commercial segment is driven by the increasing awareness of fire safety norms and the growing emphasis on installing sophisticated fire protection systems in buildings. In residential areas, the demand is propelled by the rising number of housing developments, coupled with stringent regulations mandating the availability of fire safety equipment, including fire trucks, to ensure rapid emergency response. As per the Free Press Journal, the Nashik Municipal Corporation's (NMC) fire department issued a strict notice to commercial establishments, government offices, and residential buildings with a height exceeding 15 metres to conduct fire audits as mandated by the Fire Prevention Act. Homeowners and property developers are increasingly investing in comprehensive fire safety solutions, reflecting a proactive approach to safeguarding lives and property. Similarly, in the commercial sector, the expansion of business establishments, malls, hotels, and industrial complexes necessitates advanced fire-fighting machinery to handle potential large-scale incidents.

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

North America leads the market, accounting for the largest fire trucks market share

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

The North America fire trucks market is driven by the surging cases of fire incidence, increasing emphasis on public safety and regulatory compliance, technological advancements, and substantial investments in emergency and disaster management infrastructure. As per the Western Fire Chiefs Associations, the August Complex fire was a merging of 37 separate fires at once in Mendocino County, California. It was the largest wildfire on record burning through a whopping 1,032,648 acres. Stringent fire safety regulations and standards set by governmental bodies necessitate the procurement of advanced fire trucks equipped with the latest technologies is boosting the market growth. The region's focus on incorporating environmentally friendly solutions has accelerated the adoption of electric and hybrid fire trucks, reflecting a commitment to sustainability while addressing fire emergencies. As per the electrek, E-ONE, a Florida-based fire apparatus manufacturer specializing in emergency vehicles, delivered the first electric fire truck in the US. North America's well-established fire departments prioritize upgrading their fleets with vehicles that feature enhanced capabilities, such as improved water pumping systems, advanced life-saving equipment, and high-tech communication tools to ensure efficient and effective emergency responses.

Competitive Landscape:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major market players in the fire trucks industry include Albert Ziegler GmbH, Alexis Fire Equipment Company, BME Fire Trucks LLC, GIMAEX,

HME Incorporated, Magirus GmbH (CNH Industrial N.V.), Morita Holdings Corporation, Oshkosh Corporation, Rosenbauer International AG, The Shyft Group Inc., W. S. Darley & Co., and Weihai Guangtai Airport Equipment Co. Ltd.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

In the fire trucks market, key players are intensively focusing on several strategic activities to strengthen their market position and meet the evolving demands. They are heavily investing in research and development (R&D) to innovate and integrate advanced technologies like AI, IoT, and electric propulsion systems into their fire trucks, enhancing their efficiency, safety, and environmental sustainability. Collaborations and partnerships with technology firms are commonplace, aiming to leverage cutting-edge advancements in enhancing vehicle performance and operational capabilities. For instance, in February 2019, Rosenbauer announced a strategic partnership with Volvo Penta to develop and adapt the electric driveline system of the electrified Volvo trucks to the performance conditions of a fire service application. These companies are also expanding their global footprint through strategic mergers, acquisitions, and collaborations, enabling them to enter new markets and fortify their presence in existing ones. Moreover, they are increasingly adopting customer-centric approaches, providing comprehensive after-sales services, training, and support to maintain long-term relationships with their clients and ensure the effectiveness and reliability of their fire-fighting solutions.

Fire Trucks Market News:

In June 2022: Oshkosh Corporation introduced the Oshkosh Striker® 8x8 ARFF (Aircraft Rescue and Firefighting) vehicle, designed to meet the latest regulatory requirements and provide enhanced firefighting capabilities at airports.

In 2021: Magirus GmbH handed over an AirCore turbine fire-fighting vehicle on an Iveco Daily 4x4, an AirCore TAF35 fire-fighting robot, a MultiStar and the world's highest articulated turntable ladder, and an M42L-AS with rear-axle steering, to the Brazilian state of Cear?.

Key Questions Answered in This Report

1. What was the size of the global fire trucks market in 2023?
2. What is the expected growth rate of the global fire trucks market during 2024-2032?
3. What are the key factors driving the global fire trucks market?
4. What has been the impact of COVID-19 on the global fire trucks market?

5. What is the breakup of the global fire trucks market based on the type?
6. What is the breakup of the global fire trucks market based on the application?
7. What are the key regions in the global fire trucks market?
8. Who are the key players/companies in the global fire trucks market?

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