

Fire Truck Market Assessment, By Type [Pumpers, Aerials, Rescues, Wildland, Tenders, Aircraft Rescue and Firefighting Apparatus], By Application [Commercial and Residential, Military, Airport and Industrial, Others], By Propulsion [Internal Combustion Engine, Electric], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global fire truck market is projected to witness a CAGR of 4.04% during the forecast period 2025-2032, growing from USD 9.42 billion in 2024 to USD 12.93 billion in 2032. The market has experienced significant growth in recent years and is expected to maintain an expansion in the coming years owing to rapid urbanization, stringent fire safety laws, a rise in government investments for adopting advanced fire trucks in fire departments and increased public awareness concerning fire safety. Urbanization and population growth represent key factors at the top of this list since developing cities require advanced emergency response capabilities to protect lives and property. As a result, governments across the globe are thereby assigning major budgets to modernize fire services with state-of-the-art fire trucks that feature high-tech equipment. The growing awareness about fire safety regulations is also driving this modernization as more and more municipalities and organizations are upgrading their firefighting equipment to meet contemporary standards. Emerging markets are the strong contributors to this growth as developing regions move forward in investing in infrastructure and enhancing emergency response capabilities. Technological advancements also contribute to the market, with innovations like drones, thermal imaging cameras, and advanced communication systems in firefighting. These devices do not only enhance situational awareness but also facilitate coordination during emergencies, which enables firefighters to respond in a better way. Moreover, there is an emphasis on environmentally friendly solutions as manufacturers develop fire trucks that use alternatives for fuels and sustainable materials in response to global sustainability goals.

For instance, in March 2023, Scania CV AB and Albert Ziegler GmbH in collaboration successfully installed its hybrid system in one of the airport fire trucks, together with chassis manufacturer Titan Spezialfahrzeugbau GmbH and Albert Ziegler GmbH can now offer solutions that enable zero-emission drive in and around airports. The combined diesel-electric power cuts crash site response

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time that exceeds strict aviation industry requirements and lowers emissions.

Urbanization Leads to Expansion in Global Fire Truck Market

One of the major driving forces behind the global expansion of fire trucks is urbanization. The rapidly growing cities need more potent firefighting capabilities to secure lives and property. An increase in the urban population and amplified infrastructure development increases the demand for advanced firefighting equipment. As high-rise structures and industrial complexes flourish in busy cities, so do fire-related risks, forcing metropolitan governments to spend more on high-tech fire trucks. This is more common today in emerging economies where construction is often shoddy and regulatory control weak, thus upping the fire vulnerability.

Moreover, increasing fire cases in urban cities emphasize the need for better emergency services. With increased levels of packing in urban spaces, the aspect of slum houses and closely packed households increases fire cases and, therefore, expands upon the call for efficient firefighting products.

For instance, in January 2022, Brihanmumbai Municipal Corporation (BMC) allotted USD 43.19 million to the Mumbai Fire Brigade (MFB) in its 2022 budget to upgrade its facilities and existing infrastructure and impart basic fire and life safety training to Mumbai people. Mumbai Fire Brigade procures 36 more vehicles to ensure better response time, 22 quick response multi-purpose vehicles, and 14 firefighting-cum-rescue vehicles. Fire Brigade is enhancing its capacity by introducing new vehicles like fire bikes, hazmat vans, and drones.

Government Initiatives Fuel the Global Fire Truck Market Growth

Authorities worldwide are working to improve public safety. They are launching initiatives to enhance emergency response capabilities which is expected to drive the fire truck market. Urbanization coupled with infrastructure development at a rapid rate has fueled demand for modern firefighting equipment, thus inducing governments to make substantial budgetary allocations for upgrading fire services. For example, in the U.S. The Assistance to Firefighters Grant program by the Department of Homeland Security has been essential in providing financial means for every fire department to gain new equipment, such as pumper fire trucks, but such efforts are complemented by strict rules aimed at improving safety standards and operational efficiency for firefighters. Instead of encouraging innovation, including a regulatory framework can push municipalities to replace antique equipment with high-tech one that reflects modern safety expectations.

As governments continue to prioritize public safety and environmental sustainability, the market is witnessing a shift towards electric and hybrid fire trucks, aligning with global efforts to reduce greenhouse gas emissions. This combination of government funding, regulatory support, and a growing emphasis on technological advancements is propelling the fire truck market forward, ensuring that it evolves to meet the challenges of modern firefighting while safeguarding communities around the world.

For instance, in September 2024, Norfolk-based EV firm Equipmake Limited secured a share of government funding to develop a new electric fire engine. They are expected to collaborate with partners, including the London Fire Brigade, to develop the vehicle over the next 12 months. The USD 0.44 million funding of grants and investment from the government-backed Advanced Propulsion Centre (APC) to support the development of zero-emissions vehicles. The joint venture, known as ZEPA (Zero Emission Pumping Appliance), is a collaboration between Equipmake Limited, emergency vehicle manufacturer Emergency One, the London Fire Brigade and CHS Inc. (CENEX).

Pumper Fire Trucks Hold Dominance in the Market

Dominating the global market of fire trucks, the pumper truck has been one of the most significant segment, marking this segment's role in firefighting activities. This popularity is attributed to pumper trucks' versatility and functionality of their designs in transporting water from external sources, such as water tanks, wells, and overhead tanks, thus becoming indispensable for proper firefighting. Pumper fire trucks are supplied with high-capacity pumps and water tanks, thus allowing them to discharge enormous volumes of water rapidly, efficiently, and effectively to combat fires. Their ability to negotiate urban environments, especially in densely populated areas characterized by narrow streets and high-rise buildings, has even contributed to their increased demand. In addition, relative to other specialized fire truck models, pumpers are generally less expensive compared to others and, therefore, a more practical choice for many fire departments, especially those operating on limited budgets. The increasing focus on fire safety regulations and the growing awareness of the need for advanced firefighting equipment in developed nations are expected to bolster the demand for pumper trucks in the coming years.

For instance, in July 2024, a Vietnamese company, VINH PHAT MOTORS COMPANY LIMITED, managed to assemble a small-sized

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pickup truck model to battle fires in alleyways in urban areas instead of relying on imported big trucks for firefighting. The vehicle, called SANDEUR S-100, was designed to be over 1.8 meters wide and 5.8 meters long, have a tonnage of 3,490 kilograms, and be able to carry five people and firefighting equipment. The vehicle is equipped with basic firefighting equipment, such as a water pump, a water tank, a foam tank, a nozzle that can help spray water as far as 50-60 meters, and equipment for rescue, making it a pumper fire truck.

Asia-Pacific is Dominating the Global Fire Truck Market

Asia-Pacific is promising to grow exponentially in the global fire truck market, making it the largest and the most rapidly growing region, while a combination of factors speaks to the dominance that is defining this region. Rapid urbanization stands at the forefront, especially in countries such as China, India, and many Southeast Asian nations where rapidly growing populations and vast construction activities require adequate fire safety measures. Therefore, the governments are imposing harsh fire safety measures and making heavy investments in firefighting structures. Furthermore, the increasing urban fire incidence has emphasized the need for adequate firefighting resources, as fire departments must replace their fleets with new-age vehicles that can deal with contemporary issues, including fires on skyscrapers.

Moreover, the presence of low-cost manufacturers, especially in China, contributes significantly to the region's market leadership. These manufacturers benefit from lower production costs and a robust supply chain, allowing them to offer competitive pricing for fire trucks. As these trends continue to evolve, the region is set to maintain its dominance and drive substantial growth in the years ahead.

For instance, in March 2023, Daimler Truck AG and XCMG Group held a signing ceremony in Xuzhou, China. According to the deal, both parties will seek further cooperation and innovation in the field of firefighting based on the new generation of Arocs products to provide complete and systematic solutions for customers.

Future Market Scenario (2025-2032F)

□ Integration of features such as telematics, automated firefighting systems, and electric power is enhancing operational efficiency and safety, driving the global fire truck market demand.

□ As cities grow and new construction projects emerge, there will be a rising need for effective fire safety measures, prompting municipalities to invest in modern fire trucks equipped with advanced technology.

□ Governments continue to prioritize public safety and environmental sustainability, the market will witness a shift towards electric and hybrid fire trucks, aligning with global efforts to reduce greenhouse gas emissions.

Key Players Landscape and Outlook

The global fire truck market is portrayed as a highly competitive landscape where various key players thrive, promoting innovation and growth within the industry. Leading players in this market continue to focus on the development of new products, ordering new contracts, and enhancing production capacities to manage the surging demand for firefighting technologies. Major players are now focusing on integrating cutting-edge technologies like artificial intelligence and electric power into fire trucks to achieve efficiency and environmental sustainability. Besides product innovation, key companies are focused on strategic initiatives such as mergers and acquisitions, joint ventures, and collaborations to strengthen market positions.

For instance, in November 2023, Pierce Manufacturing, Inc., an Oshkosh Corporation company, announced that Canada-based dealer Commercial Emergency Equipment Co. has secured a 5-year supply contract with Mississauga Fire and Emergency Services (MFES). The initial two orders comprise nine apparatus, headlined by a Pierce Volterra electric pumper intended for MFES's new net-zero fire station. Other fire apparatus in the first two orders include a Pierce Enforcer heavy-duty rescue pumper, four Enforcer pumpers, a Saber tanker, an Enforcer HAZMAT truck, and an Ascendant 107' heavy-duty aerial ladder on an Enforcer chassis.

For instance, in November 2024, St. Paul announced the launch of Minnesota's first electric firetruck, which Rosenbauer International AG. This launch in Minnesota, focuses on improving the level of service provided by the Fire Department to both their community and their firefighters.

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