

Fire Truck Market by type (Pumper, Aerial, Tender, ARFF, & Hazmat), Application (Commercial & Residential, Military, Airport & Industrial), Propulsion (ICE & EV), Capacity (<500, 501-1000, 1001-2000, >2000 Gallons) and Region - Global Forecast to 2030

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Report description:

The fire truck market is estimated to grow from USD 8.1 million in 2024 to USD 9.6 million by 2030, at a CAGR of 2.7%.

An increasing awareness of fire safety measures and government initiatives for lowering the number of deaths which are related to fire incidents has boosted the demand for advanced fire trucks. Globally, there is a growing awareness of fire safety, which is driving market expansion. The rapid urbanization and population growth have increased the demand for advanced fire trucks globally. In some difficult fire cases these firefighting trucks handle large-scale buildings and industrial complexes. Thus, the development of firefighting technology has resulted in the production of increasingly advanced fire trucks that are equipped to handle a wide range of situations on a global scale.

"Aircraft Rescue and Firefighting truck is the fastest-growing vehicle types over the forecast period."

The aircraft rescue and firefighting trucks have a crucial role in maintaining the security of travelers in airports. ARFF vehicles are stationed at airports all over the world, specifically built to handle crises involving aircraft. ARFF fire vehicles have a large global market share because of a few important factors. The first reason for the constant improvements and replacements of ARFF fleets is the strict international laws requiring airports to retain strong firefighting capabilities. Airport safety and emergency response procedures are governed by international standards published by the International Civil Aviation Organization (ICAO).

According to a report published in July 2024 by the World Economic Forum claims that airports all around the world aggressively reduce carbon emissions by using sustainable methods. These include implementing energy-efficient practices, embracing renewable energy sources, and modernizing infrastructure to be more environmentally friendly. For instance, in San Diego International Airport had constructed a 5MW solar array to power its facilities, and Oslo Airport runs its ground operations

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exclusively on biofuel. To reduce energy usage, Singapore's Changi Airport uses intelligent building technologies. Moreover, the airports such as Los Angeles International Airport and London Heathrow are leading the way in replacing conventional diesel fire trucks with electric ones. In line with their environmental goals, this shift dramatically lowers greenhouse gas emissions, encourages sustainability initiatives, and improves air quality.

"Residential & commercial application holds the largest fire truck market."

Fire trucks are used in numerous vital functions in emergency situations. These fire trucks are utilized in both residential and commercial applications globally. The purpose of residential fire trucks is to put out structural fires in residential areas. Additionally, there is a greater need for fire stations due to the rise in megaprojects, residential and commercial buildings, and worldwide development. In March 2024, Jones Lang LaSalle Inc. (JLL) had stated that residential development in Indian market has increased by 26% in 2023 considering the previous year 2022. According to estimates from the World Bank, more than 56% of people reside in cities, and by 2050, this percentage is predicted to rise to 68%. Additionally, there will be 1.5 times as more people living in metropolitan areas till 2045, which adds 2 billion new people to the population during the projected timeframe. This development in urbanization will increase the infrastructural needs to keep up with population growth. Significant increases in municipal service will be required because of this population growth. It includes schools and colleges for kids and teenagers; hospital facility, and residential complexes to meet the increasing demand for residence due to increase in population globally. For instance, cities like Lagos, New York, Tokyo, and Mumbai have led to increase in space set for municipal facilities such as healthcare and education to accommodate their expanding populations.

There is increase in urbanization and population growth due to growth in economy of the developing countries, which has resulted in the construction of new businesses and residential structures. Fire services will need to acquire cutting-edge fire trucks in order to establish new infrastructure, trucks that can maneuver through urban settings and get to high-rise buildings on congested, small city streets. To maintain the safety and security of urban people and properties, a well-equipped fleet of fire vehicles will be necessary due to the general expansion in urban population. On the other hand, increased industrial activity will also need for more stringent fire safety regulations in order to both prevent and contain industrial fires. As a result, more specialist fire engines will be needed to deal with different types of fire situations in industrial settings.

"North America is the fastest growing region in the fire truck market."

The growth of fire trucks market is skyrocketing in North America due to various imperative factors and trends. Over the time urbanization and increasingly infrastructure development needs of new age expanded fire services. Ford Economics states the construction industry supported 4% of GDP in America and 7.5%, Canada (2022 - *June*2019). This building industry has been catered because of the quick urbanization in US and Canada which has led to using improved hearth safety services, photographs for newer fireplace stations & vehicles etc. In addition, big states such as California, Florida and Texas attracted large numbers of immigrants in 2021-22 while New York's increase was significant with a net gain (13.7%) of 41 percent higher figure at the end compared to three years back. The growth of infrastructure and urbanization that North America has experienced calls requires updated fire services. Ford Economics states that in USA, in June 2024 4% of GDP was contributed by construction industry while for Canada it was 2022-2023 7.5%. In US and Canada, being urbanized quickly, led a high demand for residential buildings and other industry sectors which warranted an upsurge in the number of fire stations and trucks that have better fire protection services. Moreover, in 2021-2022 periods; more people from outside moved to places such as Florida, Texas, New York and California.

The trend for electrification in fire truck is at initial stages and will gradually increase in North America region. The governing body in North America has set a new regulation for protecting the environment, where The US Environmental Protection Agency (EPA) has introduced a new rule mandating stringent emissions standards for heavy-duty trucks from model years 2027 to 2032. In 2020, California became the first state to propose a zero-emission vehicle (ZEV) on the sales of heavy-duty trucks. This initiative, the Advanced Clean Truck Regulation, will take effect in 2024. Considering this regulation, several key players in the fire truck industry have introduced electric vehicle (EV) versions tailored to North American markets. Pierce Manufacturing, a subsidiary of Oshkosh Corporation, unveiled the Pierce Volterra platform. Rosenbauer America had introduced the Rosenbauer Concept Fire Truck (CFT) and E-ONE. It launched the E-ONE Electric Pumpers and Aerials, providing electric-powered solutions designed to meet the evolving needs of fire departments in North America.

Climate change and other environmental variables are also contributing to an increase in wildfire incidences in North America.

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This region's significant concentration of forests makes wildfire trucks a common tool. In 2022, about 16% of North Americans lived in fire-prone areas, and in the next 30 years, that number is expected to rise to 30%, according to a Washington Post Analysis article. Due to the intensity and frequency of these wildfires, there is an increased need for specialist fire engines that can efficiently handle large-scale catastrophes. In the upcoming years, this demand is expected to grow.

The key players present in North America are Pierce Manufacturing, Rosenbauer America, E-ONE, Spartan Emergency Response, Smeal Fire Apparatus, KME Fire Apparatus, HME Ahrens-Fox, Seagrave Fire Apparatus, Ferrara Fire Apparatus, and Sutphen Corporation.

The break-up of the profile of primary participants in the fire truck market:

By Companies: Fire Truck Manufacturers - 80% and Fire Truck End User ? 20%

By Designation: Director level - 10%, C-Level Executives - 60%, Others- 30%,

By Region: North America - 10%, Europe ? 30%, and Asia Pacific - 25%, Rest of the World ? 35%

Global players dominate the fire truck market, comprising several regional players. The major players in the fire truck market include Rosenbauer International AG (Austria), Oshkosh Corporation (US), Morita Holdings Corporation (Japan), REV Group (US), and IVECO Group N.V (Italy).

Research Coverage:

By type (engine pumper truck, aerial truck, aircraft rescue and firefighting truck, tender truck, wildfire truck, and HAZMAT truck); By application (military, airport, industrial, residential & Commercial, and forest); By propulsion (ICE and Electric); By capacity (<500 gallons, 501-1,000 gallons, 1,001-2,000 gallons, and >2,00 gallons); By Region (Asia Pacific, Europe, and North America, and Rest of the World).

The report's scope covers detailed information regarding the major factors influencing the growth of the fire truck market. A thorough analysis of the key industry players has provided insights into their business overview, products, key strategies, contracts, partnerships, agreements, new product launches, recession impact, and recent fire truck market developments.

Key Benefits of Buying the Report:

The report will help market leaders and new entrants with information on the closest approximations of the fire truck market's global revenue, ME subsegments, technology analysis, bill of material, eco-system, pricing analysis, trade analysis, and investment & funding. It will also help stakeholders like OEMs, chassis suppliers, and fire apparatus providers understand the competitive landscape and gain insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

?□Analysis of critical drivers (Growing urban areas and infrastructure projects increase the need for more firefighting resources; and increase in fire accidents have raised the focus on safety), restraints (High investment cost in fire trucks making it less accessible for developing countries), opportunities (alternative fuel option), and challenges (Economies of scale by smaller players) influencing the growth of the fire truck market.

?□Product Development/Innovation: Detailed insights on upcoming technologies and new products launched in the fire truck market.

?□Market Development: Comprehensive market information ? the report analyses the authentication and brand protection market across varied regions.

?□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the fire truck market.

?□Competitive Assessment: In-depth assessment of the market shares, growth strategies, and service offerings of leading players in the fire truck market, such as Rosenbauer International AG (Austria), Oshkosh Corporation (US), Morita Holdings Corporation (Japan), REV Group (US), and IVECO Group N.V (Italy).

Table of Contents:

1□INTRODUCTION□21

1.1□STUDY OBJECTIVES□21

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1.2	MARKET DEFINITION	22
1.2.1	INCLUSIONS AND EXCLUSIONS	22
1.3	STUDY SCOPE	23
1.3.1	YEARS CONSIDERED	24
1.4	CURRENCY CONSIDERED	24
1.5	UNIT CONSIDERED	25
1.6	STAKEHOLDERS	25
2	RESEARCH METHODOLOGY	26
2.1	RESEARCH DATA	26
2.2	SECONDARY DATA	28
2.2.1	SECONDARY SOURCES REFERRED TO FOR ESTIMATING FIRE TRUCK SALES	28
2.2.2	KEY DATA FROM SECONDARY SOURCES	29
2.3	PRIMARY DATA	30
2.3.1	SAMPLING TECHNIQUES AND DATA COLLECTION METHODS	30
2.3.1.1	Primary interview participants	31
2.4	MARKET SIZE ESTIMATION	31
2.4.1	BOTTOM-UP APPROACH	32
2.4.2	TOP-DOWN APPROACH	33
2.5	FACTOR ANALYSIS	33
2.6	DATA TRIANGULATION	34
2.7	RESEARCH ASSUMPTIONS AND RISK ASSESSMENT	35
2.8	RESEARCH LIMITATIONS	36
3	EXECUTIVE SUMMARY	37
4	PREMIUM INSIGHTS	40
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN FIRE TRUCK MARKET	40
4.2	FIRE TRUCK MARKET, BY TYPE	40
4.3	FIRE TRUCK MARKET, BY APPLICATION	41
4.4	FIRE TRUCK MARKET, BY PROPULSION	41
4.5	FIRE TRUCK MARKET, BY CAPACITY	42
4.6	FIRE TRUCK MARKET, BY REGION	42
?		
5	MARKET OVERVIEW	43
5.1	INTRODUCTION	43
5.2	MARKET DYNAMICS	44
5.2.1	DRIVERS	44
5.2.1.1	Growth of urban areas and infrastructure projects increasing need for more firefighting resources	44
5.2.1.2	Increase in fire accidents raising focus on safety	45
5.2.2	RESTRAINTS	47
5.2.2.1	High investment cost in fire trucks making hindering market in emerging economies	47
5.2.3	OPPORTUNITIES	47
5.2.3.1	Alternative fuel options	47
5.2.4	CHALLENGES	48
5.2.4.1	Economies of scale by smaller players	48
5.3	TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS	50
5.4	PATENT ANALYSIS	51
5.5	ECOSYSTEM ANALYSIS	56
5.6	SUPPLY CHAIN ANALYSIS	59

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5.7	CASE STUDY ANALYSIS	61
5.7.1	INSTALLATION OF RDS-CONNECTED COMMAND SYSTEM FOR BETTER COMMUNICATION IN RUGGED TERRAINS OF SWITZERLAND	61
5.7.2	SOLUTION BY ROSENBAUER INTERNATIONAL AG FOR KIRCHDORF FIRE DEPARTMENT TO COMMUNICATE WITH MULTIPLE UNITS WITH REAL-TIME INFORMATION	61
5.7.3	IMPROVED SUSPENSION IN FIRE TRUCKS TO PREVENT ROLLOVERS	62
5.7.4	CUSTOMIZING OLD FIRE TRUCK WITH CUMMINS ISX 550 HORSEPOWER ENGINE TO IMPROVE FIRE TRUCK PERFORMANCE	62
5.8	PRICING ANALYSIS	63
5.8.1	AVERAGE SELLING PRICE, BY REGION, 2019-2023	63
5.8.2	AVERAGE SELLING PRICE, BY APPLICATION, 2019-2023	64
5.8.3	AVERAGE SELLING PRICE, BY TYPE, 2019-2023	64
5.9	TRADE ANALYSIS	65
5.9.1	IMPORT SCENARIO, 2019-2023	65
5.9.2	EXPORT SCENARIO, 2019-2023	67
5.10	TECHNOLOGY ANALYSIS	68
5.10.1	KEY TECHNOLOGIES	68
5.10.1.1	V2V communication between fire trucks	68
5.10.1.2	Autonomous drive for fire trucks	69
5.10.2	COMPLEMENTARY TECHNOLOGIES	70
5.10.2.1	Idle reduction technology	70
5.10.2.2	Use of thermal drones	70
5.10.3	ADJACENT TECHNOLOGIES	71
5.10.3.1	Electric and hybrid fire trucks	71
5.11	KEY CONFERENCES AND EVENTS IN 2024-2025	71
5.12	REGULATORY LANDSCAPE	73
5.12.1	VEHICLE SAFETY STANDARDS	73
5.12.2	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	74
5.12.2.1	North America	74
5.12.2.2	Europe	75
5.12.2.3	Asia Pacific	76
5.13	KEY STAKEHOLDERS AND BUYING CRITERIA	78
5.13.1	KEY STAKEHOLDERS IN BUYING PROCESS	78
5.13.2	BUYING CRITERIA	78
5.14	INVESTMENT SCENARIO	79
5.15	OEM ANALYSIS	80
5.15.1	FIRE TRUCK CAPACITY VS. POWER OUTPUT	80
5.15.2	ELECTRIC FIRE TRUCK CAPACITY VS. BATTERY CAPACITY	81
5.16	BILL OF MATERIALS	81
6	FIRE TRUCK MARKET, BY TYPE	83
6.1	INTRODUCTION	84
6.2	ENGINE PUMPER TRUCK	86
6.2.1	GOVERNMENT INITIATIVES AND FUNDING FOR MODERNIZING FIREFIGHTING FLEETS TO DRIVE MARKET	86
6.3	AERIAL TRUCK	88
6.3.1	NEED FOR SPECIALIZED FIREFIGHTING EQUIPMENT OPERATING IN COMPLEX URBAN ENVIRONMENTS TO DRIVE MARKET	88
6.4	AIRCRAFT RESCUE AND FIREFIGHTING TRUCK	90
6.4.1	INCREASING SAFETY REGULATIONS IN AIRPORTS TO DRIVE MARKET	90

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6.5	TENDER TRUCK	92
6.5.1	NEED FOR ENHANCED EMERGENCY RESPONSE CAPABILITIES TO DRIVE MARKET	92
6.6	HAZMAT TRUCK	93
6.6.1	GROWING CHEMICAL AND PHARMA INDUSTRIES TO DRIVE MARKET	93
6.7	WILDFIRE TRUCK	95
6.7.1	INCREASING DEFORESTATION AND WILDFIRES TO DRIVE MARKET	95
6.8	INDUSTRY INSIGHTS	97
7	FIRE TRUCK MARKET, BY APPLICATION	98
7.1	INTRODUCTION	99
7.2	RESIDENTIAL & COMMERCIAL	101
7.2.1	RIISING DEMAND FOR RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL SPACES TO DRIVE MARKET	101
7.3	AIRPORT	103
7.3.1	DEVELOPMENT OF NEW AIRPORTS AND THEIR SAFETY PRECAUTIONS TO DRIVE MARKET	103
7.4	FOREST	104
7.4.1	INCREASING FOREST FIRES TO DRIVE MARKET	104
7.5	INDUSTRIAL	106
7.5.1	PLANT EXPANSIONS AND INVESTMENTS TO DRIVE MARKET	106
7.6	MILITARY	108
7.6.1	INCREASING BUDGET ALLOCATION IN MILITARY AND DEFENSE TO DRIVE MARKET	108
7.7	INDUSTRY INSIGHTS	109
8	FIRE TRUCK MARKET, BY PROPULSION	110
8.1	INTRODUCTION	111
8.2	INTERNAL COMBUSTION ENGINE (ICE)	112
8.2.1	ASIA PACIFIC TO DRIVE MARKET	112
8.3	ELECTRIC	113
8.3.1	REDUCED OPERATING COSTS AND EMISSION REGULATIONS TO DRIVE MARKET	113
8.4	INDUSTRY INSIGHTS	114
9	FIRE TRUCK MARKET, BY CAPACITY	115
9.1	INTRODUCTION	116
9.2	<500 GALLONS	117
9.2.1	GROWING CONGESTION IN URBAN CITIES TO DRIVE MARKET	117
9.3	501-1,000 GALLONS	119
9.3.1	COMMERCIAL AND RESIDENTIAL APPLICATIONS TO DRIVE MARKET	119
9.4	1,001 - 2,000 GALLONS	121
9.4.1	REPLACEMENT OF AGING EQUIPMENT WITH BETTER MODELS TO DRIVE MARKET	121
9.5	>2,000 GALLONS	123
9.5.1	EUROPE TO DRIVE MARKET	123
9.6	INDUSTRY INSIGHTS	125
10	FIRE TRUCK MARKET, BY REGION	126
10.1	INTRODUCTION	127
10.2	ASIA PACIFIC	129
10.2.1	CHINA	132
10.2.1.1	Increase in airports and urban cities to drive market	132
10.2.2	INDIA	134
10.2.2.1	Increase in funds for disaster preparedness to drive market	134
10.2.3	JAPAN	136
10.2.3.1	Robust emergency system to drive market	136

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10.2.4	SINGAPORE	138
10.2.4.1	Growing biomedical and logistics sectors to drive market	138
	?	
10.2.5	AUSTRALIA & NEW ZEALAND	140
10.2.5.1	Development of coal and mining sectors to drive market	140
10.2.6	REST OF ASIA PACIFIC	142
10.3	EUROPE	144
10.3.1	GERMANY	148
10.3.1.1	Increase in import of fire trucks due to safety concerns to drive market	148
10.3.2	FRANCE	149
10.3.2.1	Increase in tourism to drive market	149
10.3.3	UK	151
10.3.3.1	Growing number of emission regulations to drive market	151
10.3.4	SPAIN	153
10.3.4.1	Replacement of aging fire truck fleets to drive market	153
10.3.5	ITALY	155
10.3.5.1	Booming tourism and transportation to drive market	155
10.3.6	SWITZERLAND	156
10.3.6.1	Growth of hospitality & tourism industry to drive market	156
10.3.7	AUSTRIA	158
10.3.7.1	Stringent environment regulations to drive market	158
10.3.8	REST OF EUROPE	160
10.4	NORTH AMERICA	162
10.4.1	US	164
10.4.1.1	Development of advanced firefighting technologies to drive market	164
10.4.2	CANADA	166
10.4.2.1	Safety standards and strict emission regulations to drive market	166
10.4.3	MEXICO	167
10.4.3.1	Growing industrial zones to drive market	167
10.5	REST OF THE WORLD	169
10.5.1	SAUDI ARABIA	171
10.5.1.1	Growth of oil & gas industry to drive market	171
10.5.2	UAE	173
10.5.2.1	Presence of tall skyscrapers and growing tourism sector to drive market	173
10.5.3	SOUTH AFRICA	175
10.5.3.1	Increase in deforestation to drive market	175
10.5.4	OTHERS	177
10.6	INDUSTRY INSIGHTS	179
11	COMPETITIVE LANDSCAPE	180
11.1	OVERVIEW	180
11.2	KEY PLAYER STRATEGIES	180
11.3	MARKET SHARE ANALYSIS, 2023	182
11.4	REVENUE ANALYSIS, 2021-2023	183
11.5	COMPANY EVALUATION MATRIX: FIRE TRUCK MANUFACTURERS, 2023	184
11.5.1	STARS	184
11.5.2	EMERGING PLAYERS	184
11.5.3	PERVASIVE PLAYERS	184

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11.5.4	PARTICIPANTS	184
11.5.5	COMPANY FOOTPRINT	186
11.6	COMPETITIVE SCENARIOS AND TRENDS	190
11.6.1	PRODUCT LAUNCHES/DEVELOPMENTS	190
11.6.2	DEALS	192
11.6.3	OTHER DEVELOPMENTS	194
11.7	BRAND COMPARISON	195
11.8	COMPANY VALUATION, 2023	196
11.9	COMPANY FINANCIAL METRICS, 2023	196
12	COMPANY PROFILES	197
12.1	KEY PLAYERS (FIRE TRUCK MANUFACTURERS)	197
12.1.1	ROSENBAUER INTERNATIONAL AG	197
12.1.1.1	Business overview	197
12.1.1.2	Products/Solutions/Services offered	199
12.1.1.3	Recent developments	200
12.1.1.4	MnM view	201
12.1.1.4.1	Key strengths	201
12.1.1.4.2	Strategic choices	202
12.1.1.4.3	Weaknesses and competitive threats	202
12.1.2	OSHKOSH CORPORATION	203
12.1.2.1	Business overview	203
12.1.2.2	Products/Solutions/Services offered	204
12.1.2.3	Recent developments	205
12.1.2.4	MnM view	207
12.1.2.4.1	Key strengths	207
12.1.2.4.2	Strategic choices	207
12.1.2.4.3	Weaknesses and competitive threats	207
12.1.3	REV GROUP	208
12.1.3.1	Business overview	208
12.1.3.2	Products/Solutions/Services offered	209
12.1.3.3	MnM view	211
12.1.3.3.1	Key strengths	211
12.1.3.3.2	Strategic choices	211
12.1.3.3.3	Weaknesses and competitive threats	211
?		
12.1.4	MORITA HOLDINGS CORPORATION	212
12.1.4.1	Business overview	212
12.1.4.2	Products/Solutions/Services offered	213
12.1.4.3	MnM view	214
12.1.4.3.1	Key strengths	214
12.1.4.3.2	Strategic choices	214
12.1.4.3.3	Weaknesses and competitive threats	214
12.1.5	IVECO GROUP NV	215
12.1.5.1	Business overview	215
12.1.5.2	Products/Solutions/Services offered	216
12.1.5.3	Recent developments	218
12.1.5.4	MnM view	219

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12.1.5.4.1	Key strengths	219
12.1.5.4.2	Strategic choices	219
12.1.5.4.3	Weaknesses and competitive threats	219
12.1.6	NAFFCO	220
12.1.6.1	Business overview	220
12.1.6.2	Products/Solutions/Services offered	220
12.1.6.3	Recent developments	221
12.1.7	SIMON-CARMICHAEL INTERNATIONAL GROUP LIMITED (SIG)	222
12.1.7.1	Business overview	222
12.1.7.2	Products/Solutions/Services offered	223
12.1.8	ZIEGLER	224
12.1.8.1	Business overview	224
12.1.8.2	Products/Solutions/Services offered	224
12.1.8.3	Recent developments	225
12.1.9	DESAUTEL	226
12.1.9.1	Business overview	226
12.1.9.2	Products/Solutions/Services offered	226
12.1.9.3	Recent developments	228
12.1.10	VOLKAN	229
12.1.10.1	Business overview	229
12.1.10.2	Products/Solutions/Services offered	229
12.1.10.3	Recent developments	231
12.2	OTHER PLAYERS	232
12.2.1	ANGLOCO LIMITED	232
12.2.2	DARLEY	233
12.2.3	EURO GV D.O.O.	234
12.2.4	PALMER-ASIA	235
12.2.5	SUTPHEN	236
12.2.6	SPENCER MANUFACTURING INC.	237
?		
12.2.7	VENGEANT MANUFACTURING	237
12.2.8	ROMPRIM	238
12.2.9	METALFAB FIRE TRUCKS	239
12.2.10	EMPL FAHRZEUGWERK GMBH	240
12.2.11	AAAG INDIA	241
12.2.12	CXFIRE	242
12.2.13	KARBA AUTOMOTIVE MACHINE IND. AND TRADE LTD. CO.	243
12.2.14	HEIMAN FIRE EQUIPMENT	244
12.2.15	ACRES EMERGENCY VEHICLES	244
13	RECOMMENDATIONS BY MARKET	245
13.1	EUROPE TO BE LARGEST MARKET FOR FIRE TRUCKS	245
13.2	ELECTRIC PROPULSION TO OFFER ATTRACTIVE OPPORTUNITIES FOR MARKET PLAYERS	245
13.3	AIRPORT RESCUE FIREFIGHTING VEHICLES TO HAVE SIGNIFICANT MARKET GROWTH	246
13.4	CONCLUSION	247
14	APPENDIX	248
14.1	INSIGHTS FROM INDUSTRY EXPERTS	248
14.2	DISCUSSION GUIDE	248

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14.3	KNOWLEDGESTORE: MARKETSANDMARKETS? SUBSCRIPTION PORTAL	251
14.4	CUSTOMIZATION OPTIONS	253
14.4.1	FIRE TRUCK MARKET, BY TYPE	253
14.4.1.1	Rescue Fire Truck	253
14.4.1.2	Light Rescue Truck	253
14.4.2	FIRE TRUCK MARKET, BY COUNTRY	253
14.4.2.1	South Korea	253
14.4.2.2	Thailand	253
14.4.2.3	Russia	253
14.4.2.4	Brazil	253
14.4.3	ELECTRIC FIRE TRUCK MARKET, BY BATTERY CAPACITY	253
14.4.3.1	<50 kWh	253
14.4.3.2	51-100 kWh	253
14.4.3.3	100-200 kWh	253
14.4.3.4	>200 kWh	253
14.4.4	FIRE TRUCK MARKET, BY BATTERY CHEMISTRY	253
14.4.4.1	LFP	253
14.4.4.2	NMC	253
14.4.4.3	Others	253
14.5	RELATED REPORTS	254
14.6	AUTHOR DETAILS	255

Fire Truck Market by type (Pumper, Aerial, Tender, ARFF, & Hazmat), Application (Commercial & Residential, Military, Airport & Industrial), Propulsion (ICE & EV), Capacity (<500, 501-1000, 1001-2000, >2000 Gallons) and Region - Global Forecast to 2030

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