



FIRE CHASSIS

SAFETY, STRENGTH
AND PERFORMANCE

**BUILT TO
A HIGHER
STANDARD**





DRIVEN TO RESPOND TO A HIGHER CALLING.

**With Spartan Fire Chassis, Every Response
Rides on a Foundation of Strength.**

A lot is riding on every emergency response, so your fire trucks must be built solid from the road up, ready to meet every challenge and protect your crew. Spartan Fire Chassis has been a driving force in the manufacturing of custom cab chassis since 1975. Our chassis begin with a strong foundation, using custom production methods and materials that build the most highly engineered frame in the industry. And while our chassis can handle heavy-duty applications, they can also maneuver swiftly, with the tightest turn radius on the market. Our cabs are built to keep crews comfortable and safe with high rooflines, flat floors, Advanced Climate Control systems, and the industry's first Advanced Protection System.



INNOVATIVE DIGITAL DASH

More Ways to Make the Right Choice.

Spartan Fire Chassis offers a range of 4x2, 4x4, and 6x4 configurations, horsepower options, wheelbase dimensions, and weight capacities to meet the specific needs of your station's environment. Whether you're called to navigate urban streets, suburban or rural roads, or venture off-road, we offer the ideal chassis for your department.



GLADIATOR®

Available in LTD, SMFD, MFD, EMFD, LFD, and ELFD Cab Styles—Flat or Raised (5", 10", 20" or 24").

- 99" Wide Aluminum Cab
- 1250-1850 ft-lb Torque, 400-605 hp
- Seats up to 10
- Front Suspension: Multi-leaf Spring, Parabolic Spring or IFS Suspension
- Front GAWR: 18,000 lbs. – 24,000 lbs.
- 42° - 53° Cramp Angle
- Rear Suspension: Spring, Rubber Block, or Air (Single or Tandem)
- Rear GAWR: 24,000 lbs. – 63,000 lbs.
- Galvanized Frame Rails Standard



METRO STAR®

Available in LTD, SMFD, MFD, EMFD, LFD, and ELFD Cab Styles—Flat or Raised (5", 10", 20" or 24").

- 94" Wide Aluminum Cab
- 1150-1650 ft-lb Torque, 360-450 hp
- EZ-Trac 4WD System Available
- Front Suspension: Multi-leaf Spring, Parabolic Spring or IFS Suspension
- Front GAWR: 18,000 lbs. – 24,000 lbs.
- 42° - 53° Cramp Angle
- Rear Suspension: Spring, Rubber Block, or Air (Single or Tandem)
- Rear GAWR: 24,000 lbs. – 58,000 lbs.
- Galvanized Frame Rails Standard



FC-94®

Available in LTD (2-Door) and MFD (4-Door) Cabs with 10" Raised Roof.

- 94" Wide Aluminum Cab
- 1150-1650 ft-lb Torque, 360-450 hp
- EZ-Trac 4WD System Available
- Front GAWR: 18,000 lbs. – 24,000 lbs.
- Up to 50° Cramp Angle
- Rear Suspension: Spring, Rubber Block, or Air (Single or Tandem)
- Rear GAWR: 24,000 lbs. – 58,000 lbs.

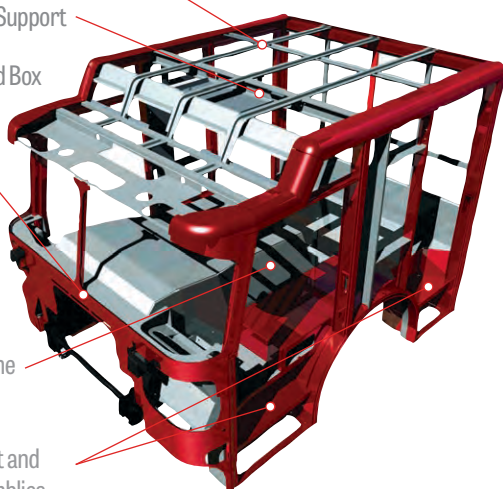
Reinforced Roof Structure

C-Channel Roof Support

Triple Reinforced Box Front Bulkhead

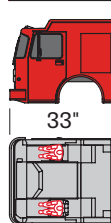
Reinforced Engine Compartment

Reinforced Front and Rear Step Assemblies

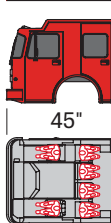


CAB LENGTH AND SEATING CONFIGURATIONS

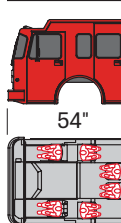
LTD



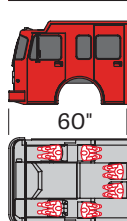
SMFD



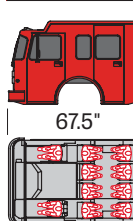
MFD



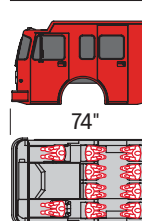
EMFD



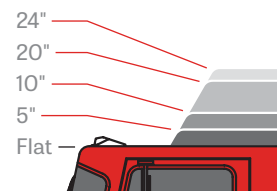
LFD



ELFD



ROOF HEIGHT OPTIONS



IT'S A FORTRESS ON WHEELS.

35,000 GAWR Rear Axle

With a 35,000-pound GAWR Rear Axle, this Spartan chassis offers the strongest rear axle used in fire service—stout enough to safely support and transport heavier aerials and pumpers.

Optional Full Air Ride Suspension

Spartan Fire Chassis' optional full air ride suspension increases the comfort and quality of the ride—cushioning the crew and equipment, and improving ride and handling.

Remarkable Strength

Crossmembers are gusseted and mounted with grade eight flanged fasteners. Finite Element Analysis (FEA) validates strength and performance by monitoring stress points for material efficiency, and strain gauge analysis testing verifies structural integrity and compliance with NFPA design standards. We offer a Limited Lifetime Warranty* on all frame rails and crossmembers.

Exceptional Weight Capacity

Spartan chassis have the weight capacity to withstand heavy-duty applications such as aerials and tankers.

*See the Spartan chassis specific Limited Warranty statement for complete details regarding warranty coverage, disclaimers, remedies and exclusions.





A Strong, Long-Lasting Foundation

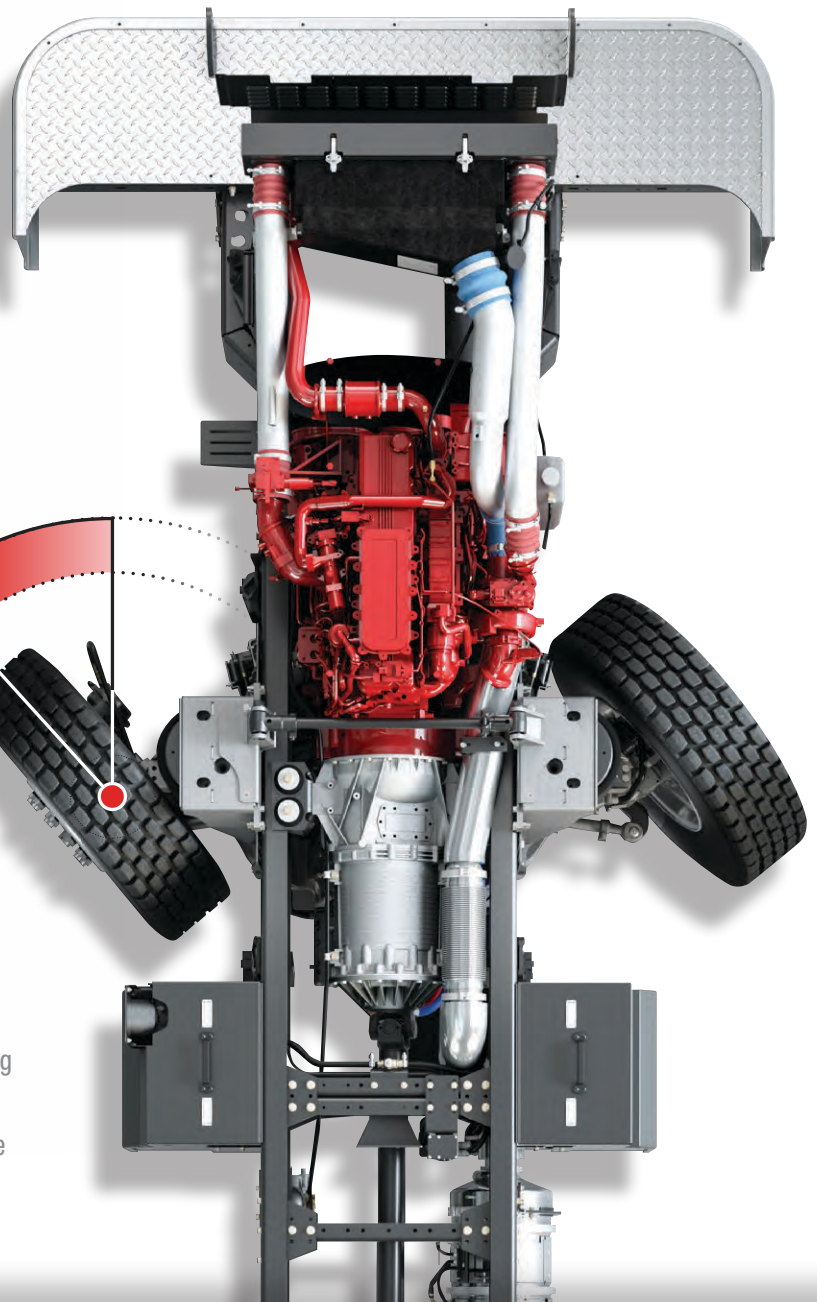
Our galvanized steel chassis frame rails provide strength and integrity while resisting rust and corrosion. They are built to last with low maintenance costs—holding up to the rigors and punishment dished out by hardworking fire departments.



53°
Cramp
Angle

Extraordinarily Tight Turn Radius

We build one of the most maneuverable chassis on the market with an incredibly tight turning radius. The turning radius cramp angles range up to 53 degrees with an independent front suspension and offer up to a 19-degree approach angle, exceeding NFPA 1901 standards.





SPARTAN FIRE CHASSIS ADVANCED PROTECTION SYSTEM®

Lives depend on your crews getting safely to the scene. We design our cabs with the most advanced safety provisions available today. The Spartan Fire Chassis Advanced Protection System (APS) is the number one safety system in the industry. Designed and purpose-built for firefighters, it combines forward-thinking apparatus safety, developed around the needs of the first responder. This market-leading system includes:

- 4Front® Airbag System by IMMI® Features and Benefits
 - Driver airbag specifically designed for fire truck and commercial trucks
 - Integrated Buckle Pretensioner (IBP) and Suspension Seat System (S4S) ensure safe firefighter positioning
 - Frontal collision pyrotechnic device deployment specifically designed/calibrated for Spartan Fire Chassis
- RollTek® Airbag System Features and Benefits
 - The first supplemental rollover protection designed for fire apparatus
 - Rollover pyrotechnic deployment parameters calibrated by multiple rollover tests
- Both systems utilize J1939 diagnostic tools
- Ergonomic driver controls that help ensure safe and easy operation of the vehicle
- Higher rooflines, added hip room and a cab-forward engine tunnel provide more space and comfort for the driver, officer, and crew
- Optional 360° camera to improve sightlines all around the apparatus
- Third-party testing to ensure cab safety from every perspective. We test for roof crush, front impact, roll stability control, airbags, seat mounting and seat belt restraint system validation





Safe and Spacious Cabs

Designed with firefighters in mind, our cabs are the most spacious and ergonomic in the industry.

Flat floors, low step heights, and taller, wider cab doors allow firefighters to get in and out quickly at the scene. The Spartan Fire Chassis raised roof extends over the driver and officer, making it easier to maneuver within the cab. We offer an optimized engine tunnel to increase leg and hip room for the front seats, while giving more floor space to the rear crew. Our cabs can comfortably seat up to 10 crew members.

Designed to be quieter and more comfortable, we've maximized every square inch of our cabs without increasing the 99-inch width.



Clean Cab

After fighting fires, your crew is covered with potentially carcinogenic substances. With our revolutionary Clean Cab design, all tools and contaminated equipment can be stored outside the cab.

ADVANCED FILTRATION SYSTEM

Spartan Fire Chassis' optional Advanced Filtration System (AFS) features a high-efficiency particulate air (HEPA) filter, which can trap or filter 99.97% of toxic particles and contaminants that are airborne in the cab. The filter can be placed in several areas within the cab so as not to impede cab space.

ACTIVE AIR PURIFICATION SYSTEM

Spartan Fire Chassis partnered with United Safety & Survivability to provide advanced UV and photohydroionization technology that kills 99% of pathogens in the air and on surfaces, delivering better air quality and a safer cab environment for your crew.

OPTIONAL SCBA CONTAINMENT

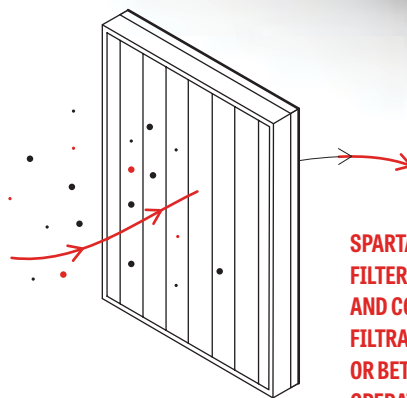
Spartan Fire Chassis' Clean Cab includes options for outside compartments to store SCBA tanks and packs so they can be easily accessed but are shielded from the cab interior. Compartment racking systems can be customized to meet specific department needs through your OEM or dealer.

FLOORS

Tread plate floors coated with LINE-X eliminate stair nosing and allow for easy cleaning.

EASY-CLEAN INTERIOR

Optional stainless steel overlays cover the interior surfaces with a seamless material impervious to gases and liquids. Contaminants brought into the cab from boots or shed from PPE can easily be cleaned once the apparatus is back at the station. Gaps in materials where contaminants could hide are eliminated.



**SPARTAN FIRE CHASSIS' AFS
FILTERS 99.97% OF TOXIC PARTICLES
AND CONTAMINANTS (MERV 17
FILTRATION RATING), EQUAL TO
OR BETTER THAN MOST HOSPITAL
OPERATING ROOMS. MOST
COMPETITORS ONLY FILTER 15%.**

Clean. Remove. Isolate.

Spartan Fire Chassis' Clean Cab makes cabs easier to clean, filter out airborne particles, and provide exterior storage compartments to isolate contaminated gear after a call.

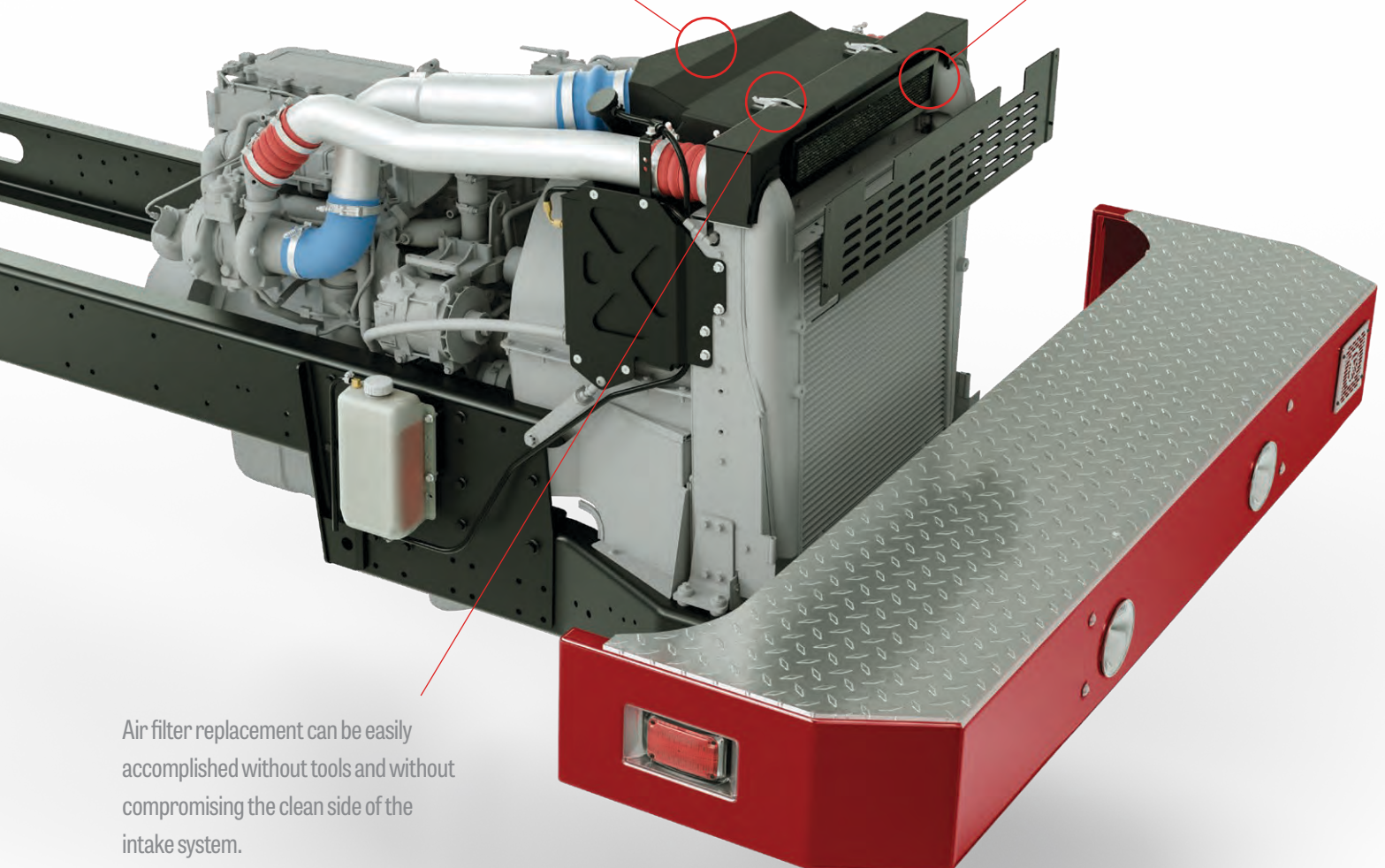


HIGH AIR INTAKE SYSTEM

Communities at risk of severe weather and flooding need emergency services and equipment that can weather the storm. An apparatus with low air intake can be easily damaged and disabled if water enters the engine—stopping a response vehicle in its tracks and causing expensive repair costs on high-value equipment. Spartan Fire Chassis mitigates the risk with our new High Air Intake design, a standard offering on all our models and engine sizes.

Placing the air intake behind the cab grille provides a higher location to help prevent potential damage from water admission.

Spartan Fire Chassis' High Air Intake has fewer connections and places the air filter and ember separator above the radiator and turbo connection.



Air filter replacement can be easily accomplished without tools and without compromising the clean side of the intake system.

ADVANCED CLIMATE CONTROL

Spartan Fire Chassis' well-designed cabs also offer the industry's best HVAC system—creating a safer and more comfortable environment for firefighters in any climate. Enduring over 20,000 miles of performance and durability testing, the Advanced Climate Control System exceeds standard performance requirements and maintains a comfortable cab, no matter the conditions. Its innovative design helps cool and heat the cab interior aggressively while distributing air volume evenly to all occupants. The system also quickly and effectively evacuates condensation, defrosts/defogs, and clears flash fogging—all to keep firefighters comfortable and safe during every response.



-40° IN 30 MINUTES

Spartan Fire Chassis' Advanced Climate Control System reduces interior cabin air temperature from 122° F (+/- 3° F) to 80° F in 30 minutes.



+80° IN 30 MINUTES

With the cabin air temperature at 0°F, the foot area average air temperature reaches 80°F within 30 minutes.



30-SECOND DEFOGGING

When in defog mode, the system clears the windshield and the front side glass of any flash fogging in 30 seconds or less. The normal defrost mode pushes air to the windshield and side glass and defrosts in minutes, even in fully frosted conditions.



+ 232% AIR VELOCITY

Air velocity has been improved an average of 232 percent, which distributes AC or heat throughout the cab and to all occupants more evenly and quickly than traditional roof-mounted HVAC systems.



ZERO CONDENSATION

In testing, with the AC on MAX for one hour, the doors open, the temperature at 90°F, and relative humidity at 95 percent, all condensate generated by the system had been drained outside of the vehicle.





FIRE CHASSIS



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