CAB/CHASSIS
Spartan Emergency Response is a market-leading manufacturer of custom cab/chassis that has been satisfying customers and firefighters since 1975. A Spartan is purpose-built from the ground up—designed and built by firefighters for firefighters (27% of all Spartan associates have firefighting experience).

**SAFETY**

The Spartan Advanced Protection System® (APS) is the #1 safety system in the fire industry and includes:
- four new airbag positions never before offered by any OEM. Side curtain airbags that provide impact and anti-ejection protection, advanced seat belt systems that dramatically reduce restraint system injury.

**QUALITY STANDARDS**

It all begins at the plant. Spartan manufacturing plants stand apart from the industry. Combine this with new quality, lean and continuous improvement systems, foundational engineering and you have the best quality cab/chassis available.

**THE MOST SPACIOUS**

Spartan offers industry leading ergonomics and the most room available and in the places that count. This enables improved visibility, in-cab communications, storage, comfort and safety.

**INDUSTRY-LEADING MANEUVERABILITY**

Our vehicles provide the tightest turning radius and cramp angles allowing the customer more access and improved safety.

**THE BEST ENTRY & EGRESS**

Industry’s largest cab steps, lowest step height and tallest, widest cab doors allow for safe and efficient entry/egress.

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### ROOF & SEATING OPTIONS

Spartan ER offers flat, 10", 20" and 24" raised roof options as well as multiple seating configurations to provide your crew with extended legroom, improved visibility and additional space for storage.

<table>
<thead>
<tr>
<th>90&quot; Aluminum</th>
<th>94&quot; Aluminum</th>
<th>94&quot; Aluminum Pre-configured</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cab Styles</strong></td>
<td>ER / LTD / SMFD / MFD / EMFD / LFD / ELFD</td>
<td>ER / LTD / SMFD / MFD / EMFD / LFD / ELFD</td>
</tr>
<tr>
<td><strong>Horsepower</strong></td>
<td>400 - 600</td>
<td>330 - 450</td>
</tr>
<tr>
<td><strong>Front Suspension</strong></td>
<td>IFS or Spring</td>
<td>IFS or Spring</td>
</tr>
<tr>
<td><strong>Cramp Angle</strong></td>
<td>42° - 53°</td>
<td>42° - 53°</td>
</tr>
<tr>
<td><strong>Alternator</strong></td>
<td>270 - 420 Amp</td>
<td>270 - 420 Amp</td>
</tr>
<tr>
<td><strong>Wheelbase</strong></td>
<td>136&quot; - 303.5&quot;</td>
<td>136&quot; - 303.5&quot;</td>
</tr>
<tr>
<td><strong>Seating Capacity</strong></td>
<td>Up to 10</td>
<td>Up to 10</td>
</tr>
</tbody>
</table>

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**THE SPARTAN DIFFERENCE**

CAB CONFIGURATIONS
4x4 CONFIGURATIONS
Make your own roads with Spartan’s highly capable, single axle, off-road chassis that is designed to handle a gross vehicle weight rating of up to 53,500 pounds. Able to hit 35mph in just 14 seconds, this chassis will perform in any environment.

GROSS VEHICLE WEIGHT RATING
Designed to handle up to 53,500 pounds

ANGLE OF APPROACH
Spartan’s High Angle of Approach offers improved apparatus maneuverability and exceeds NFPA 1901 angle of approach and departure standards with its 19-degree approach angle.

<table>
<thead>
<tr>
<th>Specification</th>
<th>NFPA 1901 Requirement</th>
<th>Spartan 4x4</th>
<th>Spartan Angle of Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Clearance</td>
<td>8” – 15”</td>
<td>16”</td>
<td>19°</td>
</tr>
<tr>
<td>Approach Angle (front)</td>
<td>8”</td>
<td>20”</td>
<td>19°</td>
</tr>
<tr>
<td>Acceleration (level road)</td>
<td>0 to 35 mph within 25 seconds</td>
<td>14 seconds</td>
<td>13 seconds</td>
</tr>
<tr>
<td>Cramp Angle (drive axle)</td>
<td>20°</td>
<td>34°</td>
<td>47°</td>
</tr>
</tbody>
</table>

IMPROVED APPARATUS MANEUVERABILITY
Spartan’s High Angle of Approach exceeds NFPA 1901 approach and departure standards

SERIES 75, 100, 103 AERIALS
Spartan ER offers OEM partners a rear mount 75 ft. and 103 ft. ladder, and 100 ft. rear mount platform. Spartan’s aerials are proven and give you the performance you need.

MULTIPLEX V-MUX VISTA DISPLAY
Options include Touchscreen with GPS or Push Button

V-MUX VISTA DISPLAY
Spartan’s V-Mux Vista Display is a user-friendly alternative to a traditional instrument panel. All of the electrical commands are condensed into a high-definition, touchscreen display (Push Button also available) that allows monitoring and control of the vehicle systems.

THE LATITUDE
The Latitude is a one of a kind fire-rescue device that redefines versatility by combining five emergency-rescue functions into a single, compact device.

STRONG AND DURABLE
Built using the same platform as Spartan’s other great products, the Latitude provides you the power to achieve.
OUR COMMITMENT TO SAFETY

The Spartan Advanced Protection System® (APS) extends beyond the cab interior and includes features that protect the firefighter while on scene. The lowest and deepest steps available combined with the largest cab doors make entry/egress easier, faster, and safer.

FULL SIDE CURTAIN AIRBAGS

OUTBOARD SENSORS
- Steering Wheel
- Side Impact
- Officer’s Knee
- Full Side Curtain

ADVANCED SEAT BELTS
- Reduces pressure on chest and torso
- Limits internal injuries
- Pyrotechnic Pretensioners

CAB STRUCTURE
- Reinforced Engine Compartment
- Reinforced Roof Structure
- Forward Roof Cab Design

CONTROLS
- Electronic Stability Control *
- Interior Safety Lighting *

* Optional Safety Features
** Industry First
*** Patent Pending

THE INDUSTRY’S BEST SAFETY SYSTEM

Spartan has always been committed to protecting the Firefighters who serve our communities. Spartan has reaffirmed its commitment by developing the patented Advanced Protection System® (APS). Standard on all Spartan cabs, the APS is a safety system that contains a number of industry first features and significant improvements to existing safety standards. Combining the new airbag and seat belt advancements with our traditional safety features makes the Spartan Advanced Protection System® unequalled in its occupant safeguards.

MOBILE GATEWAY

Improve your peace of mind with consolidated connectivity and disaster management capabilities exclusively available and standard with Spartan.

- Wi-Fi hotspot in and around vehicle up to 1,500 ft range
- 100% digital connectivity*
- Connections for unlimited wireless devices**
- Extend cellular range up to 25 miles*
- Works with multiple cellular carriers
- Automatic failover of connection

* Optional equipment required
** Speed & performance may vary depending on total connected devices

GATEWAY

Exclusively from Spartan, utilize the industry-first intelligent backup camera system with near infrared technology and no sonar sensors to protect both life and property. Monitor the movement of your spotter who is assisting the backup of the apparatus via a single high-performance camera with programmable distance detection zones customized to accommodate your apparatus configuration.

INTELLIGENT BACKUP CAMERA SYSTEM

- Active Guidance
  Precisely reverse your apparatus into the fire house with active guidelines indicating the path of the vehicle.

- Object Detection
  Audible and visual warnings detect and track both moving and stationary objects in the path of your apparatus.

- Distance Estimation
  Accurately estimate the distance of an object from your apparatus with distance indications.

FULL SIDE CURTAIN AIRBAGS

LOWEST AND DEEPEST STEPS

TALLEST & WIDEST CAB DOORS
Spartan participates in third party testing to ensure the safety of our cabs, including roof crush, front impact, roll stability control, airbags, seat mounting and seat belt restraint system validation.

The Spartan Advanced Protection System® (APS) includes additional airbag positions, advanced seat belts and outboard sensors that enable an intelligent restraint control module. Visual and audible seat belt warning systems alert the driver if crew members are not fastened in their seats properly. Ergonomic driver controls help ensure safe operation of the vehicle.

**OPTIMIZED ENGINE TUNNEL**

The optimized engine tunnel increases the hip room for the driver and officer seating location, while also increasing the rear crew floor space behind the engine tunnel. All of this is accomplished without increasing the width of the 99” cab. The rear of the tunnel was pushed forward to give an additional 2” of leg room for the two center forward facing crew, increasing leg room by 3.8%.

*Only available with ISL configuration*

**INCREASED HIP ROOM**

<table>
<thead>
<tr>
<th>Overall cab volume increase</th>
<th>5,827 cu. in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver’s side door to side of tunnel</td>
<td>29” (10% increased hip room)</td>
</tr>
<tr>
<td>Officer’s side door to side of tunnel</td>
<td>27” (11% increased hip room)</td>
</tr>
<tr>
<td>Reduction in tunnel height</td>
<td>6.6%</td>
</tr>
</tbody>
</table>

The optimized engine tunnel increases the hip room for the driver and officer seating location, while also increasing the rear crew floor space behind the engine tunnel. All of this is accomplished without increasing the width of the 99” cab. The rear of the tunnel was pushed forward to give an additional 2” of leg room for the two center forward facing crew, increasing leg room by 3.8%.

* Only available with ISL configuration

**ADVANCED CLIMATE CONTROL**

Experience the new benchmark in cab comfort with an HVAC system rivaled by none.

**FEATURES**

- 317% improvement in air velocity
- Heater pull up from 0°F to 85°F is within 30 minutes
- Cabin cools from 120°F to less than 80°F within 30 minutes when under approximately 1,000 watts of solar loading
- Temperature variation held to 10°F from head to foot level
- Blend mode moves air to windshield and front occupants, and also pushes air to side glass to aid in visibility
- Easy serviceability of parts and washable filters
- Meets or exceeds seven SAE/ASTM standards

**ENGINEERING EXCELLENCE**

Finite Element Analysis (FEA) validates the strength and performance of our cab/chassis designs by monitoring stress points for material efficiency. This allows Spartan to maintain specific manufacturing standards. The cab/chassis design has also undergone strain gauge analysis testing verifying the structural integrity and compliance with NFPA design standards.

**QUALITY FIT & FINISH**

Every Chassis Engineered To Strict Quality Standards

**OVER 20,000 MILES OF PERFORMANCE AND DURABILITY TESTING**

Replicating a broad set of conditions/atmospheres

**FEATURES**

- Heater pull up from 0°F to 85°F is within 30 minutes
- Cabin cools from 120°F to less than 80°F within 30 minutes when under approximately 1,000 watts of solar loading
- Temperature variation held to 10°F from head to foot level
- Blend mode moves air to windshield and front occupants, and also pushes air to side glass to aid in visibility
- Easy serviceability of parts and washable filters
- Meets or exceeds seven SAE/ASTM standards

**DURABILITY AND COMFORT**
Spartan offers the premier foundation—our lifetime warranty on all frame-rails and cross-members. Construction methods and material selections are optimized to bring you the most robust frame on the market. All rails (single, double and triple-lined) are powder coated. All cross-members are gusseted and mounted with grade-eight flanged fasteners.

- **TOTAL CONTROL GRAB HANDLES**
  Safety & Reach In Reach

- **WIDE ANGLE TILT CAB**
  Simplifies Service Access

- **SOUND INSULATED ENGINE HOUSE**
  Minimizes Engine Noise & Improves In-Cab Communications

- **3 OR 6 BATTERY SYSTEMS**
  Longer Operation & More Power When You Need It

- **POWDER-COATED RAILS**
  For Corrosion Resistance & Long-Life

- **MULTIPLE EXHAUST CONFIGURATIONS**
  Allows For Optimum Storage Capability

- **HIDDEN DOOR HINGES**
  Better Fit/Finish, Reduced Obstructions For Care & Cleaning

- **RAISED ROOF OVER DRIVER**
  Provides Added Head-Clearance & Visibility

- **FIT & FINISH**
  Hidden Hinges For Long-Lasting Access

- **EASY ACCESS FUEL TANKS**
  Corrosion Resistant Tank Coating. Option With 8’ Extension Line

- **LIFETIME CROSS-MEMBER/FRAME WARRANTY**
  The Strongest Foundation For Emergency Response Apparatus

- **DOUBLE-CHANNEL FRAME RAIL**
  Single (Standard), Double & Triple-Channel Available Options

- **EASY ACCESS WIRING & HOSE RUNS**
  Color-Coded And Labeled For Easy Identification

- **3 OR 6 BATTERY SYSTEMS**
  Longer Operation & More Power When You Need It

- **TOTAL CONTROL GRAB HANDLES**
  Safety & Reach In Reach

- **POWDER-COATED RAILS**
  For Corrosion Resistance & Long-Life

- **FIT & FINISH**
  Hidden Hinges For Long-Lasting Access

**QUALITY**

At Spartan, we go to great lengths to evaluate the fit and finish of every cab and chassis. We also assess and specify the tactile experience of the components that crew members touch most often and engineer door open/close for smooth operation. This attention to detail ensures all our cabs and chassis deliver a high quality experience for all crew members.
**SUPERIOR PERFORMANCE**

**CAPACITY**
Spartan offers exceptional weight capacity to withstand heavy-duty applications such as aerials and pumpers.
- Front Axle: Up to 24,000 lb.
- Rear Axle: Up to 63,000 lb.

**HORSEPOWER**
Spartan offers the most powerful diesel engine options in the industry. Engines available up to 600 h.p.

**MANEUVERABILITY**
When buying an emergency response vehicle, the importance of maneuverability is often overlooked. Spartan offers the tightest turn radius and the most maneuverable chassis on the market.

**SUSPENSION**
Spartan’s emergency response cab and chassis have a heightened level of control and maneuverability due to a wide range of leaf spring or air IFS suspension offerings. Both systems are ideal for carrying the heaviest of loads and help reduce steering effort. Feel at ease knowing you can get to the fire quickly, while maneuvering safely through crowded intersections and tight corners.

**Turning Radius**
The cramp angles range up to 53°, making these cabs and chassis easier to maneuver through challenging areas.

**ESC (Electronic Stability Control)**
A computerized technology that improves the vehicle’s stability by detecting and minimizing skids. Automatically applies the throttle or brakes to help steer the vehicle where the driver intends to go.

**FACTORY SERVICE: 800.543.5008**
The Customer and Product Support Department, which includes our service parts and service tech departments, provide exceptional support. All our representatives are trained on all aspects of our products and services.
For the convenience of our customers we have organized this department by customer type: OEM, Dealer and Fire Department.
Our Retail Vehicle Technicians assist the end-user by answering questions and finding an Authorized Spartan Chassis Service Center.

**TECHNICIAN TRAINING**
The high quality standard that Spartan demands is reflected in the state-of-the-art training programs that are offered. The breadth and depth of training, as well as the expert instruction offered, far exceeds industry truck vocation programs. The network of Spartan-trained technicians has expanded dramatically since curriculum was put in place over 16 years ago. An annual Fire Truck Training Conference is held to support emergency vehicle technicians. Contact Spartan or visit our website for training schedules.
Main component suppliers team up with Spartan to offer instruction in their areas of expertise. Spartan's factory training for technicians provides instruction on the following components for all emergency response areas:
- ABS Brake Systems
- Brake Systems
- Suspension & Steering Systems
- Engine & Transmission
- Chassis Maintenance
- Warranty Procedure & Service Center Support

**Spartan ER offers an end user training experience that is second to none. There are four levels of training options available, which can be included in the purchase of your truck. Each level of training can be customized to specifically meet the needs of your individual department.**

**WARRANTY**
The standard warranty for emergency response chassis and cab is in effect for a period of *24 months / 36,000 miles from the first owner’s date of delivery. Additional warranties can be purchased with up to 60 months / 75,000 miles. Frames and cross-members come with a lifetime warranty (up to 20 years). Spartan also offers the industry’s best non-prorated paint and cab structure warranty (10 years / 100,000 miles). * Standard warranty for 94 inch chassis and cab is 12 months / 24,000 miles.

**PARTS:**
800.722.3025
Spartan offers a full-line of aftermarket parts for our vehicles. We’re here to help Monday - Thursday 8:00 a.m. to 6:00 p.m. EST and Friday 8:00 a.m. to 5:00 p.m. EST. Give us a call and we’ll get you what you need, fast.
When it comes to delivering a finished apparatus, satisfying customers and protecting firefighters, there is one number that matters most - our 47 fire apparatus partners.

4 Guys Fire Trucks
Acres Industries Inc.
Alexis Fire Equipment
Ampryor Fire Trucks Corp.
Bluegrass Fire Apparatus
Boise Mobile Equipment
Braun Industries, Inc.
CSI Emergency Apparatus, LLC
Carl Thibault Emergency Vehicles
Circle K Service
Custom Fab & Body LLC
Custom Fire Apparatus, Inc.
Custom Truck & Body Works, Inc.
Deep South Fire Trucks
Dependable Emergency Vehicles
Dingee Machine Co.
Eastway911 Emergency Vehicles Ltd
Emergency Vehicles, Inc.
Farber Specialty Vehicles
Fort Garry Fire Trucks
Fouts Bros Fire Equipment
Gowans-Knight Co., Inc.
Hackney Emergency Vehicles/VT Specialized
Hi-Tech Emergency Vehicle Services
Horton Emergency Vehicles
Hub Fire Engines and Equipment Ltd
Keystone Fire Apparatus, Inc.
Lavoie Fire Equipment
Life Star Rescue
Lynch Diversified Vehicles
Maintainer Custom Bodies, Inc.
Marion Body Works, Inc.
Maxi Metal
Metallab Ltd
PL Custom
Precision Fire Apparatus
Smeal Fire Apparatus
Southern Fire Service & Sales, Inc.
Spencer Manufacturing
Summit Fire Apparatus
SVI Trucks
Swab Wagon Company Inc.
Toyne, Inc.
U. S. Tanker Fire Apparatus LLC
Valley Fire Equipment
Warner Truck Bodies and Accessories
W. S. Darley & Company

RESPONDING WITH A CREW OF 47

“Spartan, by far, has the best cab and chassis on the market. I continuously hear positive feedback from firefighters regarding the performance, maneuverability, and cab design of a Spartan.”

Dan Casse, Fleet Supervisor
Colorado Springs Fire Dept., CO

INDUSTRY-LEADING TECHNOLOGIES

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1990
The Spartan Eurospace Cab Series: The first fully enclosed crew cab in North America that redefined firefighter protection and in-cab communication.

Series 90 Cab: Provides improved visibility and headroom by lowering the glass and moving the raised roof forward.

Powertrain Options: Spartan Chassis is the first to install the Detroit Diesel Series 60 engine in a fire truck.

1991
Spartan introduces a custom fire truck chassis with limited options at a price rivaling commercial chassis.

2001
The Big Easy: Spartan introduces a custom fire truck chassis with limited options at a price rivaling commercial chassis.

2003
Meritor Front Steering (MFS) Series Axle: Spartan sets a new standard for turning angles with the introduction of the MFS.

2004
Roll Stability Control (RSC): Through a partnership with Meritor, Wabco Spartan introduces RSC which automatically intervenes to slow the vehicle and prevent rollovers.

2008
Park-to-Neutral Feature: Spartan’s new designs prevents fire pump split shaft runaway events, which also enhances pump shifting.

2012
Advanced Protection System® (APS): Spartan introduces the new, best-in-class protection against frontal impact, rollover, side impact and occupant ejection to and from the scene. APS components include four additional airbag positions, full side curtain airbags, advanced seat belts and outboard sensors that enable a superior restraint control module.

2013
4x4 Configurations

2014
Optimized Engine Tunnel Advanced Climate Control

2015
Mobile Gateway
Intelligent Backup Camera System

“Since purchasing our first Spartan roughly eight years ago we have been very impressed with the performance of Spartan’s products. I am very pleased with the outcome of our second truck within a years time period.”

Chief Groover
Wright-Tallmadge Fire Dept., MI

“‘That truck is the pride of our fleet and the envy of several other departments around us. It has responded to several high profile accidents/incidents both in and out of our area in which everyone was very impressed not only with its capabilities and functionality, but the detail and craftsmanship your people put into this truck.”

Captain Steven Gill
Harrisburg Fire Dept., NC

“Spartan Engine #10 has logged over 60,000 calls and 200,000 miles. We were so pleased with the performance of this unit that we recently purchased another Spartan to replace it.”

Fire Garage Supervisor, Rich Swains
Tacoma Fire Dept., WA

“‘We are extremely impressed with the superior handling and quiet operation of our new Spartan.”

Chief Pete Perelman
Grand Traverse Metro Fire Dept., MI

“I am very pleased with the quality of this truck and hope to be purchasing another new unit in a couple of years.”

Chief Jay Howley
Napoleon Township Fire Dept., MI

“We are very satisfied with the fit and finish of these trucks and feel the overall paint quality of Spartan has improved with the addition of their new Cab Plant.”

Chief Mike Brown
Owosso Fire Dept., AZ

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TESTIMONIALS