



AERIALS

**UNRESTRICTED  
PERFORMANCE.  
UNCOMPROMISED  
SAFETY.**



**A HERITAGE  
OF BUILDING  
THE BEST IN  
THE BUSINESS.**



**5 decades. 6,000 aerials.  
Built one at a time.**

Spartan's line of aerials provides a series of high-performing aerial solutions to meet virtually any fire department's need, no matter the operational environment. Our line includes ladders, platforms, TDAs, and watertowers — each custom-designed, tested, and fire service proven for durability and safety. After 55 years and thousands of aerials, we have more combined experience engineering, building, testing, and supporting aerials than any competitor.



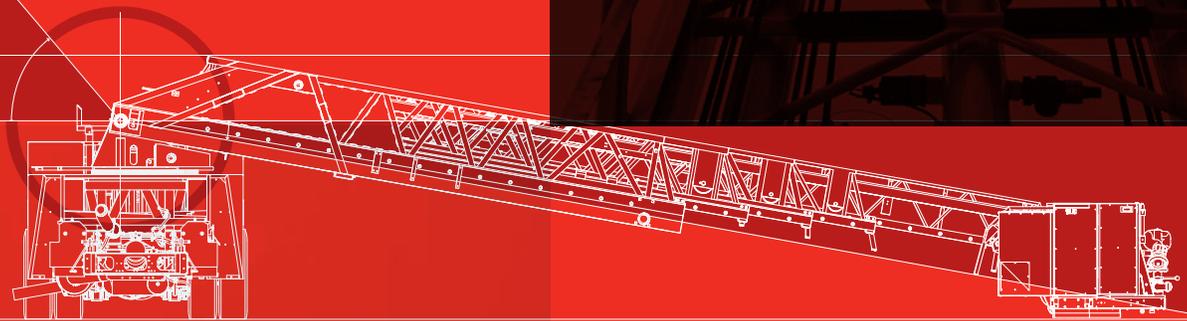
## Unrestricted technology to make your crew unstoppable.

Technology is our strongest tool to give firefighters the performance and safety they demand and deserve. Battling fires is challenging enough; doing it from over 100 feet in the air adds a level of difficulty that we're dedicated to make as safe and effective as possible. No matter the conditions. No matter the height.

**INDUSTRY'S BEST TIP LOADS FLOWING AND DRY.** *With tip loads up to 1,250 lbs. dry/625 lbs. wet, Spartan ladders can carry a heavier load and will remain stable and true even when fully extended or in windy conditions.*



78° Above Horizontal

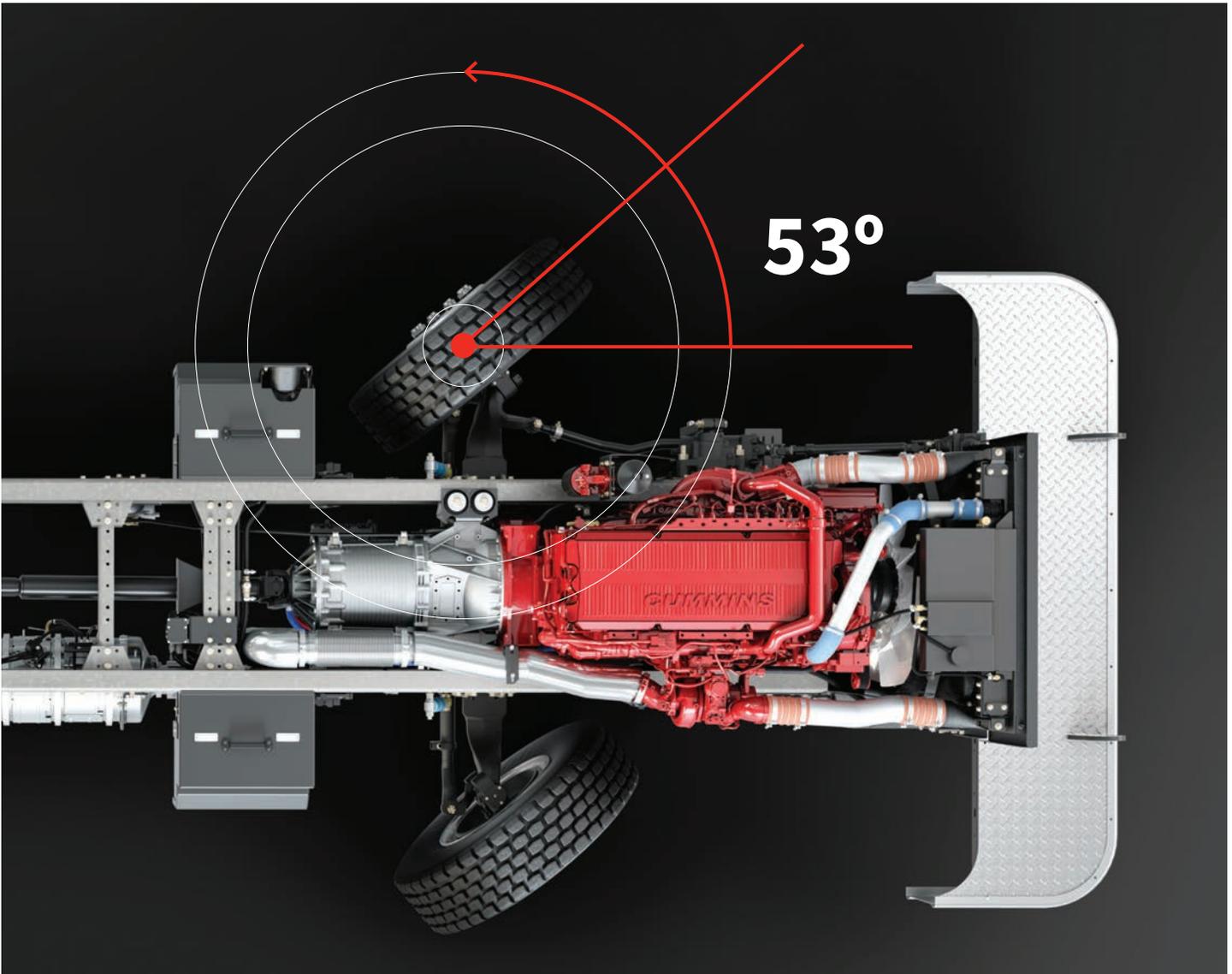


-12° As Low As  
Below Horizontal

**EXCELLENT VERTICAL &  
HORIZONTAL REACH**

*Built with up to 100,000 psi yield strength steel that can be depressed as low as 12° below horizontal or as high as 78° above horizontal (varies by aerial model). This allows firefighters to reach taller structures and have easy access when lowered to ground level.*





### **Built on a solid foundation.**

A Spartan chassis is built to withstand the weight and years of wear and tear that even the most demanding departments and environments will throw at it. Spartan aerials have the tightest turning radius and most maneuverability in the industry, giving you better navigation through challenging areas.

### **Best warranty in the Industry.**

Spartan provides a 25-year aerial structural integrity warranty and a lifetime warranty on Spartan chassis frame-rails and cross-members. Both are best in the industry.

### **STRONGEST FRAME RAILS**

*Construction methods and materials are optimized to create the industry's strongest, most reliable frame. All rails (double- and triple-lined) are galvanized for extra durability. All cross-members are gusseted and mounted with grade-eight flanged fasteners for added strength.*

**53° TURN RADIUS:** *The tightest turn radius and the most maneuverable chassis on the market. The turning radius cramp angles range up to 53° and offer up to a 19-degree approach angle, exceeding NFPA 1901 standards.*

### Creeper Controls

Operating at 12–15 percent of normal operating speed, Creeper Controls allow pinpoint placement of the aerial tip for rescue operations.

### Torque Box

Our steel torque box design provides ample internal storage for NFPA hose load or ground ladders that can be accessed from a safe, convenient and ergonomic height. Ladders come off apparatus at 42" from the ground.



### SG-09 Auxiliary Power Unit

Our APU option is designed for an industry faced with increasingly strict emission standards and tighter budgets. Utilizing a separate 9kW diesel-powered generator, the operation of the main chassis engine can be reduced while providing all electrical and HVAC capabilities. *Option not on unit as shown.*

### FP-4 Stabilizing System

Our unique stabilizing system (available on select models) places the front stabilizers just behind the cab of the apparatus. This forward placement provides superior fore/aft leveling capability on steep terrain, plus easy access to the pump panel, while reducing stress on the chassis.

### CP-84 Waterway

The strongest, most durable waterway in the business features a galvanized inner coating to prevent corrosion of the 84,000 psi pipe. The exterior waterway is chrome plated to provide a smooth, telescopic movement throughout the entire extension and retraction of the aerial ladder. Available only on Smeal.

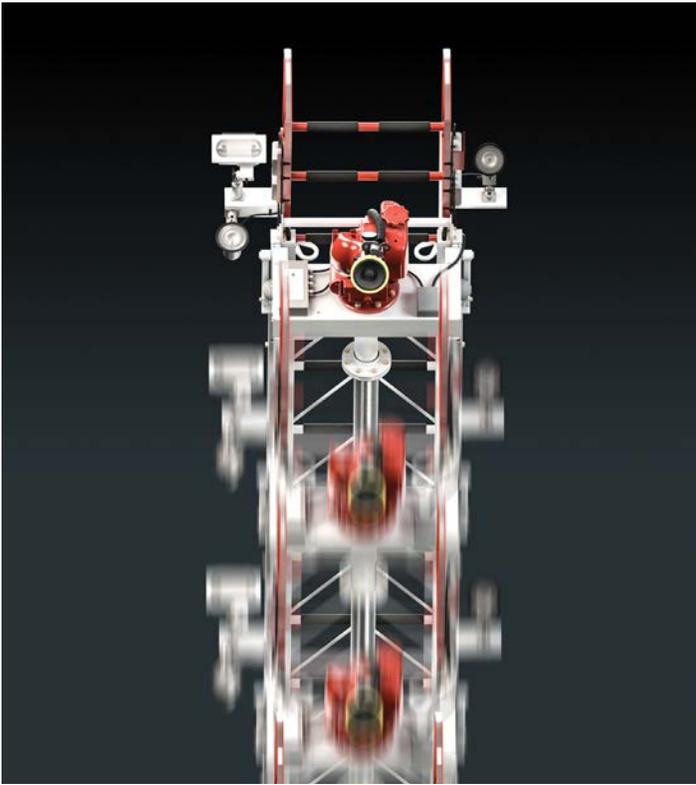


### Generous Storage Space

Spartan's Smeal and Ladder Tower aerials offer ample storage space and easy access to gear and equipment. We also offer optional storage around wheel wells to increase usable compartment space.

## Responding with innovation.

Every call demands your immediate response with the right crew and equipment. Spartan helps you answer those calls with trucks equipped with the latest innovations to help you work faster, smarter and safer.



**POSITIONAL WATERWAY:** *Never climb another ladder just to reposition the master stream. Our patented electric positional waterway lets the operator position the waterway to either Rescue or Water Tower mode with a simple one-step procedure from the turntable. Available on Smeal aerials.*

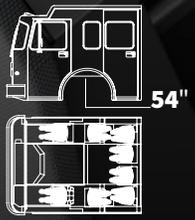


**ERGONOMIC HOSE LOAD (EHL):** *Our patented, heavy-duty, electric/hydraulic hose loader option improves crew safety by placing a maximum of 1,000 feet of 5" LDH within a firefighter's reach, eliminating climbs on a wet or slippery apparatus to reload hose. Available on Smeal Rear Mount aerials.*

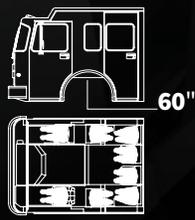


### Seating Configurations

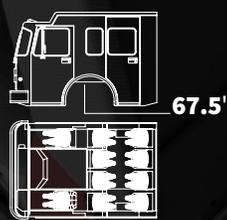
MFD



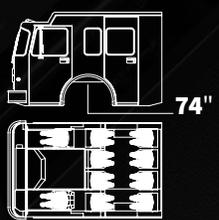
EMFD



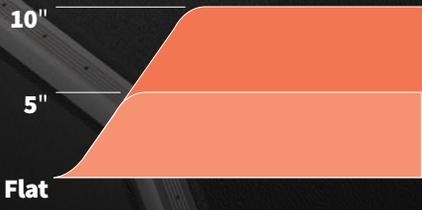
LFD



ELFD



### Roof Height Options





## Spartan Advanced Protection System®

If the crew doesn't arrive on the scene safely, even more lives hang in the balance.

Spartan's APS is the #1 safety system in the industry. Designed and purpose-built to combine forward-thinking apparatus safety features that are developed around protecting first responders. This market-leading system includes:

- Eight airbag positions, the most offered by any manufacturer, including knee and side curtain airbags. Giving your apparatus the highest available impact and anti-ejection protection available
- Innovative seat belt systems and outboard sensors that enable an intelligent restraint control, dramatically reducing restraint system injuries.
- Ergonomic driver controls that help ensure safe and easy operation of the vehicle.
- State-of-the-art HVAC system that cools or heats the cab quickly and efficiently.
- 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.

*At Spartan, we've designed with your firefighters in mind by offering the most spacious and ergonomic cabs 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 raised roof extends over the driver and officer, making it easier to maneuver within the cab. We've even optimized the 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, our cabs maximize every square inch without increasing the 99" width.*



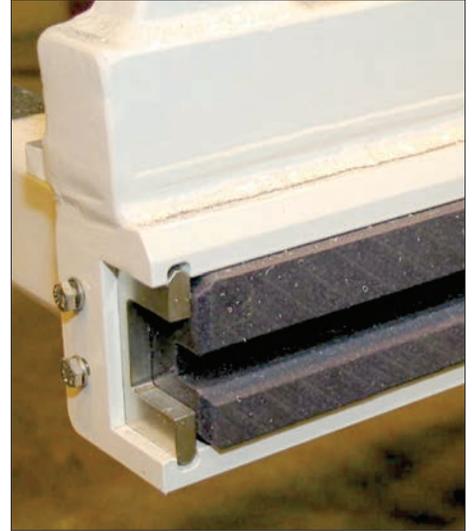
## MORE OPTIONS. MORE PERFORMANCE.



**SPACIOUS PLATFORM WORKING AREA:** The platform provides a spacious work environment with 29 sq. ft. of working space with an additional 7.5 cu. ft. for storage. Available on Ladder Tower aerials.



**LED LIGHTING:** All warning and compartment lights are LEDs for long service life, high visibility, and extreme energy savings.



**LADDER SLIDE PADS:** Load Transfer Pads and Front, Rear, and Side Slide Pads reduce friction and ensure smooth ladder operation. Slide pads are also designed with accessibility in mind for easy inspection and replacement.



**EXTERNAL WIRING:** All wires, breathing air, and hydraulic lines are routed externally, eliminating moisture buildup and corrosion in the structural tubes.



**WATERWAY CONTROLS:** Repositioning the waterway can be done easily with the flip of a mechanical lever. Available on Ladder Tower aerials.



**WATER MONITOR:** When positioned at the tip, the water monitor can be set to reach 30° higher than the elevation of the ladder.



**AERIAL LADDER DESIGN:** All aerial ladder sections and primary load support members are designed with certified high-strength steel to ensure the highest quality with superior strength-to-weight ratios and minimal aerial ladder deflection.



**AL-11 AERIAL LOGIC:** A totally integrated system that provides instant feedback on a ladder's extension, location, retraction, angle, load and breathing air system status, as well as J1939 engine information.



**LOWER TRAVEL HEIGHT:** Ladders stack efficiently, providing a low profile and lower travel heights, making it easy to fit into historic firehouses and under bridges.

**110' = 11'7" | 75' = 11'5"**



**QL-12 ELECTRICAL SYSTEM:** Our plug-and-play system reduces the amount of non-plug connectors and makes it easy to add components and make repairs to the electrical system.



**SPARTAN SELF-LEVELING SYSTEM (SSL):** At the push of a button, after the outriggers are deployed the truck is automatically leveled. The optional SSL system also stows the outriggers at the touch of a button. Available on Smeal aerials.



**REMOVABLE EGRESS:** Bolt-on removable egress for easy replacement. Available in two lengths.



# LADDERS

## 55' Rear Mount Ladder



- Maneuverable, single-axle configuration with an elevated master stream
- 55' vertical reach with 50' horizontal reach
- -6° to 72° angle of elevation
- Available in quint or traditional truck style
- 2-section ladder design
- 500 lb. tip load dry/wet UNRESTRICTED
- 2 rear H-style outriggers
- 1250 GPM waterway flow
- Up to 750 US gallon tank capacity
- 11' 2" standard travel height
- Best in the industry, 25-year aerial structural warranty



## 75' Rear Mount Ladder



### Smeal

- Design allows for high performance capabilities in tighter envelope
- 75' vertical reach with 71'-5" horizontal reach
- -6° to 72° angle of elevation
- Available with a 2 or 4 H-style outrigger system with stabilizer spread of 18'
- Up to 750 lb. tip-load while flowing 1,500 gpm unrestricted
- Up to 600 US gallon tank capacity (tandem axle)
- 11'4" standard travel height
- Best in the industry, 25-year aerial structural warranty

### Ladder Tower

- Design allows for high performance capabilities in tighter envelope
- 75' vertical reach with 66' horizontal reach
- -7° to 78° angle of elevation
- 14' H-style outrigger spread with 500 lb. rated ladder (short jack capability)
- Up to 500 lb. tip-load while flowing 1,500 gpm unrestricted
- Up to 500 US gallon tank capacity
- 11'-5" standard travel height
- Best in the industry, 25-year aerial structural warranty



## 100' Rear Mount Ladder



- Based around our 105' aerial structure; with 5" of overall height removed thanks to lower aerial side rails
- 100' vertical reach with 97' horizontal reach
- -6° to 72° angle of elevation
- Available in quint or traditional truck style
- 4-section ladder design
- 500 lb. Tip-load dry/wet UNRESTRICTED
- 2 front down and 2 rear H-style outriggers
- 1250 gpm waterway flow
- Available with or without a pump and tank
- Best in the industry, 25-year aerial structural warranty



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## 105' Rear Mount Ladder



- Unrestricted performance capabilities that exceeds competition: Rock solid stability with 750 lb. tip load
- while flowing 1,500 gpm water, full extension, any elevation and 360 degrees of rotation
- FP-4 H style outrigger design - 16' spread with short jack capability
- 101.5' of horizontal reach at 0 degrees of elevation
- 120" sectional overlap
- Tubular Torquebox design results in safer access to ground ladders and hose:
  - 42" – ground to ladder storage floor
  - 42" – ground to EHL hose bed floor
  - 59" – ground to hose bed floor
- CP-84 chrome plated steel waterway with electric controlled positional monitor
- Optional hot dipped galvanized torquebox and stabilizers provide maximum corrosion protection
- Best in the industry, 25-year aerial structural warranty



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## 110' Rear Mount Ladder



- Design allows for high performance capabilities in tighter envelope
- Low overall travel height of 11'- 7" with flat MFD roof cab
- Overall travel length of 40'- 6" with MFD cab
- 12' H-Style outrigger spread with 500 lb. rated ladder (short jack capability)
- 14' H-style outrigger spread with 750 lb. rated ladder (short jack capability)
- 90" sectional overlap
- Tubular Torquebox design results in safer access to ground ladders and hose:
  - 41" – ground to ladder storage floor
  - 56" – ground to hose bed floor
- Hot spray zinc option - torquebox and stabilizers provide maximum corrosion protection
- Best in the industry, 25-year aerial structural warranty



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## 125' Rear Mount Ladder



- The big brother to the 105' ladder provides unrestricted performance capabilities that far exceed competition
- 125' vertical reach with: 750 lb. tip load flowing 1,500 gpm water, full extension, any elevation and 360 degrees
- 121' of horizontal reach at 0 degrees of elevation
- 120" sectional overlap
- FP-4 H style outrigger design - 18' H-Style spread with short jack capability
- Tubular Torquebox design results in safer access to ground ladders and hose:
  - 42" –ground to ladder storage floor
  - 42" – ground to EHL hose bed floor
  - 59" – ground to hose bed floor
- CP-84 chrome plated steel waterway with electric controlled positional monitor
- Hot dipped galvanized torquebox and stabilizers provide maximum corrosion protection
- Best in the industry, 25-year aerial structural warranty



# PLATFORMS

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## 85' Mid Mount Platform



- Shift on the fly aerial speed control with superior ramping performance. (1) 100% - (2) 50% - (3) 15%
- 85' vertical reach with 81' horizontal reach
- -12° to 72° angle of elevation
- 5-section ladder design
- 1000 lb. dry / 500 lb. wet UNRESTRICTED
- 4 H-style with 18' jack spread
- 1500 gpm waterway flow
- Up to 300 US gallon tank capacity
- Best in the industry, 25-year aerial structural warranty



## 93' Mid Mount Platform



- The MP93 offers shorter OAL, less weight, less tail swing and improved maneuverability while driving on tight streets
- Maximum platform capacity with 1,000 lb. dry rating
- 93' vertical reach with 89' of horizontal reach
- -10° to +78° angle of elevation
- Anodized aluminum waterway to platform with 2,000 gpm flow capacity
- Torquebox frame design with H style outrigger design – 18' (front) and 16' (rear) jack spreads with front bumper stabilizers and short jack capability
- Best in the industry, 25-year aerial structural warranty



## 100' Mid Mount Platform



- Maximum platform capacity with 1,000 lb. dry/500 lb. wet capacity
- 100' vertical reach with 99' of horizontal reach
- -10° to +72° angle of elevation
- Unique double hinged platform access gates fold out of the way with opening large enough for stair chair rescue operations
- CP-84 chrome plated steel waterway to platform with 1,500 gpm flow capacity
- FP-4 H style outrigger design
- Shift on the fly aerial speed control with superior ramping performance. (1) 100% - (2) 50% - (3) 15%
- Optional hot dipped galvanized torquebox and stabilizers provide maximum corrosion protection
- Best in the industry, 25-year aerial structural warranty



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## 85' Rear Mount



- Platform controls have infinite feathering, ramping features, and low/medium/high “shift on the fly” speed controls
- 85' vertical reach with 81' horizontal reach
- 3-section ladder design
- 1250 lbs. dry / 625 lbs. wet tip-load unrestricted
- 4 H-style outriggers with 18' jack spread
- 2000 gpm waterway flow
- Up to 400 US gallon tank capacity
- Best in the industry, 25-year aerial structural warranty



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## 100' Rear Mount



- Maximum platform capacity with dry rating along with 625 lb. wet tip load UNRESTRICTED is best in class and industry
- 100' vertical reach with 98' of horizontal reach
- Unique double hinged platform access gates fold out of the way with opening large enough for stair chair rescue operations
- CP-84 chrome plated steel waterway to platform with 2,000 gpm flow capacity with dual monitor package
- FP-4 H style outrigger design allows for maximum stability (even over front of cab)
- Shift on the fly aerial speed control with superior ramping performance. (1) 100% - (2) 50% - (3) 15%
- Optional hot dipped galvanized torquebox and stabilizers provide maximum corrosion protection
- Best in the industry, 25-year aerial structural warranty



# TRACTOR DRAWN AERIALS

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## 100' TDA



- Short 55' apparatus overall length designed for fire departments to respond in older city urban environments
- Short 306" trailer wheelbase combined with 145" tractor wheelbase optimizes maneuverability on inner city, downtown streets
- Compact ladder design optimizes tiller driver visibility for safer, more efficient operation
- 14' outrigger spread allows setup in tight spaces
- Ladder designed for ladder pipe operation and can be rated at 250 lb. or 500 lb. tip load
- Best in the industry, 25-year aerial structural warranty



## 105' TDA



- Apparatus designed for fire departments responding in suburban environments
- Maximum storage with individually mounted compartments
- Available with quint package utilizing full mid-ship fire pump and 300-gallon water tank
- 16' outrigger spread allows setup in tight spaces
- 500 lb. tip load ladder with pre-piped water to tip and electric monitor
- Best in the industry, 25-year aerial structural warranty



# WATER TOWERS

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## 50' & 65' TeleSquirt



- First out fast attack capabilities that do not interfere with normal pumper operations
- Rear mounted telescoping water tower flows 1000 gpm with 250 lb. tip load (500 lb. dry)
- Telescoping rescue ladder with high handrails atop boom provides safe rescue capability
- Fast and simple set up requiring minimal manpower for operation
- Nozzle stows in recessed area on underside of boom for protection when not in use



## 54' Squirt



- First out fast attack capabilities that do not interfere with normal pumper operations
- Rear mounted articulating water tower flows 1000 gpm
- Fast and simple setup requiring minimal manpower for operation
- Up and over boom design allows water tower operation where telescoping ladders can't reach



## 55' Snorkel



- Rear mounted articulating water tower flows 1000 gpm with 500 lb. capacity in platform
- Platform has 750 lb. capacity for rescue operations
- Up and over boom design allows water tower operation where telescoping ladders can't reach



For unrestricted technology that delivers uncompromised performance and safety, learn more about our full line of aerials at

[emergencyresponse.spartanmotors.com/aerials](https://emergencyresponse.spartanmotors.com/aerials)



**SAFETY DRIVEN.**