



# NXT 110' AERIAL





# UNRESTRICTED AERIAL PERFORMANCE, AT ANY ANGLE AND EXTENSION.

No matter the conditions, no matter the demands, we've found a way to take firefighters to new heights in performance and safety.

For decades, Ladder Tower has risen to the occasion and established a heritage of building the best in the business, representing aerial strength and cutting edge performance day in and day out. That has never been more true with the next generation of the 110' Rear Mount Aerial - the NXT 110.

The NXT 110 yields maximum and unrestricted performance with up to 750-pound tip load, at any angle and extension. This performance combined with a low profile pump and short overall length deliver unprecedented maneuverability without sacrificing compartment space or performance.



## PERFORMANCE SPECIFICATIONS

The NXT 110 eliminates the traditional pump house through unique packaging and delivers cutting edge aerial performance and apparatus versatility. Designed with firefighters in mind, the NXT 110 is built on a best in class chassis with 500 to 600 horsepower ratings and the #1 safety system in the industry.

### More Compact and Maneuverable.

- Under 40' overall travel length
- Overall travel height as low as 11'
- 223" wheelbase
- 53° cramp angle

### High Flow.

- 2,250 gpm fire pump
- Low profile NXT pump configuration
- Up to 500 gallon water tank

### Maximized Space Usage.

- 245 cu. ft. of compartment storage
- Full depth rescue style compartments
- Up to 170 ft. of internal ground ladder storage
- Fully enclosed ground ladders 40" from the ground
- 1,000' of 5" LDH hose storage with officer side payout
- (2) 1-3/4" removable speedlays
- (1) 2-1/2" removable speedlay

### High Performance Aerial Ladder.

- 110' vertical reach
- 99' horizontal reach
- 500 lb. tip load with 12' outrigger spread
- 750 lb. tip load with 14' outrigger spread
- 1,500 gpm aerial water flow capacity
- H-Style outriggers with 36.75" jack extension
- Operation on 20% fore/aft grades
- Operation on 24% side slope



**Maximum Flow Capabilities.**

A more compact, yet powerful NXT pump with up to 2,250 GPM and a 500 gallon tank provide the power needed to manage any situation. The pump is positioned at the rear of the cab under the seat extension allowing for a full body pump, without taking up space inside the cab. Low pump inlet and discharges provide a safe and ergonomic work environment.



**MAXIMUM PUMP CAPABILITIES:** *The non-proprietary NXT pump offers up to 2,250 GPM along with added room and storage in the cab and body.*



**PUMP OPERATORS PANEL:** *The pump operators panel can be found inside the L2 compartment. Choose from standard controls or the optional Omni Pump System shown above.*



**LOW CROSSLAYS:** *The low profile pump creates a safe and more ergonomic access to crosslays.*



**MAXIMUM STORAGE SPACE :** *The unique packaging of the NXT110 offers maximum storage space inside the cab and body compartments.*



**Industry Best Safety.**

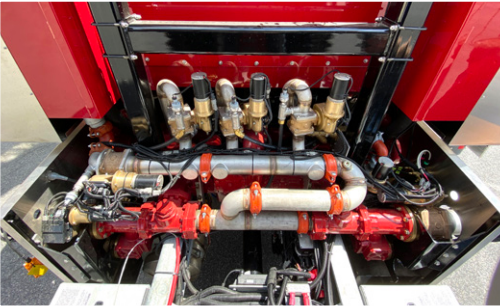
Like every truck we build, our focus is to keep first responders safe. The NXT 110 is engineered to be the safest in its class with the most extensive safety system in the industry, ergonomic controls, Advanced Filtration System, and safe access to ground ladders, hose beds and equipment.

The Spartan Advanced Protection System® (APS) is the #1 safety system in the industry and the only to offer front and side impact protection, providing unparalleled occupant safety. Designed and purpose-built for firefighters, it combines forward-thinking apparatus safety, developed around the needs of the first responder.



**Ease of Service and Low Cost of Ownership.**

The NXT 110 features non-proprietary chassis, pump, and aerial components and standard parts, making reordering easy and efficient. Simplified service access for the pump and aerial device make for easy maintenance.





# THE IDEAL COMBINATION OF AERIAL POWER AND URBAN AGILITY

## Safe. Strong. Stable.

Square and rectangular tubing provide a large ladder cross section for superior rigidity, with longer weld joints for increased ladder strength. Tubular Welded Steel Torque Box Mainframe stiffens the backbone of the apparatus to provide a rigid and durable mounting base for the aerial and body. This helps absorb the overturning loads generated by the aerial and distributes them evenly to the outriggers.

## Control Technology

The Omni Pump System can be integrated into the aerial turn table controls, giving the operator the ability to control both the aerial and pump operations from a single location.



## Cab Features

- Flat Floor Design
- Entry & Egress
- Advanced Climate Control
- Advanced Protection System
- Superior Interior Head Room Height

## Superior Tip Loads

With tip loads up to 750 lbs. and minimal deflection, the NXT 110 can carry a heavier load and will remain stable and true even when fully extended with a 1/4" ice rating and 50 mph wind rating.



Under 40' Overall Length

223" Wheelbase

53°

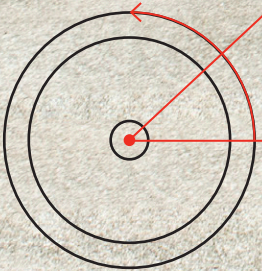
with Independent  
Front Suspension

## More Maneuverable

Spartan's Independent Front Suspension (IFS) boasts an industry leading 53 degree cramp angle resulting in a turn radius that is up to 15% better than our 100' single axle competitors.

## Greater Control and Stability

The tandem axle design delivers better suspension and braking capabilities with additional carrying capacities resulting in a safer apparatus with greater control and stability.





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 making as safe and effective as possible. No matter the conditions. No matter the height.

TRAVEL HEIGHT AS LOW AS 11':

The ladder sections are designed to provide a low travel height, making it easy to fit into historic firehouses and under bridges.

12' & 14' NARROW OUTRIGGER SPREAD: Our H-style outrigger system provides strength and stability under all road and terrain conditions. LT's effective “out and down” design automatically locks into supporting position with no locking pins to place or remove.

**SUPERIOR GRADE OPERATIONS:** Set-up and operate on grades of up to 20% with unrestricted performance. The footplate swivels in all directions, providing superior holding on uneven terrain, and the 24" X 24" auxiliary ground plates provide additional load distribution on soft ground.



NXT 110 ADVANTAGE

You make enough sacrifices, don’t limit yourself when it comes to your equipment. The NXT 110 delivers more power, more maneuverability, with unrestricted ladder performance.

	PERFORMANCE	ADVANTAGE
Front & Side Impact Protection	Yes	Unparalleled Occupant Safety
Wheelbase	223”	Up to 11” Shorter
Cramp Angle	53°	Industry Leading
Turn Radius (curb-to-curb)	352”	Up to 15% Shorter
Vertical Reach	110’	Unrestricted Performance
Horizontal Reach	99’	Unrestricted Performance
Stabilizer Width	12’ or 14’	Narrow Outrigger Spread
Fly Section Dimensions	Height 18.5" Width 22.5"	Higher and Wider Fly Section Design
Compartment Storage	245 cu. ft.	Full Depth Rescue Style Compartments
Ground Ladder Storage	170’	Located 40" from the Ground
Pump Capacity	2,250 GPM	Maximum Flow Capacities
Water Tank	Up to 500 Gallon	Haul More
Operating Grade	Up to 20%	Superior Grade Operations





DETAILS MAKE THE DIFFERENCE



**EXCELLENT HORIZONTAL & VERTICAL REACH:** Built with up to 100,000 psi yield strength steel that can be depressed as low as 7° below horizontal or as high as 78° above horizontal. This allows firefighters to reach taller structures and have easy access to the ladder when lowered to ground level.



**SAFE & EASY ACCESS:** Wide egress steps and walkways provide easy access to and from the ladder.



**REPLACEABLE EGRESS:** Designed with an unobstructed opening for easy access, the bolt-on removable egress can be easily replaced. Available in various lengths.



**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.



**NARROW OUTRIGGER SPREAD:** It's simple, if you can open your door you can set the jacks. A 12' outrigger spread with quick and simple deployment delivers industry leading performance.



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



**LOW GROUND LADDER STORAGE:** Fully enclosed ground ladders are located just 40" from the ground, providing safe and ergonomic access to up to 170 ft. of storage.





RV GROUP

EMERGENCY RESPONSE



07/20