

# ASCENDANT CLASS OF AERIALS



# Ascend to a whole new level.

Go where no aerial apparatus has gone before. And do so with the heavy-duty capabilities and dependability you deserve.

The Ascendant® 107' heavy-duty steel ladder truly redefined the single rear axle aerial market, providing firefighters with an unprecedented 107' vertical height and 100' horizontal reach without compromising on water capacity, performance, or safety. The heavy-duty 100,000 psi high-strength steel ladder was purpose built using proven engineering practices. Since the launch, firefighters have made it clear that we need to be able to offer our innovative Ascendant ladder on other configurations as well.

The Ascendant technology has expanded into 6 innovative products. The Ascendant Class of Aerials was brilliantly engineered to equip firefighters with more aerial choices than ever before. Whether it be weight restrictions, compartment space, preference to ride rather than climb, the lower cost of ownership, or rescue capabilities, the Ascendant technology provides flexibility and a wide range of options to meet each department's needs.

## Benefits of a lighter weight vehicle.

- Departments in weight-restrictive states can now have Ascendant tandem axle configuration in their fleet
- Costs of ownership are lower with less brake & tire wear
- Stopping distances are shorter & departments will realize better performance from the chassis drivetrain
- Easier to set up & position
- Innovative stabilizers & down-jacks reduce the setup footprint





## **100** Tower\* characteristics.

- 100' vertical
- 93' horizontal
- 1,000 lb tip load
- 4-person ergonomically designed platform basket
- 150 lb additional equipment allowance at tip
- 2,000 gpm flow
- 6 stabilizers with integrated ground pads
- Heavy-duty high-strength 100,000 psi steel construction
- Multiplexed device
- Smaller footprint
- Short-jacking capability
- -20° to 77° operational range
- Smoother & quicker deployment speed

*\*Patents issued and pending*

# ASCENDANT

## 100' HEAVY-DUTY AERIAL TOWER



### Superior maneuverability.

- Low overall ride height of 10'8", short overall length of only 41'3"
- Compact rear overhang of 160" to minimize tail-swing
- Available with TAK-4 T3™ & a turning radius of 35'

### Uncompromising operability.

- Superior scrub area of 50°
- Enhanced operation up to 20° below grade
- 20' setback allows truck to be set up in just 28' of roadway
- Integrated ground pads for fast setup (26 second jack deployment)



### ASCENDANT® 100' TOWER SPECS

<b>Custom Chassis</b>	Arrow XT™, Velocity®
<b>Vertical Height</b>	100'
<b>Horizontal Reach</b>	93'
<b>Operating Range</b>	-20° to 77°
<b>Payload Capacity</b>	1,000 lb dry / 500 lb wet
<b>Wind &amp; Ice Ratings</b>	Up to 35 mph winds & .25" of ice
<b>Flow Capacity</b>	2,000 gpm
<b>Stabilizers</b>	1 set of H-style & 4 down-jacks
<b>Stabilizer Spread</b>	18'
<b>Front Axle Rating</b>	24,000 lb
<b>Rear Axle Rating</b>	48,000 lb
<b>Tank Capacities</b>	Up to 300 gallons / limited warranty
<b>Pump Range</b>	Waterous, Hale, Darley Midship
<b>Hosebed Capacity</b>	800' of 5" hose
<b>Ladder Complement</b>	Minimum of 170'
<b>Ladder Warranty</b>	20-yr structural



20° setback



Up to 20° below grade



Basket accessible from ground at full retraction



## **107** Ladder\* characteristics.

- 107' vertical
- 100' horizontal
- 750 lb tip load dry
- 500 lb tip load wet
- 100 lb additional equipment allowance at tip
- 1,500 gpm flow
- Store front blitz feature standard
- Replaceable egress
- Heavy-duty high-strength 100,000 psi steel construction
- Multiplexed device
- Smaller footprint
- Short-jacking capability
- -10° to 77° operational range
- Smoother & quicker deployment speed

*\*Patents issued and pending*

# Heavy-duty capabilities you deserve.

Beginning with the Ascendant® 100,000 psi high-strength steel ladder on a single rear axle, this configuration has truly redefined the market. Featuring an unprecedented 107' vertical height and 100' horizontal reach, the heavy-duty steel ladder provides firefighters with 750 lb tip load, 2,000 gpm pump with 1,500 gpm tip flow, a multiplexed device, below grade response, and short-jacking capabilities.

Also available on a tandem axle chassis configuration with a rear axle rating of only 44,000 lb, performance gains are made across the board. Less brake and tire wear. Shorter stopping distances. Better chassis drivetrain performance. Featuring 2 H-Style outriggers and 2 down-jacks, the Ascendant ladder on a tandem axle reduces the setup footprint.

When maximum maneuverability is crucial, the Ascendant 107' Tiller excels at getting you to the scene quicker. The tractor drawn aerial configuration improves setup capabilities by increasing the allowable jack-knife angle to 60 degrees and gives firefighters greater reach and operational capabilities. The overall vehicle weight of this configuration has been reduced by 4,000 lb, giving fire departments more flexibility with their configurations.



# ASCENDANT

## 107' HEAVY-DUTY AERIAL LADDER



### Body styles.

- Quint – available with a PUC™ pump
- Texas Chute Out – for departments desiring a side-stacked hosebed; available with a PUC pump
- No Pump No Tank – a true truck company style

### Improved corrosion resistance.

- Single rear axle configuration: e-coated pedestal & torque box
- Tandem rear axle configuration: e-coated torque box & stabilizers



### ASCENDANT® 107' LADDER SPECS

	Single Rear Axle	Tandem Rear Axle
<b>Custom Chassis</b>	Arrow XT™, Enforcer™, Impel®, Velocity®	Arrow XT™, Enforcer™, Impel®, Quantum®, Velocity®
<b>Vertical Height</b>	107'	107'
<b>Horizontal Reach</b>	100'	100'
<b>Operating Range</b>	-10' to 77'	-10' to 77'
<b>Payload Capacity</b>	750 lb dry / 500 lb wet	750 lb dry / 500 lb wet
<b>Wind &amp; Ice Ratings</b>	Up to 50 mph winds & .25" of ice	Up to 50 mph winds & .25" of ice
<b>Flow Capacity</b>	1,500 gpm	1,500 gpm
<b>Stabilizers</b>	1 set of H-style & 1 down-jack	1 set of H-style & 2 down-jacks
<b>Stabilizer Spread</b>	18'	16'
<b>Rear Axle Rating</b>	33,500 lb	44,000 lb
<b>Tank Capacities</b>	Up to 500 gallons / limited warranty	Up to 750 gallons / limited warranty
<b>Pump Range</b>	Waterous, Hale, Darley Midship, PTO	Waterous, Hale, Darley Midship, PTO
<b>PUC™ Availability</b>	Yes	Yes
<b>Hosebed Capacities</b>	1,000' of 5" or split load 700' of 5" & 600' of 3" hose	1,000' of 5" hose
<b>Ladder Complement</b>	Minimum of 115'	Minimum of 115'
<b>Ladder Warranty</b>	20-yr structural	20-yr structural



Single axle stabilizers



750 lb tip load



Tandem axle stabilizers

# ASCENDANT

## 107' TILLER HEAVY-DUTY AERIAL LADDER



### Performance enhancements.

- Longer reach, both vertically & horizontally
- Higher tip loads & higher flow ratings
- Increased jack-knife capability to 60°
- Reduced overall weight by 4,000 lb
- TAK-4® Independent Front & Trailer Suspension standard



### ASCENDANT® 107' TILLER SPECS

<b>Custom Chassis</b>	Arrow XT™, Enforcer™, Quantum®, Velocity®
<b>Vertical Height</b>	107'
<b>Horizontal Reach</b>	100'
<b>Operating Range</b>	-10° to 77°
<b>Payload Capacity</b>	750 lb dry / 500 lb wet
<b>Wind &amp; Ice Ratings</b>	Up to 50 mph winds & .25" of ice
<b>Flow Capacity</b>	1,500 gpm
<b>Stabilizers</b>	1 set of H-style
<b>Stabilizer Spread</b>	17'
<b>Tank Capacities</b>	Up to 300 gallons / limited warranty
<b>Pump Range</b>	Waterous, Hale, Darley Midship, PTO
<b>PUC™ Availability</b>	Yes
<b>Hosebed Capacity</b>	1,000' of 5" hose
<b>Ladder Complement</b>	Up to 250'
<b>Ladder Warranty</b>	20-yr structural



1 set of H-style stabilizers, improved setup capabilities



100' horizontal reach & easy-to-replace egress with clean tip design



60° jack-knife angle & compartment storage



## 110 Platform\* characteristics.

- 110' vertical
- 90' horizontal
- 750 lb tip load dry
- 500 lb tip load wet
- 3-person ergonomically designed platform basket
- 100 lb additional equipment allowance at tip
- 1,250 gpm flow
- Single monitor
- Heavy-duty high-strength 100,000 psi steel construction
- Multiplexed device
- Smaller footprint
- Short-jacking capability
- -10° to 77° operational range
- Smoother & quicker deployment speed

*\*Patents issued and pending*

## Basket features.

The Ascendant® platform includes a 100,000 psi high-strength steel ladder with a fully NFPA compliant, ergonomically designed 3-person basket. The Ascendant platform is rated to a 35 mph (56 km/h) wind and .25" (0.64 cm) of ice load. It can accommodate 100 lb (45.4 kg) of additional equipment and flow 1,250 gpm (4,732 L/m) from a single monitor located at the end of the fly section.

For those who want more than just a ladder yet desire a smaller, lighter weight platform basket with lower acquisition costs and less cost of ownership – the Ascendant platform is ideal.



# ASCENDANT 110' HEAVY-DUTY AERIAL PLATFORM



## Body styles.

- Quint – available with a PUC™ pump
- Texas Chute Out – for departments desiring a side-stacked hosebed; available with a PUC pump
- No Pump No Tank – a true truck company style

## Improved corrosion resistance.

- Single rear axle configuration: e-coated pedestal & torque box
- Tandem rear axle configuration: e-coated torque box & stabilizers



### ASCENDANT® 110' PLATFORM SPECS

	Single Rear Axle	Tandem Rear Axle
<b>Custom Chassis</b>	Arrow XT™, Enforcer™, Impel®, Velocity®	Arrow XT™, Enforcer™, Impel®, Quantum®, Velocity®
<b>Vertical Height</b>	110'	110'
<b>Horizontal Reach</b>	90'	90'
<b>Operating Range</b>	-10° to 77°	-10° to 77°
<b>Payload Capacity</b>	750 lb dry / 500 lb wet	750 lb dry / 500 lb wet
<b>Wind &amp; Ice Ratings</b>	Up to 35 mph winds & .25" of ice	Up to 35 mph winds & .25" of ice
<b>Flow Capacity</b>	1,250 gpm	1,250 gpm
<b>Stabilizers</b>	1 set of H-style & 1 down-jack	1 set of H-style & 2 down-jacks
<b>Stabilizer Spread</b>	18'	16'
<b>Rear Axle Rating</b>	33,500 lb	44,000 lb
<b>Tank Capacities</b>	Up to 500 gallons / limited warranty	Up to 750 gallons / limited warranty
<b>Pump Range</b>	Waterous, Hale, Darley Midship, PTO	Waterous, Hale, Darley Midship, PTO
<b>PUC™ Availability</b>	Yes	Yes
<b>Hosedbed Capacities</b>	1,000' of 5" or split load 700' of 5" & 600' of 3" hose	1,000' of 5" hose
<b>Ladder Complement</b>	Minimum of 115'	Minimum of 115'
<b>Ladder Warranty</b>	20-yr structural	20-yr structural



Dual swing-in doors



Extend platform 8' to access basket from ground



Smaller setup footprint

# ASCENDANT<sup>®</sup>

## CLASS OF AERIALS

### THE LINEUP

	 <b>100</b> Tandem Axle Tower	 <b>107</b> Single Axle Ladder	 <b>107</b> Tandem Axle Ladder	 <b>107</b> Tiller	 <b>110</b> Single Axle Platform	 <b>110</b> Tandem Axle Platform
Vertical Height	100'	107'	107'	107'	110'	110'
Horizontal Reach	93'	100'	100'	100'	90'	90'
Tip Load Dry	1,000 lb	750 lb	750 lb	750 lb	750 lb	750 lb
Tip Load Wet	500 lb	500 lb	500 lb	500 lb	500 lb	500 lb
Wind Load	35 mph	50 mph	50 mph	50 mph	35 mph	35 mph
Equipment Allowance	150 lb	100 lb	100 lb	100 lb	100 lb	100 lb
Flow Capacities	2,000 gpm	1,500 gpm	1,500 gpm	1,500 gpm	1,250 gpm	1,250 gpm
Stabilizer Spread	18'	18'	16'	17'	18'	16'
Collision Avoidance	Standard	Standard	Standard	Standard	Standard	Standard
Multiplexed	Yes	Yes	Yes	Yes	Yes	Yes
Ladder Material	100K psi steel	100K psi steel	100K psi steel	100K psi steel	100K psi steel	100K psi steel
Number of Stabilizers	6	3	4	2	3	4
Tank Capacities	300 gallons	500 gallons	750 gallons	300 gallons	500 gallons	750 gallons

[www.piercemfg.com](http://www.piercemfg.com)



Pierce Manufacturing Inc., An Oshkosh Corporation Company  
P.O. Box 2017, Appleton WI 54912-2017 USA

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