

ASCENDANT® CLASS OF AERIALS



An Oshkosh Corporation Business



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 Ladder truly redefines 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.

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.



100 Tower*

**Patents issued*

Benefits of a lighter weight vehicle.

- Departments in weight-restrictive states can have Ascendant tandem axle configurations 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



ASCENDANT® 100' HEAVY-DUTY TOWER



ASCENDANT 100' TOWER SPECS

Custom Chassis	Enforcer™, Velocity®
Vertical Height	100'
Horizontal Reach	93'
Operating Range	-15' to 77'
Payload Capacity	1,000 lb dry / 500 lb wet
Wind & Ice Ratings	Up to 35 mph winds & 0.25" of ice
Flow Capacity	Up to 2,000 gpm
Stabilizers	1 set of H-style & 4 down-jacks
Stabilizer Spread	18'
Tank Capacities	Up to 300 gallons
Pump	Waterous, Hale, Darley Midship
Hose Bed Capacity	800' of 5" hose
Ladder Complement	Minimum of 170'
Ladder Warranty	20-yr structural

Superior maneuverability.

- Low overall ride height of 10' 10", short overall length of only 41' 5"
- Compact rear overhang of 160" to minimize tail-swing
- Available with TAK-4 T3™ Suspension & 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)



20' setback



Up to 20° below grade



Basket accessible from ground at full retraction



107 Ladder*

Heavy-duty capabilities you deserve.

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

Also available on a tandem axle chassis configuration with low rear axle ratings, performance gains are made across the board. Less brake and tire wear. Shorter stopping distances. Better chassis drivetrain performance. Featuring 1 set of H-style stabilizers and 2 down-jacks, the Ascendant ladder on a tandem axle reduces the setup footprint.

When maximum maneuverability is crucial, the Ascendant 107' Heavy-Duty Tractor Drawn Aerial excels at getting you to the scene quicker. The configuration improves setup capabilities by increasing the allowable jack-knife angle to 60 degrees. The overall vehicle weight has been reduced by 4,000 lb, giving fire departments more flexibility with their configurations.



*Patents issued



ASCENDANT 107' LADDER SPECS

	Single Rear Axle	Tandem Rear Axle
Custom Chassis	Enforcer™, Impel®, Velocity®	Enforcer™, Velocity®
Vertical Height	107'	107'
Horizontal Reach	100'	100'
Operating Range	-10' to 77'	-10' to 77'
Payload Capacity	750 lb dry / 500 lb wet	750 lb dry / 500 lb wet
Wind & Ice Ratings	Up to 50 mph winds & 0.25" of ice	Up to 50 mph winds & 0.25" of ice
Flow Capacity	Up to 1,500 gpm	Up to 1,500 gpm
Stabilizers	1 set of H-style & 1 down-jack	1 set of H-style & 2 down-jacks
Stabilizer Spread	18'	16'
Tank Capacities	Up to 500 gallons	Up to 750 gallons
Pump	Waterous, Hale, Darley Midship, PTO	Waterous, Hale, Darley Midship, PTO
PUC™ Availability	Yes	Yes
Hose Bed Capacities	1,000' of 5" or split load 700' of 5" & 600' of 3" hose	1,000' of 5" hose
Ladder Complement	Minimum of 115'	Minimum of 115'
Ladder Warranty	20-yr structural	20-yr structural

Body styles.

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

Improved corrosion resistance.

- Single rear axle configuration: electroplated pedestal & torque box
- Tandem rear axle configuration: optional electroplated torque box & stabilizers



Single axle stabilizers



750 lb tip load



Tandem axle stabilizers

ASCENDANT® 107' HEAVY-DUTY TRACTOR DRAWN AERIAL



ASCENDANT 107' TILLER SPECS

Custom Chassis	Enforcer™, Velocity®
Vertical Height	107'
Horizontal Reach	100'
Operating Range	-10° to 77°
Payload Capacity	750 lb dry / 500 lb wet
Wind & Ice Ratings	Up to 50 mph winds & 0.25" of ice
Flow Capacity	Up to 1,500 gpm
Stabilizers	1 set of H-style
Stabilizer Spread	17'
Tank Capacities	Up to 300 gallons
Pump	Waterous, Hale, Darley Midship, PTO
PUC™ Availability	Yes
Hose Bed Capacity	1,000' of 5" hose
Ladder Complement	Up to 250'
Ladder Warranty	20-yr structural

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



1 set of H-style stabilizers, improved setup capabilities



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



60° jack-knife angle & 500 cubic feet of compartment storage



110 Platform*

- 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
- Up to 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*

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 up to a 35 mph (56 km/h) wind and 0.25" (0.64 cm) of ice load. It can accommodate 100 lb (45.4 kg) of additional equipment and flow up to 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' PLATFORM SPECS

	Single Rear Axle	Tandem Rear Axle
Custom Chassis	Enforcer™, Impel®, Velocity®	Enforcer™, Velocity®
Vertical Height	110'	110'
Horizontal Reach	90'	90'
Operating Range	-10' to 77'	-10' to 77'
Payload Capacity	750 lb dry / 500 lb wet	750 lb dry / 500 lb wet
Wind & Ice Ratings	Up to 35 mph winds & 0.25" of ice	Up to 35 mph winds & 0.25" of ice
Flow Capacity	Up to 1,250 gpm	Up to 1,250 gpm
Stabilizers	1 set of H-style & 1 down-jack	1 set of H-style & 2 down-jacks
Stabilizer Spread	18'	16'
Tank Capacities	Up to 500 gallons	Up to 750 gallons
Pump	Waterous, Hale, Darley Midship, PTO	Waterous, Hale, Darley Midship, PTO
PUC™ Availability	Yes	Yes
Hose Bed Capacities	1,000' of 5" or split load 700' of 5" & 600' of 3" hose	1,000' of 5" hose
Ladder Complement	Minimum of 115'	Minimum of 115'
Ladder Warranty	20-yr structural	20-yr structural

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Improved corrosion resistance.

- Single rear axle configuration: electroplated pedestal & torque box
- Tandem rear axle configuration: optional electroplated torque box & stabilizers



Dual swing-in doors



Extend platform 8' to access basket from ground



Smaller setup footprint

ASCENDANT[®]

CLASS OF AERIALS

THE LINEUP	 100 Tower	 102 Tractor Drawn Aerial	 107 Ladder – Single Rear Axle	 107 Ladder – Tandem Rear Axle	 107 Tractor Drawn Aerial	 110 Platform – Single Rear Axle	 110 Platform – Tandem Rear Axle
Vertical Height	100'	102'	107'	107'	107'	110'	110'
Horizontal Reach	93'	95'	100'	100'	100'	90'	90'
Tip Load Dry	1,000 lb	750 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	500 lb
Wind Load	Up to 35 mph	Up to 35 mph	Up to 50 mph	Up to 50 mph	Up to 50 mph	Up to 35 mph	Up to 35 mph
Equipment Allowance	150 lb	100 lb	100 lb	100 lb	100 lb	100 lb	100 lb
Flow Capacities	Up to 2,000 gpm	Up to 1,000 gpm with ladder pipe only	Up to 1,500 gpm	Up to 1,500 gpm	Up to 1,500 gpm	Up to 1,250 gpm	Up to 1,250 gpm
Stabilizer Spread	18'	17'	18'	16'	17'	18'	16'
Collision Avoidance	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Multiplexed	Yes	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	100K psi steel
Number of Stabilizers	6	4	3	4	2	3	4
Tank Capacities	Up to 300 gallons	Up to 300 gallons	Up to 500 gallons	Up to 750 gallons	Up to 300 gallons	Up to 500 gallons	Up to 750 gallons

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