

3200 Pathfinder



PALADIN LIGHT CONSTRUCTION

FEATURES

- Standard fifth wheel hitch style fits SAE standard hitch plate
- Integrated electronic controls sense angle between truck and trailer and hydraulically controls steering to keep broom tracking inside plowed path of tow vehicle, even when making high speed turns
- Contamination-proof sensors continually monitor axle position
- Automatic and manual steering controls available at the push of a button
- 18,000 lb standard heavy duty truck steer axle with ABS controlled air brakes under trailer
- Cat C13 12.5 liter 475 HP, 1,519 lb ft, tier 3 & stage IIA compliant
- 220 gallon fuel capacity for uninterrupted operation
- 60 gallon hydraulic oil capacity for cooler operating temperatures



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FEATURES

- 46" diameter brush with 14, 16, 18, 20 & 22 ft broom widths available
- Infinitely adjustable broom speed from 0 to 525 RPM with up to 5078 lb. ft. of torque
- Hydraulic motors spin brush through planetary gear boxes for a compact, high torque drive system
- Floating spherical bearing brush hitch allows excellent ground contact despite surface irregularities
- Twin centrifugal air blowers in front of trailer axle, clears fine snow and moisture from tarmac
- Fully integrated electronic control system provides:
 - Automatic adjustment of brush speed depending on bristle wear and vehicle velocity
 - Automatic pattern adjustment and remote manual pattern adjustment
 - Automatic power compensation for controls display
 - Multiple language capabilities for controls display
 - Full control of all functions from cab of tow vehicle including plow, broom, and air blower in combination or individually
 - Self-diagnostic feature for ease in troubleshooting
 - Optional rear-view camera and monitor

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Dimensions

| | |
|---------------------------|---|
| Length | 35.70 ft (10,880 mm) |
| Working Width (min & max) | 14.58 ft to 21.65 ft (4,445 mm to 6,598 mm) |
| Height | 9.85 ft (3004 mm) |
| Weight (without broom) | 12,530 lbs (5684 kg) |

Engine

| | |
|--------------|-----------------------------------|
| Type | diesel 12.5 liter |
| Make / Model | Cat C13 |
| Output | 475 hp (354 kw) @ 2,100 RPM |
| Torque | 1,519 lb-ft (2,059 N) @ 1,400 RPM |

Broom

| | |
|-------------|---|
| Type | rotary, dual motor drive |
| Diameter | 46" (1,168 mm) |
| Length | 14 to 22 ft @ 2 ft inc. (4,267 mm to 6,705 mm @ 610 mm inc.) |
| Bristles | poly, steel or ½ poly & ½ steel |
| Broom Speed | 0 to 525 RPM |
| Broom Angle | 45° left & right |

Blower

| | |
|----------|----------------------------|
| Type | centrifugal fans (2) |
| Volume | 24,560 cfm (695.47 m³/min) |
| Velocity | 450 mph (724 km/h) |
| RPM | 0 to 4,000 |
| Location | in front of trailer axle |

Performance

| | |
|-----------------------------|----------------------------------|
| Working Speed (maximum) | 45 mph (72 km/h) |
| Sweeping Path (maximum) | 186.75" (4,743 mm) |
| Clearing Capacity (maximum) | 3,698,000 ft²/hr (343,556 m²/hr) |

Hydrostatics

broom & blower systems are each driven with independent, dedicated hydrostatic transmissions with infinitely variable control from 0 to max RPM

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