

# ELGIN®



# PELICAN®

# Pelican<sup>®</sup> Three-Wheel Broom Sweeper

## A Closer Look

To assure that the legendary Elgin Pelican continues to meet the needs of its customers and the industry, Elgin Sweeper raised the bar and set a new benchmark for the industry standard. Based on a design that has been continually perfected since 1914, the new and improved Pelican combines maneuverability, economy, serviceability, and single-lane dumping with a sweep system that easily handles heavy, compacted dirt and bulky debris, as well as smaller particles found in the street. If you need an all-around sweeper with incredible digging power the Pelican is the perfect solution.

- Isolation-mounted cab for cleaner, quieter, more comfortable operation
- Improved 360° visibility
- Enhanced ease of operation
- Increased durability, stability, and maneuverability
- Easier access for service and maintenance

With so much to offer - and customized with your choice of options - the new Pelican is sure to fit your sweeper needs.



# Waterless Advantage. Elgin Performance.



The Pelican with optional dry dust control maintains all the popular features and sweeping performance that have made the Pelican the best selling three-wheel sweeper – without the use of water for dust suppression. This means increased pick-up of fine particles over traditional, wet dust control sweepers, proven reliable year-round sweeping and considerable water conservation.

**Dry Dust Control System:** The Pelican with dry dust control features a patented dust control system that includes a dust skirting system, dust separator in the hopper, and a dust control fan with a maintenance-free filter – working together to control fugitive dust without the use of spray water.

The Pelican's waterless dust control system means operators sweep more and spend less time filling tanks enhancing productivity. Without water, mud doesn't build up on components, which can reduce clean-up time at the end of the shift. And since there is no water, sweeping in freezing weather conditions is possible, helping you meet the growing demand for quick pick up of winter-time road sand, salt and cinders. Perhaps the most important benefits are those for the environment as the process of dry sweeping lowers your water footprint, as well as reduces road silt that can be left as a film from water-based dust control sweepers.

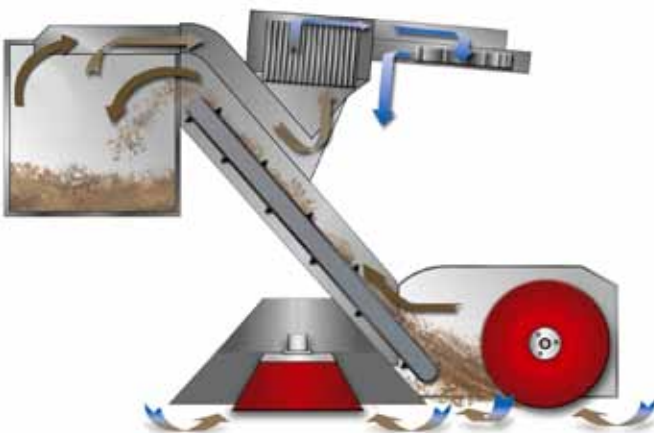
## Filtration System

A powerful vacuum fan on the sweeper creates an air stream through the debris hopper, conveyor, and skirted areas. The inward rushing air carries the airborne dust into the debris hopper where it's allowed to settle out with the rest of the swept debris.

A majority of the fugitive dust falls into the hopper with only a small amount of dust getting to the filter. When the filter becomes loaded, it can be mechanically cleaned with an on-board cleaning system so sweeping can continue.

A long life, low maintenance dry filter element is installed between the debris hopper and the vacuum fan to prevent dust from being pulled from the hopper and blown out the vacuum fan exhaust.

The fully flexible main and side broom skirting allow efficient dust capture, while still providing aggressive curb cleaning. These are fabricated from highly resilient polymer material for long wear and are easy to change and maintain.



\*For information on performance test results consult factory.

## Pelican - Durable, Reliable, and Easy to Use



Hopper Dump Phases



LNG Model

Equip your Pelican with the sweep system that best suits your needs. Both hydraulic and mechanical systems provide exceptional digging power in heavy, compacted dirt, as well as effective pickup of light or bulky debris.

### Hydraulic Sweep System (P)

Controlled by engine rpm and operated independently of ground speed and direction, the Pelican's broom speed provides digging power at slow or zero ground speeds. A foot pedal controls speed and sweeper direction through the hydrostatic transmission.

### Mechanical Sweep System (S)

Also controlled by engine rpm and operated independently of ground speed and direction, the S design provides exceptional digging performance by driving the brooms directly through an integrated hydraulic clutch for higher broom torque.

### Main Broom

The Pelican features a 35" x 66" (889 mm x 1676 mm) hydraulically driven polypropylene main broom that features variable speed for optimal sweeping in changing conditions. To protect the broom mechanism, the main broom raises automatically when the sweeper is reversed. The broom is then returned to its sweep position and set down pressure when a forward direction is resumed.

### Side Broom

Side brooms, either hydraulically or mechanically driven are rugged construction, 36" (914 mm) in diameter and protrude up to 13" (330 mm) beyond the outside of the tire while sweeping to capture more gutter debris.

### Outstanding Maneuverability

The Pelican features a high steering angle and a small turning radius, so you can make quick turns, sweep extremely close to obstacles and follow curbs without climbing or scuffing tires. Dual tire guide wheels increase stability and steering traction.

### Sprung Guide Wheel

The shock-absorbing, two-spring suspension design increases your comfort in the cab while reducing stress on the sweeper frame—especially when operating in pothole conditions or on rough, uneven roads.

### No Jam™ Debris Conveyor

The exclusive conveyor system features molded-in full width cleats that move large debris without jamming. The high-strength belt material on the conveyor delivers long wear for maximum uptime. An optional built-in washdown provides quick and easy clean-up.

### Variable Height Front Dump Hopper

Ideal for single-lane dumping for minimal traffic interruption and increased safety, the hopper can be dumped from ground level up to 9 ft 6 in (2895 mm) high. The load can be easily observed from the cab by lifting and rolling the hopper. The hopper's large, 3.5 yd<sup>3</sup> (2.7 m<sup>3</sup>), 9,000 lb (4082 kg) capacity provides maximum sweeping time. For easy inspection, the hopper rolls out and rests on the ground.

### Durable, Purpose-Built Chassis

The Pelican's heavy-duty construction and compact frame ensures a tight turning radius and years of reliable, low-maintenance operation. A balanced design provides stable sweeping and dumping. The hopper load is positioned low between the two front wheels for outstanding balance and safety. The axle support and hopper lift system are integral parts of the chassis.

### Single Engine Powered

The Pelican is powered by the John Deere 4045T, 4 cylinder, turbocharged EPA Tier 3 diesel engine. The engine is rated at 99 HP @ 2500 RPM and is capable of operating on bio-diesel up to B20.

### Low-Maintenance Drive System

Featuring a unique wheel motor design that delivers outstanding power with minimal maintenance, the Pelican can handle steep grades with no problem. Integrated sensors provide precise road speed measurement and adjust power requirements according to the load.



### Heavy-Duty Brake System

The Pelican features three caliber, full-power disc brakes and a dynamic braking design that significantly reduces wear on service brakes. All brake components are easy to access and economical to maintain.



### Corrosion-Resistant Water System

Corrosion resistant polyethylene water tank supplies the dust suppression system with 220 gallons (833 L) of water. The exclusive Elgin water pump on the Pelican can run dry without damaging the machine's water system. For operator convenience and ease of maintenance, a water level gauge is fully visible from the cab.

### Long Life, Low Maintenance Components

Easy servicing lowers ownership costs and increases sweeper usage. O-ring face seal hydraulic fittings assure leak-free connections, while the electrical system's waterproof snap-together connectors and stamped color-coded wires provide quick identification. To ensure easy monitoring of fluid levels, the hydraulic tank directly behind the cab features a sight glass inspection tube.



### Efficient, Comfortable Cab

The clean, quiet, comfortable and spacious isolation-mounted cab features large windows, wide see-through doors and a full-width windshield for 360° visibility. The center console is easily accessed from both left and right driving positions. Fingertip controls include illuminated and graphically identified gauges and rocker switches.

### Alternative Fuel Option

The Pelican can be powered by either compressed natural gas (CNG), liquefied natural gas (LNG), or liquefied petroleum gas (LPG – propane). The alternative fuel Pelican is powered by the ultra-low emissions Cummins B5.9 – 195G engine that is certified to U.S. EPA and CARB standards and Euro V and EEV. This option offers low emissions without sacrificing performance and efficiency.



## Options



### LifeLiner® Hopper System

The LifeLiner® hopper system is a specially designed hopper liner and finish system that greatly improves the life, durability, and functionality of a sweeper hopper.



### Front Third Broom

The third broom adds a new dimension in productivity. This front-mounted tool can be used for weed removal on its fixed-height, high speed broom rotation setting and extended reach broom sweeping on its full-floating, normal speed setting. (Pelican P only)



### Limb Guard

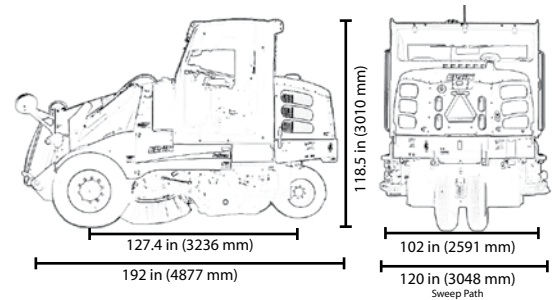
Heavy-duty guards surround cab and protect sweeper by guiding low-hanging tree limbs up and over the Pelican. Available in right hand, left hand, or dual configuration.

## Additional Options

- Auto-Lube automatic lubrication system
- Air conditioner
- Multiple lighting packages available
- Air suspension seat(s)
- Conveyor, lower roller washout
- Sliding rear and side windows
- In-cab side broom tilt

## Value Added Services

- Elgin's commitment to the customer continues long after the sale.
- Factory-trained worldwide dealer network
  - Genuine Performance Matched Parts
  - Elgin Training Center
  - Highest resale value in the industry



## General Specifications

Wheel Base	127.4 in (3236 mm)
Overall Length	16 ft (4877 mm)
Height with cab	9 ft 10.5 in (3010 mm)
Width outside tires	8 ft 6 in (2591 mm)
Curb-to-curb turning radius	15 ft (4572 mm)
Sweeping path:	
· One side broom	8 ft (2438 mm)
· Two side brooms	10 ft (3048 mm)
Empty Weight:	
· One side broom	13,590 lb (6170 kg)
· Two side brooms	14,262 lb (6482 kg)
Travel speed	20 mph (32 Km/h)
Engine (make and type)	John Deere 4045TF150
Horsepower	99 hp (74 kW) @ 2,500 RPM

## Warranty

Elgin Sweeper Company backs the Pelican sweeper with a one-year limited warranty. The Pelican is warranted against defects in material or workmanship for a period of 12 months from the date of delivery to the original purchaser. Optional extended warranty packages are available. Consult your Elgin dealer for complete warranty information. The ESCO/FSM warranty shall not apply to major components or trade accessories such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires, and batteries that have a separate warranty by the original manufacturer.

Your Local Elgin Dealer is:



Elgin Sweeper Company  
 Subsidiary of Federal Signal Corporation  
 1300 W. Bartlett Road  
 Elgin, Illinois, U.S.A. 60120-7529  
 (847) 741-5370 Phone  
 (847) 742-3035 Fax  
[www.elginsweeper.com](http://www.elginsweeper.com)

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**ISO-9001 and PM-10 Advantages**  
 The Pelican® is manufactured in an ISO-9001 facility. John Deere is a registered trade mark of Deere & Company. Cummins is a registered trademark of Cummins, Inc. Covered under US Patent # 7,281, 296 B2 & 6,584,157 B2, and Canadian Patent # CA2475362.