

# *Pelican*<sup>®</sup>



**ELGIN**<sup>®</sup>  
Subsidiary of Federal Signal Corporation



## GREATER MANEUVERABILITY, RELIABILITY AND VISIBILITY—IT IS EASY TO SEE THE **ADVANTAGES OF A PELICAN**

Continually improved since 1914, the Pelican mechanical sweeper offers a unique combination of performance advantages. It delivers superior cleaning action with easier operation and servicing. It is designed to sweep up everything from dust particles to the heaviest, most compact dirt and bulky debris. All while delivering greater efficiency and economy.

Operators will discover a rugged, reliable machine that is cleaner, quieter, easier to operate, more maneuverable and more comfortable. From the brooms to the chassis and inside the cab, the Pelican is engineered with innovative features that deliver years of dependable service.

As you explore all it has to offer, you will understand why the Elgin Pelican sets the standard of excellence in cleaning performance and why we can offer an industry-leading one-year, unlimited hours warranty.



# EASY OPERATION AND SERVICING MAKE PELICAN AN EASY CHOICE



Even the best equipment is only as good as an operator's ability to master it. That is why the Pelican is engineered with ease of operation in mind.

It begins with a comfortable, quiet cab matched with outstanding maneuverability that includes a tight turning radius for precise sweeping performance and variable dump height for optimal material handling. To minimize downtime, the Pelican offers easy access to all key service points. Its many advantages include:

- Large windows and see-through doors allow 360° visibility and make navigating streets simpler and safer
- Roomy cab offers superior ergonomics with filtered fresh air conditioning and a standard heater/defroster
- The cab includes dual steering, a rear view camera and in-cab monitor
- Single-engine, three-wheel design creates a compact frame for maximum maneuverability and stability
- All controls and gauges are logically laid out so operators can focus on the road and their work
- Updated swing-arm rear suspension, designed with shock absorbing coils, enhances ride quality and comfort
- Low-maintenance drive system has a unique wheel motor design for superior performance with minimal maintenance
- Most service points are positioned at ground level



## EXCLUSIVE MEMORY SWEEP® DRIVES PRODUCTIVITY EVEN HIGHER

To enhance operator performance this unique feature allows the operator to resume all previous sweeper settings with one touch control.

It incorporates a multi-screen display highlighting engine hours and water tank level, as well as system diagnostics and optional broom features.

# CLEANER STREETS START WITH A SUPERIOR CLEANING SYSTEM

Cleaner streets have never been more important, and the Pelican is designed with a unique sweep system that easily handles the heaviest, most compacted dirt and debris. Beyond its powerful cleaning action, the Pelican incorporates advanced technology, including a large hopper with optimal capacity that allows sweep time maximization, superior maneuverability, and safe operations.



- 120 in (3048 mm) sweeping path for maximum cleaning efficiency (two side brooms)
- Hydraulically-driven, free-floating main and side brooms work as a system to efficiently sweep material from the curb and street into the hopper
- Main broom measures a generous 35 in x 66 in (889 mm x 1676 mm) and features standard variable speeds and down pressure for optimal sweeping in changing conditions
- Main broom and side brooms are protected by a system that automatically raises them when the sweeper is in reverse
- Each rugged side broom measures 36 in (914 mm) in diameter and protrudes up to 13 in (330 mm) beyond the outside of the tire while sweeping to capture more gutter debris
- Standard no-jam, belt-type conveyor with angled, molded-in, full-width cleats to carry large and small debris more efficiently into the center of the hopper preventing jamming while maximizing hopper capacity
- High steering angle and tight turning radius allow operators to sweep close to obstacles and precisely follow curb lines

## VARIABLE HEIGHT FRONT DUMP HOPPER IMPROVES PERFORMANCE

This system is ideal for single-lane dumping, ensuring minimal traffic interruption. The hopper can be dumped from ground level up to 9 ft 6 in (2895 mm) high. Loads are easily observed from the cab and the hopper's 3.5 cu yd (2.7 m<sup>3</sup>) and 9,000 lb (4082 kg) capacity assures maximum sweep time.

\* 3.5 cu yd (2.7m<sup>3</sup>) volumetric capacity of hopper



# DESIGNED TO DELIVER YEARS OF RUGGED RELIABILITY

Quality that endures. That is what the Pelican delivers. It is designed to provide you with superior performance day in and day out, year after year, in the most punishing of environments. From the broom to the engine to the chassis to the cab, you will find innovative engineering matched to heavy-duty construction:

- Durable, purpose-built chassis includes a compact frame for a tight turning radius and years of low maintenance operation
- Balanced design provides stable sweeping and dumping while the hopper load is positioned low for added stability and safety
- Reliable, single engine power from a proven John Deere 4045T 4.5 L, 4-cylinder turbocharged diesel capable of operating on bio-diesel up to B20
- Integrated sensors in the drive system precisely measure road speed and adjust power requirements based on the load
- Heavy-duty brake system features twin-caliper, power disc brakes with a dynamic braking design that significantly reduces wear
- Controlled by engine RPM and operated independently of direction and ground speed, the Pelican's broom speed provides effectiveness at slow or zero ground speeds
- Corrosion-resistant water system supplies the dust control system with 220 gal (833 L) of water
- Exclusive Elgin water pump can run dry without damaging the machine's water system



# THE RIGHT MODEL FOR YOUR UNIQUE SPECIFICATIONS

To handle a wide range of sweeping applications, the Pelican can be customized in a variety of ways. We can help you select the right options and accessories to create a machine that meets your specific needs for years to come. In addition, your Pelican can come in a variety of configurations:



## Industrial Pelican

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This powerful waterless model is designed to meet the needs of industrial customers who sweep heavy, dry materials and need to keep dust emissions to a minimum. It offers the same patented waterless dust control system as our Waterless model, plus:

- Patented filtration system that directs the majority of airborne dust into the debris hopper with only a fraction of the dust making it to the filter
- Full filters can be mechanically cleaned with an on-board cleaning system that allows sweeping to continue
- Fully sealed cab includes a filtered fresh air intake and re-circulation
- Conveyor launch ramp aids in picking up fine debris types
- Dirt shoe “wings” allow for effective sweeping on rail crossings
- 3.5 cu yd (2.30 m<sup>3</sup>) high front dumping hopper is ideal for unloading sweepings into containers or dump trucks

## Waterless Pelican

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Where water conservation is a concern, the Waterless Pelican offers all the performance and features that set our equipment apart. Its offers you:

- Patented waterless dust control system includes a dust skirting system, dust separator in the hopper, and a dust control fan with a maintenance-free filter that work together to control fugitive dust without the use of spray water
- Improved pick-up of fine particles over traditional wet dust control sweepers
- Proven year-round sweeping including freezing weather conditions
- Elimination of mud buildup on components
- More uptime by eliminating the need to repeatedly fill the water tank for traditional dust control

## Alternative Fuel Pelican

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**Hybrid** - The plug-in hybrid electric Pelican is another example of Elgin Sweeper’s ongoing commitment to help customers reduce their carbon footprint, improve air quality, and mitigate climate change.

- Uncompromised performance
- Always available - no range limitations
- Reduced fuel consumption
- Seamless and automatic transition between hybrid and conventional modes
- Charge on-the-go or with a Level 2 (240 VOC) SAE J1772 charging receptacle
- Lithium-ion battery for long duty cycle operation



# OUR COMMITMENT TO QUALITY ONLY BEGINS WITH OUR EQUIPMENT

The Elgin Pelican is manufactured in a 208,000 sq ft (19,350 m<sup>2</sup>) ISO:9001 certified, state-of-the-art industrial plant that employs the latest technology. To build the most reliable equipment, Elgin utilizes advanced CNC equipment, high-precision laser cutters, and a sophisticated powder coating system.

Because we build a better product, we back it up with a full one-year, unlimited hours warranty. Elgin also backs up your investment with superior, 24/7 local service and support. Our goal is to keep your machine—and your entire operation—up and running.

Through our international dealer network, we maintain a vast inventory of spare and maintenance parts and offer fast shipment to all corners of the world.

Altogether, the rugged, reliable Elgin Pelican is easy to operate, easy to maintain, and an easy choice when you are looking for quality equipment that is built to last.



## Pelican® - 3-Wheel, Mechanical Sweeper Specifications

Drive System	Electrical System	Dust Control System	Hopper	Conveyor
<p><b>Make</b> John Deere 4045 Tier 4 Final <b>Type</b> 4 cylinder <b>Displacement</b> 276 cu in (4.5 L) <b>Horsepower</b> 74 hp (55kW) @ 2,400 RPM <b>Torque</b> 274 ft-lbs (372 Nm) @ 1,400 RPM <b>Aspiration</b> Turbo charged</p>	<p><b>Wires</b> Hot stamped and color coded wiring, alternator/regulator-unitized, 95 A <b>Battery</b> 12 volt, group 31, 925 CCA, 180 min. reserve. <b>Lights</b> Halogen sealed multiple beam headlights, combination stop and tail lights, adjustable side broom lights, directional signals with hazard switch. Safety horn, electronic back up alarm, sweep flashers.</p>	<p><b>Tank Construction</b> Polyethylene <b>Tank Capacity</b> 220 gal (832 L) <b>Fill Hose</b> 16 ft 8 in (5080 mm) with hydrant coupling <b>Pump</b> Diagram with run dry capability <b>Spray Nozzles</b> Atomizing, adjacent to each broom</p>	<p><b>Sweep System Pump</b> Variable displacement <b>Capacity</b> 13.6 GPM <b>Fittings</b> O-ring face seal type <b>Reservoir Capacity</b> 33 gal (106 L) <b>Inlet Strainer</b> 100 mesh <b>Return Filter</b> 10 micron absolute, full flow</p>	<p><b>Type</b> Chevron cleat reinforced rubber belt <b>Speed</b> Variable with engine RPM <b>Flexibility</b> 9 in (229 mm) oscillation for large object passage <b>Drive</b> Hydraulic motor, chain and sprocket drive <b>Bearings</b> Sealed self-aligning, re-lube</p>

# PELICAN®

**DURABLE.**  
**MANEUVERABLE.**  
**RELIABLE.**  
**UNBEATABLE.**

The Elgin® Pelican® broom sweeper is a three-wheel mechanical sweeper based on one of the original street sweeper designs, which has been continuously improved since 1914, meeting the highest sweeper standards. Maneuverability, visibility, economy, serviceability, and single-lane dumping with a sweep system that easily handles heavily compacted dirt and bulky debris are all features of the Elgin Pelican. An isolation-mounted cab provides a cleaner, quieter operation, and the improved 360-degree visibility and easier access for service and maintenance make the Elgin Pelican an industry leader in street sweepers.

- Incredible ease of operation with 360° visibility
- Simplified maintenance with access to service points
- Isolation-mounted cab for cleaner, quieter, more comfortable operation
- An industry leading warranty
- Strong, local service and support



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