

# ELGIN Pelican®

## With Waterless Dust Control



The legendary Pelican® three-wheel broom street sweeper is now available with waterless dust control.

The Pelican with 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. The Pelican's standard features include:

- **Outstanding maneuverability:** for quick turns and sweeping close to obstacles.
- **No jam debris conveyor:** to move large debris without jamming.
- **Variable height front dump hopper:** for single-lane dumping from ground level up to 9' 6".
- **Durable, purpose-build chassis:** provides reliable, low-maintenance operation and stable sweeping and dumping.
- **Efficient comfortable cab:** isolation mounted cab for a cleaner, quieter, more comfortable operating environment - large windows, wide see-through doors and a full-width windshield for 360 degree visibility.

**Dry Dust Control System:** The Pelican with dry dust control features a patented dust control system that includes a dust skirt-ing 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.

For more information or to schedule a demonstration, contact your local Elgin dealer or visit [www.elginsweeper.com](http://www.elginsweeper.com) to locate a dealer near you.

## Sweep System - Power

### Engine

**Make** John Deere 4045TF150  
**Type** 4 cylinder diesel  
**Displacement** 276 cu. in. (4.5 L)  
**Bore** 4.19 in (106.43 mm)  
**Stroke** 5.0 in (127 mm)  
**Compression ratio** 17:1  
**Horsepower** 99 HP (74 kw) @ 2,500 RPM  
**Torque** 274 ft-lbs (372 Nm) @ 1,400 RPM  
**Fuel tank capacity** 35 gal (132.5 L)

## Sweep System - Components

### General Specifications

**Wheel Base** 127.4 in (3236 mm)  
**Overall Length** 16 ft 0 in (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)  
**Weight:**  
**One side broom** 13,590 lbs (6170 kg)  
**Two side brooms** 14,290 lbs (6482 kg)  
**Travel speed** Up to 20 mph (32 Km/h)  
**Hydrostatic drive** Single foot pedal for forward/reverse  
**Hydraulic service brakes**  
**Tires:**  
**Front** 11R22.5 14ply (2)  
**Rear** 10R17.5 16 ply (2)  
**Wheels:**  
**Front** Steel disk type  
**Rear** Dual steel disk type mounted on alloy steel axle  
Sprung guide wheel

### Cab

**Type** ISO mounted  
Structural steel tube frame  
Sealed with 100% filtered air intake. Sound insulated  
**Doors** See-thru with sliding upper windows  
**Opening** From rear  
**Dust protection** Rubber gasket sealed  
**Windows** Safety glass with tinted windshield and tinted sun visors, 360° visibility  
Tinted upper glass  
**Dome light**  
**Heater pressurizer with defroster** Multi-vent air disbursement  
**Windshield wipers** 2 speed intermittent, with washers, stalk actuation  
**Mirrors** Inside (1); outside, dual west coast with convex inserts and (2) 10 in. oval  
**Seat(s)** 21" wide deluxe foam cushion with belt(s)  
**Steering** Tilt and telescoping steering column

## Available Enhancements

Waterless Dust Control	Beacon light with protector
Dual controls - right and left side brooms, seats, and operator controls for operation from either side for sweeping in direction of traffic	Strobe light with protector
Remote adjustment heated mirrors	Electric side broom tilt indicator
Side broom tilt	Broom hours and mileage recorder
Automatic lubrication system	Diesel cold weather start aid
Lifeline® hopper liner	Limb guards
Air conditioner in-cab	Extended warranty
	Sliding rear window
	Litter hose

### Standard Accessories

Full flow oil filter, mechanical governor, dual safety element dry-type air cleaner with in-cab restriction indicator, fuel filter, counterbalanced, wet sleeve

### Instrumentation

**Panel** Full vision, illuminated  
**Gauges** Speedometer/odometer, tachometer, engine hour meter, engine temperature, oil pressure, voltmeter, fuel, hydraulic oil temperature and water fill

### Main Broom

**Diameter** 35 in (889 mm)  
**Length** 66 in (1676 mm)  
**Type** Prefab. disposable, polypropylene double wrapped at both ends  
**Core** Steel reversible  
**Digging pressure & wear control** in cab  
Hydraulic float  
**Lift control** In cab hydraulic raise and lower  
**Drive** Hydraulic motor  
**Mounting** Hydraulic cylinder suspended  
**Speed** Variable with engine RPM

### Gutter Broom

**Type** Vertical digger  
**Diameter** 36 in (914 mm)  
**Disc construction** Steel plate  
**Speed** Variable with engine RPM  
**Flexibility** In-cab positioning hydraulic float  
**Drive** Hydraulic motor  
**Mounting** Free floating  
**Adjustment** In/out (recoil spring), up/down  
**Digging pressure/wear control**  
Hydraulic, in cab, pressure sensing  
**Broom material** Oil tempered steel wire

### Conveyor

**Type** Chevron cleat reinforced rubber belt  
**Speed** Variable with engine RPM  
**Flexibility** 9 in. (229 mm) oscillation for large object passage  
**Drive** Hydraulic motor, chain and sprocket drive  
**Bearings** Sealed self-aligning, re-lube

### Debris Hopper

**Capacity volumetric** 3.6 yd<sup>3</sup> (2.8 m<sup>3</sup>)  
**Material volume** 3.5 yd<sup>3</sup> (2.6 m<sup>3</sup>)  
**Hopper lift and dump control** Electro-hydraulic in-cab  
**Maximum dump height** Up to 9 ft 6 in (2895 mm)  
**Time to tilt hopper** 17 seconds  
**Time to retract to working position** 21 sec  
**Design lift capacity** 9,000 lbs (4,080 kg)  
**Frontal dumping** Standard

## Finish

**Powder Coat:**  
Undercarriage in standard Elgin gray  
Body in choice of 186 colors  
Consult factory for color chart

## Chassis

Chassis is fully welded; formed channel and boxed tube style with jack points

## Your Elgin Dealer is:



Printed in U.S.A. ©2009 Federal Signal Corporation  
Federal Signal Corporation is listed on the NYSE by the symbol FSS

## Electrical System

Hot stamped and color coded wiring, alternator/regulator-united, 120 ampere  
**Battery** - 12 volt, group 31, 925 CCA, 180 min. reserve.  
**Lights** - 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.

### Hydraulic System

**Hydrostatic Drive** Electronically controlled  
**Variable displacement pump**  
**Variable displacement motor**  
**Fittings** 'O' ring face seal type  
**Reservoir capacity** 33 gal (106 L)  
**Reservoir level** Externally readable  
**Inlet strainer** 100 mesh  
**Filter** Return 10 micron absolute, full flow  
**Filter restriction indicator** In cab  
**Breather/Fill Cap** 10 micron

### Brake System

**Service**  
Multi-Caliper disc type  
Hydraulically applied  
Power assisted  
**Park**  
Wet Disc multi pack with spring applied hydraulically released push/pull activation  
Interlock to prevent drive through if applied

### Dry Dust Control System

Centrifugal dust evacuation fan. Large envelope filter with hydraulic shaker for dust removal.  
Dust control skirts on side and main brooms.

## Warranty

### Sweeper

Elgin Sweeper Co. backs the pelican 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. Consult your Elgin Dealer for complete warranty details.

### Engine

Consult factory

**ELGIN**  
Subsidiary of Federal Signal Corporation



Elgin Sweeper Company  
1300 W. Bartlett Rd.  
Elgin, Illinois, U.S.A. 60120-7529  
847-741-5370 Phone  
847-742-3035 Fax  
www.elginsweeper.com

Effective 4/09

Specifications subject to change without notice

P/N: 0705334-C