

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 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 yd³ (2.8 m³)
Material volume 3.5 yd³ (2.6 m³)
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:

 Joe Johnson Equipment <small>Subsidiary of Federal Signal Corporation</small>	1.800.263.1262 jjei.com info@jjei.com
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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



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Specifications subject to change without notice

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