



ELGIN PELICAN® WITH COMPRESSED NATURAL GAS CONFIGURATION

The popular Pelican – three-wheel broom sweeper – features outstanding maneuverability, visibility, a 10 ft. sweeping path, 9 ft. 6 in. high dump frontal hopper, and the heavy duty No-Jam chevron conveyor belt. The alternative fuel, single-engine Pelican is powered by the near-zero Cummins® B6.7N engine: NOx levels 90% below current EPA standard, Particulate Matter (PM) levels 90% below current EPA standard, CO2 equivalents 16% below current EPA standard, and can achieve sub-zero emissions when using Renewable Natural Gas (RNG).

Compressed Natural Gas (CNG) is economical, abundant in supply, and produces a fraction of the pollutants normally emitted by traditional gasoline or diesel engines. The combination of the Elgin Pelican and a clean burning CNG fueled engine is an environmentally sound solution to your sweeping needs.

For more information or to arrange a demonstration please contact your local Elgin dealer or visit us at elginsweeper.com. Information on the new Cummins B6.7N engine can be found at cummins.com.

AVAILABLE ENHANCEMENTS

- Heated and motorized mirrors
- Side broom tilt
- Automatic lubrication system
- Lifeliner® hopper liner
- Beacon light with protector
- Strobe light with protector
- Broom hours
- Limb guards
- Extended warranty
- Sliding rear window
- Air suspension seat(s)
- PM10 Dust Suppression
- Mechanical Main Broom Suspension



Your Elgin Dealer is:



SWEEP SYSTEM – POWER**ENGINE**

Make Cummins B6.7N
Type 6 cylinder
Displacement 409 cu. in. (6.7 L)
Bore 4.21 in (107 mm)
Stroke 4.88 in (124 mm)
Compression Ratio 17.3:1
Horsepower 200 HP (149 kw) @ 2,400 RPM
Torque 520 ft-lb (705 Nm) @ 1,600 RPM
CNG Fuel Tank Capacity
 122.8 U.S. gal (465 L)
Diesel Fuel Equivalent for all fuel types
 35 U.S. gal (132.5 L)
Methane Detection System;
 One (1) in-cab and one (1) engine compartment mounted sensors

STANDARD ACCESSORIES

Full flow oil filter, electronic governor, dual safety element dry-type air cleaner with engine mounted restriction indicator, fuel cleaner, and CNG tanks equipped with extended range regulator

INSTRUMENTATION

Panel Full vision, illuminated
Fuel Control Panel with Blue iQ™
Gauges Speedometer/odometer, tachometer, engine hour meter, engine temperature, oil pressure, voltmeter, hydraulic oil temperature, water level, and on-board diagnostics.

ELECTRICAL SYSTEM

Hot stamped and color coded wiring, alternator/regulator-unity, 160 ampere
Battery 12 volt, group 31, 1000 CCA, 180 min. reserve, with disconnect switch.
Lights halogen sealed multiple beam headlights, LED combination stop and tail lights, adjustable LED side broom lights, directional signals with hazard switch.
Safety horn, electronic back up alarm, back up camera, and sweep flashers.

SWEEP SYSTEM – COMPONENTS**GENERAL SPECIFICATIONS**

Wheel Base 155.5 in (3949 mm)
Overall Length 18 ft 4 in (5628 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 18 ft 3 in (5562 mm)
Sweeping Path
One Side Broom 8 ft (2438 mm)
Two Side Brooms 10 ft (3048 mm)
Weight
One Side Broom 15,300 lb (6955 kg)
Two Side Brooms 16,000 lb (7272 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 load range H (2)
Rear 215/75R 17.5 load range H (2)
Wheels
Front Steel disk type
Rear Dual steel disk type mounted on alloy steel axle
Guide wheel with rear swing-arm suspension

CAB

Type
 ISO mounted
 Structural steel tube frame
 Sealed w/ 100% filtered air intake, sound insulated
Doors Full view glass
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
Mirrors Inside (1); outside, dual west coast with convex inserts and (2) 10 in oval
Seat(s) 21 in wide deluxe foam cushion with belt(s)

Steering Tilt and telescoping steering column
In-Cab Air Conditioning

MAIN BROOM

Diameter 35 in (889 mm)
Length 66 in (1676 mm)
Type Prefab. disposable, polypropylene double wrapped at both ends
Core Steel reversible
Dirt Shoes rubber with greaseable pivot
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 Tempered steel wire

CONVEYOR

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
 Electrohydraulic in-cab
Maximum Dump Height Up to 9 ft 6 in (2895 mm)
Time to Tilt Hopper 17 sec

Time to Retract to Working Position 21 sec
Design Lift Capacity 9,000 lbs (4,080 kg)
Frontal Dumping Standard

HYDRAULIC SYSTEM

Hydrostatic Drive Electronically controlled
Variable Displacement Pump
Variable Displacement Motor
Fittings 'O' ring face seal type
Reservoir Capacity 33 gal (125 L)
Reservoir Level Externally readable with low level & high temp alarm and engine shutdown
Inlet Strainer 100 mesh
Filter Return, 10 micron absolute, full flow
Filter Restriction Indicator In cab
Breather/Fill Cap 10 micron

WATER SPRAY SYSTEM

Tank Construction Polyethylene
Tank Capacity 220 gal (832 L)
Fill Hose 16 ft 8 in (5080 mm) with hydrant coupling and double jacket accessory
Wash Down Integral cascade hopper/conveyor wash and lower roller
Pump Diagram with run dry capability
Spray Nozzles Atomizing, adjacent to each broom
Controls On/off, volume high/low in-cab
Filter Non-corrosive housing, 100 mesh screen
 Cleanable anti-siphon fill standard

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
Ecolnfused Technology®
 Combining science and innovation to produce more environmentally efficient products

FINISH

UNDERCARRIAGE:
 Grey powder coat
BODY:
 High gloss powder coat
 Custom colors available

CHASSIS

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

WARRANTY

SWEeper
 1 year parts and labor
ENGINE
 Consult factory



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