



Broom Bear®

Single Engine CNG Alternative Fuel



3600 PSI Composite Fuel Tanks



Conveniently Located Fill Door

Low Emissions - Highly Economical Single Engine

The Elgin Broom Bear is now available powered by compressed natural gas. This means that a popular, commercial chassis, single engine mechanical sweeper is finally available. This rugged, mechanical sweeper is powered by the state of the art Cummins Westport L9N N-Gas natural gas engine making the Broom Bear a fully certified EPA/CARB emission standards single engine street sweeper. The Broom Bear can also be SCAQMD rule 1186 compliant with the optional PM-10 package. With it's three 3600 psi composite fuel tanks, the Broom Bear has a generous 51 gallon diesel equivalent fuel capacity giving a sweeping range even beyond the standard diesel Broom Bear. The Elgin Broom Bear is still tough on dust and debris while being easy on operators, but is now also easy on the environment.



Optional In-Cab Mounted Methane Detection

For more information or to schedule a demonstration, contact your local Elgin dealer or visit www.elginsweeper.com to locate a dealer near you.

CNG Engine

Engine

Make Cummins Westport L9N N-Gas
charge air cooling
Type In-line, 6 cylinder
Displacement 540 cu. in. (8.9 L)
Horsepower 260 hp @ 2000; 2200 RPM GOV
Peak Torque 660 ft./lbs. @ 1300 RPM

Chassis

Mounted on Freightliner M2 or Autocar Xpert
Contact your Elgin dealer for detailed
Chassis specifications

General Specs

Sweep Path:
Main broom only: 60"
Main broom & one side broom: 90"
Main broom and 2 side Brooms: 120"
Chassis Commercial Class 7
Wheel Base Chassis dependent
Warranty Sweeper, 1 year parts & labor

Main Broom

Type Prefab disposable
Polypropylene filled
Diameter 34" (864 mm)
Broom Material Polypropylene
Length 60" (1524 mm)
Core Type Disposable steel tube
Speed Constant
Drive Hydraulic motor with direct drive
Digging Pressure & Wear Control
Variable geometry spring
Lift Control Hydraulic
Mounting Full-floating trailing arm

Side Broom

Type 5 or 6 segment plastic disposable
Diameter 46" (1188 mm)
Broom material 26" wire (660 mm)
Disc Construction Steel
Speed Adjustable on side of machine
Drive Full hydraulic
Digging Pressure & Wear Control
Pneumatic, from cab
Lift Control Pneumatic
Flexibility Free-floating and full
sideways oscillation
Mounting Trailing Arm

Engine Accessories

Spin-on CNG filter/water separator
18.7 SCFM air compressor
Spin -on full flow/bypass oil filter
Air intake warmer
Engine block heater
Viscous fan drive
Auto shutdown protection

Conveyor

Type Squeegee with replaceable
rubber edging
Material (elevator bottom) Bolt-in
multi section abrasion resistant
steel plates
Speed Constant, forward and reverse
Flexibility Lift independent (for large
object passage)
Drive (forward and reverse)
Hydraulic motor
Adjustment Hydraulic chain adjuster
Lift Control Hydraulic (independent of
rear broom)
Ground Clearance Lifiable to 12"
(305 mm) for bulk object passage
Cascade Washdown With fill diverter

Instrumentation/Controls

Warning Lamps & Buzzer
Low hydraulic oil
Conveyor stall
Warning Lamps
Hydraulic oil temperature
Hydraulic oil filter restriction
Low water spray
Broom position
Hopper position
Water tank level

Electrical System (Chassis)

Twelve Volt Negative Ground System
160 amp alternator
Battery 2- Group 31, 1850 CCA
Circuit Protection Activated by ignition switched
constant duty solenoid (except lights)
Wiring Hot stamp identified with
weatherproof connectors

CNG Fuel System

51.2 Gallon Diesel Equivalent
Three aluminum core, filament wound,
3600 psi gas cylinders
3600 psi nominal service pressure
50 scfm high flow CNG filter with coalescing
and particulate elements
Stainless steel fuel lines
Meets all North American and international
NGV system standards

Hydraulic System

Sweep System Pump Variable displacement
Capacity 22 GPM
Fittings O-ring face seal
Reservoir Capacity 23 gal
Inlet Strainer 100 mesh
Return Filter 6 micron
Filter Restriction Indicator
Breather 10 micron
Cooler Externally mounted
Valves Electro-hydraulic

Hopper

Volumetric Capacity 4.5 yd³ (3.4 m³)
Material Volume 3.3 yd³ (2.5 m³)
Hopper Lift and Dump Controls
Electro/hydraulic in cab
Inspection Door
Offload
Right Side
Minimum dump height 38"
(965 mm)
Maximum dump height 11' 2"
(3404 mm)
Maximum hopper dump angle 50°
Design lift capacity 11,000 lbs
(4,990 kgs)
Lifting mechanism Two stage scissors with
hydraulic cylinders

Water Spray System

Tank Construction Polyethylene
Tank Capacity 360 gallons (1362 L)
Fill Hose 15' 0" (4572 mm) with 2.5"
(64 mm) NST hydrant coupling
Pump Electric diaphragm
Spray nozzles 3 across main broom
and over each gutter broom
Water Filter 80 mesh plastic housing
Controls In cab pump control and
flow control valves at each side broom

Your Elgin Dealer is:

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Specifications subject to change without notice