

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 ISL G natural gas engine making the Broom Bear a fully certified 2010 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 its 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.



For more information or a demonstration, please contact your local Elgin dealer.



Conveniently located fill panel



Easy fuel system service at rear of sweeper



CNG Engine

Engine

Make Cummins Westport ISL G
charge air cooling
Type In-line, 6 cylinder
Displacement 540 cu. in. (8.9 L)
Horsepower 260 HP @ 2200 rpm
Peak Torque 660 ft./lbs. @ 1300 RPM

Chassis

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

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.

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.

Sweep System - Components

Main Broom

Diameter 34 1/2" (876mm)
Length 58" (1473)
Type Cable wrap polypropylene filled
Filament length 26" (660mm)
Lift control Hydraulic
Drive Hydraulic motor through chain and
sprocket
Speed constant
Mounting Full spring floating with variable
geometry
Bearings Self aligning

Gutter Broom

Diameter 44" (1188mm)
Type 4 or 5 segment plastic disposable with
vertical digging wire fill
Disc construction Steel plate
Speed constant forward
Flexibility Free floating and full sideways
oscillation
Drive Direct hydraulic
Adjustment Tilt in/out, forward/ backward and
sweep path width
Digging Pressure/Wear control
Pneumatic, from cab
Lift control Pneumatic

Dirt Conveyor

Type Squeegee with replaceable rubber edging
Material (elevator bottom) Bolt-in 2 piece abra-
sion resistant steel plates
Speed Constant, forward and reverse

Flexibility Lift independent (for large object
passage)
Drive (forward and reverse)
Hydraulic motor
Lift control Hydraulic (independent of rear
broom)
Bearings
Self-aligning
Elevator chain, constant radius chain and sprock-
et steel chain on urethane sprockets.

Debris Hopper

Capacity, volumetric 4.5 yd³ (3.4 m³)
Material volume 3.3 yd³ (2.5 m³)
Hopper and dump controls
Electro/hydraulic in cab
Maximum dump height 10' (3048mm)
Minimum dump height 38" (965 mm)
Body to discharge door at dumping height 2' 3"
(686 mm)
Maximum hopper dump angle
50 degrees
Dump cycle 70 seconds
Lift mechanism Two stage scissors with
hydraulic cylinders
Design lift capacity 11,000 lbs. (5000 kgs)

Constant Pressure Water System

Capacity of tank 350 gallons (1325 L)
Water fill hose 15' 0" (4572 mm) with 2.5" (64
mm) NST hydrant coupling
Pump Electric centrifugal type

Spray nozzles Across front bumper and over each
gutter broom
Controls Independent valves
Filter Plastic housing - fine mesh screen
Water tank Corrosion resistant polymer with
manhole cover

Vehicle Hydraulic System

Pump Variable displacement piston type with
controlled flow for all rotation and lift functions,
load sensing hydraulics

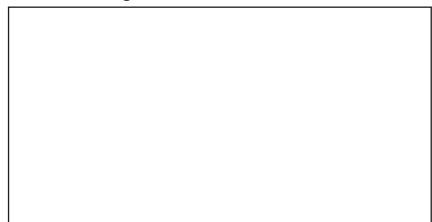
Electrical System

Twelve volt negative ground system with 160 amp
alternator driven by propulsion engine. Battery: 2-
925 CCA. All circuits protected by manual reset
circuit breakers.

Warranties

Chassis OEM supplied
Engine OEM supplied
Transmission OEM supplied
Rear axle OEM supplied
Sweeper 1 year parts and labor

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



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 2/09
Specifications subject to change without notice

P/N: 0705320-D