

# ELGIN

## HYBRID Broom Bear®



Rear Compartment



Battery System

## TOUGH ON DEBRIS. EASY ON THE ENVIRONMENT.

The plug-in, hybrid electric Broom Bear sweeper consumes dramatically less fuel relative to the baseline Broom Bear, while maintaining overall sweep performance. The hybrid sweeper's low noise level is an added benefit for the operator, and especially for residents living in areas where sweepers routinely operate.

### Why Plug-in Hybrid Electric?

- Uncompromised performance
- Always available - no range limitations
- Reduced fuel consumption
- Seamless and automatic transition between hybrid and conventional systems
- 360 Gallon water capacity
- Charge on-the-go or with an SAE J1772 charging receptacle
- Lithium-ion battery for long duty cycle operation
- Available in diesel or Compressed Natural Gas (CNG)



Plug-in Charging

*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.*

**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** 136"  
**Warranty** Sweeper, 1 year parts & labor

**ENGINE (FREIGHTLINER M2 CNG)**

**Make** M2 Cummins L9N  
**Type** 6 cylinder  
**Displacement** 8.9 L  
**Horsepower** 260 @ 2200 RPM  
**Torque** 860 lb. ft. (1,166 Nm)  
**Aspiration** Turbo charged

**MAIN BROOM**

**Type** Prefab disposable  
**Polypropylene** filled  
**Diameter** 34" (864 mm)  
**Length** 60" (1,524 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  
**Mounting** Free floating trailing arm  
**Motion Pneumatically** inward/outward, raised/lowered

**AVAILABLE ENHANCEMENTS**

- Chevron conveyor belt
- LifeLiner® Hopper Lining
- Outside cab, side broom down pressure control
- LED strobe
- Arrow stick
- Automatic lubrication system
- Broom camera system (rear standard)
- Front spray bar
- Lighting packages
- In cab side broom tilt and extended reach

**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)**

**Voltage** 12 V.D.C. / negative ground  
**Alternator** 160 amp  
**Battery 2** Group 31, 1850 CCA  
**Circuit Protection** Activated by ignition switched constant duty solenoid (except lights)  
**Wiring** Hot stamp identified with weatherproof connectors

**HYDRAULIC SYSTEM**

**Sweep System Pump**  
 Variable displacement  
**Capacity** 15.3 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

**PAINT**

**Body:** High-gloss white powdercoat  
**Custom colors available**  
 Undercarriage: Grey powdercoat

**CHASSIS**

Freightliner M2.  
 Contact your Elgin Dealer for detailed chassis specifications.

Your local Elgin Dealer is:



**HOPPER**

**Volumetric Capacity** 4.5 yd<sup>3</sup> (3.4 m<sup>3</sup>)  
**Material Volume** 3.3 yd<sup>3</sup> (2.5 m<sup>3</sup>)  
**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" (3,404 mm)

**Maximum hopper dump angle** 50°  
**Design lift capacity** 11,000 lb(4,990 kg)  
**Lifting mechanism** Two stage scissors with hydraulic cylinders

**WATER SPRAY SYSTEM**

**Tank Construction** Polyethylene/SS  
**Tank Capacity** 360 gallons (1,363 L)  
**Fill Hose** 15' 0" (4,572 mm) with 2.5" (64 mm) NST hydrant coupling  
**Pump** Electric diaphragm  
**Spray Nozzles** 3 total: 3 main broom, 3 left, 3 right side brooms  
**Water Filter** 80 mesh / plastic housing  
**Controls** In cab pump control and flow control valves at each side broom

**HYBRID SYSTEM**

**Architecture** Parallel - electric or mechanical drive  
**Mode Selection** None - fully automated  
**Battery Type** Lithium Ion / high voltage  
**Controls** Battery Management System  
**Plug-in Charging** Level 2 (J1772) 6.6 kW or higher recommended  
**Pause Sweep** Energy Conservation System

**WARRANTY**

**SWEEPER**  
 1 year parts and labor

**ENGINE**  
 Consult Factory

**HIGH-VOLTAGE BATTERY**  
 Consult Factory



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