

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 to locate a dealer near you.

GENERAL SPECS

Sweep Path

- Main broom only 60"
- Main broom & one side broom 120"
- Main broom and 2 side Brooms 120"
- Chassis Commercial Class 7
- Wheel Base 136"
- Warranty Sweeper, 1 year parts & labor

ENGINE (FREIGHTLINER M2 DIESEL)

- Make M2 Cummins L9
- Type 6 cylinder
- Displacement 8.9 L
- Horsepower 260 @ 2200 RPM
- Torque 860 lb. ft. (1,166 Nm)
- Aspiration Turbo charged
- *Compressed Natural Gas (CNG)
Chassis Available

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
Closed loop hydraulic 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

ELECTRICAL SYSTEM (CHASSIS)

- Voltage 12 V.D.C. / negative ground
- Alternator 160 amp
- Battery 2 Group 31, 1850 CCA
- Circuit Protection Automotive style blade fuse
- Wiring Hot stamp identified with weatherproof connectors

HYDRAULIC SYSTEM

- Sweep System Pump
Variable displacement
- Capacity 15.4 gpm
- Fittings O-ring face seal
- Reservoir Capacity 23 gal
- Inlet Strainer 100 mesh
- Return Filter 6 micron

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:



- 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" (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 Standard SAE J1772 socket (automotive) Level 2 (240 VAC)
- Pause Sweep Energy Conservation System

WARRANTY

SWEeper

- 1 year parts and labor

ENGINE

- Consult Factory

HIGH-VOLTAGE BATTERY

- Consult Factory



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Specifications subject to change without notice.
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