

# ELGIN®



# BROOM BEAR®

# Tough on Debris. Easy on the Operator.



When contractors and municipalities need a durable sweeper that's easy and comfortable to operate, the Elgin Broom Bear is the sweeper of choice. From heavy-duty construction debris to light street maintenance, Broom Bear has proven to be one of the most rugged and efficient sweepers in the industry.

Equipped with a high torque diesel engine in a Freightliner business class M2 106 or International Durastar chassis, it's never short on muscle. But the real strength of Broom Bear is its intelligent single engine design. With a powerful collection of features and innovations, this sweeper gives operators the flexibility to take on any application with ease.

Built with a large hopper and increased water capacity, Broom Bear reduces the number of stops throughout the day. Plus, with variable dumping height and 11 inches (279 mm) of side-shift capability, operators are able to enjoy cleaner, more efficient dumping action.

A short wheelbase and large brooms make Broom Bear ideal for operating in tight cul-de-sacs. Its dual trailing arm side brooms adjust to variable surfaces while the fully floating main broom is designed to take on the toughest road obstacles – even protruding manhole covers.

With its flexibility, innovative design and built-in durability, the Elgin Broom Bear brings efficiency and superior sweeping performance to:

- Residential street maintenance
- Road construction clean up
- City/highway maintenance
- General urban street sweeping
- Milling and chip and seal road construction
- State highway and tollway cleaning





#### **Commercial chassis/single engine**

A high torque diesel engine is teamed with a Freightliner Business Class or International Durastar chassis to create one of the most powerful and reliable single engine packages in the industry. The straight forward, single engine layout provides greater fuel efficiency and simple maintenance. (Consult factory for other chassis options).

#### **Power train**

An Allison 3500 RDS transmission, a 10,000 pound (4536 kg) front axle and a 23,000 pound (10433 kg), twin air spring suspension 2-speed rear axle complement the powerful single engine and provide the operator with hours of comfortable ride.

#### **Side Brooms**

Large 46-inch (1168 mm) dual free-floating trailing arm side brooms offer four-way motion, along with steel plate sideways construction to protect against obstacles. The brooms are hydraulically driven and a load sensing system controls a constant broom rotation speed regardless of engine RPM or ground speed. Pneumatic lift and extension control provide unique sweeping action in front of the main broom. Plus the brooms extend out from 110" (2794 mm) to 144" (3657 mm) when both are activated making it easy to reach deep into curves, cul-de-sacs and other tight areas.

#### **Main Broom**

The main broom is attached to a fully floating trailing arm to better conform to road contours. Productivity is enhanced with automatic settings for down pressure, and wear control. Lift and lower functions are controlled from the cab, as are main broom down-pressure controls. Main broom arm bearings are sealed, can be re-lubricated and are self-aligning for self-adjustment when experiencing an uneven load which decreases wear and increases main broom life.

#### **Variable height dump**

The standard variable height dump feature allows operators to unload from ground level to dump truck height and anywhere in between. With its side shift capability, the hopper can shift to the right 11 inches (279 mm), allowing for material to be unloaded into the center of a truck or container. The dump system is powered by a unitized, twin cylinder, double-scissors lift for maximum strength, rigidity and trouble-free operation. With a lift capacity of loads up to 11,000 pounds (4990 kg), the hopper can be raised to full height, dumped and retracted in as little as 70 seconds.

### Short Wheelbase

The Broom Bear provides a tight, 19 foot (5.8 M) turning radius. This increases maneuverability and makes the Broom Bear ideal for sweeping in narrow streets and cul-de-sacs.

### Large hopper

The hopper capacity of 4.5 cubic yards (3.44 cu m) volumetric and 3.3 cubic yards (2.5 cu m) of material is one of the largest in its class. All hopper lift and dump controls are hydraulic and easily operated from inside the cab. A 50-degree dump angle provides efficient off-loading of material.

### Conveyor system

A steel roller chain drives an 11-flight, squeegee-type conveyor to load debris into the hopper. The chain operates on polyurethane sprockets, which last longer. Conveyor speed is constant and matched to the broom speed for optimal loading performance. Conveyor operating height can be raised from the cab up to three inches to avoid larger debris and other obstacles. Conveyor bearings are sealed and self-aligning for longer life.

### Hydraulic System

The Broom Bear features a 23 gallon (87 l) reservoir with an external level indicator and thermometer. The system includes twin pumps that are direct driven variable displacement piston type with load sensing to adjust flow based on hydraulic oil demand in sweeping gear to maximize efficiency and reduce heat.

### Dust Control Water System

Three separate tanks provide 360 gallons (1363 l) of water for dust suppression which allows operators to make fewer scheduled stops. The polyethylene construction provides maximum protection against rust and corrosion. Water flow control for the side and main brooms is located in cab, along with a low water indicator. There are three spray nozzles positioned over each side broom, and four in front of the main broom. An optional front spray bar is available.

### Controls

The control panel is centrally mounted on the transmission tunnel, making it accessible and easily viewed from both the left and right operator stations. All sweep, dump, spray water and hopper operations are controlled from this console. Conventional rocker switch controls allow operators to work by feel, enabling them to maintain visual contact with the work area outside.





### LifeLiner® Hopper System

The LifeLiner® hopper system is a specially designed hopper liner and finish system that greatly improves the life, durability, and functionality of a sweeper hopper.



### Lighting Packages

The Broom Bear Sweeper can be equipped with a variety of optional lighting packages. The lighting packages are designed for flexibility based on customer requirements and can include strobes, beacons, and arrow sticks.

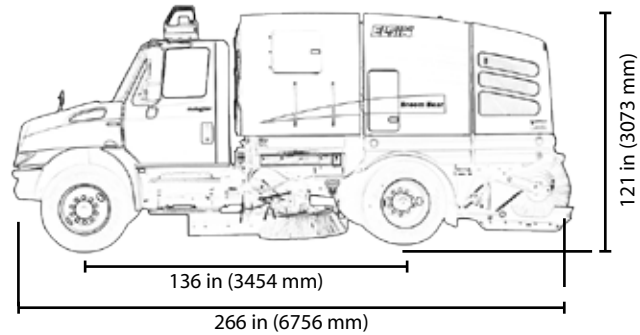


### In-Cab Side Broom Tilt

Allows the operator to sweep effectively in variably-pitched gutters. On-the-go pitch adjustment with a simple variable rocker switch ensures proper broom angle.

### Additional Options

- LH fender mirror
- Radio
- Arrowstick
- Cab beacon/strobe
- Rear beacon/strobe
- Auto lube
- Front spray bar
- Variable speed/reversing brooms



### Value Added Services

Elgin's commitment to the customer continues long after the sale.

- Factory-trained worldwide dealer network
- Genuine Performance Matched Parts
- Elgin Training Center
- Highest resale value in the industry

### Warranty

Elgin Sweeper Company backs the Broom Bear sweeper with a one-year limited warranty. The Broom Bear is warranted against defects in material or workmanship for a period of 12 months from the date of delivery to the original purchaser. Optional extended warranty packages are available. Consult your Elgin dealer for complete warranty information.

Your Local Elgin Dealer is:



Elgin Sweeper Company  
 Subsidiary of Federal Signal Corporation  
 1300 W. Bartlett Road  
 Elgin, Illinois, U.S.A. 60120-7529  
 (847) 741-5370 Phone  
 (847) 742-3035 Fax  
[www.elginsweeper.com](http://www.elginsweeper.com)

### ISO-9001 Advantages

The Broom Bear is manufactured in an ISO-9001 facility.