

# ELGIN®



# BROOM BEAR®





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

A high torque diesel engine is teamed with a 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**

LLS SSS  
PDLD  
PDWSP

suspension 2-speed rear axle complement the powerful single engine and provide the operator with hours of comfortable ride.

### **Side Brooms**

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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. EADESS O EIE 2- O OD SEED EATIC IT AD ETESIO control provide unique sweeping action. I OT O TE AI BOO S TE BOOS ETED OT O v TOv WEBOTAE 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 IT ICES AOWIO 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 ITCAACITOOADSTOODS TEOECABEAISEDTO height, dumped and retracted in as little ASSECODS

# 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

### 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.

