

**MODOT EAGLE OPTIONS**

<b>Part No.</b>	<b>Options for DualBroom Bear Red denoted items are included in 2016 MODOT Bid</b>	<b>Add/Delete</b>
special	MODOT SPECIAL ARROW BOARD FOR EAGLE	\$6,500.00
special	FRONT SPRAY BAR	\$275.00
1054361	SIDE BROOM TILT - RIGHT	\$750.00
1054362	SIDE BROOM TILT - LEFT	\$750.00
1090605	AM/FM/CD RADIO	\$500.00
1091284	PAINT OUTSIDE CAB- YELLOW CHASSIS	\$1,850.00
1082364	RESUME SWEEP AFTER TRANSPORT	\$475.00
Speical	COMPLETE 304 STAINLESS STEEL HOPPER	\$5,500.00
special	FRONT AND REAR LED STROBES W/GUARDS	\$1,000.00
special	ALTERNATING FLUSH MOUNT LED STROBES AT REAR	\$800.00
1091286	RH/LH HTD REMOTE MIRRORS-Freightliner	\$1,500.00
special	PAINT SWEEPER RAL1037 YELLOW	\$0.00
1078563	SHUTDOWN-OILPRSS/CLTEMP/ Hyd oil level	\$250.00
1061150	AUTO LUBE-SWEEPER (DUAL)-F	\$3,600.00
702126	EAGLE SERVICE MANUAL	\$100.00
Special	(2) BOSTROM MID-BACK VINYL AIR SUSPENSION SEATS	\$900.00
Included	FREIGHTLINER M2/106 CHASSIS*	\$74,000.00
	*Only chassis available for Single Engine Unit	
	CNG Power & Tanks for Single Engine Unit in lieu of Diesel	\$88,000.00
Special	AUTOCAR EXPERT CAB-OVER CHASSIS	\$98,000.00

**-----ALARMS/INDICATORS-----**

SPECIAL	ECCO SA940 SMART ALARM (ILO of STD)	\$270.00
1101528	LATCHING ELEVATOR REVERSE AND ALARM	\$385.00
1104970	HOPPER UP CONSTANT ALARM	\$355.00
1104705	HOPPER FULL INDICATOR	\$770.00

**-----AUTO LUBE-----**

1101559	MIDWEST AUTO LUBE - SWEEPER ONLY	\$4,835.00
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**-----ADDITIONAL MANUALS-----**

0701681	BROOM BEAR OPERATORS MANUAL	\$50.00
0702461	BROOM BEAR SERVICE MANUAL	\$95.00
0702241	BROOM BEAR PARTS BOOK	\$95.00

**-----BROOMS-----**

1035616	DOUBLE WRAP MAINBROOM	\$445.00
1035617	POLY/WIRE WAFER MAINBROOM	\$520.00
1035621	(1) ALUMINUM SIDEBROOM SEGMENT PER SIDE	\$505.00
1058156	STRIP MAINBROOM (MILWAUKEE)	\$485.00
1058158	STRIP MAINBROOM (URB)	\$250.00
1077151	URB STRIP MAINBROOM W/CENTER SWEEP MANDREL	\$250.00
1095046	ALUMINUM SIDEBROOM SEGMENTS - BLUE STEEL	\$320.00
1096691	DEDUCT MAIN BROOM & CORE	-\$435.00
1115524	HYDRAULIC FLOAT MAINBROOM SUSPENSION	N/C
1116748	HYDRAULIC SIDEBROOM WITH HYDRAULIC MAINBROOM SUSPENSION (MUST SELECT HYDRAULIC MAINBROOM SUSPENSION OPTION)	N/C
1115679	IN CAB HYDRAULIC FLOAT SIDEBROOMS (NOT COMPATIBLE WITH HYDRAULIC MAINBROOM SUSPENSION)	N/C

# MODOT EAGLE OPTIONS

## -----DECALS-----

1102781	RED DECALS - BROOM BEAR	N/C
1102782	WHITE DECALS - BROOM BEAR	N/C
1101037	SLOW MOVING VEHICLE SIGN	\$150.00
1122929	SHIP DECALS AND SWOOSH LOOSE IN HOPPER	N/C

## -----GAUGES-----

1101379	BROOM HOUR METERS	\$370.00
1111656	HYDRAULIC OIL TEMP DISPLAY (IN CAB)	\$345.00
SPECIAL	HYDRAULIC OIL HIGH TEMPURTURE, LOW LEVEL PTO OFF WITH DISPLAY	\$510.00

## -----HOPPER-----

1104503	LIFELINER HOPPER SYSTEM W/WARRANTY	\$4,505.00
1101951	STAINLESS STEEL HOPPER	\$9,005.00
1115491	EXTENDED HOPPER DOOR	\$980.00

## -----LIGHTS-----

1103553	PACKAGE 1 : SINGLE REAR/SINGLE HOPPER BEACON; LED WITH GUARD	\$1,930.00
1103533	PACKAGE 2 : DUAL REAR/SINGLE HOPPER BEACON; LED WITH GUARD	\$2,635.00
1103536	PACKAGE 3 : DUAL REAR/SINGLE HOPPER BEACON; LED WITH GUARD & LED ARROWSTICK	\$4,060.00
1104618	PACKAGE 4 : SINGLE REAR/SINGLE HOPPER MOUNT AND GUARD - W/O BEACONS	\$1,570.00
1104619	PACKAGE 5 : DUAL REAR/SINGLE HOPPER MOUNT AND GUARD - W/O BEACONS	\$1,955.00
1102735	LED STOP/TAI/TURN/REAR ID/CLEARANCE LIGHTS	\$340.00
1102759	REAR MOUNTED LED ARROWSTICK	\$1,700.00
1102736	(2) REAR LOW MOUNTED OVAL AMBER LED FLASHERS	\$455.00
1103898	(2) REAR HIGH MOUNTED OVAL AMBER LED FLASHERS	\$560.00
1114836	(3) LED WORK LIGHTS (1 EACH SIDE BROOM, 1 ON MAINBROOM)	\$495.00
1114837	(4) LED WORK LIGHTS (1 EACH SIDE BROOM, 2 ON MAINBROOM)	\$795.00
1104481	ARROWBOARD - REAR	\$2,020.00

## -----PAINT-----

4810001	PAINT SWEEPER STANDARD WHITE	N/C
4811003	PAINT SWEEPER YELLOW RAL 1003	\$500.00
4811007	PAINT SWEEPER YELLOW RAL 1007	\$500.00
4811018	PAINT SWEEPER YELLOW RAL 1018	\$500.00
4811023	PAINT SWEEPER YELLOW RAL 1023	\$500.00
4811037	PAINT SWEEPER YELLOW RAL 1037	\$500.00
4812008	PAINT SWEEPER ORANGE RAL 2008	\$500.00
4812009	PAINT SWEEPER ORANGE RAL 2009	\$500.00
4816018	PAINT SWEEPER GREEN RAL 6018	\$500.00
SPECIAL	PAINT SWEEPER OTHER RAL THAN ABOVE	\$1,250.00
SPECIAL	PAINT SWEEPER OTHER THAN ABOVE	\$3,790.00
1069927	ANTI GRAFFITI COATING	\$3,760.00

## -----PM10 OPTIONS-----



**MODOT EAGLE OPTIONS**

1115481	PM10 COMPLIANT (RULE 1186)	\$3,060.00
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**-----SAFETY-----**

1104991	REMOVE REAR CAMERA	N/C
1095548	LEFT HAND SIDE CAMERA	\$575.00
9306848	TRIANGLE REFLECTIVE FLARES (3)	\$75.00

**-----SWEEPER OPTIONS-----**

1100660	LEFT HAND SIDEBROOM TILT	\$1,200.00
1100656	RIGHT HAND SIDEBROOM TILT	\$1,200.00
1117071	LEFT HAND SIDEBROOM TILT W/INDICATOR	\$1,200.00
1117070	RIGHT HAND SIDEBROOM TILT W/INDICATOR	\$1,200.00
1101385	RUBBER MOUNTED CARBIDE DRAG SHOES TWO-ROW (ILO STD)	\$760.00
1102732	RUBBER DRAG-SHOES (ILO STD)	\$115.00
1104238	BORON DRAG-SHOES (ILO STD)	\$125.00
1104997	IN-CAB VARIABLE SPEED AND REVERSING BROOM CONTROL (ONLY COMPATIBLE WITH PM-10 OPTION)	\$2,000.00
1104990	VARIABLE SPEED CONVEYOR	\$1,850.00
1122873	VARIABLE SPEED CONVEYOR & IN CAB VARIABLE SPEED & REVERSE CONTROL SIDEBROOMS	\$3,850.00
1106049	HEAVY DUTY LOWER ROLLER	\$1,000.00
1114619	RUBBER BELT CONVEYOR (ILO STANDARD SQUEEGEE)	N/C
1120535	CONVEYOR ONLY ROTATE FOR WASHDOWN	\$465.00

**-----TOOLS/TOOLBOXES-----**

1053426	TOOL KIT	\$735.00
1057687	TOOL BOX W/TOOLS	\$710.00

**-----WATER SYSTEM-----**

1032484	25' WATER FILL HOSE (ILO 16' 8")	\$190.00
1108830	AIR PURGE FOR WATER SYSTEM	\$375.00
1113859	WATER SIDEBROOM FUNCTION CONTROL (ILO MANUAL) (USE WITHOUT EXTENDED SIDEBROOM REACH)	\$430.00
1121603	WATER SIDEBROOM FUNCTION CONTROL (ILO MANUAL) (USE WITH EXTENDED SIDEBROOM REACH)	\$430.00

**---M2 CHASSIS OPTIONS---**

0704005	M2 PARTS BOOK	\$405.00
0704006	M2 OPERATOR BOOK	\$50.00
0704007	M2 SERVICE MANUAL	\$330.00
1071235	FUEL CAP SAFETY LOCK	\$215.00
1075400	AM/FM/CD RADIO	\$890.00
1080756	FENDER MOUNTED MIRROR-LEFT HAND	\$505.00
1109607	12" CONVEX MIRRORS (ILO STD 8")	\$315.00
1081188	SPARE CHASSIS KEY	\$45.00
1081365	IN CAB AIR FILTER RESTRICTION INDICATOR	\$830.00
1081747	(2) AIR CLOTH HI-BACK	\$2,010.00
1081748	(1) AIR CLOTH HI-BACK SEAT	\$1,035.00
1120505	SPARE TIRE & WHEEL, BALANCED	\$1,315.00
1081909	SINGLE ARM REST - VINYL	\$360.00
1081910	DUAL ARM REST - VINYL	\$680.00
1081911	SINGLE ARM REST - CLOTH	\$360.00

**MODOT EAGLE OPTIONS**

1081912	DUAL ARM REST - CLOTH	\$680.00
1081956	DAYTIME RUNNING LIGHTS	\$1,050.00
1090653	DUAL AIR HORNS	\$1,530.00
1101560	MIDWEST AUTOLUBE - SWEEPER/TRUCK	\$7,040.00
1101567	2 1/2 LB. FIRE EXTINGUISHER	\$210.00
1101568	5 LB. FIRE EXTINGUISHER	\$240.00
1108053	FULL WIDTH FRONT SPRAY BAR	\$975.00
1072443	MASTER BATTERY SWITCH	\$520.00
4820001	CAB STANDARD WHITE	N/C
SPECIAL	VOGEL AUTOLUBE - SWEEPER/TRUCK	\$11,095.00
1063734	M2 (IN STOCK) CAB SPECIAL COLOR	\$3,775.00
SPECIAL	TRUCK RIMS - ALL	\$1,140.00
1103082	(2) AIR SEATS WITH CORDURA CLOTH	\$3,915.00
1115658	(2) FRONT CAMERAS (1) REAR CAMERA	\$960.00
1120361	EXTENDED REACH RIGHT HAND SIDEBROOM (MUST SELECT IN CAB HYDRAULIC FLOAT SIDEBROOMS)	\$1,345.00
1120782	EXTENDED REACH RIGHT AND LEFT HAND SIDEBROOMS (MUST SELECT IN CAB HYDRAULIC FLOAT SIDEBROOMS)	\$1,890.00

**-----NAVISTAR CHASSIS OPTIONS-----**

4820001	CAB STANDARD WHITE	N/C
1063731	NAV CAB PAINTED SPECIAL COLOR	\$3,635.00
1108053	FULL WIDTH FRONT SPRAY BAR	\$975.00
SPECIAL	TRUCK RIMS - ALL	\$1,140.00
SPECIAL	SPARE TIRE & WHEEL, BALANCED	\$1,315.00
1086733	LEFT HAND FENDER MOUNTED MIRROR	\$505.00
1101567	2 1/2 LB. FIRE EXTINGUISHER	\$210.00
1101568	5 LB. FIRE EXTINGUISHER	\$240.00
1091761	EXTRA KEY	\$55.00
1091770	(2) ELECTRIC & (1) AIR HORN	\$1,870.00
1091822	AM/FM/CD RADIO	\$890.00
1097641	NATIONAL AIR RIDE SEAT - PASSENGER SIDE - VINYL	\$2,325.00
1097642	NATIONAL AIR RIDE SEAT-PASSENGER SIDE- VINYL W/ARM REST	\$2,480.00
1097643	NATIONAL AIR RIDE SEAT-PASSENGER SIDE - CLOTH	\$2,200.00
1097644	NATIONAL AIR RIDE SEAT-PASSENGER SIDE - CLOTH W/ARM REST	\$2,340.00
1097645	NATIONAL AIR RIDE SEAT - DRIVER SIDE - VINYL	\$2,060.00
1097646	NATIONAL AIR RIDE SEAT - DRIVER SIDE - VINYL W/ARM REST	\$2,200.00
1097647	NATIONAL AIR RIDE SEAT - DRIVER SIDE - CLOTH	\$2,200.00
1097648	NATIONAL AIR RIDE SEAT - DRIVER SIDE - CLOTH W/ARM REST	\$2,525.00
1099317	(1) ELECTRIC HORN	\$285.00
1120361	EXTENDED REACH RIGHT HAND SIDEBROOM (MUST SELECT IN CAB HYDRAULIC FLOAT SIDEBROOMS)	\$1,345.00
1120782	EXTENDED REACH RIGHT AND LEFT HAND SIDEBROOMS (MUST SELECT IN CAB HYDRAULIC FLOAT SIDEBROOMS)	\$1,890.00
FRT-118-011	FREIGHT- OH,ST.LOUIS METRO	\$1,530.00

**-----WARRANTY-----**

W-ME-NA-2F	BROOM BEAR 2 <sup>ND</sup> YEAR PARTS/LABOR	\$2,650.00
W-ME-NA-3F	BROOM BEAR 3 <sup>RD</sup> YEAR PARTS/LABOR	\$4,995.00
W-ME-NA-4F	BROOM BEAR 4 <sup>TH</sup> YEAR PARTS/LABOR	\$7,105.00
W-ME-NA-5F	BROOM BEAR 5 <sup>TH</sup> YEAR PARTS/LABOR	\$9,100.00



## 2017 Freightliner M2 chassis specification for Broom Bear

### AXLES:

Front - 10,000 lbs. (4545kg) with 12,000 lbs. (5454 kg) springs  
Rear - Two speed 23,000 lbs. (10,454 kg) with 23,000lbs (10,454 kg) Hendrickson HAS-230 de-flatable air springs for ride quality and dumping stability.

Ratio - 6.17/8.42

Gross Vehicle Weight Rated (GVWR) - 33,000 lbs. (15,000 kg)

### BRAKES:

#### Service:

Type - Full air, anti-lock

Front - 15 in. x 4 in. (38.1 cm x 10.2 cm) drum

Rear - 16.5 in. x 7 in. (42 cm x 17.8 cm) drum

Compressor Capacity - 18.7 CFM

Auto slack adjusters, front and rear

#### Parking:

Type - Spring set, air release

### CHASSIS:

Manufacturer: Freightliner

Model - M2

#### Frame:

Type - Rail, High Strength 80,000 PSI,

Size - 10.9 in. x 3.5 in. x 0.34 in. (28 cm x 8.9 cm x 0.86 cm)

### DIMENSIONS: (with sweeper mounted)

Wheelbase - 136 in. (3454 mm)

Cab to axle - 70 in. (1778 mm) usable

Overall Length - 268 in. (6807 mm)

Overall Height - 120 in. (3048 mm) to top of exhaust

Overall Width - 96 in. (2438 mm)

Dumping Clearance Height - 252 in. (6400 mm)

Turning Radius - 18' 11" (5766 mm) (SAE tire center)

Travel Speed - 65 MPH

### ELECTRICAL SYSTEM:

Voltage - 12V

Alternator - 160 Amp.

Battery - Two (2) 12 Volt 1850 CCA Maintenance Free

### ENGINE:

Manufacturer: Cummins

Model - ISL 260

Cylinders - In-Line 6

Displacement - 507 cu. in. (8.3 L)

Horsepower - 260 (195 kW) @ 2200 RPM

Torque - 720 lb. ft. (895 Nm) @ 1300 RPM

Oil Filter - Full-flow, spin on type

Oil Capacity - 6 us gal. (22.7 L) with filter

Air Cleaner - High Capacity dry type with safety element & restriction indicator

Fuel Tank Capacity - 50 gal. (189 L)

### WARNING LIGHTS AND CHIME:

Low coolant level, high coolant temperature, warning lights and buzzer, low air pressure

### SEATS:

Two (2) single, high back, black ballistic nylon cloth

### DUAL STEERING:

Type - Full power hydraulic

Size - 18 in. (457 mm) diameter steering wheel with adjustable column.

### TRANSMISSION:

Allison 3500RDS 6-speed automatic

### WHEELS:

Front & Rear - 22.5 in. x 8.25 in. (57.2 cm x 21.0 cm) steel disc type

### TIRES:

Front & Rear - 11R 22.5

Load Range G (14 ply rating)

### ADDITIONAL FEATURES INCLUDED:

Convex Mirrors (L & R) 8 in. (203 mm) molded

heated and remote control west coast mirrors

Right hand fender mounted 8" convex mirror

Dual Steering

Radio install package including harness, speakers and antenna

Air Conditioner

Viscous Fan

Tinted Glass—All Windows

Engine Hour Meter

Electric Horn

Electric Windshield washers with delay

Cruise Control

Auto Shutdown

Blue stripe coolant hoses with constant tension clamps

750 watt block heater

cup holders

Hooks

dual  
Front Tow

### OPTIONAL EQUIPMENT AVAILABLE:

AM/FM Radio CD

Fender mount convex mirrors

cab air filter restriction indicator

Battery disconnect

Daytime running lights

12"

In-

**NOTE:** These specifications are subject to change without notice.

Fuel Filter

**INSTRUMENTS (Dual Operating Positions):**

Water temperature gauge, tachometer, speedometer with LH side trip odometer, fuel gauge, voltmeter, air pressure, oil pressure, transmission temperature on the left hand side and all FMVSS required gauges on the right hand side.

**EXHAUST:** - EPA 2016 emissions with on-board diagnostics (OBD), 2010 EPA/CARB/GHG 14. Particulate trap, selective catalytic reduction, 6 gallon diesel emission fluid tank and R.H vertical tailpipe behind cab.

**WARNING LIGHTS:**

Battery, parking brake



Elgin Sweeper Company  
1300 West Bartlett Road  
Elgin, IL 60120  
Ph: (847) 741-5370  
Fax: (847) 742-3035

## 2017 International 4400 chassis specification for Broom Bear

### AXLES:

Front - 10,000 lbs. (4545kg) with 10,000 lbs. (5454 kg) springs  
 Rear - Two speed 23,000 lbs. (10,454 kg) with 23,000lbs (10,454 kg) Hendrickson HAS-230 deflatable air springs for ride quality and dumping stability.  
 Ratio - 6.67/9.08  
 Gross Vehicle Weight Rated (GVWR) - 33,000 lbs. (15,000 kg)

### BRAKES:

#### Service:

Type - Full air, anti-lock  
 Front - 15 in. x 4 in. (38.1 cm x 10.2 cm) drum  
 Rear - 16.5 in. x 7 in. (42 cm x 17.8 cm) drum  
 Compressor Capacity - 13.2 CFM  
 Auto slack adjusters, front and rear

#### Parking:

Type - Spring set, air release

### CHASSIS:

Manufacturer: International  
 Model -4400

#### Frame:

Type - Rail, High Strength 80,000 PSI,  
 Size - 10.25 in. x 3.1 in. x 0.38 in. (26 cm x 7.9 cm x 0.97 cm)

### DIMENSIONS: (with sweeper mounted)

Wheelbase - 140 in. (3505 mm)  
 Cab to axle - 70 in. (1778 mm) usable  
 Overall Length - 268 in. (6807 mm)  
 Overall Height - 132 in. (3353 mm) to top of exhaust  
 Overall Width - 96 in. (2438 mm)  
 Dumping Clearance Height - 252 in. (6400 mm)  
 Turning Radius - 18'11" (5766 mm) (SAE tire center)  
 Travel Speed - 55 MPH

### ELECTRICAL SYSTEM:

Voltage - 12V  
 Alternator - 160 Amp.  
 Battery - Two (2) 12 Volt 1850 CCA Maintenance Free

### ENGINE:

Manufacturer: Navistar  
 Model - N9  
 Cylinders - Inline 6 cylinder  
 Displacement - 9.3 L (570 Cu. In.)  
 Horsepower - 275 hp (172 kW) @ 2000 RPM  
 Torque - 860 lb. ft. (895 Nm) @ 1200 RPM  
 Oil Filter - Full-flow, spin on type  
 Oil Capacity - 6 us gal.. (22.7 L) with filter  
 Air Cleaner - High Capacity dry type with safety element & restriction indicator  
 Fuel Tank Capacity - 50 gal. (189 L)

### WARNING LIGHTS AND CHIME:

Low coolant level, high coolant temperature, warning lights and buzzer, low air pressure

### SEATS:

Two (2) single, high back, black ballistic nylon cloth

### DUAL STEERING:

Type - Full power hydraulic  
 Size - 18 in. (457 mm) diameter steering wheel with tilt column.

### TRANSMISSION:

Allison 3500RDS 6-speed automatic

### WHEELS:

Front & Rear - 22.5 in. x 8.25 in. (57.2 cm x 21.0 cm) steel disc type

### TIRES:

Front & Rear - 11R 22.5  
 Load Range G (14 ply rating)

### ADDITIONAL FEATURES INCLUDED:

Convex Mirrors (L & R) 8 in. (203 mm) molded in  
 heated and remote control west coast mirrors  
 Right hand fender mounted 8" convex mirror  
 Dual Steering  
 Radio install package including harness, speakers and antenna  
 Air Conditioner  
 Viscous Fan  
 Tinted Glass—All Windows  
 Engine Hour Meter  
 Electric Horn  
 Electric Windshield washers with delay  
 Cruise Control  
 Auto Shutdown  
 Blue stripe coolant hoses with constant tension clamps  
 1250 watt block heater dual  
 cup holders Front Tow  
 Hooks

### OPTIONAL EQUIPMENT AVAILABLE:

AM/FM Radio CD 12"  
 Fender mount convex mirrors In-  
 cab air filter restriction indicator  
 Battery disconnect  
 Daytime running lights

**NOTE:** These specifications are subject to change without notice.



Fuel Filter

**INSTRUMENTS (Dual Operating Positions):**

Water temperature gauge, tachometer, speedometer with LH side trip odometer, fuel gauge, voltmeter, air pressure, oil pressure, transmission temperature on the left hand side and all FMVSS required gauges on the right hand side.

**EXHAUST:** - EPA 10 emissions with on-board diagnostics (OBD), GHG and EPA Certified for calendar year 2015. Single, Horizontal, After treatment device frame mounted right side under cab, includes vertical tailpipe and guard.

**WARNING SYSTEM:**

Low fuel, Low oil pressure, High engine coolant temp, Low battery voltage



Elgin Sweeper Company  
1300 West Bartlett Road  
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# ELGIN®

Subsidiary of Federal Signal Corporation

## Broom Bear®





# ELGIN BROOM BEAR®

## POWERFUL, PROVEN, SINGLE ENGINE MECHANICAL SWEEPER

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, like millings or gravel, as well as light street maintenance, the Broom Bear has proven to be one of the most rugged and efficient sweepers in the industry. And the short wheelbase enhances maneuverability and makes the sweeper ideal for sweeping in tight cul-de-sacs.

Mounted on a commercially available conventional chassis with fully dualized controls and an intelligent single engine design that utilizes the chassis engine to power the sweeper, the Broom Bear features a large hopper and water tank, which means more productive sweeping time and fewer scheduled stops. A variable dumping height and 11 inch (279 mm) of hopper side-shift ensures easy dumping.



### APPLICATION SOLUTIONS

*Elgin Sweeper doesn't offer just one sweeping technology — we take an application-based approach to solving our customers' sweeping needs. Our team works with each customer to ensure that you get a machine that fits your specifications, with the right truck, engine configuration, fuel requirements, and options.*

### POWERFUL SUPPORT

*Elgin sweepers are built for clean, backed for life. Throughout the life of the sweeper, we offer training to your team on proper use and maintenance. We have a world-wide network of experienced dealers with factory trained technicians and a local stock of OEM parts and accessories to ensure total customer peace of mind.*

### UNMATCHED QUALITY

*The Broom Bear became part of the Elgin lineup 15 years ago and has been continuously improved. Manufactured in an ISO:9001 certified plant, Elgin Sweepers are quality inspected and functionally tested prior to shipment. Paint prior to assembly ensures uniform, durable coverage. Broom Bears are proudly assembled in the U.S.A.*





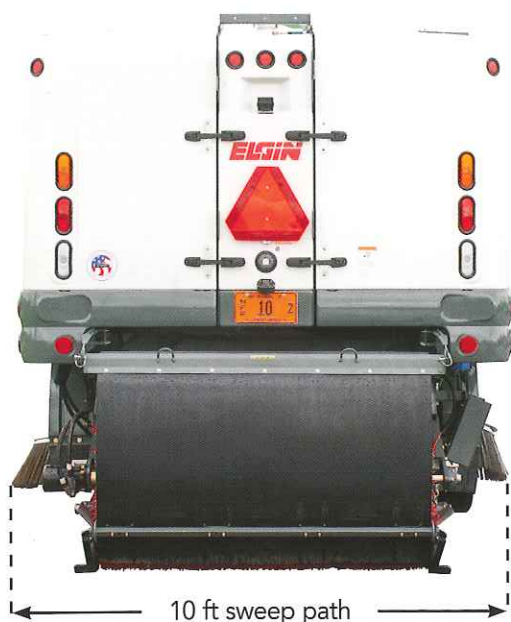
### HIGH PRODUCTIVITY SWEEP SYSTEM

- High torque diesel engine is teamed with Freightliner® M2 or International® Durastar® chassis to create one of the most powerful and reliable single engine packages in the industry.
- The control console, located between the operator stations, provides quick, easy access. All sweep function switches have tactile-feel surfaces, so operators can work the panel while keeping their eyes focused forward, for increased productivity and safe operation.
- Dual free-floating gutter brooms that adjust to variable road surfaces, a sweep path of 120 inches (3048 mm) with an additional extension of up to 144 inches (3657 mm) when both brooms are pinned to outer points, and a powerful free floating direct drive main broom, ensure reliable and complete pickup of debris.
- Superior dust control is maintained with in-cab zone controlled, dual diaphragm water pumps and a 360 gallon (1363 L) water tank for long sweep times between refills.
- The 4.5 cubic yard (3.4 cu meter) hopper features a double-scissor lifting mechanism that is center mounted for greater stability and trouble free operation. Dumping height is variable up to 10 feet (305 cm) and an 11 inch (279 mm) side shift enables a cleaner more efficient unloading of material. Optional 5.4 cubic yard (4.1 cu meter) hopper available.
- The chassis cab is dualized with OEM parts, including full factory controls, steering, and OEM gauge package that is identical for both left and right operator stations.





# EASY TO OPERATE. EASY TO MAINTAIN. BUILT TO LAST.



## MAIN BROOM

The main broom is attached to a fully floating trailing arm to better conform to road contours. Performance is optimized using mechanical main broom suspension that dynamically adjusts to various road conditions while on-the-go. Lift and lower functions are controlled from the cab. 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.

## SIDE BROOMS

46 inch (1168 mm) trailing arm, free-floating side brooms offer four-way motion and protection against damaging impacts. Pneumatic lift and extension control enhances performance while sweeping within a 10 foot (3048 mm) wide path. Steel plate disc construction adds durability. Broom speed is controlled by hydraulic motors. Broom speed is constant and matched to the conveyor speed for optimal loading performance. Automatic settings control down-pressure, digging-pressure and wear-control. In-cab side broom pressure gauges and down-pressure control are standard.



## SQUEEGEE TYPE CONVEYOR

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 3 inches (76 mm) 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.

## SIMPLE, EASY-ACCESS MAINTENANCE

The Broom Bear was designed so that systems are accessible and easy to service. The hydraulic system with o-ring face seal fittings is designed for long life and leak-free operation. Heavy-duty waterproof electrical connectors and color-coded wires have stamped identification for quick location during troubleshooting. A stainless steel toolbox provides additional storage.



## 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.

## POWER TRAIN

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



# SUPERIOR MECHANICAL SWEEPER DESIGN

## LARGE VARIABLE HEIGHT DEBRIS HOPPER

The Broom Bear features a variable-height, right side dump hopper with a capacity of 4.5 cubic yard (3.4 cu meters) volumetric. All hopper lift and dump controls are hydraulic and easily operated from in-cab console mounted controls. A 50 degree dump angle allows material to easily slide out.

A unitized, twin-cylinder, double scissors lift rated at 11,000 lbs (4990 kg) unloads material at a minimum of 38 inches (965 mm) and a maximum of 10 feet (3048 mm). Payload capacity is 10,000 lbs (4536 kg) per load. An 11 inch (279 mm) side shift allows material to be unloaded into the center of a truck or container for cleaner dumping. A full hopper can dump and retract in 20 seconds for short intervals and up to 70 seconds at top height.



## SUPERIOR DUST SUPPRESSION

A 360 gallon (1363 L) removable water tank is made of corrosion resistant polyethylene. A 16 foot, 8 inch long (5.1 m) fill hose and water level indicator light located on the control console are standard. Water flow for the side and main brooms is in-cab zone controlled. The self-priming diaphragm pumps (run dry type, 40 psi) provide effective dust control. Three spray nozzles are positioned on each side broom and three on the main broom. Dual water pumps are standard.

## MEMORY SWEEP®

Elgin's exclusive Memory Sweep feature allows the operator to resume all previous sweeper settings, even broom tilt if so equipped, with one touch control. This feature enhances operator productivity and reduces operator fatigue. Memory Sweep incorporates a multiscreen display that indicates engine hours and water tank level as well as system diagnostics. This screen also displays optional features such as broom tilt angle and broom hours.

**MEMORY  
SWEEP**





# UNIQUE APPLICATION VERSATILITY

## CONVEYOR FLEXIBILITY

The Broom Bear comes standard with a squeegee type conveyor designed to provide versatile and reliable performance in a wide range of applications including aggregate and granular material pick up of gravel and millings, ideal for road construction contractors as well as general municipal sweeping, trash, leaves, and other organics.

The Broom Bear is also available with a belt conveyor for applications such as highway sweeping and general municipal sweeping where large debris is encountered.

## THE ELGIN SQUEEGEE CONVEYOR

- Chain side-plate constructed from hardened steel for long life and smooth operation.
- Three-piece design for easy service without removing complete assembly.
- Thick, multi-ply rubber-edged flights provides efficient movement of debris into the hopper.
- Unique, interlocking, wavy-plate joint design prevents excessive wear and "thumping" over plate seams.
- Abrasion-resistant steel floor for durability.
- Direct-drive hydraulic motor for optimal power transfer to the conveyor system.

## THE ELGIN BELT CONVEYOR

- Full-width cleats move more material quickly to the hopper for maximum productivity.
- Direct-drive hydraulic motor for optimal power transfer to the conveyor system.
- Improved hopper fill by throwing debris towards center of hopper.
- Heavy-duty belt construction resists stretching and requires fewer adjustments.
- Ribs between cleats enhance effectiveness of moving fine debris into the hopper.

The Broom Bear conveyors are designed to be interchangeable should a customer have different applications throughout the sweep season.



## LOW EMISSIONS – ALTERNATIVE FUEL OPTION

The Elgin Broom Bear is available in a compressed natural gas (CNG) configuration. The Broom Bear single-engine mechanical sweeper is powered by the Cummins Westport ISL G natural gas engine, making it a fully certified EPA/CARB emission compliant street sweeper. Three 3600 psi composite fuel tanks are conveniently packaged in the rear compartment minimizing impact to chassis wheelbase. The Broom Bear has a generous 51 diesel gallon equivalent fuel capacity - providing ample sweeping range.





## OPTIONAL ENHANCEMENTS



### LIFELINE® HOPPER SYSTEM

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



### IN-CAB SIDE BROOM TILT AND EXTENDED REACH

Allows operator to sweep effectively in variably-pitched gutters. On-the-go pitch adjustment with a simple variable rocker switch that displays proper broom angle. Extended reach allows the side broom to follow curbs and tight cul-de-sacs.



### LIGHTING PACKAGES

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

## ADDITIONAL OPTIONS:

- Outside cab, side broom down pressure control
- In-cab, side broom speed control
- 5.4 cubic yard hopper (4.1 cu meter)
- Hydraulic float main broom suspension
- PM10 compliance package
- Functional water control
- Automatic lubrication system
- Front spray bar

## SPECIFICATIONS:

### SWEEP PATH

Main broom only:  
60 in (1524 mm)

Main broom & one side broom:  
90 in (2286 mm)

Main broom and 2 side brooms:  
120 in (3048 mm) up to 144 in (3657 mm)  
with pins in outer points

### HOPPER CAPACITY

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 DUMPING

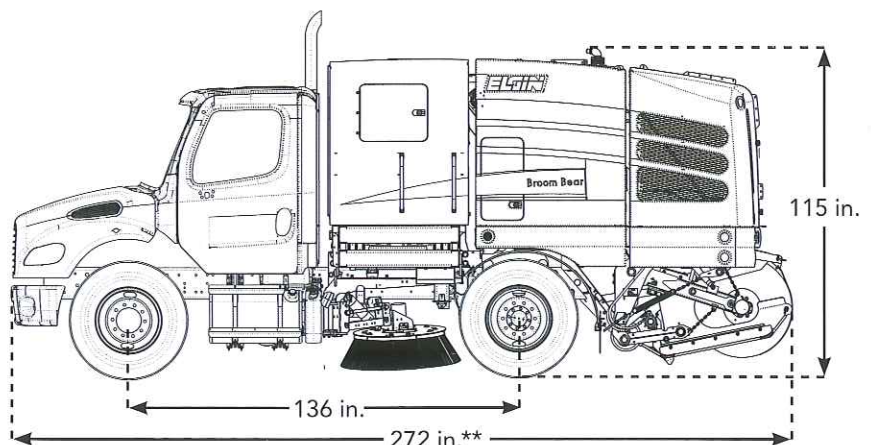
Minimum dump height: 38 in (965 mm)  
Maximum dump height: 10 ft (3048 mm)

### WATER SPRAY SYSTEM

Tank capacity: 360 gal. (1362 L)

### CHASSIS

Conventional



\*Consult factory for warranty details \*\*Transport mode



# ELGIN SWEEPER IS YOUR PARTNER...

## IN THE PLANNING

Instead of one-size-fits-all solutions, we'll work with you to select the sweeping technology that fits your specific needs.



## IN THE STREETS

We're here to help you maintain your Elgin and train your operators to ensure the job is done right.



## INTO THE FUTURE

Our dealers don't just sell you an Elgin; they're available to answer your questions and provide service for the life of the machine.



## 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:



[elginsweeper.com](http://elginsweeper.com)

1300 W. Bartlett Road • Elgin, IL 60120 U.S.A.  
(847) 741-5370 Phone • (847) 742-3035 Fax

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