

# ELGIN®

Subsidiary of Federal Signal Corporation

## Eagle® with Waterless Dust Control



# ELGIN EAGLE® with Waterless Dust Control

WATERLESS ADVANTAGE. ELGIN PERFORMANCE. YEAR ROUND SWEEPING.

The Elgin Eagle, with waterless dust control, combines maneuverability, highway transport speeds, water and waterless PM-10 and PM 2.5 sweeping, serviceability and variable height side dump capability with a sweep system that easily handles heavy, compacted dirt and bulky debris as well as smaller particles found in industrial applications. The patented dry dust control system allows increased pick up of fine particles, proven year-round sweeping and safe removal of water reacting materials.

The Waterless Eagle is a robust sweeper with incredible digging power and comes standard with:

- Choice of conventional or cab over chassis with a dedicated auxiliary sweep engine
- Dual cab controls for ease of operation
- Pick up debris up to 9 inches in size with heavy duty chevron belt to load bulky or fine material
- Variable height, side dump hopper with side shift



## 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 Eagle was introduced 25 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. Eagles are proudly assembled in the U.S.A.*



### HIGH PRODUCTIVITY SWEEP SYSTEM

- Mounted on a selection of conventional or commercial Cab-Over chassis. Conventional chassis feature a five speed overdrive automatic transmission and commercial Cab-Over chassis feature a six speed wide ratio automatic transmission.
- Sweep system is powered by a low emission, John Deere 74hp (55kw) @ 2400 RPM, one of the most powerful standard auxiliary engines available on a mechanical sweeper.
- Control console, located between the operator stations, provides quick, easy access for increased productivity and safe operation.
- Dual free-floating gutter brooms adjust to variable road surfaces, a sweep path of 10 feet (305 cm) and a powerful free floating direct-drive main broom, ensure reliable and complete pickup of debris.
- 4.5 cubic yard (3.4 cubic meters) hopper features a center mounted double-scissors lifting mechanism 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.
- Flexible range of chassis choices including Cab-Over or conventional chassis. The Cab-Over 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.



## PERFORMANCE

### PATENTED WATERLESS DUST CONTROL SYSTEM

- A powerful vacuum fan to capture fugitive dust during sweeping
- Main and side broom skirting for dust capture and containment
- Long-life, low maintenance filter between the hopper and the vacuum fan
- This system is rated at PM-10/2.5 to meet strict EPA standards

### SUPPLEMENTAL WATER SYSTEM

- Ability to switch from waterless to water dust control while sweeping
- In-cab variable controlled water flow for the main and side brooms
- 320 gal (1,210 L) removable, rustproof polyethylene water tanks
- A self-priming centrifugal run-dry type pump - 6 gpm (22.7 L/min) @ 80 psi (5.8 bar)

## PRODUCTIVITY

### WIDE SWEEP PATH

- Hydraulically driven main and side brooms for 10 ft (3,048 mm) sweep path
- Main broom has in-cab variable broom speed for varying sweeping conditions
- Down pressure can be adjusted from cab while sweeping over variable terrain such as rail crossings, asphalt imperfections, and ramps
- Main broom is mounted on a full-floating, trailing arm design with shocks to follow road contours
- 42 in (1,067 mm) free-floating, trailing arm side brooms provide powerful digging action and full four-way motion and sideway protection when passing close to obstacles
- Variable speed and down pressure for digging and wear control are controlled from in cab for deep digging or light touch for maintenance sweeping



### NO-JAM CHEVRON CONVEYOR BELT

- Chevron conveyor features molded-in, full-width cleats that move 9 inch large debris without jamming
- High-strength belt material provides long wear for large or fine material
- Controlled from the cab, including reverse, conveyor assures efficient loading of heavy granular debris as well as bulky materials due to self centering and direct drive
- High speed of belt throws material to front of hopper for more effective loading
- Built-in wash down system of the conveyor allows quick, easy clean-up



## OPERATOR CONVENIENCE: CONVENIENT, EASY MAINTENANCE

- Four access doors (with locks) open wide to auxiliary engine and dry dust control components, including the fan and filter
- Built-in steps and a steel service platform provide stable work surfaces
- All wiring harnesses are color-coded and labeled for easy maintenance and troubleshooting
- All connectors are weatherproof to prevent moisture from getting into the connection
- Access to the side and main brooms is quick and requires no tools
- The shrouds are hinged and easily latch and unlatch making routine maintenance trouble-free

# SUPERIOR MECHANICAL SWEEPER DESIGN

## VARIABLE HEIGHT SIDE DUMP HOPPER

- 4.5 yd<sup>3</sup> (3.4 m<sup>3</sup>) volumetric hopper can be emptied from 32 inches (813 mm) to 10 ft (3,048 mm)
- An 11 in (280 mm) right side shift enhances container or dump truck unloading
- Hopper raises on a trouble-free, twin cylinder, dual stage mechanism, capable of lifting up to an 11,000 lb (5,000 kg) load
- Center position keeps weight between the dual tires during dumping and maintains proper weight distribution as the sweeper unloads
- The 50 degree dump angle provides easy material slide-out for excellent dump performance



## EASE OF OPERATION

### PROVEN CHASSIS

- Mounted on a high-visibility, commercial chassis and available fully right and left dualized with chassis OEM components
- The short wheelbase on choice of Cab-Over or conventional provides a tight turning radius
- The unique full air ride suspension provides comfort during transport, and the ability to deflate airbags and provide a ridged axle for sweeping and dumping stability

### EASY IN-CAB OPERATION

- A center-mounted console provides access to all sweeper controls from either driving position. Includes hopper, conveyor, rear suspension, vacuum fan assist, adjustable spray water, broom controls, plus a full load indicator
- Broom speed, conveyor speed and digging pressure are adjustable independent of truck RPM
- Reverse gear automatically raises sweeping components to prevent damage
- A complete set of auxiliary engine gauges keeps the operator informed at all times

**MEMORY**  
**SWEEP**



# WATERLESS EAGLE®

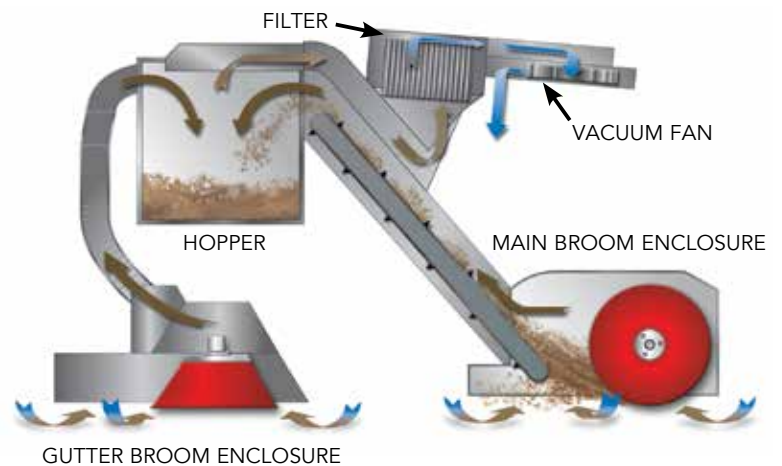
(PATENTED DUST CONTROL SYSTEM PM10/2.5)

A powerful vacuum fan on the sweeper creates an air stream through the debris hopper, conveyor and skirted areas. The inward rushing air carries the airborne dust into the debris hopper, where it's allowed to settle out with the rest of the swept debris.

A majority of the fugitive dust falls into the hopper with only a small amount of dust getting to the filter. When the filter becomes loaded, it can be mechanically cleaned with an on-board cleaning system so sweeping can continue. Sweeping through water and or during rain and snow will not affect the filter since it's blind to incoming debris or moisture.

A long life, low maintenance dry filter element is installed between the debris hopper and the vacuum fan to prevent dust from being pulled from the hopper and blown out the vacuum fan exhaust.

The fully flexible main and side broom skirting allow efficient dust capture, while still providing aggressive curb cleaning. These are fabricated from highly resilient polymer material for long wear and are easy to change and maintain.



Elgin's filter is waterless dust suppression technology as patented - U.S. #7,281,296 B2, U.S. #6,584,157 B2.



*Elgin Sweeper has a network of more than 50 dealer locations in North America. So no matter where you work, Elgin Sweeper and your Elgin dealer are there to support your investment upon delivery and beyond with local parts, service and training!*



## OPTIONAL ENHANCEMENTS



### CAB-OVER CHASSIS

Cab-Over chassis provide outstanding visibility, comfort, safety and productivity. The short wheel base and unique steering geometry allows for maximum maneuverability.



### LIFELINER® 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

Allows 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:

- Rotating beacon or strobe light
- Carbide/boron dirt shoes
- Poly side brooms
- A wide variety of industrial safety lights
- Auto-lube automatic lubrication system
- Automatic engine shutdown (high temp/low pressure)
- Main broom hour meter
- One-touch sweep resume system
- Consult factory for additional sweeper and chassis options.

## SPECIFICATIONS:

### TRAVEL SPEED:

Highway speed, 65 mph

### SWEEP SYSTEM:

No-Jam chevron conveyor belt

### SWEEPING PATH (MAX):

10 ft (3,048 mm)

### HOPPER CAPACITY

(VOLUMETRIC):

4.5 yd<sup>3</sup> (3.5 m<sup>3</sup>)

### DUST SUPPRESSION:

Waterless dust control system or with water

### AUXILIARY WATER SYSTEM:

320 gal (1,210 L) used with dust suppression system

### DUMPING HEIGHT (MAX):

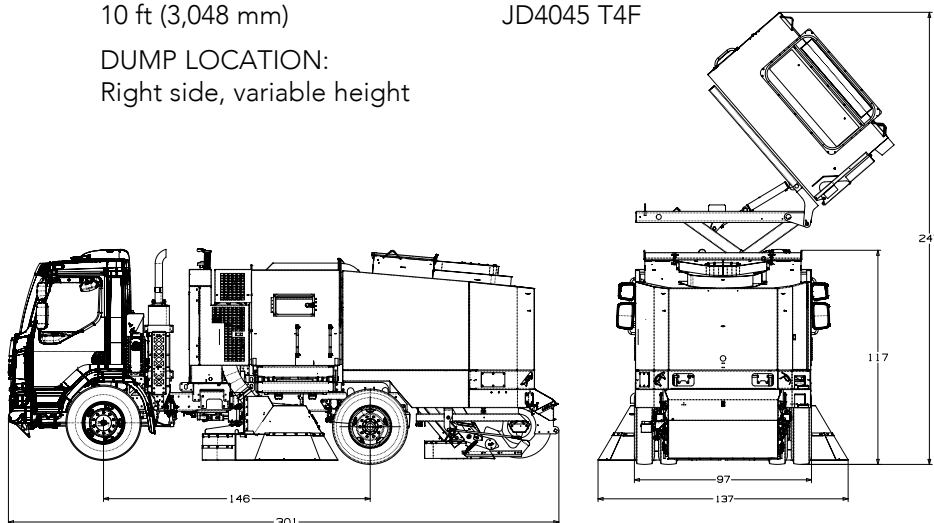
10 ft (3,048 mm)

### DUMP LOCATION:

Right side, variable height

### ENGINE:

JD4045 T4F



# 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 Eagle with waterless dust control sweeper with a one-year limited warranty. The Eagle with waterless dust control 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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