

**Specially built for the most demanding jobs, yet cleverly designed to be the least demanding to operate.**



The Elgin® Road Wizard®, first introduced as part of the Elgin family of sweepers in 2003 has been redesigned and improved, retaining all of the features that made it popular. These features include a simplified, dual-engine design while incorporating what our engineers have learned from a 96 year history in sweeping – and that is the best of both worlds; increased operator efficiency and productivity, along with the latest technology for superior results.

Mounted on a selection of commercial cab-over or conventional chassis equipped with a 230 hp (173kw) engine and a five speed overdrive automatic transmission, the Road Wizard reaches a top speed of 65 mph (105 kph) on the highway. The sweep system is powered by a low emission, Tier 4i 74 hp Cummins 3.3 diesel engine, (55 kW @ 2600 RPM) one of the largest standard auxiliary engines available on a mechanical sweeper.

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 forward, for added safety and efficiency.

With dual free-floating gutter brooms that adjust to variable road surface, a sweep path of 10 feet (305 cm) and a powerful free floating direct drive main broom, you are ensured reliable and complete pickup. Superior dust control is maintained with an in-cab controlled, centrifugal water pump system and a 360 gallon (1363 l) water tank.

The Road Wizard's large 5.4 cubic yard (4.1 cu meters) hopper features a double-scissors lifting mechanism that is center mounted for greater stability, rigidity and trouble free operation. Plus, its dumping height is adjustable up to 10 feet (305 cm).

If you haven't tried sweeping with the Road Wizard – now is the time to take another look. You will be pleasantly surprised.

Road Wizard® Four Wheel Mechanical Sweeper

#### Options



#### 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.



#### Cab-Over UD Chassis

UD 3300 chassis are built exclusively for Elgin and sweeping, and provide outstanding visibility, comfort, safety, and productivity. The short wheel base and unique steering geometry allow maximum maneuverability. A choice of Freightliner or International conventional chassis are also available.

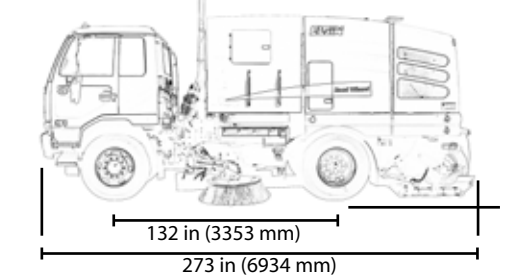
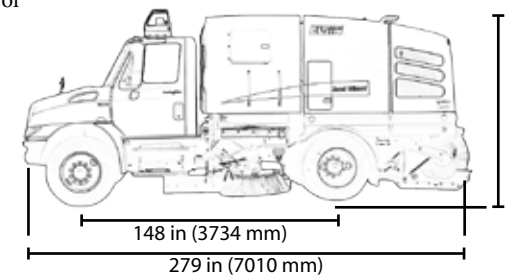


#### In-Cab Side Broom Tilt

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

- Outside, side broom down pressure control
- Outside, main broom down pressure control
- In-cab, side broom speed control
- Strobe lamp
- Arrow stick
- Automatic lubrication system
- Fire extinguisher
- Front spray bar



#### 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 Road Wizard sweeper with a one-year limited warranty. The Road Wizard 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

**ISO-9001 Advantages**  
 The Road Wizard is manufactured in an ISO-9001 facility.

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**ROAD WIZARD®**



#### Side Brooms

Large, 46 inch (1168 mm) trailing arm, free-floating side brooms offer four way motion and side-ways protection against hitting obstacles, to help protect from damage. Hydraulic lift and extension control enhances performance while sweeping within a 10 foot (305 cm) wide path. Steel plate disc construction adds durability. Broom speed is controlled by the hydraulic motor operating at variable speeds that coincide with auxiliary engine RPM. Automatic settings control down pressure, digging pressure and wear control. In-cab side broom pressure gauges and down pressure control are standard. Down pressure controls in the engine compartment are an option.

#### Main Broom

The main broom is attached to a fully floating trailing arm to better conform to road contours. Powered by the auxiliary engine, it works at variable speeds, depending on the engine RPM. 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. Outside the cab down pressure controls are available as an option. 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.

#### Hopper

The Road Wizard features a variable-height, right side dump hopper with a capacity of 5.4 cubic yards (4.1 cubic meters) volumetric. All hopper lift and dump controls are hydraulic and easily operated from inside the cab. A 48 degree dump angle allows material to easily slide out.

#### Hopper Lift System

The Road Wizard features a variable-height, unitized, twin-cylinder, double scissors lift that can unload material at a minimum of 30 inches (762 mm) and a maximum of 10 feet (305 cm). Lift capacity is 12,000 lbs (5448 kg) per load. A full hopper can dump and retract in as few as 20 sec at short intervals and up to 70 sec at top height.

#### 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 three inches to avoid larger debris and other obstacles. Conveyor bearings are sealed and self-aligning for longer life.

#### Hydraulic System

The Road Wizard features a 34 gallon (129 l) reservoir with an external level indicator and thermometer, and a 24 GPM (91 L) quad gear pump capacity at 1200 RPM of the auxiliary engine.

#### Auxiliary Engine

A 74 hp Cummins 3.3, low emission Tier 4i diesel engine (56 kW @ 2600 RPM) provides variable control over sweeper speeds with no effect on truck speed. It is the largest standard auxiliary engine available on a mechanical sweeper. (Max fuel capacity is 50 gallons (189 l)). The engine includes a two-stage, dry-type air cleaner with safety element, pre-cleaner, and in-cab restriction indicator (option). In-cab gauges and warning lights are displayed for all engine functions including tachometer, hour meter, volt meter, fuel level, coolant temperature, oil pressure, hydraulic oil filter, engine running, and air filter restriction.

#### Water Tank

With a total capacity of 360 gallons, the removable water tank is made of corrosion resistant polyethylene. A 16 foot, 8 inch long (5.1 m) fill hose, and water level indicator lights located on the control console are standard.

#### Water Pump System

Water flow for the side and main brooms is controlled in-cab. The self-priming centrifugal pump (run dry type, 40 psi) provides effective dust control. Three spray nozzles are positioned on each side broom and three on the main broom.

#### Controls

The control console is located between the left and right operator stations. All sweep, dump, spray water and hopper operations are controlled from this single panel. 'One-button' automatic return to sweep improves operator efficiency. Tactile controls allow the operator to work by feel for added safety with the ability to control switches without taking his eyes off the road.

#### Cab

The Road Wizard offers a flexible range of chassis choices including cabover or conventional chassis. The standard chassis cab is right hand drive only or dualized with OEM parts and includes full factory controls, steering, and OEM gauge package that is identical for both left and right operator stations. All available chassis options meet FMVSS standards.

