



GLOBAL M4 ZE-Series



ZERO EMISSIONS
For A Greener Tomorrow

ZERO Emissions Street Sweeper is Finally Here!

**1st Heavy-Duty
Hydrogen Fuel-Cell Powered
Street Sweeper in USA!
Protecting our Future
with Zero Emissions!**

Global M4 ZE-Series Street Sweeper is a high-performance Heavy Duty Street Sweeper that utilizes a High Capacity Hopper and Robust Sweeping System. **Powered by Hydrogen Fuel Cell System**, we are proud to offer a Street Sweeper that produces **ZERO EMISSIONS** at all times! Electric Drive System and Sweeping System is Ultra Quiet yet very powerful!

Global M4 ZE-Series

- Rear Dump and Side Dump Hopper Available.
- Extremely quiet operation.
- Always **ZERO EMISSIONS!**
- Electric Motor Drives the Sweeper.
- Highway Travel Speed.
- Up to 12 MPH Sweeping speed.
- Heavy-Duty Sweeping System.
- Sweeps up to 3-Tons of sand per minute.

► **Global Environmental Products** continues industry-leading innovative engineering with the introduction of the World's 1st purpose-built **ZERO EMISSIONS** street sweeper.

► **Global Environmental Products** equipment offers uncompromising performance, consistent quality, durability and reliability. Our comprehensive range of machines provides the right cleaning equipment for your application.

► **Global Environmental Products**

- Reliable / Durable Equipment
- Innovative Engineering / Design
- Industry Leading Reputation
- Dedicated Customer Service
- Outstanding Sales Professionals
- Fast Parts and Service
- National Dealer Network

ELECTRIC HYBRID
MADE IN THE USA

GLOBAL M4 ZE-Series

Configuration

Traction Drive	
Description	Electrical drive with two speed differential final drive. The traction system provides constant broom speed independent of vehicle speed or direction.
Range	Low (sweeping mode) = 0 – 14 mph High (travel mode) = 0 – 60 mph.

Auxiliary Hydraulics	
Description	Triple hydraulic pump assembly utilizes separate direct mounted gear pumps to provide high torque power to elevator, main broom and gutter brooms.
Capacity	Total system – 20 gal (75L);

Sweeping	
Swath	91 in. (2311mm) single gutter broom, 125 in. (3175mm) dual gutter broom
Pickup System	Balanced components
Elevator Width	58 in.(1473mm)
Broom Width	58 in. (1473mm)
Hopper Width	74 in. (1880mm)

Pickup Broom	
Type	Disposable polypropylene.
Size	32 in. x 58 in. (813mm x 1473mm)
Drive	Direct hydraulic, variable speed
Displacement	17.1 cu in./rev.
Speeds	Variable
Controls	Cab mounted hydraulically raised and lowered.
Position	Self adjusting for pressure and wear.

Gutter Broom	
Diameter	47 in.(1194mm)
Speed	Variable
Drive	Direct high torque hydraulic.
Lift	Hydraulic displacement cylinders.
Impact Protection	Hydraulic accumulators allow vertical free floating and shock absorbers allow horizontal protection.

Gutter Broom	
Overload Protection	Motor mounted relief caps.
Adjustments	Simple "tool free" settings, in-cab controls for tilt, pressure and wear.

Hopper	
Capacity	5.2 cubic volumetric yards (4.28 cu meters).
Lift	12,000 lbs (5445kg).
Lift Method	Dual 4 in. hydraulic cylinders.
Dump Height	116 in. (2945mm) high dump.
Dump Position	Behind rear wheels, similar to dump truck.
Dump Control	Cab mounted single rocker switch.
Safety Lockout	Hopper lift controls automatically prevent movement while dumping.
Location	Center mounted behind cab.

Water Spray System	
Capacity	280 gal. (946L)
Construction	Molded Polyethylene.
Location	Below frame for stability.
Spray Nozzles	15 nozzles at various locations.
Controls	Variable flow valves over each broom, master variable flow valve and shutoff switch in cab.
Filter	Cleanable.
Fill Hose	15 ft (4572mm) hose located at right center body panel.

Elevator	
Type	11 Flight squeegee.
Squeegee	Replaceable corded rubber tips.
Belts	Continuous molded rubber.
Drive	Direct hydraulic, variable with forward and reverse.
Displacement	15.8 cu in./rev.
Protection	Hydraulic relief cartridge.
Speed	Variable forward and reverse.
Bearings	Four 3/16 in. triple lip sealed, high load capacity with dust seals.
Shaft	Split shaft design.
Back Plate	Adjustable/replaceable bolt-on.
Throw Plate	Adjustable for fill.

Electrical System	
Electrical Hybrid Components	Electrical generator, electrical drive motor, electrical hydraulic motor, generator control unit, motor control unit for drive motor, and hydraulic motor, and lithium-ion batteries.

Wiring	Sealed wire harness; Solid color coded wires, numbered and function labeled every 12 in. (305mm); sealed pre-wired solenoids; Circuit breaker protected. 12 volt system.
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Chassis	
Frame	3" x 13" (76mm x 330mm) C-Channel with modular body; Front & rear tow hooks.

Instruments	
Gauges	Speedometer/odometer, engine tachometer/hour-meter, hydraulic oil pump tachometer, engine oil pressure, engine water temperature, voltmeter, fuel gauge and gutter broom position indicators.

Sweeper Dimensions	
Wheel Base	130 in. (3302mm)
Length	208 in. (5283mm)
Height	120 in.(3048mm)
Width	102 in. (2591mm)
Weight	16,660 lbs (7557kg)

Paint	
Powder Coated	100% TGIC
Body	White and black matte.

Options	
Stainless Steel Hopper	Lifetime warranty
PM-10	Reduces harmful particulates for improved air quality.
In-Cab GB Tilt Control	Enhances curbline cleaning
Elevator Flusher	Extends elevator component life.

Air Quality Management District	
The Global M4 ZE has been designated by the South Coast Air Quality Management District as Rule 1186 Certified for its ability to pick up and contain small-micron material. It passed the rigorous Rule 1186, PM10 Certification.	

Your Local Dealer



ISO 9001: 2008

MADE IN THE USA 

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