



GLOBAL M4



ALTERNATIVE
FUEL OPTION
AVAILABLE

The Global M4 Is The Winner and Still Champion

- ▶ The **Global M4** purpose-built mechanical sweeper is engineered to deliver the performance, reliability, safety, ease of use, and lowest cost of ownership that public administrations throughout the world demand. The **Global M4** is the toughest and most rugged purpose built mechanical sweeping system ever constructed.
- ▶ The **Global M4** is the only hydrostatic drive machine that has ever passed the formidable California Department of Transportation sweeper acceptance test where it was required to sweep up heavy sand at the rate of three tons per minute! That's one ton of sand every twenty seconds.
- ▶ The **Global M4** is designed to make routine maintenance easy, so your sweeper spends more time on the street and less time in the garage. Two swing-out center body panels provide unrestricted access for elevator adjustment, maintenance and daily cleaning. The **Global M4** keeps your costs and downtime to an absolute minimum.
- ▶ The **Global M4** is designed to take on the worst of the worst sweeping conditions, such as construction site clean up, state highway sweeping, and road resurfacing including millings, heavy sand and chip seal. The **Global M4** has plenty of pure, raw power.
- ▶ The **Global M4** does not require a CDL.
- ▶ The Global M4 is also available in CNG alternative-fuel and Electric Hybrid versions.
- ▶ Compact design giving exceptional maneuverability, visibility, and operator comfort for unsurpassed safety.
- ▶ Smooth hydrostatic drive with infinite speed-control while sweeping; offering speeds up to 14 mph in sweeping mode and travel speeds up to 65 mph.
- ▶ Superior sweeping performance with a balanced system, dirt conveyor overthrow system, heavy-duty equal-width pick-up brooms, and unmatched elevator system to ensure smooth and even material flow.
- ▶ 5.6 cu/yd hopper with high dump clearance up to 116".
- ▶ Lifetime warranty on optional stainless steel hopper.
- ▶ High visibility for operator and pedestrian safety.
- ▶ Optional PM-10 water system improves air quality.
- ▶ Safe design with high visibility and fingertip controls.

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



Reliable • Affordable • Innovative

Engine

| | |
|-----------------------------|---|
| Cummins ISB-280 | 6 cylinder injected diesel, turbocharged and intercooled. 280 HP @ 2300 RPM. EPA 2007 |
| Cummins BG-230 (CNG Option) | Turbocharged and charge aircooled Natural Gas Engine. 230 hp @ 2800 RPM. EPA 2007 |
| Displacement | Diesel: 409 cu in. (6.7 L) CNG: 359 cu in. (5.9L) |
| Maximum Torque | Diesel: 660 lb-ft @ 1600 RPM or CNG: 500 lb-ft @ 1600 RPM |
| Cooling System | 38 qt (36 L) capacity, swing-away designed radiator |
| Engine Oil | 15 qt (14 L). |
| Air Cleaner | Two-stage dry with safety element. |

Traction Drive

| | |
|-------------|---|
| Description | Hydrostatic drive with two speed differential final drive. Engine mounted two speed variable displacement pump and an axle mounted variable displacement traction motor. The traction system provides constant broom speed independent of vehicle speed or direction. |
| Range | Low (sweeping mode) = 0 – 14 mph (0 – 30 km/h), High (travel mode) = 0 – 65 mph (0 – 105 km/h). |

Auxiliary Hydraulics

| | |
|-------------|--|
| Description | Tandem or 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 – 41 gal (155L); two tanks – 18 gal (68L) each. |

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

Hopper

| | |
|----------------|--|
| Capacity | 5.6 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 | 250 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 | 7 or 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. |

Elevator

| | |
|-------------|--------------------------------|
| Shaft | Split shaft design |
| Back Plate | Adjustable/replaceable bolt-on |
| Throw Plate | Adjustable for fill |

Electrical System

| | |
|------------|--|
| Wiring | Sealed wire harness; Solid color coded wires, numbered and function labeled every 12 in. (305mm); sealed pre-wired solenoids; Circuit breaker protected. |
| Alternator | 130 amp with dust shield |
| Batteries | 2 – 900 CCA @ 0F; 12 volt system |

Chassis

| | |
|-------|--|
| Frame | 3" x 13" (76mm x 330mm) C-channel with modular body; Front & rear tow hooks. |
|-------|--|

Instruments

| | |
|--------|--|
| Gauges | Speedometer/odometer, tachometer, hour-meter, 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. |

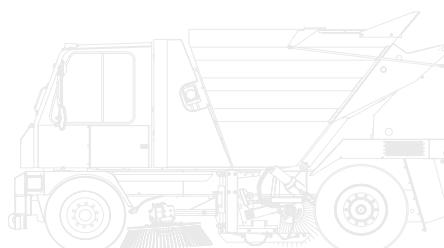
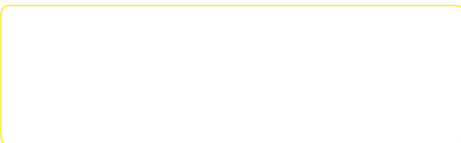
Options

| | |
|------------------------|---|
| Leafgate | Enhanced leaf pick-up |
| Stainless Steel Hopper | Lifetime warranty |
| PM-10 | Reduces harmful particulates for improved air quality |
| CNG | Alternative fuel for reduced emissions |
| In-Cab GB Tilt Control | Enhances curbline cleaning |
| Elevator Flusher | Extends elevator component life |

Air Quality Management District

The Global M4 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



**5405 Industrial Parkway
San Bernardino, CA 92407 USA
Phone: 909-713-1600**

info@globalsweeper.com

WWW.GLOBALSWEEPER.COM