

Engine

Cummins ISB-280	6 cylinder injected diesel, turbocharged and intercooled. 280 HP @ 2300 RPM. EPA 2012
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.
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Instruments

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

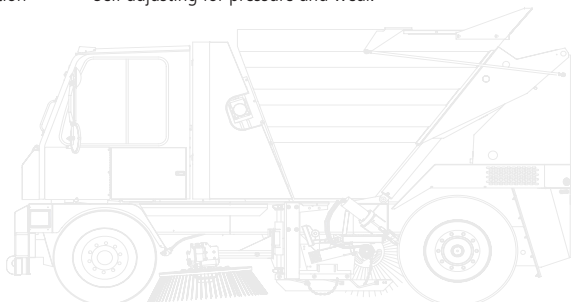
Powder Coated	100% TGIC
Body	White and black matte.

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.



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