



MS5H ROAD SWEEPER SPECIFICATIONS

General Specifications

Sweep Path:

Main broom only: 58" (1,473 mm)

Main broom and one side broom: 91" (2,311 mm)

Main broom and two side brooms: 124" (3,150 mm)

Chassis Specifications

Chassis:

Commercial Class 6

Power:

300 hp @ 2,200 rpm

Turning Radius:

20.1 ft (6,126 mm)

Make:

Freightliner M2 25,500 lb GVWR

Torque:

860 lb-ft @ 1,200 rpm

Suspension:

Front leaf spring / Rear air suspension

CDL:

Not Required

Brakes:

Air or Hydraulic

Contact us for detailed chassis specifications.

Engine:

Cummins L9, 8.9 L displacement

Wheelbase:

148" (3,759 mm)

Paint

Body:

High-gloss white

Undercarriage:

Black

Contact us for custom colors.

Available Enhancements

- Front LED strobe
- Interior hopper camera
- Rear curbside LED strobe
- Rear LED light bar or arrow board
- Street-side side broom camera
- Strip broom
- Conveyor washdown



Equipment Specifications

Main Broom:

Type: Prefab, disposable, polypropylene filled with steel tube
Diameter: 36" (914 mm)
Length: 58" (1,473 mm)
Drive: Hydraulic motor with direct drive
Speed control: Hydraulically adjustable
Digging pressure and wear control: Adjustable spring
Lift control: Hydraulic
Mounting: Full-floating trailing arm
Lubrication: Greaseless composite bushings with chrome pins

Side Broom:

Type: Disposable, dual 5 segment
Mounting: Trailing arm design
Diameter: 42" (1,067 mm)
Drive and lift: Hydraulic
Speed control: Hydraulically adjustable
Down pressure control: Inside cab
Tilt control: Inside cab
Flexibility: Free-floating and extended side-ways oscillation
Lubrication: Greaseless composite bushings with chrome pins

Hopper:

Volumetric capacity: 5 yd³ (3.8 m³)
Usable capacity: 4 yd³ (3 m³)
Lift and dump controls: Inside cab
Dump direction: Street-side
Inspection door: Curbside
Minimum dump height: 18" (457 mm)
Maximum dump height: 120" (3,048 mm) or 132" (3,353 mm)
Maximum hopper dump angle: 50°
Lift capacity: 11,400 lb (5,171 kg)
Lifting mechanism: Single, cradle mounted, multistage hydraulic cylinder
Lubrication: Greaseless composite bushings with chrome pins

Conveyor:

Type: Squeegee style with replaceable rubber edging
Conveyor floor: Bolt-in two section Hardox® abrasion resistant steel plates
Drive: Direct drive hydraulic motor
Speed control: Hydraulically adjustable
Components: Hardened steel conveyor chain with rubber sprockets

Systems Specifications

Electrical System (Sweeper and Chassis):

Type: 12 volt negative ground system
Alternator: 160 amp
Battery: Two 1,000 amp (2,000 CCA total)
Fuses: Standard automotive fuses
Wiring: Braided electric harness (identified, color-coded, stamped with Amphenol® and Deutsch® connectors)
Electrical enclosure: NEMA3 rated (housing central wiring and relays)

Water Spray System:

Tank construction: Polyethylene
Tank capacity: 360 gal (1,363 L)
Pump: Electric diaphragm
Spray nozzles:

- 4 across main broom
- 3 over each gutter broom
- 5 across front bumper

Pump control: Inside cab
Flow control: Inside cab (adjustable for each spray location)

Camera System:

Camera type: Waterproof, vibration resistant, infrared/LED
Locations: Curbside and rear
Monitor: 10" color LED display

Hydraulic System:

Pump type: Danfoss® variable displacement, load sensing, axial piston pump
Valves: Danfoss® PVG-32, 9-sections with manual override
Capacity: 32 GPM
Fittings: 37° JIC
Reservoir capacity: 32 gal (121 L)
Return line filter: 10 micron in tank
Filter restriction gauge: In return line filter
Breather: 3 micron
Cooler: Externally mounted SPAL® brushless electric cooling fan

Instrumentation/Controls:

Warning lamps and buzzer:

- Conveyor stall

Warning lamps:

- Hopper position
- Low hydraulic oil level and high hydraulic oil temperature

Water tank level gauge: Inside cab
Strobes: Street-side rear-mounted LED strobe

