



MT4H® ROAD SWEEPER SPECIFICATIONS

Alternate chassis: Ford F-550

General Specifications

Sweep path:

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

Main broom and two side brooms: 114" (2,896 mm)

Chassis Specifications

Chassis:

Commercial Class 5

Make:

Ford F-550 19,000 lb GVWR

CDL:

Not Required

Engine:

Ford PFI Gas V8, 7.3L displacement

Power:

335 HP @ 3,750 rpm

Torque:

468 lb-ft @ 3,750 rpm

Brakes:

Hydraulic

Wheelbase:

145" (3,683 mm)

Turning radius:

21.25 ft (6,477 mm)

Suspension:

Front coil spring / Rear air suspension

Contact us for detailed chassis specifications.

Paint

Body:

High-gloss white

Undercarriage:

Black

Contact us for custom colors.

Available Enhancements

- Front and rear LED strobes
- Interior hopper camera
- Drag shoe pivot arms
- Rear LED light bar or arrow board
- Street-side side broom camera
- Strip broom
- Conveyor washdown
- Stainless steel hopper



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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 4 and 5 segments
Mounting: Trailing arm design
Diameter:
- 40" (1,016 mm) street-side
- 42" (1,067 mm) curbside
Drive and lift: Hydraulic
Speed control: Hydraulically adjustable
Down pressure control: Inside cab
Tilt control: Inside cab
Flexibility: Free-floating and full sideways oscillation
Lubrication: Greaseless composite bushings with chrome pins

Sweeper Engine:

Make: Kubota V2403, Tier 4 Final
Type: 4 cylinder, turbocharged diesel

Displacement: 2.4 L

Power: 64.2 hp @ 2,700 rpm
Torque: 144.3 lb-ft @ 1,600 rpm
Alternator: 60 amp

Hopper:

Volumetric capacity: 4 yd³ (3 m³)
Usable capacity: 3.2 yd³ (2.4 m³)
Lift and dump control: Inside cab
Dump direction: Street-side or curbside
Inspection door: Curbside
Minimum dump height: 18" (457 mm)
Maximum dump height: 105" (2,667 mm)
Maximum hopper door angle: 50°
Lift capacity: 11,400 lbs (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 elevator chain with rubber sprockets

Systems Specifications

Electrical System (Sweeper and Chassis):

Type: 12 volt negative ground system
Alternator: 410 amp (chassis)
Battery: Two 750 amp (1,500 CCA total)
Fuses: Standard automotive fuses
Wiring: Braided electric harness (identified color-coded, stamped with Amphenol® and Deutsch® connectors)
Electric enclosure: NEMA3 rated (housing central wiring and relays)

Water Spray System:

Tank construction: Polyethylene
Tank capacity: 220 gal (833 L)
Pump: Electric diaphragm
Spray nozzles:
- 4 across main broom
- 3 in front of each gutter broom
- 5 across front bumper
Pump control: Inside cab
Flow control: At each spray location
Compliance: PM10 (Rule 1186 certified)

Camera System:

Cameras: Waterproof, vibration resistant, infrared/LED
Locations: Curbside and rear
Monitor: 7" color LCD 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: 31 gal (117 L)
Return line filter: 10 micron in tank
Filter restriction gauge: Inside 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
Sweeper engine shutdown warning:
- Low hydraulic oil level
- High hydraulic oil temperature
- Low engine oil pressure
- High engine coolant temperature

