

Sweep System - Power

Engine

Make John Deere 4045
Type 4 cylinder, diesel
Displacement 276 cu in (4.5L)
Bore 4.16 in (106.43 mm)
Stroke 5.0 in (127 mm)
Compression ratio 17.1
Horsepower 99 HP (74 kW) @ 2,500 RPM
Torque 215 ft-lbs (292 Nm) @ 1,200 RPM
Fuel tank capacity 50 gal (190 L)

Standard Accessories

Full flow oil filter, mechanical governor, heavy-duty dual dry type air cleaner with safety element pre-cleaner, fuel filter, fuel/water separator, coolant recovery.

Instrumentation

Gauges for- Tachometer/hour meter, oil pressure, engine water temperature, and charging system
 Control console warning lights for full load, Engine oil system, aux. engine running, hydraulic oil filter restriction, hopper up, machine level, low spray water, air filter, high aux. engine water temperature.

Sweep System - Components

General Specifications

Sweeping path:

Main broom only
60 in (1524 mm)
Main broom and one side broom
90 in (2286 mm)
Main broom and two side brooms
120 in (3048 mm)

Main Broom

Diameter 35 in (889 mm) **Length** 60 in (1524 mm)

Type Prefab. disposable, polypropylene filled
Core diameter 8.5 in (216 mm)

Digging pressure & wear control
Pneumatic, in-cab

Lift control Pneumatic, in-cab

Drive Hydraulic motor/direct drive

Mounting Full floating, trailing arm, with shocks

Speed Variable with auxiliary engine RPM

Bearings Sealed, self-aligning, re-lube

Pressure gauge In-cab

Gutter Broom

Type 5 segment nylon disposable with wire fill
Diameter 42 in (1067 mm)

Disc construction Steel plate

Speed Variable with auxiliary engine RPM

Flexibility Spring biased sideways oscillation

Drive Direct hydraulic, reversible, from cab

Mounting Free floating, trailing arm

Adjustment Inward, outward/forward, backward

Digging pressure/wear control

Pneumatic, from cab

Lift control Pneumatic lift with hydraulic extend

Broom material 26 in (660 mm) wire

Conveyor

Type Belt with molded-in rubber cleats
Material (belt) Rubber reinforced fabric
Speed Variable with auxiliary engine RPM
Flexibility 9 in (229 mm) oscillation for large object passage
Drive Reversible, direct drive hydraulic motor
Lift control Pneumatic
Bearings Sealed, self-aligning, re-lube

Debris Hopper—Series FW

Capacity volumetric 4.5 cu. yd. (3.5 cu. m)
Material volume 3.3 cu. yd. (2.5 cu. m)
Hopper lift and dump control Hydraulic in-cab
Inspection Door With access step
Maximum dump height
(bottom of discharge door) 10 ft 2 in (3100 mm)
Minimum dump height
(bottom of discharge door) 38 in (965mm)
Maximum hopper dump angle 50°
Time to reach maximum dump height 20 sec
Time to tilt hopper 13 sec
Maximum time for full height lift, dump, and lower cycle 70 sec
Design lift capacity 11,000 lbs (5,000 kg)
Lifting method Twin cylinder, two stage scissors
Right side dumping Standard

Electrical System

Sweeper wires color coded and labeled with circuit identification every four inches; connectors plated and polarized. 12V negative ground with minimum 145 amp truck alternator and 120 amp sweeper alternator. All circuits protected by circuit breakers and/or fuses. 1000 CCA auxiliary engine battery.

Pneumatic System

Compressor 15.2 CFM (0.37 cu. m/min.) @ 2,500 RPM

Air dryer Bendix heated AD-9

Hydraulic System

Sweep System Pump Three section gear drive with dual inlet
Capacity 26 GPM (98 LPM) @ 2500 RPM
Dust Control System Pump Single Section Piston 25 GPM (LPM) @2500 RPM
Fittings 'O' ring seal type
Reservoir capacity 32 gal (121 L)
Reservoir level Externally readable
Inlet strainer 100 mesh
Filter, return 10 micron, full flow with bypass
Filter restriction indicator In-cab
Breather 10 micron, spin-on

Wet Dust Control System

Tank construction Polyethylene, removable
Tank capacity 320 gal (1210 L)
Fill hose Anti-siphon, 16 ft 8 in (5080 mm) with strainer and 2.5 in (64 mm) NST coupling
Wash down Lower conveyor
Conveyor flusher Built-in cascade-type
Pump Centrifugal, 6 GPM @ 80 psi (22.7 LPM @5.8 bar)
 Broom dust control atomizing nozzles
 Controls on/off in-cab
 Non corrosive housing, 100 mesh screen.

Dry Dust Control System

Centrifugal dust evacuation fan. Large envelope filter with hydraulic shaker for dust removal. Dust control skirts on side and main brooms. Dust separator screen in hopper.

Available Enhancements

Extended Warranty on sweeper	Automatic lubrication system
Strobe light	Engine shutdown
Rotating beacon	temperature/pressure
Light protector for beacon or strobe	Lifeline® hopper liner
Fire extinguisher	Silicone hoses on auxiliary engine
Carbide dirt shoes	
Front spray bar	
Arrowboard	
In-cab side broom tilt with visual indicator	

Paint

Powder Coat:
 Undercarriage in standard Elgin gray
 Body in choice of 186 colors
 Consult factory for color chart

Chassis

Contact your Elgin dealer for detailed specifications.

Warranty

Sweeper	Chassis & Aux. Engine
1 year parts and labor	Consult factory



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Your Elgin Dealer is:

