

## Sweep System - Power

### Engine

**Make** John Deere 4045TF150  
**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

Tachometer/hour meter  
 Oil pressure, engine water temperature gauges  
 Control console warning lights for full load,  
 Engine oil system, aux. engine running,  
 hydraulic oil filter restriction, charging system,  
 hopper up, machine level, low spray water, air filter, dust control filter restriction indicator.

## 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**  
**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.

## Options

Extended Warranty on sweeper	Automatic lubrication system
Strobe light	Engine shutdown
Rotating beacon	temperature/pressure
Light protector for beacon or strobe	Urethane hopper liner
Fire extinguisher	Silicone hoses on auxiliary engine
Rear compartment cover	
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

<b>Sweeper</b>	<b>Chassis &amp; Aux. Engine</b>
1 year parts and labor	Consult factory



Elgin Sweeper Company  
 1300 W. Bartlett Rd.  
 Elgin, Illinois, U.S.A. 60120-7529  
 847-741-5370 Phone  
 847-742-3035 Fax  
 www.elginsweeper.com

## Your Elgin Dealer is:

