

Sweep System—Power

Engine

Make GM 3.0 L Natural Gas
Type In-line, 4 cylinder
Displacement 181 cu. in. (3.0 L)
Horsepower 65 HP @ 2500 rpm
Peak Torque 139 ft./lbs. @ 1600 RPM
Oil Capacity 4 qts.

Fuel System

- 3 composite 3600 PSI tanks
- 50 gallon Diesel Gallon equivalent
- Tanks include pressure relief and shut off valve
- Stainless steel gas line system including shut off valve, high pressure regulator, gauge, filter, vacuum shut-off valve, low pressure regulator

- Regulator includes a jacket to eliminate freeze-up
- Fuel system installed in accordance with NFPA standards

Standard Accessories

Full flow oil filter, mechanical governor, heavy-duty dual stage dry type air cleaner with safety element

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.

Truck—Power

Engine

Make Cummins BG230 Natural Gas, Turbocharged
Type In-line, 6 cylinder
Displacement 359 cu. in. (5.9 L)
Horsepower 230 hp (172 kw) @ 2800 rpm
Peak Torque 500 ft./lbs. (678NM) @ 1600rpm
Bore & Stroke 4.02 x 4.72 in. (102 x 120mm)
Compression ratio 10.5:1
Oil Capacity 4.0 U.S. Gals. (15 L)
Coolant Capacity 10.5 U.S. qts. (9.9 L)
Air/Fuel Regulation Cummins Electronic Control System
Ignition Cummins Electronic High Energy System

Chassis

Mounted on UD 3300 Chassis. Contact your Elgin dealer for detailed specifications.

Sweep System—Components

Main Broom

Diameter 35" (889 mm) **Length** 60" (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 Main broom pressure gauge

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. oscillation for large object passage
Drive Reversible, direct drive hydraulic motor
Lift Control Pneumatic
Bearings Sealed, self-aligning, re-lube

Debris Hopper—Series F

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
Maximum Dump Height (bottom of hopper) 10 ft. 2 in. (3048 mm)
Maximum Dump Height (bottom of hopper) 10 ft. 4 in. (3505 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.
Design Lift Capacity 11,000 lbs. (5,000 kg)
Lifting Method Twin cylinder, two stage scissors
Right Side Dumping Standard

Pneumatic System

Compressor 15.2 CFM @ 2,500 RPM
Air Dryer Heated

Hydraulic System

Pump Three section gear drive with dual inlet
Capacity 25 GPM (98 LPM) @ 2500 RPM
Fittings 'O' ring seal type
Reservoir Capacity 21 gallons (79 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

Water Spray System

Tank Construction Polyethylene, removable
Tank Capacity 280 gallons (1060 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, 5 GMP @ 40 psi (19 LPM @ 2.8 bar)
Spray Nozzles 3 per gutter broom, 3 for main broom
Controls On/off, volume in-cab
Filter Non-corrosive housing, 100 mesh screen

Options

| | |
|--------------------------------------|--------------------------------------|
| Extended Warranty on sweeper | Automatic lubrication system |
| Strobe light | Engine shutdown temperature/pressure |
| Rotating beacon | Epoxy hopper liner |
| Light protector for beacon or strobe | Left side dumping |
| Fire extinguisher | Hopper skylight |
| Extended side broom reach | Inspection door |
| Carbide dirt shoes | Silicone hoses on auxiliary engine |
| Front spray bar | Left side broom |
| Arrowboard | Rear compartment cover |
| In-cab side broom tilt | |

Electrical System

12V negative ground with 130 amp truck alternator and 95 amp sweeper alternator, dual maintenance-free truck batteries. All circuits protected by circuit breakers and/or fuses. Sweeper wires color coded and labeled with circuit identification every four inches; connectors plated and polarized. 925 CCA auxiliary engine battery.

Warranty

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

Paint

Powder Coat, consult factory for availability of colors.

Your Elgin Dealer is:

ELGIN

Elgin Sweeper Company
 1300 West Bartlett Road
 Elgin Illinois, U.S.A. 60120-7529
 847-741-5370 Phone
 847-742-3035 Fax

Low Emissions - Highly Economical - Extremely Quiet

The Elgin Eagle is now available powered by Compressed Natural Gas (CNG). This popular four wheel broom sweeper features a wide 10 ft. sweeping path, heavy duty No-Jam™ debris conveyor, and a variable dump height 4.5 cubic yard hopper. The alternative fuel dual engine Eagle is mounted on a commercial UD 3300 cab-over chassis powered by the Cummins BG230 engine, the first commercially available six-liter natural

gas engine that is capable of meeting the ultra-low emitting vehicle (ULEV) standards. The sweeper is powered by a GM 3.0 L L4 engine which allows for excellent fuel

economy with an impressive power to weight ratio. The engines share three 3600 psi composite reinforced aluminum cylinder fuel tanks. CNG is an alternative fuel that is economical, abundant in supply and produces approximately 10% of the pollutants normally emitted by traditional gasoline or diesel engines. The combination of the Elgin Eagle and clean burning CNG fueled engines are an environmentally sound solution to your sweeping needs.

For more information or a demonstration, please contact your local Elgin dealer.



The Elgin Eagle Series F CNG

