



SINGLE-ENGINE 4 WHEEL REGENERATIVE AIR SWEEPER

Searching for a solution that eliminates maintaining and servicing an auxiliary engine on a regenerative air sweeper? Elgin Sweeper Company has the answer. The Crosswind1® eliminates all things associated with a diesel auxiliary engine, providing value to customers that extends beyond having one less engine. The Crosswind1 has undergone years of customer focused testing and validation; ensuring a design that exceeds expectations!

ELIMINATES:

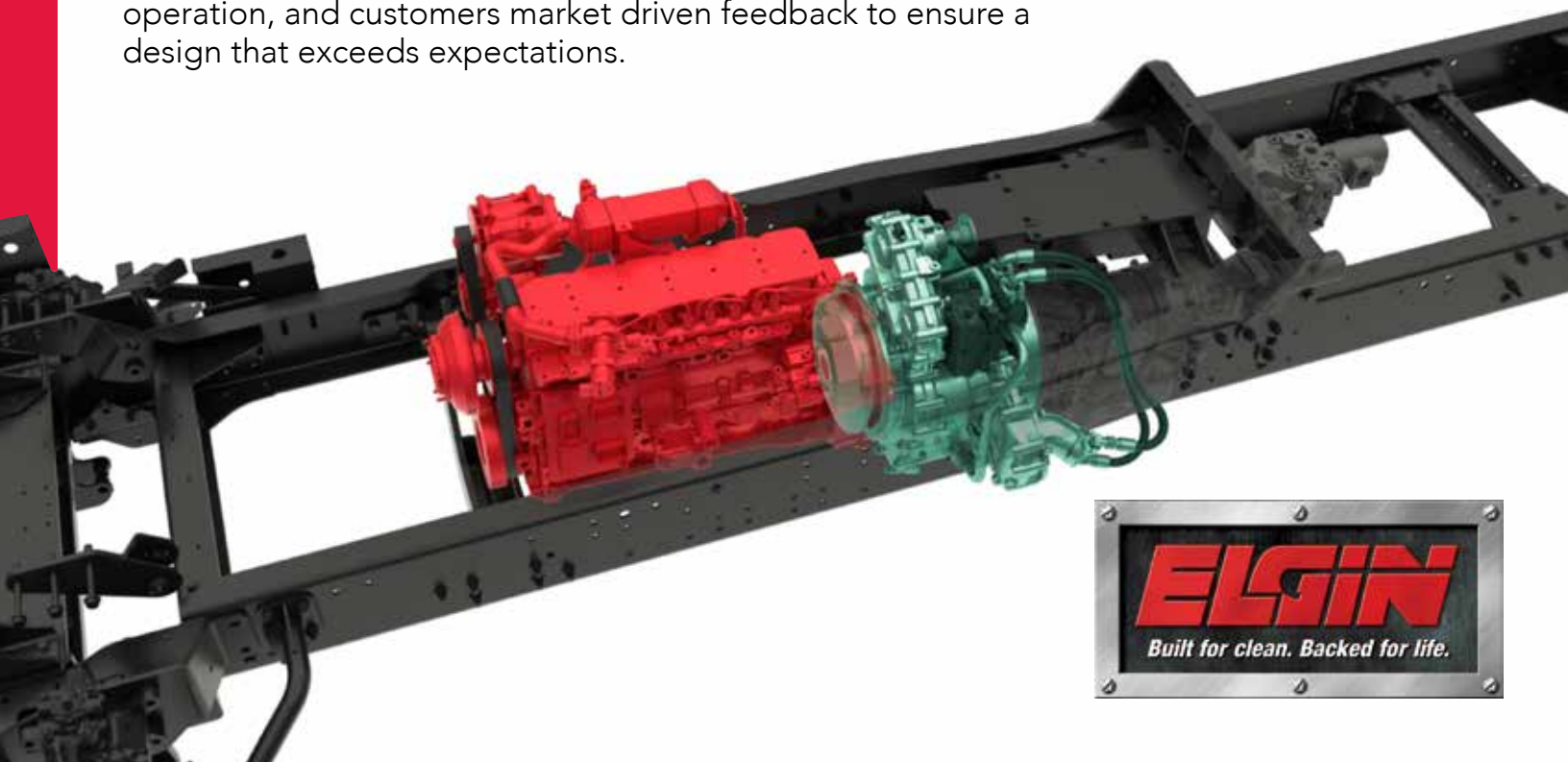
- Maintaining two engines
- Complex aftertreatment system, and maintenance
- Untimely auxiliary engine regenerations
- Cost exposure resulting from "missed" auxiliary engine regenerations
- Cumbersome belt tensioning systems
- Auxiliary engine noise and vibration

CUSTOMER FEEDBACK:

- Increases productivity
- Easy to use and learn; single push-button on-the-fly operation
- Quiet operation
- Reduces daily checks

EXHAUSTIVELY PROVEN OVER:

Years of testing and validation, with thousands of miles and hours in operation, and customers market driven feedback to ensure a design that exceeds expectations.



SWEEP SYSTEM - SINGLE-ENGINE

VARIABLE SPEED DEVICE (VSD)

Replaces auxiliary engine; installed between the chassis engine and the Allison transmission
"Road Mode" VSD produces 1:1 speed ratio between chassis and transmission
"Work Mode" VSD allows chassis accelerator pedal to control input to transmission and engine speed remains constant - fan speed is adjustable
 Singular in-cab push button control
 No parking brake requirement
 No complex EPA off-highway aftertreatment system

SINGLE-ENGINE SYSTEM

Make Variable Speed Device
Type Planetary Gearbox Design
Horsepower 240 (179 kW) approved input rating
Torque 560 ft-lb approved input rating
Air Cleaner Dual safety element dry type
Alarm For Low Hyd Oil / High Hyd Temp

CHASSIS ENGINE*

Make Cummins ISB 6.7 or equivalent
Type in-Line 6 cylinder, turbocharged diesel
Displacement 409 cu. in. (6.7 L)
Horsepower 200 (150 KW) @ 2400 RPM
Torque 520 ft-lbs (708 Nm) @ 1600 RPM
Fuel Tank Capacity 50 gal (189 L)

ELECTRICAL SYSTEM

Chassis Battery Rating 12 volt
 Sweeper Battery Rating 1000CCA
 Chassis Engine Alternator 160 amperes
 Lights Rear clearance, rear identification
 Reversing Safety Electric back-up alarm, sweep components raise automatically
 Wiring Harnesses Color coded, function stamped and labeled every 4 in (100 mm)

Instrumentation / Controls

Integrated Facilities Management - IFM:
 Blower tachometer, hour meter, fuel, voltmeter, coolant temperature, spray water level gauge, hopper up, hopper rear door open, full load indicator

VSD mounted Oil Level Sight Gauge

SWEEP SYSTEM – COMPONENTS

GENERAL SPECIFICATIONS

Sweeping path:

Pickup Head only
 90 in (2,286 mm)

Pickup Head & one Side Broom
 117 in (2,971 mm)

Pickup Head & two Side Brooms
 144 in (3,658 mm)

Travel speed Up to highway speed

BLOWER

Drive Direct Tire coupling with hydraulic
 2.87 cu-in (47 cc) displacement bent axis motor
Blower Construction Hardox brand steel
 Blower Housing 10 gauge (3.4 mm) Steel, replaceable urethane-lined for extended wear

PICKUP HEAD

Length 90 in (2,286 mm)
Head Area Approx. 2,700 in² (17,420 cm²)
Hose Diameters
 Pressure 14 in (355 mm)
 Suction 12 3/4 in (324 mm)
Control Hydraulic raising and lowering
Vacuum Enhancer External, manually controlled
Hose Connection Quick disconnect type near pickup head at lower area of suction hose
Hose Construction Flexible rubber steel reinforced

SIDE BROOM

Diameter 42 in (1067 mm)
Disc Construction Steel plate
Speed Constant

Drive Hydraulic motor, protected by relief valve
Mounting Free floating trailing arm
Motion Pneumatically inward/outward, raised/lowered
Adjustment Inward/outward, forward/backward
Digging Pressure/wear control pneumatic in cab
Sweep Position Fully extended or in front of pickup head with optional full retract feature
Type Segment set disposable

DEBRIS HOPPER

Volumetric Capacity 8 yd³ (6 m³)
Effective Dump Angle 50°
Dust Separator Self-cleaning, centrifugal
Lifting Hydraulic, two-stage telescoping cylinder
Hopper Dump Door Hydraulic open/close and lock/unlock
Hopper Dumping Control In-cab switches combined with Dump Mode control
Hopper Screens Hinged, quick release, steel

HYDRAULIC SYSTEM

Purpose Powers hydraulic motors on side brooms, blower fan, and activates hopper dump cycle
Hydraulic Blower Pump variable - piston type - with 4.2 cu-in (68.8 cc) /rev rating
Hydraulic Sweeper Pump gear driven with capacity of 19.5 GPM (73.8 LPM) @ 3400 RPM; sweeper brooms, hopper dump, and pickup head raise/lower
Reservoir Capacity 23 gal (87 L)
Filter Sweeper Functions System 10 micron spin-on

type filter, twin suction strainers 100 mesh. Cooler hydraulic system accessible without raising hopper.
Filter Blower System 6 micron canister type
Filter Reservoir Vent 10 micron spin-on type breather

SPRAY WATER SYSTEM

Water Tank Construction Polyethylene
Water Tank Capacity 240 gal (908 L)
Fill Hose 16 ft 8 in (5,080 mm)
Pump Type Diaphragm with run-dry capability with HI or LO selectable pump speeds
Pump Capacity 8 GPM (30 LPM)
Pump Pressure 40 PSI (2.7 bar)
Spray Nozzles Total of 16
 (21, with optional center broom)
 Quick release brass for ease of cleaning or service.
 7 in pickup head (12 if with center broom)
 3 in suction tube
 6 (3 each) side brooms
Controls On-off switches in cab, manually adjustable valves
Filter 100 mesh, cleanable
Fittings Prestomatic Push-To-Lok type with thermoplastic tubing

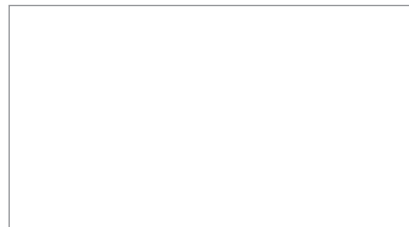
AVAILABLE ENHANCEMENTS

- Glycol recovery system
- FSX Airport Application System
- MemorySweep®
- Broom hour meter
- Full broom retract
- In-cab vac enhancer control
- Enhanced water control
- Aux. lighting packages
- In-cab side broom tilt
- Variable broom speed
- Wandering hose 8 in (203 mm) diameter
- Auto lubrication system
- LifeLiner® Hopper System
- Stainless steel hopper
- Hopper inspection door(s)
- Hopper deluge washout system
- Quiet Pak™ acoustical insulation on front cowl and access doors
- Hopper drain
- Center broom in pick-up head
- High/low pressure washdown
- Auxiliary water tank capacities
- Water system air purge
- PM-10 water system
- Caster pick-up head wheels
- Full-width magnet
- Cast aluminum side air blast nozzle
- Aluminum refillable side broom segments
- Extended warranty

PAINT

Powder Coated,
 Standard Elgin white and gray

Your Elgin Dealer is:



*Chassis dependent
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CHASSIS

Available on conventional chassis.

WARRANTY

SWEEPER

1 year parts and labor

VSD

3 year parts and labor



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 Specifications subject to change without notice.
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