Electric Broom Bear® 4 Wheel Mechanical Sweeper

GENERAL SPECS

Sweep Path:
Main broom only: 60"
Main broom & one side broom: 90"
Main broom and 2 side Brooms: 120"
Chassis Commercial Class 8
Wheel Base Chassis dependent
Warranty Sweeper, 1 year parts and labor

CHASSIS

Make Battle Motors
Model LNT
Motor Cascadia HVH410
Charge System J1772 CCS Charge Port
ePTO 13-27 kW @2750 rpm
Battery Lithium Ion 396kWH, 700V

MAIN BROOM

Type Prefab disposable
Polypropylene filled
Diameter 34" (864 mm)
Broom Material Polypropylene
Length 60" (1524 mm)
Core Type Disposable steel tube
Speed Constant
Drive Hydraulic motor with direct drive
Digging Pressure & Wear Control Variable geometry spring
Lift Control Hydraulic
Mounting Full-floating trailing arm

SIDE BROOM

Type 5 or 6 segment plastic disposable
Diameter 46" (1188 mm)
Broom Material 26" wire (660 mm)
Disc Construction Steel
Speed Adjustable on side of machine
Drive Full hydraulic
Digging Pressure & Wear Control Pneumatic, from cab
Lift Control Pneumatic
Flexibility Free-floating and full sideways oscillation
Mounting Trailing arm

CONVEYOR

Type Squeegee with replaceable rubber edging
Material (elevator bottom) Bolt-in multi section abrasion resistant steel plates
Speed Constant, forward and reverse
Flexibility Lift independent (for large object passage)
Drive (forward and reverse) Hydraulic motor
Adjustment Hydraulic chain adjuster
Lift Control Hydraulic (independent of rear broom)
Ground Clearance Liftable to 12" (305 mm) for bulk object passage

INSTRUMENTATION/CONTROLS

Warning Lamps & Buzzer
Amber: Coolant Level, Hydraulic Oil Level, Hydraulic Filter Restriction
Red: Battery Voltage, Coolant Temp, High Hydraulic Oil Temp
Working Lamps
Amber: Full Load Indicator, Conveyor Stall, Hopper Up, Low Water
Green: Elevator Down, Sweep Mode, Transport Mode, Dump Mode, Full Water
Red: Unlevel Ground

LOW VOLTAGE ELECTRICAL

Voltage 12 V/negative ground
Battery Group 31, 1900 CCA
Wiring Hot stamp identified with weatherproof connectors

HYDRAULIC SYSTEM

Sweep System Pump Quad gear pump
Capacity 26.7 gpm
Fittings O-ring face seal
Reservoir Capacity 23 gal
Inlet Strainer 100 mesh
Return Filter 6 micron
Breather 10 micron
Cooler Externally mounted
Valves Electro-hydraulic

HOPPER

Volumetric Capacity 4.5 yd^3 (3.4 m^3)
Material Volume 3.3 yd^3 (2.5 m^3)
Hopper Lift and Dump Controls Electro/hydraulic in cab
Inspection Door
Offload
Right Side
Minimum dump height 38" (965 mm)
Maximum dump height 11' 2" (3,404 mm)
Maximum Hopper Dump Angle 50°
Design Lift Capacity 11,000 lb (4,990 kg)
Lifting Mechanism Two stage scissors with hydraulic cylinders

WATER SPRAY SYSTEM

PM-10 Compliant
Tank Construction Polyethylene
Tank Capacity 360 gallons (1,362 L)
Fill Hose 15' 0" (4,572 mm) with 2.5" (64 mm) NST hydrant coupling
Pump Triplex Positive Displacement
Spray Nozzles 3 across main broom and over each gutter broom
Water Filter 80 mesh plastic housing
Controls In cab pump control and flow control valves at each side broom

AVAILABLE ENHANCEMENTS

- Chevron conveyor belt
- Outside cab, side broom down pressure control
- LED strobe
- Arrow stick
- Automatic lubrication system
- Fire extinguisher
- Hopper camera
- Hydrant wrench
- Lighting bundles

PAINT

Body:
High-gloss white powdercoat
Custom colors available

Undercarriage:
Grey powdercoat

CHASSIS

Battle Motors LNT
Contact your Elgin Dealer for detailed chassis specifications.

WARRANTY

Sweeper
1 year parts and labor

Your local Elgin Dealer is:

1300 W. Bartlett Road
Elgin, Illinois, U.S.A. 60120-7529
(847) 741-5370 Phone
(847) 741-3035 Fax
www.elginsweeper.com

© 2023 Elgin Sweeper Company
Federal Signal Corporation is listed on the NYSE by the symbol FSS.

Effective 03/23
Specifications subject to change without notice.
P/N 0705442-B