# The Single-Engine DCL1000SE

## DCL1000SE Single Engine

PATENT PENDING

### The Most Powerful & Efficient Debris & Leaf Collection System

- **Single Engine Power Chassis and Collection system w/the proven Marmon-Herrington VPD** (Variable Power Divider)
  - ✓ *Only 14 vs 36 Collection System Maintenance Checkpoints*
  - ✓ *Lower Fuel & Maintenance Costs*
  - ✓ *Lower Emissions*
- 150 Horsepower at the 32" Fan
  - ✓ *Unsurpassed Suction & Collection Speed*
- Narrow 102" Overall Width
  - ✓ *Access & Maneuverability*
  - ✓ *No Oversize Permit Required*
  - ✓ *Reduced Liability*
- Single-Person Operation
  - ✓ *Reduced Labor Costs*
- In-Cabin Controls
  - ✓ *Optimal Safety*
  - ✓ *Reduced Worker Fatigue*
- Patented ECO-MODE - Standard
  - ✓ *35% Reduced Fuel Consumption*
- 5000 LBS Lighter
  - ✓ *Greater Payload Capacity*
- Lowest Exit Bottom Exhaust - Standard
  - ✓ *Minimal Dust Cloud Dispersion and Visibility*
- Switch in-and-out of work mode within 1 second


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# DCL1000SE Maintenance Comparison

## Dual Engine: 36 Total Maintenance Points - 2.6 times more requirements

| Dual Engine (26) |
|---|
| Aux Fuel, oil and coolant |
| Clean Radiator Screen |
| Clean pre-cleaner |
| Check air filter for dirt and debris |
| Change engine oil |
| Clean and check battery connections |
| Check power band tension |
| Check power band condition |
| Check clutch and PTO linkage adjustment |
| Replace oil filter |
| Replace air filter |
| Change engine coolant |
| Check fuel tank for leaks |
| Check fuel filter |
| Clean crankcase vent tube |
| Replace crankcase vent filter |
| Replace fuel filter element |
| Service air intake system |
| Replace alternator |
| Replace starter |
| Replace starter solenoid |
| Replace water pump |
| Replace serpentine belt |
| Replace injectors |
| Replace turbo charger |
| Replace exhaust |

## ODB's Single-Engine: Only 14 Total Maintenance Points

| Both Single/Dual Engine (10) |
|---|
| Check for hydraulic leaks |
| Lubricate Impeller shaft flange bearings |
| Check impeller for damage, cracks or wear |
| Check blower housing liners for cracks or wear |
| Check hoist hydraulic fluid and filter |
| Change boom hydraulic fluid |
| Inspect intake and exhaust hoses for damage |
| Check exhaust duct gasket for wear |
| Inspect radiator and hoses |
| Lubricate hoist and hinge fittings |

| DCL1000SE Single-Engine (4) |
|---|
| Check VPD Oil Level (Daily) |
| Inspect and clean VPD oil cooler, breather, fan (250 Hours) |
| Replace charge pump, pressure and return filter (Annual) |
| Change VPD Oil and Filter (1,000 Hours) |


DCL800SM Dual Engine

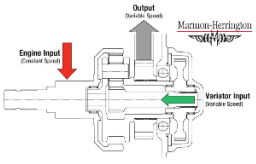
DCL1000SE Single Engine

## SPECIFICATIONS: DCL1000SE

### Chassis

- Freightliner M2 106 Chassis 33,000 GVWR
- Engine forward for less particulate matter build up
- Cummins 6.7L 240 HP 660 LB-FT @1600 RPM
- Turbo Diesel 18.7 CFM Compressor
- Allison 2500, w/ Marmon Herrington VPD
- 11,000 lb. FAWR, 22,000 lb. RAWR
- 70 Gallon Fuel Tank
- Block heater Phillips 1000 W / 115 Volt
- Detroit Fuel / Water separator w/heater
- Dual steering controls - Standard
- Dual premium high back air suspension seats w integrated lumbar support, adj shock absorber
- A/C, Power windows, AM/FM Radio

### Variable Power Divider (VPD)




- Marmon-Herrington VPD
- In Highway mode, trucks throttle pedal response is identical to standard truck.
- In Work mode, engine RPM is increased to 2,000. Throttle pedal response "feels" the same for travel speed.
- Switch into and out of work mode within 1 second
- PTO spins drive shaft to power hydraulic pumps for fan and boom.

### Boom/Hose

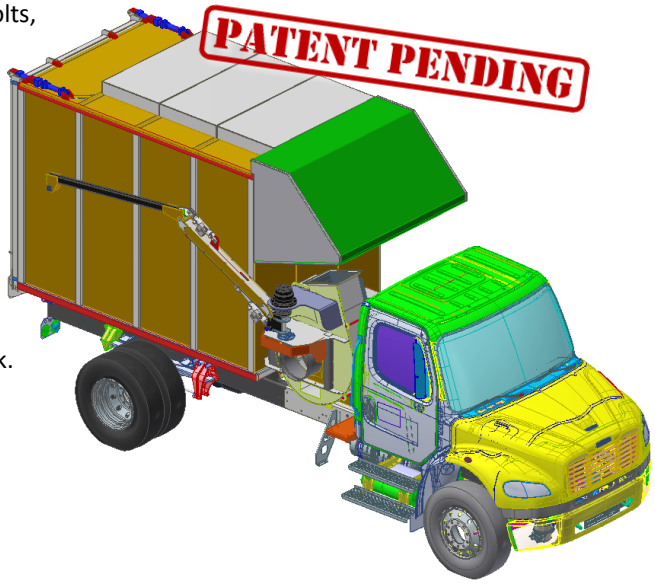
- 3-axis, in-cab motion control
- Hydraulically powered boom
- Clearly-Safe™ 62"+, Mailbox avoidable design
- 16"x144" Urethane hose w/steel nozzle

### Hydraulic System

- Variable Displacement 100cc hydraulic pump is driven by VPD PTO output
- Fixed displacement gear pump powers boom, dump and door latch
- Hydraulic charge filter, return filter and pressure filter (annual service)
- Pressure compensated proportional hydraulic control valve with manual overrides
- System diagnostics for filter replacement, hydraulic pressure, and temperature.

### Fan and Blower Design

- 150 Horsepower Self-clearing fan
- 32" Fan can spin to 2800 RPM within seconds for quick operator response
- Boom, hose and blower all swing out after removal of jack bolt and four restraint bolts, quicker service
- Fans are robotically welded, stress relieved and statically and dynamically balanced
- Back plate protects bearings and shaft
- Inspection door with engine interlock.
- AR400 material

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