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DATA SHEET: DCL800SM – Unique Value-Added Features

Self-Contained Chassis Mounted Debris & Leaf Collection Loader

DCL800SM

ODB continues to be the performance and quality leader due to their uncompromising high standards in materials and construction, and in their industry-leading innovations. Today's DCL800SM is the culmination of 20 years of continuous improvement on chassis-mounted system that's based on real world feedback from customers, dealers and relentless testing. ODB always takes the extra steps in engineering, design and materials to ensure their leaf & debris collection equipment are the…

- Safest
- Most Functional
- Easiest to Use
- Easiest and Fastest to Maintain
- Most Cost-Effective with the Lowest Cost of Operation and Ownership
- Most Efficient *(see more information below on ODB's patented ECO-MODE™ system.)*

PATENTED ECO-MODE™

Feature	ODB DCL800SM FEATURE DESCRIPTION & COMPARATIVE INFO
1. Chassis and Cab	**Class 6-7 Chassis – with Dual Steering Control, Standard** • Dual steering control enables optimal operation with a single employee, lowering collection costs and reducing labor requirements. • The spacious interior allows for a curbside positioned armrest were ODB installs the joystick for the collection boom control. This provides the optimal user ergonomics. *(A-pillar mounted joysticks, typical in smaller cabs, are cumbersome and can lead to operator fatigue. This configuration also decreases visibility when in the stowed position.)*
2. Collection Boom & Swing Controller	**3 Axis, In-Cabin Boom Motion Control with Proportional Hydraulics** • Engineered for Single Person Operation • ODB's cabin-controlled boom, with up/down, left/right, and in/out action, with 13-foot reach. • ODB's boom controlled with a wheel-type planetary reducer that is a proven solution for high frequency, low backlash movement. • Proportional control provides operational stability, significantly reducing stress associated with torque and inertia stresses, increasing the service life and reliability of the mechanism. • Easier to use ensuring a single operator can complete their job quickly, and most importantly, safely. • Load sensing safety reliefs delivering smooth operation and easier handling.
3. Collection System Engine	**74 HP John Deere Diesel Engine (Final T4)** • With decades of heavy-duty service, ODB has found John Deere diesel engines to deliver the most efficient and reliable operation available, as well as providing the most extensive service network. • ODB also offers the Kubota 3.8L, 87 HP as a gasoline option.

4. Operating Efficiency Upgrades
PATENTED ECO-MODE™
	ODB's Patented ECO-MODE™ High Efficiency Automated Throttle System w/Leaf-Sense™
	an ODB EXCLUSIVE
	ECO-MODE™ automatically engages when the boom is not in collection mode, reducing engine speed to 1,200 RPM, significantly reducing fuel consumption.
	• Research shows that max auxiliary engine RPMs are required only 30% of the work shift.
	• Fuel Consumption reduced 60-70%
	  • *3.1 fewer gal/hr. At $4.89/gal, $15.16/hr saved. ROI on ECO-MODE™ option is in about 7-8 days.*
	  • *$1,500 to $2,500 saved per month.*
	• Increases operating runtime capacity by up to 208%.
	• Dust reduced 50% when engaged. - Noise reduced 40% when engaged.

5. Auxiliary Engine Radiator Air Screen	**ODB's Exclusive Cool-Flow™ Pleated & Boxed Protective Radiator Air Screen** an ODB EXCLUSIVE • ODB's Cool-Flow™ pleated & boxed perforated steel protective screen design effectively keeps unwanted debris out of the radiator, optimizing air flow and ensuring consistent cooling. • Tool-free service access is fast and easy with ODB's quick release clamp and hinge design.

6. Fan PTO Clutch Coupling	**In-Cab Remote Controlled Electric Automotive Style PTO Clutch with Belt-Drive. (Standard)** an ODB EXCLUSIVE ODB's belt-driven PTO clutch coupling was designed to for safer, more efficient single operator operation, ease of maintenance and overall system reliability. • ODB's fan clutch coupling system comes standard with in-cabin remote control. • In-cabin control allows the operator to safely remain in the cab and out of the elements when engaging the fan system, and to dump without blowing air and material into the environment. • The heavy-duty automotive style clutch with belt-drive allows the variable control of fan engagement. • Belt-driven systems reduce the stress on the engine bell housing and crank shaft, increasing the life of the auxiliary engine. • Belt-driven systems are also very easy and quick to adjust.
7. Active Dust Control	**ODB's In-Box Downdraft Street Side Low Bottom Exhaust w/Perforated Screens** an ODB EXCLUSIVE • Virtually eliminates visible debris exiting the hopper. • Narrower box width allows for easier access into tight areas w/improved safety margin when driving. *(90" vs 102").* • The box exhaust is on the street side of the unit, at a low position below the floor of the debris collector body. This reduces the dust cloud dispersion near the operator and parked cars. This also prevents the dust from exiting at a height that could circulate back to the auxiliary engine radiator. • ODB's heavy gauge perforated screens are robust and can be expected to last the life of the system, never requiring maintenance or replacement *(unlike expanded metal and mesh screen designs)*.
8. Collection Boom Hose Configuration	**16" x 144" Urethane Vacuum Hose with Clearly-Safe™ Elevated Reach (68")** an ODB EXCLUSIVE • ODB has engineered the DCL800SM to incorporate the Clearly-Safe™ elevated hose mounting system, highest available at 68" from the bottom of the hose to the ground. • At 13-feet, the ODB DCL800SM has the longest standard reach. • This system enables the operator to go over and around mailboxes and other roadside obstacles, improving collection rates, thoroughness and safety, and reduces damage claims *(and the associated hassles!)*
9. Fan Design SHRED MASTER™	**High-Volume Shred-Master™ Fan/Impeller with ODB's integrated backplate** an ODB EXCLUSIVE • ODB's 28" Shred-Master™ shredder fan option increases compaction 60% more than a 30" traditional fan. • ODB's integrated back shielding plate protects the rear fan housing from unnecessary wear, preventing premature maintenance and shields the bearings from excess debris. • The ODB fan design is "self-clearing" optimizing fan capacity and efficiency. • ODB fans are constructed using robotic welding with heavy gauge AR 400, which provides the optimal balance between hardness and impact strength, ensuring reliable service life under unpredictably harsh conditions. • ODB's fans are stress relieved and dynamically balanced.
10. Fan Bearings	**ODB's Proprietary Quad-Glide™ Quad Sealed Bearing System** • ODB has worked for years continually improving bearing robustness and reliability. • The Quad-Glide™ bearing system was designed in collaboration with TIMKEN's® engineering & development team specifically for this harsh application.
11. Hopper Construction	**Heavy Duty 11 Gauge Steel** *(vs 12 gauge)* an ODB EXCLUSIVE • Integrated floor drainage system to minimize water retention and reduce weight. • Hopper width: 87" (7.25') is narrowest in Class for easier access to tight areas. • Perforated steel vented top for proper air flow and minimal dust.

ODB's Hook Lift Chassis