

SCL800SM-3X

“One Man Operation” Leaf Collector



The fast, efficient way to collect leaves. One person, one vehicle
- Collect leaves safely, without mess from the cab of the truck.



- Reduce Labor Costs
- Collect Leaves Faster
- Increase Productivity
- Save Money

One Man controls the entire leaf collection process from the cab of the truck. The operator controls the engine, engage / disengage PTO, controls the suction hose and dumps the body without ever leaving the truck. There is no leaf crew or operator fatigue and leaves are collected up to 25% faster than with traditional leaf crew units.



ODB Company
Municipal Products Since 1910



IN-CAB CONTROLS

The entire leaf collection process is controlled from the cab. Controls and gauges include: tachometer, hour meter, oil pressure gauge, temperature gauge, ignition switch, Murphy shutdown system, remote throttle, remote clutch engagement, dump body controls and boom controls. (Touch screen controls are available as an option)



3 AXIS BOOM ASSEMBLY

ODB's 3 axis boom allows smooth, precise movement of the suction hose to the leaf pile. Combining two hydraulic cylinders for the up/down and in/out movements, plus a geared sprocket drive for the left/right movement allows the operator to place the suction hose in the desired location smoothly and precisely. The boom is controlled with a joystick located in the cab for effortless leaf collection.



BOOM SUPPORT MOUNT

ODB's 3 axis boom is supported on its own tubular steel mount. This keeps the weight of the boom of the blower housing making for a sturdier boom. The boom support is hinged to allow the blower housing face to be removed without having to remove the entire boom assembly. This is a tremendous labor saving feature.



VALVE BODY

The heart of the multi-axis hose boom is the state-of-the-art valve body. This valve body includes a pressure relief valve, "dead man cartridge", flow divider and multi-port cartridges and solenoid assemblies. The entire assembly is conveniently located for easy access to all components of the valve body assembly.



AUTOMATIC DOOR LATCH

The top hinge door and hydraulically controlled door latches allow the operator to open and close the rear door with the press of a switch from inside the cab.





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Engine

John Deere 4045T water-cooled diesel engine; 84HP; 276 CID.

Air Cleaner

Dry element with pre-cleaner

Radiator

Pressurized, heavy-duty

Radiator Screen

Constructed of 1/2” expanded flattened steel with steel mesh. Screen is hinged to allow for cleaning without powering down the engine

Engine Controls

In-cab controls mounted in a custom instrument panel. All gauges and engine wiring are connected to a state-of-the-art circuit board, with circuit breakers, for easier and more reliable connections. Gauges include: tachometer, hour meter, voltmeter and oil pressure gauge. All engine monitoring gauges are illuminated. Automatic safety shutdown for high temperature or low oil pressure.

In-Cab Controls

All engine controls as described above as well as joystick control of the 3-axis boom. Optional controls include: in-cab dump body control, clutch engage / disengagement, rear door open/close control.

Engine Sheet Metal

Engine is covered by a custom sheet metal enclosure constructed of 16-gauge steel. The enclosure has front and rear doors, which are louvered for proper air circulation. Two doors are provided

PTO

Heavy duty 13” automotive style PTO and clutch with safety engagement system.

Drive Type

Belt Drive

Belt Drive

Power is transferred from the engine to the impeller via a 4-groove Kevlar, power band belt. The power band is adjusted by raising and lowering the engine by simply turning four, two inch diameter engine supports.

Impeller Shaft

2-1/4” diameter hardened shaft.

Drive Bearings

Two heavy duty, four bolt flange bearings with double row, precision spherical roller bearings and utilizes an eccentric locking collar to lock the shaft instead of set screws. The bearing housing is made of steel. The bearings have a triple lip seal that allows grease to purge and keeps dirt out. The bearings and shaft are protected from debris in a pedestal constructed of 12-gauge steel. The flange bearings have a Teflon seal to prevent any foreign material from seeping through the blower housing.

Trailer Chassis

Heavy-duty channel steel, formed and welded. Chassis is constructed of 3” x 8” tubular steel with a 1/4” wall thickness. Dimensions (not including truck)

14 CY - 98” high x 101” wide x 145” long

20 CY - 98” high x 101” wide x 176” long

25 CY - 98” high x 101” wide x 203” long

30 CY - 98” high x 101” wide x 221” long

Chassis Lighting

Stop and turn signals with turn signal indicators are standard. LED strobe lights are mounted in the rear.

Impeller

32” diameter with 6 gusseted blades are constructed of abrasive resistant T-1 steel with a Brinell hardness exceeding 400. The impeller is completely stress relieved via Bonal stress relief technology to eliminate weld cracking and weld distortion for the highest structural integrity possible.

Blower Housing

17-degree exhaust. Outer housing is constructed of 10 gauge welded steel, front and back plates are 7-gauge steel. Inspection / clean out door is located on the face to facilitate convenient inspection of internal contents or condition. A safety kill switch is located on the door to shut down the engine when the door is opened.

Liners

Slip-in style constructed of 1/4” abrasive resistant steel.

Suction Inlet

Located on curb side of unit capable of a 180 degree range of motion.

Intake Hose

16” diameter x 100” long. Heavy duty wire reinforced urethane hose.

Hose Boom

Hydraulically controlled 3 axis boom, movement up/down, in/out and left/right.

Boom Controls

In-cab joystick

Hoist Hydraulics

Gear driven hydraulic pump connected directly to the engine.

Dumping Hoist

Uses a Crysteel hoist capable of dumping 32,000 pounds (14CY), 36,000 pounds (20CY), 45,000 pounds (25CY / 30CY)

Box Container

Self dumping container constructed of 12-gauge steel with vented top and top hinge door. Available in 14, 20, 25 and 30 CY capacities.

Vented Top Screens

Easily removable 1/2” expanded steel mesh screens are located on top of the box container. Two screens for the 14 and 20 CY boxes and 3 screens for the 25 and 30 CY containers.

Fuel Tank

30 gallon capacity fuel tank manufactured of 1/4” thick roto-molded polyethylene.

Empty Weight

14CY-7,000 pounds, 20CY-7,900 pounds, 25CY-8,500 pounds, 30CY-9,000 pounds.

Paint

All metal parts are thoroughly cleaned, primed and dried separately. Two coats of automotive quality paint is then applied.