

**GENERAL:** The SC-16 Plus shall be a multiple purpose leaf vacuum system designed to accomplish a wide range of tasks. This versatility is possible because the Heavy Duty trailer incorporates a dump body and hoist. By removal of the leaf box from the unit, the trailer has the capability and use of 10.5ft.dump body. The SC-16 Plus is a 16 Cubic Yard machine.

**Comply** Yes\_\_\_ No\_\_\_ **If No; attach a separate sheet for exceptions.**

**POWER:** Power for the John Deere or Kubota Motor. This power unit is a water-cooled diesel with 196/276 inches of displacement developing 85/96HP @ 2500 RPM and 190+ ft-lb of torque @ 1400 RPM. The power unit is mounted on a structural base. The engine is equipped with a 12VDC electrical system with starter, 65 Amp alternator, Heavy Duty battery, dry air cleaner, 40-gallon fuel tank, and muffler. Engine controls include: Start and stop switch, alternator warning light, temperature gauge with high temperature automatic shutdown, oil pressure gauge with an automatic low pressure shutdown, throttle control, and volt meter. The power unit has an 11" or 13" clutch system. The motor shall have locking doors and the radiator must be hinged for easy cleaning. The engine has a 30 HP auxiliary drive off of the flywheel.

**Comply** Yes\_\_\_ No\_\_\_ **If No; attach a separate sheet for exceptions.**

**(Option) POWER TRANSFER:** The power-take off is a 13SKFE Kraft Fluid Coupler. This unit bolts directly to the flywheel housing. The power mechanism of the fluid coupler bolts directly to the flywheel. This eliminates any direct mechanical connection between the engine and the impeller. The fluid is an ISO 32 and if the temperature of the fluid becomes high enough to damage any part of the power take off a drain plug will release the fluid protecting the power take off and the engine. The shaft extending from the power take off is 2¼" manufactured from material with a 1030-carbon rating.

**Comply** Yes\_\_\_ No\_\_\_ **If No; attach a separate sheet for exceptions.**

**HYDRAULIC EQUIPMENT:** Shall consist of a hydraulic pump mounted to the block of the motor with an SAE A style flange with not less than a 5 gallon per minute gear driven pump. Not less than a 7 Gallon oil reservoir shall be mounted on the trailer frame between engine and blower housing. A high-pressure hose to a flow control valve shall connect the pump, and this in return connected to a single section double acting control valve. **(Option Power Parking Jack) There shall be one 2" diameter double acting cylinders with 16" chrome plated piston rods. This cylinder shall be attached to the superstructure by mean of power parking jack.**

**Comply** Yes\_\_\_ No\_\_\_ **If No; attach a separate sheet for exceptions.**

**BOX CONTAINER:** The SC-16 Plus, self-dumping Leaf Box Container is constructed of ¼" structural angle and 12 gauge steel sheeting. The top of the box has at least (2) four-foot section of expanded steel mesh screens for efficient airflow. The rear door (gate) is attached to the top of the box by (3) hinged devices and allows easy opening for the discharge of leaves and debris. The hinges pivot at two points on each hinge. The door (gate) is secured in the closed position by the dump body tailgate lever at the front of the dump body; this allows the operator to operate the door from a safe distance while dumping the trailer. The box is raised for dumping by actuating the hydraulic valve located at the left front of the trailer. The box is attached to the dump body by bolts in the headboard and the pins at the rear of the body and is removable by removing the bolts and lifting the box at the lift eye locations on top of the box.

**Comply** Yes\_\_\_ No\_\_\_ **If No; attach a separate sheet for exceptions.**

**SUCTION IMPELLER:** The impeller consists of (6) blades fabricated from 3/8" steel plate, AR400F material with a Brinell hardness exceeding 400. The blades are electrically welded to a heavy-duty hub with a 2 1/4" diameter mounting dimension and are gusseted (2) places behind each blade. The standard impeller is 30/32" diameter and a 12 1/2" in width. All impellers are statically and dynamically balanced and have an approved blower capacity that is not less than 22,000 cubic feet per minute for smooth operation. Impellers can be rebalanced depending on the condition of the blade material. Material Certification of fan hardness must be included.

Comply Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.

**TRAILER:** The trailer is constructed of steel rectangular tubing 2"x 6"x 1/4" wall. The running gear of the trailer consists of (2) 10,000# axles and leaf springs rated in excess of 20,000# GVW. All wheels have electric brakes. The tires are 8 x 16 x 8PR or equivalent. The dump body is securely attached to the trailer frame and incorporates a Galion-Godwin model 100-U 10.5' dump body and hoist model GS 615 Class C (13 ton Mechanical Capability) conversion double acting hoist for power up and power down. The body is equipped with a body prop for safety when working under the body. The unit is equipped with DOT lighting and the trailer is wired to A.T.A. standards. (Customer to provide schematic of towing vehicle lighting system at time of order if not A.T.A. 6-pole standard.) Trailer must not be taller than 120".

Comply Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.

**DUMP BODY:** The trailer sub-frame is constructed of steel rectangular tubing, 2"x 6" x 1/4" wall. The sub-frame frame and incorporates a Galion-Godwin model 100-U body. The body is 126" long, with an inside width of 84", a side height of 18", and a front height of 24". The floor is constructed of #10 gauge high tensile steel with a 2" radius to the sides. The front head and sides are constructed of #10 gauge high tensile steel. The side is braced with three tapered box braces per side with sloped running boards, dirt shedding top rails and full depth corner posts. The dump body sub-frame is stacked with cross-members on 15" centers. The long-members are 6" 8.2 pound per foot channel with 3" 3.5 pound per foot channel cross-members. The dump body tailgate is included and is 19" high. It is constructed of #10 gauge high tensile steel. The top and bottom hinge pins are 1 1/4" material. The Tailgate hook is 3/4" forged steel. Full and continuous welds on the body shell and tailgate. The body is equipped with a body prop for safety when working under the body. The unit is equipped with DOT lighting.

Comply Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.

**HOIST:** A model GS 615 Class E conversion double acting hoist for power up and power down. The hoist is capable of lifting 13 ton with an 18" overhang. The cylinder has a 6" bore, 15-7/8" stroke, and a 1.75" diameter piston rod. The hoist is powered from a gear driven pump on the engine.

Comply Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.

**BLOWER ASSEMBLY:** The blower housing is constructed of #7 and #10 gauge steel with a 1/4" plate full wrap around replaceable, abrasive resistant liner. The liner is held in place by bolts. The blower housing dimensions are 47" high, 45" long and 15" wide. The outlet section of the blower housing is 14" x 16" rectangular. The blower housing is volute in shape allowing more efficient airflow during suction. The blower housing is removable from the machine by bolts. The suction inlet is mounted to the housing by two bolts to provide easy removal of the suction hose assembly. The blower is rated at 22,000 CFM minimum.

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.**

**EXHAUST ASSEMBLY:** The exhaust system is a long sweeping elbow that is welded to the front of the box container. The elbow is fitted over the exhaust section of the blower housing when the box container is in the lowered position. The end of the elbow is tapered to assure proper alignment over the blower housing exhaust. The top plate of the exhaust tube is 1/4" material.

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.**

**INTAKE HOSE:** The intake hose is 16" diameter x 10ft. long and is attached to the inlet collar by quick acting nylon strapping clamps. The hose is constructed of wire wound reinforced urethane for ease of handling and offers excellent abrasive wear resistance.

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exception.**

**Hydraulic Power Overhead Hose Boom:** For ease of operating the utility hose, an electric over-hydraulic pump activates a hydraulic cylinder of at least 2"x 16" and connects to a tubular boom assembly. The operator's hand assembly has "THUMB-TOUCH" control switch that raises or lowers the utility hand hose during the operation of leaf loader. An engine "kill switch bottom" is also located on the operator's handle.

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exception.**

**PAINT:** Some subassemblies are primed and painted during assembly. The finished machine is painted with an industrial paint with two (2) coating. The customer is invited to inspect and run the machine before is goes to final paint.

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.**

**Lighting:** Trailer is equipped with standard Stop, Turn, and Parking lights with a six or seven pole trailer connector. Trailer has reflectors at all four corners.

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.**

**WARRANTY:** Two years engines warranty on the engine and a one-year warranty on parts and labor on the leaf machine. **Standard Warranty on All Purchase Items**

**Comply**      **Yes\_\_\_ No\_\_\_ If No; attach a separate sheet for exceptions.**

Pricing for DinkMar SC-16 Mule Machine \$29,889.00 List Cost

- Option: Kraft Trans Fluid Clutch
- Option: Manual Power Swing Arm
- Option: Electric Power Swing Arm
- Option: 99hp John Deere 4045T
- Option: Belt Drive System
- Option: Barn Door Tail Gate

- A. 100-U 10.5' Galion-Godwin Dump Body and Hoist
- B. 96hp Kubota Motor or 80hp John Deere Motor
- C. 12ga. Steel Leaf Box Material
- D. .25"x 1.5"x 1.5" Structure Angle Material
- E. .75" #9 Expanded Metal with Trap Tie Down Bracket
- F. DinkMar Double Action Rear Door Hinge Assembly
- G. 16" x 10' Rubber Intake Hose
- H. Gear Drive Pump for Hydraulic Hoist and Parking Jack
- I. 7 Gallon Oil Tank with 40 Gallon Fuel Tank
- J. 5 GPM Gear Pump Assembly
- K. Over-Head Boom Assembly with 12Volt Hydraulic System
- L. 10,000# Axles with Electric Brake and Brake away System
- M. 30/32" Fan Assembly AR400F Material with Taper Bushing
- N. 1/4"x 2"x 6" Tubing Trailer Frame
- O. Adjustable Trailer Hitch Assembly
- P. LED Lighting System (Tail Light, Marker, Turn, and Stop)
- Q. 3" Strobe Light Located Rear Driver Side