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## **SPECIFICATIONS GIANT-VAC™ MODEL 6500-TR14 MUNICIPAL LEAF LOADER**

**ENGINE:** An 65 hp 4-cylinder, gas, 177 cubic inch, air cooled engine shall be supplied. The exhaust valves are to have a stellite face with stellite valve seat and positive type valve rotors. The crankshaft is to be drop forged, dynamically balanced and heat-treated. An oil bath air cleaner with a visual type pre-cleaner shall be incorporated. The electrical system shall have a 35 AMP capacity alternator and 12-volt starter. The engine shall have a high-temperature shut-off safety switch for protection against over-heating.

**ENGINE INSTRUMENT PANEL:** Includes ignition switch, ammeter and oil pressure gauges and locking T-type throttle handle plus a choke handle.

**THE ENGINE BASE:** Shall be box type (unitized design) 9-gauge steel specifically designed to above engine.

**FUEL TANK:** Shall be mounted under the engine base for reasons of safety and shall have a 30-gallon capacity. It shall be of all steel (13 gauge) construction and have two internal baffles.

**BLOWER IMPELLER HOUSING:** To the above engine base is bolted the blower housing. Provisions shall be made so the blower housing can be bolted with exhaust in several positions as follows: In a vertical position for trailer mounted operations; at a 30-degree angle when front mounted. The blower housing shall be a minimum 44" high - 31" across and 12" wide, made of ¼" steel plate and equipped with a two-piece replaceable liner of ¼" thick steel. The wear liners shall be secured by (12) heat treated alloy steel flat head socket cap screws and lock washers with nuts to provide wear resistance against abrasive materials and for safety reasons.

**IMPELLER:** Shall be 29½" in diameter and will have four blades not less than ¾" thick steel. It shall be welded construction with a back gusset plate not less than 3/16" thick steel and a hub of not less than 4" in diameter. Impeller shall be directly mounted on the engine crankshaft. Suction capability shall be not less than 22,000 C.F.M.

**IMPELLER TO IMPELLER EFFICIENCY:** For the above high efficient impeller housing - shall be designed with no less than ½" clearance from the tip of the impeller to the inside of housing. This will prevent excessive material build-up in the impeller housing and to help reduce impeller and impeller housing damage from foreign objects. **IMPELLER AND IMPELLER HOUSING THAT DO NOT MEET THE ABOVE RATIO WILL NOT BE ACCEPTED.**

**INTAKE HOSE AND BOOM SUPPORT:** The intake hose shall be 8 feet long and 18" in diameter. It shall be fabricated of thermoplastic urethane and reinforced by a heat-treated steel coil and outer polyethylene wear strip. (Hose weighing not more than 4.5 pounds per foot.) The pick up end of hose shall be fitted with an 18" round intake nozzle constructed of 16-gauge steel. Nozzle shall have a semi-circular 1" O.D. tube handle grip. The boom pivots on two 1-1/2" diameter flanges bearing over a 10-foot wide path. The hose support boom is spring-loaded to pivot over the center of the intake hose for optimum ease in operating. Boom to be 1-¼" tubular construction and 1/8" wall thickness and shall be not more than six feet in length capable of supporting a weight of 175 pounds. The front of the trailer frame shall have provisions to hold the intake hose and nozzle forward for safe transportation.

**DISCHARGE SECTION:** Shall be direct from the blower housing to the hopper body. It shall be all 9-gauge steel integrally welded, 12" square and shall have ¼" steel bolt-in liner. A straight and curved right angle section plus a breakaway connection for dumping the hopper shall be supplied. The discharge duct shall have provisions so that the debris hopper can be dumped without the removal of the hose support boom.

**TRAILER FRAME:** Shall be approximately 65" wide, 222" long and shall be fabricated from 8" x 3" x ¼" box beam side channels with three 8" x 3" box beam cross channels. The frame shall also have two 4" x 2' x ¼" channels to support the dump cylinder. The complete frame shall be securely welded and be of all steel construction. The 1½" thick lunette

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ring type draw bar shall be securely welded to the front of the frame center 3" x 8-1/2" x 1/4" box beam. The trailer frame shall have two 3 1/2" tube type steel axles rated 7,000 pounds each (total 14,000 lbs) with 4 leaf springs rated at 7,000 pounds per pair (14,000 lbs. total) with swivel equalizer between the axles. The four (4) tires shall be 800 x 14.5 x 12-ply rating with donut type all steel rims. Twelve-inch electric brakes shall be on all wheels. The axle springs attaching parts shall be securely welded to the trailer frame side channels. The trailer jack shall be hydraulic ram type with 4" diameter cylinder, 2" piston and 24" stroke and 6" square metal base. The trailer frame shall have safety chains for towing safety and electric breakaway kit plus adjustable tow tongue.

**HOPPER OR DEBRIS BOX:** Shall be 14 cubic yard capacity and shall be approximately 96" wide by 101" long by 88" high. The hopper floor shall be fabricated in three sections of 10-gauge metal. Each to be unitized in design and electronically welded. The hopper side and front shall be fabricated also in three sections of 13 gauge metal and each section shall have a replaceable full filter screen fabricated from 1/4" expanded mesh metal and a 13-gauge steel channel frame. The hopper shall have a one-piece top hinged rear door with two long coiled springs to assist in opening the door for ease in dumping. A positive locking easy operated door lock shall be supplied. The hopper shall be self-dumping by a 6"hydraulic cylinder with scissors type construction which shall have a 24,000 pounds capacity.

**HYDRAULICS:** The unit shall feature a heavy duty D.C. 12-volt self-contained hydraulic power unit. The system shall include pump, D.C. motor, reservoir tank, high-pressure hoses and a double spool valve to power the hydraulic trailer jack and the hopper dump ram individually.

**LIGHTS:** The unit shall be equipped with lights and reflectors that meet I.C.C. specifications.

**PAINT:** The unit shall be thoroughly cleaned and given two coats of rust inhibitor primer and two coats of Giant-Vac Red finish. The frame and axles shall be painted black. The engine (power unit) shall be painted engine manufacturer standard color.

**OVERALL DIMENSIONS:** Length 19'6" - width 96" - height to top of box 115", to top of spring holders 125".

**WEIGHT:** 6,800 pounds.

The following is a list of OPTIONAL accessories that can be added to the above Giant-Vac Loader.

Fuel gauge  
Paint - custom color  
6-Prong Electrical connector  
Amber Strobe Light  
Barn-type rear doors

Tachometer  
Hour meter  
Spare tire & rim  
Hydraulic boom (up/down)