



D6207, D6208, D6212 & D6213 Bid Specifications

3/9/06

Functional Intent

- 1) The Lifter shall lift plastic refuse containers and dump the contents of the containers into the rear hopper of a refuse collection vehicle, and then return the emptied container safely to the ground.
- 2) (D6207 & D6208) The Lifter will be compatible with all styles/brands of carts between 60 and 100 gallon in size, that have been designed to meet ANSI TYPE B code for US semi-automated collection containers (2-bar style) with a bar-to-bar spacing between 14 ¾" to 15 ¼" and ANSI TYPE C European-Style containers 120-360 liter, and 4-wheeled European bins up to 1100 liters.
- 3) (D6212 & D6213) The Lifter will be compatible with all styles/brands of carts meeting ANSI TYPE C European-Style containers 120-360 liter, and 4-wheeled European bins up to 1100 liters.
- 4) The design of the lifter will allow for the easy engagement/disengagement of the plastic carts.
- 5) The contact of the lifter with the plastic carts will be designed to eliminate or minimize scratching and wearing, in order to maximize cart life.
- 6) Weight Capacity of the lifter will meet or exceed ANSI's current standard container capacity limit of 1500 lbs.
- 7) The pressure required to lift a 1500lb load will be approximately 2000 PSI. Maximum pressure available depends on model of the truck's pump, as well as the truck's main relief valve setting.
- 8) Complete cycle time to lift, dump, and return a cart will be within 10-12 seconds and will require an adjustment of 4 GPM of flow to achieve this timing.
- 9) The lifter will be rated for usage of 700 times a day.
- 10) The container will be dumped at an angle of 45 degrees above the horizon to ensure a complete dump of the refuse.
- 11) Operating temperatures will be between -30° F to +120° F.
- 12) Overall design shall provide for the maximum possible safety for the operator.

Performance

- 1) (D6207 & D6208) The Lower Latch mechanism rotates during the lifting motion, securely grasping the cart prior to dump, and then releasing the cart as it is returned to the ground.

- 2) The Lifter will dump as high and deep into the hopper as possible, to prevent spillage and to provide for even dispersal of waste into the hopper.
- 3) The mounting height will be 42 1/16" from the top of the mounting plate to the ground.

Construction

- 1) All structural components of the Lifter will be AISI A36 HRS.
- 2) All hardware, such as bolts, nuts, washers will be Grade 8 zinc plated.
- 3) The lower latch is spring mounted and all edges rounded smooth to prevent scratching the containers.
- 4) The upper hook is 8" wide, free from all rough/sharp edges.
- 5) All nuts will be Nylock Locknuts for secure assembly.
- 6) The lower stop block is PVC coated to reduce scratching the carts.
- 7) The lifter assembly shall have a mounting plate that is 1/2" thick, and will attach via 1/2" bolts or studs to a secondary 1/2" thick rear plate that is permanently welded to the truck.

Hydraulic Cylinder

- 1) The Lifter will use a cylinder for it's lifting motion. This cylinder will operate safely up to 3,000 PSI.
- 2) The cylinder can be rebuilt and seal kit/spare parts are readily available.
- 3) The cylinder is commercially available and is suitable for use with standard hydraulic oil, ATF, or aviation grade hydraulic fluid.

Hydraulics (sold separately)

- 1) The hydraulic system does not require any electrical wiring or solenoids.
- 2) Tap-In Kit (sold separately) shall include Diverter Valve, hand valve, and hoses and fittings required to make most installations. Some installations may require additional fittings not provided. Care should be taken to order the correct kit for your model truck at time of order.
- 3) The Diverter Valve is a priority flow control with an adjustable flow relief made from a single block of steel or aluminum. The valve can accept full system pressure/flow through it's body with minimum back pressure or heat. The valve will send the specified amount of flow to the hand valve and allow the rest of the flow to continue to the packer valve. Both the packer valve and the lifters can be used simultaneously without a pressure loss.
- 4) The Hand Valve has a built in adjustable relief valve and a dead-man stop feature. Release the handle and all motion to the lifter stops. If there will be two lifters mounted per truck, they will each have their own Hand Valve that will allow the units to work independently of each other.

- 5) All hoses, fittings and valves are rated for use in high-pressure, 3,000 PSI systems.
- 6) Provided in the Tap-In kit are hose clamps for managing the proper hose placement.

Maintenance

- 1) The lifter utilizes standard grease zerks to help lubricate pivot points. Greasing the lifter is recommended once a week.
- 2) Intervals for required adjustments to the Lifter shall not be less than 6 months.
- 3) Most parts are kept in stock and will ship the same, or the following day, depending on availability.
- 4) The Lifter will be installed on a rear mounting plate via studs and locknuts which allows for fast lifter replacement/repair.

Finishing

- 1) All metal surfaces will be prepared and power washed prior to painting, to remove oils, rust, welding slag and grease.
- 2) Lifter will have an initial primer coating and one top-coat that will be "Safety Yellow" unless otherwise specified.
- 3) Completed unit will have all appropriate safety decals.
- 4) Lifter will come with an identification tag permanently affixed to the side member that has the serial number of the lifter necessary for warranty purposes.
- 5) All lifter shipments will be inside a durable cardboard box mounted atop a pallet, with plastic wrap/steel strapping to secure the lifter to the pallet and prevent exposure to the elements.
- 6) The lifter will come packaged with an instruction manual that contains detailed instructions on the proper mounting and care for the lifter, as well as a spare parts key and ordering information.

Warranty

- 1) The Lifter shall be warranted against manufactures defects for a period of 1-year. Standard warranty does not cover labor. See Warranty Page for complete details.