



# HYDRAULIC HOOKLIFT BID SPECIFICATIONS

MODEL SL-110

## HOOK LIFT SYSTEM

12,000 lbs. lifting and dumping capacity with the gross weight evenly distributed on the body.

Hook lift shall be able to handle sub frame mounted bodies with potential lengths of 10' – 15' with the optimum body length being 12' – 14'.

Lifting and dumping capacity (12,000 lbs.) of the hook lift hoist must be achieved for all optimum body lengths and specified hook heights.

Hook lift hoist shall have a 55 degree dump angle.

Weight of hook lift hoist (fixed jib 35-5/8" hook height) not to exceed 1,887 lbs.

Weight of hook lift hoist (adjustable jib 35-5/8" or 53-7/8" hook height) not to exceed 2,060 lbs.

Sub frame mounted bodies shall be supported with a pair of 6-1/4" diameter outside flanged rollers at the rear of the hoist and be adjustable to accommodate bodies with outside sub frame rail widths of 40-1/2" or 41-5/8".

The hook to rear roller dimension to be 135.38" in length when jib is fully extended.

Hook lift shall be capable of being mounted to a truck chassis with an "effective" cab-to-axle of 108" - 120" with 120" being the optimum dimension for weight distribution and stability.

Hook Lift to have black TGIC polyester powder coat finish, performed by SwapLoader.

## HOOK LIFT OPERATION

The hook lift telescopic jib shall be capable of hydraulically sliding the body horizontally on the chassis to adjust for weight distribution while remaining in the body locks of the hoist and without lifting the body rails off the hoist frame. Tilting or articulating jib designs are not acceptable.

Hook lift hoist shall be dual pivoting with tube stops. While loading with the shortest hook height the hoist will pivot around the center hinge point and then the rear most hinge point, providing a more consistent lifting capacity. During the dump function the hoist will pivot only around the rear hinge point, and the container is able to stay locked via the integral body locks.

Hook lift jib to cycle rearward, to the A-frame lifting bar, by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism.

Hook lift body shall lock into a common rigid full-length frame to support the body when in a dump mode. This must be accomplished by a single mechanically operated latch, which secures the rear-pivot and outer-tube of the hoist, to act as one single body.

Must have a jib lockout valve to prevent operation of the jib while in a dump mode.

Hook lift shall be designed to function through all modes (load, unload, and dump) without the use of breakaway tabs and/or proximity switches.

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## HYDRAULIC CYLINDERS

All hydraulic cylinders shall be double acting with chrome rods.

Dual dump/lift cylinders to be a 4.50" diameter bore with 44" stroke and 2.25" diameter rods.

Dump/lift cylinders must have dual integral counterbalance valves. No external or remote mount (connected by steel lines) counterbalance valve configurations to be accepted.

Telescopic jib cylinder shall be a 2.5" diameter bore with 28" stroke and 1.375" diameter rod.

Telescopic jib cylinder must have a single integral counterbalance valve. No external or remote mount (connected by steel lines) counterbalance valve configurations to be accepted.

Cylinders must be manufactured in the U.S.A.

## HYDRAULIC SYSTEM

Direct mount gear type pump, 7.2 GPM, with a 3,250 PSI maximum system operating pressure.

15 gallon oil reservoir tank (minimum) is to have a sight gauge to indicate fluid level with integral thermometer. Must have a 100 mesh suction strainer with bypass relief.

Must contain a return filter assembly; with replaceable 10 micron filter cartridge.

Control valve to be stackable type with JIC 37 degree fittings and contain an integral 3,250 PSI relief valve cartridge.

High-pressure hoses to be SAE 100R2 type AT, or equivalent, rated for 3,250 PSI (minimum) working pressure with JIC 37 degree swivel fittings.

Hydraulic fittings are to be SAE O-ring boss or JIC 37 degree type wherever possible; metric fittings are not acceptable.

Dual control levers, cable operated, mounted in truck cab. Controls are to be spring centering type for safe operation.

Hook lift hydraulic system shall be designed to allow for ease of integration into a Central Hydraulic package through maximum system operating pressures not to exceed 3,250 PSI.

## MAINFRAME DESIGN

The overall height of the hook lift mainframe assembly to be 6.625".

The mainframe of the hoist is to be constructed of a "Z" rail configuration. The "Z" rail mainframe is to be a maximum of 6.125" in height and constructed of 3/16" thick A572 50 KSI steel.

The hoist "Z" rail mainframe assembly to include a minimum of 6 (3 per side) 11-3/4" x 2-3/4" x 1/2" nylatron wear pads or equivalent. The nylatron pads allow the bodies to slide back and forth horizontally on the "Z" rail of the hoist with ease. Metal to metal contact (direct contact of the body sub frame rail on the hoist mainframe rail) is not acceptable.

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## JIB HOOK DESIGN

### Fixed Jib:

Vertical Jib to be constructed of a 6" x 6" x 1/4" wall square tube of 50 KSI steel.

The fixed jib hook height shall be 35-5/8", as measured from the bottom of the sub frame long rails to the bottom of the A-frame lift bar. The fixed 35-5/8" jib hook shall be able to pick up a body 4-1/4" below the grade of the A-frame lift bar (presumes a 38" truck frame height as loaded/unloaded on a level surface). Jib hook to be permanently welded to jib. Bolt on jib hooks are not acceptable.

### Adjustable Jib:

The adjustable jib hook must be adjustable to either 35-5/8" or 53-7/8" hook height. (1) With the jib hook height set at the 35-5/8" position, the hook lift shall be able to pick up a body 4 1/4" below the grade of the A-frame lift bar. (2) With the jib hook height set at the 53-7/8" position, the hook lift shall be able to pick up a body 41" below the grade of the A-frame lift bar. Both positions presume a 38" truck frame height as loaded / unloaded on a level surface.

Both the fixed and adjustable jib hook to be designed to secure the body to the hoist without the need for a hook latch assembly.

## PINS

All hook lift pins to be constructed of high-strength CFR steel bar: All serviceable pins to be zinc plated with clear trivalent chromate. Stainless steel pins and permanently lubed pins are not acceptable. All pivoting pinned connections to be greaseable to lubricate and flush out contaminants.

## HOOK LIFT HOIST BODY LOCKS

Hook lift hoist to have passive integral slide through body locks with shelf to secure the body latch plates of the body, to the hook lift hoist, in both the dump and transport positions. The hook lift hoist body locks shall accommodate different length bodies and allow for weight distribution changes while remaining in the body locks of the hoist, when in the transport mode.

The hook lift hoist body lock assembly must be a bolt-on design. Prong style body locks are not acceptable.

## SUB FRAME

The A-frame of the body shall be designed to allow the hook lift operator to approach and load the body on the truck chassis frame from an angle.

The sub frame mounted body shall have integral slide through latch plates installed on the outside of each long rail to secure the body to the hook lift hoist in both the dump and transport positions.

Slide through latch plates on the sub frame long rails to be a minimum of 34" in length to allow the body to slide forward and back horizontally while remaining fully engaged in the hoist body locks.

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## WARRANTY

The hook lift hoist will be factory warranted free of defects in material and workmanship for a period of sixty (60) months on structural components, forty-eight (48) months on the hoist's factory installed vendor supplied components, and twelve (12) months on labor from the product registration date. Product registration date cannot exceed 12 months from the original factory ship date.

For complete warranty guide see the SwapLoader limited warranty statement.

## ORIGIN OF MANUFACTURE

Hook lift to be engineered, manufactured, and assembled in the U.S.A.



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