Hook lift System:	65,000 pounds 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 lengths of $17' - 24'$ with the optimum body length being $20' - 22'$.
	Lifting and dumping capacity (65,000 pounds) of the hook lift hoist must be achieved for all optimum body lengths and specified hook heights.
	Hook lift hoist shall have a 54 degree dump angle.
	Weight of hook lift hoist (fixed jib 61 3/4" hook height) not to exceed 8,190 pounds.
	Sub frame mounted bodies shall be supported with a pair of 6-1/4" diameter outside flanged tandem 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 226.5" in length when jib is fully extended.
	Hook lift shall be capable of being mounted to a truck chassis with an "effective" cab-to- trunnion of 183" - 195" with 190" 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 have a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation, with the body secured to the hook lift via body locks
	during the entire dump cycle and providing increased mounting leverage through the mount cycle.
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	during the entire dump cycle and providing increased mounting leverage through the mount cycle. Hook lift jib to cycle rearward, to the A-frame lifting bar, by means of double articulating hinge
	 during the entire dump cycle and providing increased mounting leverage through the mount cycle. 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 mechanical operated latches, which secure the

Hydraulic Cylinders:	All hydraulic cylinders shall be double acting with chrome rods. Cylinders must be manufactured in the U.S.A.
	Dual dump/lift cylinders to be a 7.5" diameter bore with 82" stroke and 3.5" 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.
	Dump/lift cylinders must include 3.5" diameter spherical bearings on both end mounts to ensure flexibility and longevity of the cylinders.
	Telescopic jib cylinder shall be a 4.5" diameter bore with 52" stroke and 2.75" 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.
Hydraulic System:	Direct mount gear type pump, 26.0 GPM at 1500 RPM, with a 3,500 PSI maximum operating system.
	30 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 3,500 PSI relief valve cartridge.
	High-pressure hoses to be DIN EN 853 2SN, or equivalent, rated for 3,500 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, or air operated, mounted in the 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 3,500 PSI.
Mainframe Design:	The overall height of the hook lift mainframe assembly to be 13".
	The mainframe of the hoist is to be constructed of a "Z" rail configuration. The "Z" rail mainframe is to be a maximum of 12.5" in height and constructed of 5/16" thick A572 50 KSI steel.
	The hoist "Z" rail mainframe assembly to include a minimum of 10 (5 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.

SwapLoader Model SL-650 Hydraulic Hook lift Bid Specifications

Jib Hook Design:	Fixed Jib:
	Vertical Jib construction to be 5-sided section formed from 3/8" thick A656 80 KSI steel.
	The fixed jib hook height shall be 61-3/4", as measured from the bottom of the sub frame long rails to the bottom of the A-frame lift bar. The fixed 61-3/4" jib hook shall be able to pick up a body 8-1/4" below the grade of the A-frame lift bar (presumes a 41" 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.
Pins:	All hook lift pins to be constructed of high-strength CFR steel bar; stainless steel pins are not acceptable. All pinned connections to be greaseable to lubricate and flush out all contaminates. Permanently lubed pins are not acceptable.
Hook lift hoist Body Locks:	Hook lift hoist to have passive integral slide through body locks 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 48" in length to allow the body to slide forward and back horizontally while remaining fully engaged in the hoist body locks.
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.