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for years to come.

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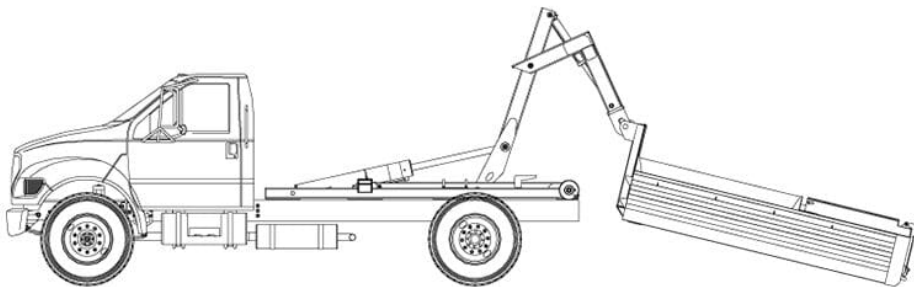
1140 Turnpike St., Unit 3&4
Stoughton, MA 02072
(855) 373-7324



SHUTTLE20 HOOKLIFT

Stellar's lineup of 20,000-lb-capacity Shuttle Hooklift loaders offers the greatest selection of any hooklift manufacturer. With many different lengths available, 20,000-lb Stellar® Hooklifts cover from 102" to 200" cab-to-axle lengths for single rear axle truck chassis.

With the broadest array of sizes, Stellar 20,000-lb models have proven their use in a wide variety of uses. From roofers to recyclers, landscapers to lumber yards, the versatile Stellar 20,000-lb models can be found in almost any application.



ADDITIONAL INFORMATION

- Will accommodate bodies from 11' up to 21.5' long and still retain the maximum rated dump angle on a 41"-high frame truck. Longer bodies may be accommodated with reduced dumping capabilities.
- Transmission-mounted PTO and hydraulic pump required to power the hooklift.
- Standard in-cab manual controls allow for precise metering of the manual hydraulic valve.
- 10-gallon, frame-mounted oil tank.
- Operating pressure is 4,200 psi.
- Hydraulic flow required is 16 gallons per minute.
- Patented dump/load interface.
- Hydraulic locks to prevent cylinder collapse in case of hose failure.
- Hook latch to prevent body from becoming detached prematurely.
- Mechanical rear body tiedown latches.
- Resettable dump/tilt tabs.
- Hydraulic plunger valve to prevent front tilt movement when the dump frame is raised.
- Permanently lubricated and greaseable bushings used throughout.
- Carbon steel and zinc-plated or type 17-4 stainless-steel pins used throughout.
- All weldments painted with two-part polyurethane enamel.

Key Features

The diagram below shows a typical Stellar Shuttle Hooklift. Below is a detailed explanation of these components, which are an integral part of every Stellar Hydraulic Hooklift.

Base Section: The base section may also be called a subframe. All Stellar Hooklift hoists are tied together in one common framework. This base section not only adds strength to the hoist but also places less stress concentration on the truck chassis by providing additional structural support. The base section also provides for simple installation on most truck chassis.

Body Latch: The body latch is also referred to as the rear tiedown. Standard on Stellar Hooklift hoists are rearward-facing hooks that interface with a horizontal steel pocket or tab. As the body is pulled forward into the final storage position prior to transporting, the tabs will pull tight in the hook pockets. Hydraulic-activated rear tiedowns are optional on larger Stellar Hooklift hoists.

Dump Section: This component of the Stellar Hooklift pivots at the rear of the hoist and when the tilt engages the patented dump latch tabs, allowing for the container dumping function. The rear-body latches are attached to this component on all models, allowing the body to remain in the latches while in transit and dumping.

Front Saddles: Front saddles provide a place for the body to rest while the truck is in motion.

Lift Cylinder: The lift cylinder lifts the body onto the truck and provides the dumping movement. Our lift cylinders feature dual pilot-operated counterbalance valves, which provide optimum meter-ability and protection against sudden movement in the case of hose failure.

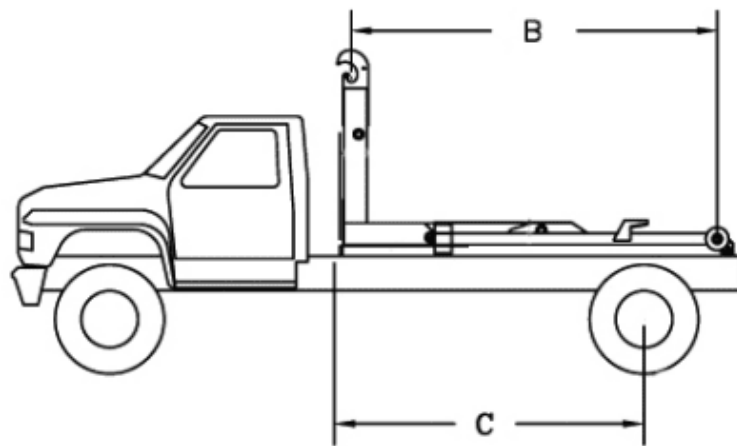
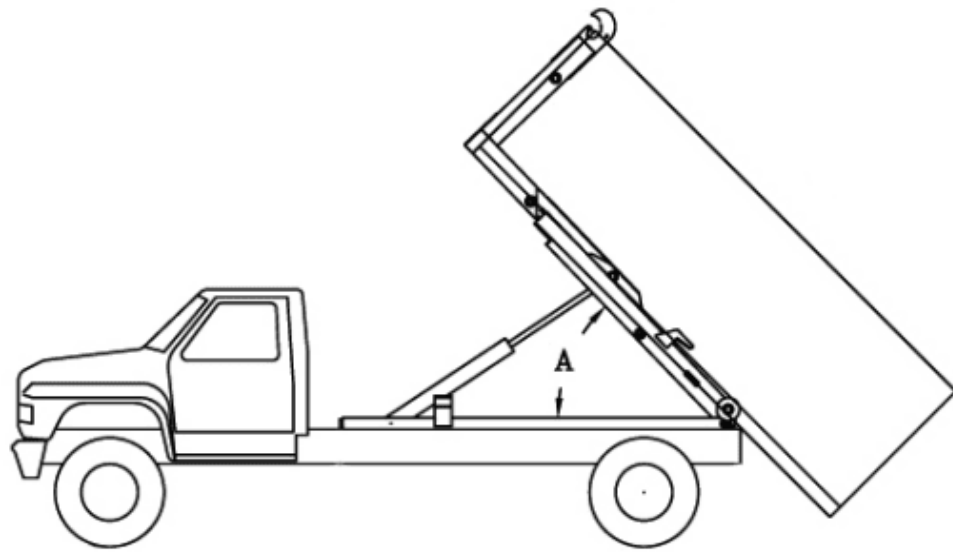
Tilt and Dump Latch: This unique patented feature is the basis of the Stellar Hooklift system. With a simple mechanical engagement between the tilt section and the dump section, the pivot point is changed from the secondary section (loading/offloading) to the rear of the truck (dumping). Resettable tabs protect the system from out-of-sequence operation.

Rear Rollers: With the unique Stellar Hooklift design, bodies are loaded and unloaded with a lift and roll movement. While unloading a body, the tilt section will lift the front of the body and roll it back. The tilt cylinder will continue rolling the body until the rear of the body contacts the ground.

Plunger Valve: The plunger valve will lock out all hydraulic fluid to the tilt cylinder when in the dumping mode. This prevents accidental release of the body while dumping.

Secondary Section: The secondary section acts as the main pivoting member for loading/offloading bodies. This component ties the tilt and dump sections together into one cohesive unit.

Tilt Cylinder: The tilt cylinder operates the tilt section of the hooklift and features a pilot-operated counterbalance valve on both extend and retract sides. The tilt section is a key component of the Stellar Hooklift. With Stellar's unique twin-post design, line-of-sight visibility of the hook is available from the truck cab.



SPECIFICATIONS

Description	108-12-20/36	108-11-20	120-16-20	138-18-20	168-20-20	190-24-20
Dump Angle (A):	53°	45°	48°	52°	50°	45°
Effective Length (B):	126" (3,200 mm)	127" (3,226 mm)	146" (3,708 mm)	171" (4,343 mm)	195" (4,953 mm)	222" (5,639 mm)
Cab to Axle (C):	102" – 108" (2,591 – 2,743 mm)	102" – 108" (2,591 – 2,743 mm)	114" – 130" (2,896 – 3,302 mm)	130" – 144" (3,302 – 3,658 mm)	168" – 180" (4,267 – 4,572 mm)	190" – 200" (4,826 – 5,080 mm)
Lift/Dump Cap.:	20,000 lbs (9,072 kg)	20,000 lbs (9,072 kg)	20,000 lbs (9,072 kg)	20,000 lbs (9,072 kg)	20,000 lbs (9,072 kg)	20,000 lbs (9,072 kg)
Shipping Weight:	2,400 lbs (1,089 kg)	2,570 lbs (1,166 kg)	2,625 lbs (1,191 kg)	3,175 lbs (1,440 kg)	3,660 lbs (1,660 kg)	3,900 lbs (1,769 kg)
Rec. Body Lengths:	12' – 13.5' (3.7 – 4.1 m)	11' – 13.5' (3.4 – 4.1 m)	12.5' – 15' (3.8 – 4.6 m)	14.5' – 17' (4.4 – 5.2 m)	16.5' – 19' (5.0 – 5.8 m)	18.5' – 21.5' (5.6 – 6.6 m)
Hook Heights:	35.63" (905 mm)	54" (1,372 mm)	54" (1,372 mm)	54" (1,372 mm)	61.75" (1,568 mm)	61.75" (1,568 mm)
Min. Truck GVWR:	25,000 (11,340 kg)	25,000 (11,340 kg)	25,000 (11,340 kg)	25,000 (11,340 kg)	25,000 (11,340 kg)	25,000 (11,340 kg)



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