



LowLift™

Cable System with Hinged Tail for Roll-Offs

Heil's LowLift cable hoist system incorporates an innovative design for lower loading angles, a smaller footprint, and faster loading and unloading times than other roll-off hoists.

The LowLift features a hinged tail that serves as a loading platform, enabling easier and closer alignment with the container and a greatly reduced loading angle. Because the LowLift does not have to be raised to load a container, unloading is easily achieved without full extension of the lift cylinders. This much lower loading height and container angle eliminates problems due to overhead clearance, enabling the LowLift to be used indoors and in areas with low overhead clearance. The lower angle and height also reduce the chance that a container will jump the rails during loading.

Like its siblings, the Heil DualLift™ and KwikLift™ units, the LowLift's faster cycle times and performance advantages are accomplished with a unique traveling carriage design. A single cable sheave is attached to the carriage, which travels the entire length of the hoist, powered

by a seven-inch telescopic cylinder. Every foot of carriage travel develops two feet of cable movement, extending or retracting, causing rapid container movement. The result is increased power and speed throughout the operation of the hoist, and a 30-second loading and unloading time that is one-half that of traditional roll-off hoists.

The traveling carriage of the LowLift can also power containers rearward. This feature has two significant benefits. With the LowLift hoist in the horizontal position, the carriage can push a container onto a dock or trailer, for example, enabling fast loading of pup trailers. At the disposal site, the heavy container is powered rearward before raising the LowLift hoist, eliminating the need for 75,000-pound lift cylinders.

For more information on how to make the LowLift part of your operation, contact your local Heil Dealer. To find the Heil Dealer nearest you, please visit www.dualift.com or www.heil.com.



Hinged Tail

A hinged tail with a lifting capacity of 24,000 lbs. serves as a loading platform, enabling easier and closer alignment with the container and a greatly reduced loading angle.



Ideal for Low Overhead Clearance

Containers can be unloaded without extension of the lift cylinders, enabling the LowLift to be used indoors and in areas with low overhead clearance. This design also minimizes the risk that a container will jump the rails during loading.



Conventional Cable Hoist or LowLift

The LowLift hoist can also function as a conventional cable hoist when needed, but is stronger, faster, and safer to operate than other conventional hoists.



Shake Difficult Loads

Break stubborn loads free with LowLift's unique shaking capability, which eliminates the need to move the truck forward and then quickly backward while slamming the brakes.



Prevent Container Damage

Because of its unique design, the LowLift hoist can load and unload containers without damaging them the way other hoists can.



Load Pup Trailers

With the LowLift hoist in the horizontal position, the carriage can push a container onto a dock or trailer, enabling fast loading of pup trailers. Using pup trailers means more productive trips to the landfill while reducing capital requirements.





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Performance Specifications

Container types	All outside rail lengths 12' to 24'
LIFT CAPACITY	
Hoist	60,000 lbs.
Tail	25,000 lbs.
Dump angle	50 degrees
Cable extension	5' beyond rear
Tail angle	70 degrees
Loads 12 ton at idle	

Hydraulic Specifications

PUMP	
Type	Gear pump delivering 50 GPM at operating speed
Maximum Operating Pressure	2,750 psi
Working RPM	1,500 engine RPM (varies with pump & PTO)
Flow at working RPM	50 GPM
OIL RESERVOIR	
Chassis frame mounted	
Tank Capacity	70 gal.
Oil system gross capacity	85 gal.
Filters	High pressure filtration 7 micron full flow Suction strainer capacity 141 micron
VALVES	
Shutoff	Ball style - 2.0 in. full flow
Main relief valve	2,750 psi
Operator selections	3 section with air actuators
Controls	Standard outside manual - optional inside air

Cylinder Specifications

	Type	Model	Bore		Rod	Stroke	Closed Length
			in.	mm			
Lift	(2) Double acting	ALL	in.	6	3	78	90
			mm	152	76	1981	2286
Tail	(2) Double acting	ALL	in.	4.5	2.5	16.5	29.5
			mm	114	64	419	749
Reeving with sliding mid-support	Double Acting 4-stage telescopic	22'	in.	8	7	150.5	61.5
			mm	203	178	3823	1562
		24'	in.	8	7	163.75	66.5
			mm	203	178	4159	1689

Chassis Requirements

		22'	24'
GAWR	front	18,000	18,000
	rear	44,000	44,000
Chassis frame - RBM per rail		2,000,000 in. lbs.	2,000,000 in. lbs.
Basic clear cab to trunion (Clear CT) (includes 10 in. for taper mount)	in.	184	204
	mm	4674	5182
Normal range tandem spread (TS)	in.	50-54	50-54
	mm	1270-1372	1270-1372
After frame	in.	45	45
	mm	1143	1143
Required platform minimum (CT + AF)	in.	229	249
	mm	5817	6325

Additional requirements
 • Specify chassis, engine and transmission upon entering order (MUST be in accordance with chassis specifications).
 • Any chassis requiring special alterations (moving battery boxes, air tanks, etc.) will delay the body manufacturing until a letter authorizing changes is received by Heil Environmental.

Body Specifications

		22'	24'
Overall Length	in.	334	354
	mm	8484	8992
Overall Width	in.	102	102
	mm	2591	2591
Mounted weight (route ready no taper)	lbs.	9,000	9,250
	kg	4082	4196

Hoist Construction

Frame Rails - 9 in. 25.4 lbs per foot Ship & Car channel	Sub Frame - 2 in. x 4 in. x 0.25 in rectangular tube
Single 11 in. cable sheave with top and bottom cable restraints	20 ft. 7/8 in. cable with terminator wedge
3/8 in. steel side mounting plates	8, 4 in. side rollers with columnar support
Tarper-ready hydraulics	Mounting plates secured with locking nuts and bolts
Heavy duty hinge - 2. 5 in. pin	Rear container hold downs - nylon ratchet straps
Enclosed rear roller	Rear bumper and light bar
DOT compliant collapsible rear under ride	Safety Props
Mid body turn signals	Back up and hoist up alarms
Container guides between rollers	Rear wing skid plate

Additional Available Options

Pintle hook	Pintle hook subframe only
Rear wet line kit	LED lights
Work lights - set of 2 on rear fender bracket or gantry	Work lights - 2 sets of 2 - mounted on rear fender bracket and gantry
Automatic tarper	PTO either air shift or hot shift
Inside air controls with toggle switches	Automatic rear container hold downs
Fenders - poly, steel or aluminum	Fire extinguisher and rack
Tool boxes - steel or poly	Hoist up exterior alarm cut-out when parking break is engaged
Vehicle speed limiter with hoist up	Pusher axle - single tire

CONTACT YOUR LOCAL DEALER

Patents 07568881 and 07572091. Other patents may apply.



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