

S P E C I F I C A T I O N S

STARR™ System

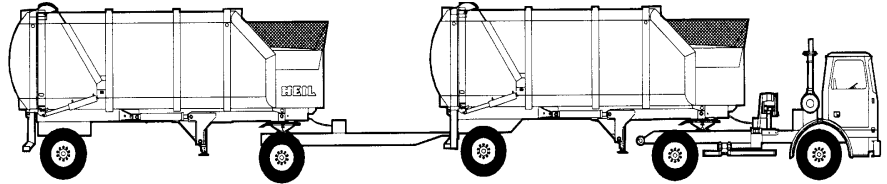
PERFORMANCE SPECIFICATIONS

Lift Capacity.....1,600 Lbs.
Lift Cycle Time.....8 Seconds
Working RPM.....800
(operate-in-gear-at-idle)
Homes Per Day..... up to 1,400
Lift Reach.....96 Inches
Turning Radius.....45 Feet

HYDRAULIC SPECIFICATIONS			
PUMP		With Operate-In-Gear (standard)	Without Operate-In-Gear
Type: PTO Driven	Denison Vane Front Mount	Tandem Gear (piston optional)	
Maximum Operating Pressure	2500 psi, 1500 rpm for Packer	2500 psi	
Working RPM	1500/Packer, 800/Arm	1500 approx. (1000 w/piston)	
GPM at Working RPM	30/16 GPM Packer/Arm	27/14 GPM Packer/Arm	
OIL RESERVOIR			
Tank Capacity	45 Gallons (171 liters)		
Oil System Gross Capacity	65 Gallons (246 liters)		
Filters	In-tank 6 Micron Absolute, 140 Micron Mesh Suction Strainer		
VALVES			
Lift & Packing Controls	Coordinated Electric Over Hydraulic		
Hoist & Tailgate Controls	Electric Over Hydraulic		
BODY CYLINDERS			
	type	inches (Bore x Stroke) mm	
Tailgate Raise/Lock	(2) double acting	3.0 x 18.5	76 x 470
Packer	(2) double acting	5.0 x 42.0	127 x 1066
Body Hoist	(2) double acting	5.0 x 30.0	127 x 762
LIFT CYLINDERS			
	type	inches (Bore x Stroke) mm	
Grip	(1) double acting	3.0 x 8.0	76 x 203
Raise	(1) double acting	3.0 x 8.0	76 x 203
Dump	(1) double acting	3.0 x 16.0	76 x 406
Reach	(1) double acting	1.75 x 71.25	44 x 1810

LIFT SPECIFICATIONS	
Lift loading capacity	1,600 lbs. (727 kg)
Cycle time	8 seconds approximate
Frame	Heavy box section
Reach	96 in. (2438 mm) from outside of tire to center of 90 gal. container
Ground clearance	13 in.
Overall width	Within 96" (2438 mm) legal limit with lift in stowed position
Weight*	2,000 lbs. (907 kg) approximate
Controls	In-cab rocker switch, electric over hydraulic (joystick optional)
Container Size	60 to 100 gallon (26 in. diameter)
* Weight includes standard 60/90 gallon grabbers	

Semi-Trailer Automated Side Loader



TRACTOR REQUIREMENTS										
MODEL	Minimum GVWR	Minimum GAWR		Useable Min. CA	Minimum Wheelbase ⁽¹⁾	Max. Landing Gear Wheel Clearance	Maximum Fifth Wheel Height	King Pin Position ⁽²⁾	Min. Engine Horsepower ⁽³⁾	Min. Engine Torque (Ft. Lbs.)
		Front	Rear							
Single	37,000	13,200	23,000	108 inches	131 ± 3 inches	67 inches	44-47 inches	24 inches	275	800
Double	37,000	13,200	23,000	108 inches	131 ± 3 inches	67 inches	44-47 inches	24 inches	300	1,100

- Chassis must have front engine crankshaft adapter for piston pump and front drive gear pumps.
- Specify chassis, engine and transmission upon entering order.
- Any truck requiring special alterations, moving battery boxes, air tanks, etc., will not be made until a letter authorizing changes is received by The Heil Co.

- Wheelbase minimum based on Cab-Over-Engine Chassis styles
- King Pin Position measured from forward of centerline of rear drive axle.
- OPERATE-IN-GEAR-AT-IDLE requires 800 ft. lbs of torque available at idle, with idle pre-set between 650 and 750 RPM. Recommended alternator is 31 SI, 160 or 200 amp with R-stator terminal.

BODY SPECIFICATIONS													
MODEL	TRAILER CAPACITY		HOPPER CAPACITY		OVERALL LENGTH		OVERALL WIDTH		OVERALL HEIGHT		APPROX. WEIGHT (includes lift)		<ul style="list-style-type: none"> Overall length is for trailer only (single system) or, (double system) measured from front of first hopper to end of last tailgate. Weight includes trailer(s), lift, wheels & tires, and dolly (doubles only).
	y ³	m ³	y ³	m ³	inches	mm	inches	mm	inches	mm	lbs.	kg.	
RT-33	33	25.3	3	2.3	276	7010	96	2438	142	3607	17,750	8052	
RT-37	37	28.3	3	2.3	276	7010	96	2438	154	3912	17,950	8143	
RT-33D (Double System)	66	50.6	3	2.3	648	16,460	96	2438	142	3607	35,500	16,104	



All designs, specifications and components are subject to change at the manufacturer's sole discretion at any time without notice. Data published herein is for information purposes only and shall not be construed to warrant suitability of the unit for any particular purpose, as performance may vary with the conditions encountered. The only warranty is our standard written warranty for this product at time of shipment.