



# Liberty™

Continuous Pack Automated Side Loader



# Liberty™

An extremely productive body with an advanced automated arm.

What do you get when you combine one of the most productive refuse bodies in the industry with the most advanced automated arm? A true performer — Heil's **Liberty!**

By integrating our time-tested Continuous Pack body with the patented technology of the Python arm, Heil has created a refuse collection body with proven reliability and unsurpassed speed.

The Continuous Pack body has been a customer favorite for more than 35 years, far and away the most popular ever produced. This remarkable body will accommodate routes of almost any size, with seven models ranging from 16 to 32 cubic yards. Our patented paddle packer design continuously sweeps the hopper, so there's no need to stop and pack the load. And, because there's no packer panel to slide into the body, the need for shoes, guide tracks, guide rails, and internal body parts is eliminated — as is the need to clean out behind the packer.

The patented Python arm is the fastest, smoothest, most maintenance-friendly automated arm in the world. It features an 8-second lift cycle, which can save you up to 4 seconds

per stop and up to 1 hour per day — delivering more than \$15,000 in savings per truck per year. The Python's 9-foot reach can negotiate between cars and other obstacles, making even the most difficult pick-ups possible.

We back all Heil units with a worldwide network of knowledgeable dealers and service centers, as well as the industry's first dedicated manufacturer-based training facility and mobile training centers, to help you keep your **Liberty** operating at its peak. Add to that Heil's century-old heritage of commitment to customer satisfaction, and you can feel certain that when you choose a **Liberty** you are getting the most productive and durable, refuse collection vehicle available.

Read on to learn more about the **Liberty's** advanced productivity features, and then contact your Authorized Heil Dealer for assistance in choosing the Heil refuse collection vehicle that is right for you. To find the Dealer nearest you, visit [www.heil.com](http://www.heil.com).





## Striking Features

The **Liberty™** was specifically engineered with features to accommodate any size route, quickly and efficiently.

- **Strong Foundation** — The Liberty's body is constructed of high tensile steel, ½-inch thick in the hopper floor and wall, and 7-gauge 50,000 psi in the body floor. The floor is also supported by 10-inch structural channel longmembers.
- **Easy to Maintain** — The body of the **Liberty** is easy to service because all hydraulic cylinders are accessible from ground level. The packer cylinder is also located under the body to protect it from refuse contamination.
- **Exceptional Reach and Lift** — The patented automated Python arm can reach up to 9 feet to go where other automated arms cannot. Able to lift up to 1,250 pounds, the Python arm features cushioned cylinders for smooth action, saving wear and tear on both the lift arm and the chassis. The Python's unique lift geometry enables the arm to return carts with the lids closed every time.
- **Fewer Cylinders** — While other bodies need four cylinders to raise, lower, and lock the tailgate, our Continuous Pack body requires only two, reducing your maintenance time.
- **Quiet, Fuel-Efficient Operation** — Heil's Operate-in-Gear-at-Idle System comes standard on the **Liberty**. It is designed to help you finish routes up to 20-percent faster, saving up to one gallon of fuel per hour while reducing wear on the lift assembly, chassis, engine, and transmission. Plus, it greatly reduces noise — a benefit to operators and customers alike.
- **Fewer Wear Components** — Because there is no packer panel to slide into the body, the need for shoes, guide tracks, guide rails, and internal body parts is eliminated.

## DuraMount™ Design

*Heil's DuraMount Design, which is used to mount the lift to the chassis frame, reduces the potential for bolt fatigue and provides Service Smart™ bolt access for easy maintenance.*



## Joystick Cab Controls

*Reliable, ergonomic joystick controls deliver smoother performance and enhance usability. With the standard AutoLoad system, the operator can reach, grab, lift, dump, and return the arm to the stowed position using only the joystick and 2 buttons.*



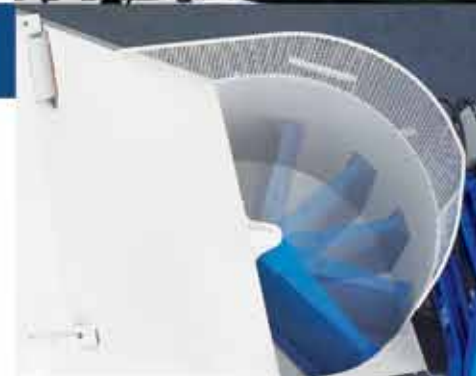
## Python® Grabber Gears

*Made from specially formulated high-strength, low-alloy steel, the Python's superior hardened grabber gears virtually eliminate gear wear. The gears are splined to the grabber shafts and can be cycled up to 1,000,000 times with no evidence of wear.*



## Patented Paddle Packer

*The Liberty's patented paddle packer continuously sweeps the hopper, eliminating the need to stop and pack the load. This eliminates the need to clean out debris behind the packer blade.*





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## Continuous Pack Automated Side Loader Product Specifications

Performance Specifications	
Lift Capacity	625 lbs. @ 9 ft.; 1,250 lbs. @ hopper
Lift Cycle Time (complete*)	8 seconds @ idle
Lift Reach	9 ft.
Compaction	up to 700 lbs. per yd <sup>3</sup>
Working RPM	800 (operate-in-gear-at-idle)
* Complete cycle time defined as grip, dump, return and release	

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 Statement for this product at the time of shipment.

Cylinder Specifications			
BODY CYLINDERS	Type	Bore x Stroke	
Tailgate Raise	(2) Double acting	in.	3.0 x 18.5
		mm	76 x 470
Packing	(2) Single acting	in.	5.0 x 42.0
		mm	127 x 1066
Dump (telescopic)	(2) Double acting	in.	4.0 x 55.5
		mm	102 x 1407
LIFT CYLINDERS			
Reach	(1) Double acting	in.	3.0 x 16.0
		mm	80 x 406
Grab	(1) Double acting	in.	3.1 x 8.0
		mm	80 x 203
Lift	(1) Double acting	in.	3.0 x 16.0
		mm	80 x 406

Hydraulic Specifications	
<b>PUMP</b>	Operate-In-Gear-At-Idle (standard)
Type	Tandem Vane front
Maximum Operating Pressure	2,500 psi (17,238 kPa)
Working RPM	700-1,800 RPM (packer) 800 RPM (arm)
Flow at Working RPM	34/16 GPM (packer/arm)
<b>OIL RESERVOIR</b>	Chassis frame mounted
Gross Capacity	50 gallons (246 liters)
Filters	Return line 3 micron, 140 micron suction strainer
VALVES	
Shutoff	Suction line
Lift and Packing Control	Air over hydraulic
Hoist and Tailgate Control	Electric over hydraulic

Automated Lift Specifications	
Lift Capacity	625 lbs. @ 9 ft.; 1,250 lbs. @ hopper
Cycle time	8 seconds @ idle
Reach	9 ft.
Ground clearance	20 in. from ground to bottom of grabber arms (based on a 42 in. chassis rail height)
Weight*	1,850 lbs. approx.
Controls	Joystick, air over hydraulic with feathering ability
* Weight includes standard 60/90 gallon grabbers	

Chassis Requirements *	18 yd <sup>3</sup>	20 yd <sup>3</sup>	22 yd <sup>3</sup>	24 yd <sup>3</sup>	24 yd <sup>3</sup>	26 yd <sup>3</sup>	30 yd <sup>3</sup>	32 yd <sup>3</sup>
Axle	Single	Single	Single	Single	Tandem	Tandem	Tandem	Tandem
Min. GVWR <sup>(1)</sup>	33,000	35,000	37,000	41,000	41,000	45,000	50,000	52,000
Min. GAWR	front <sup>(1)</sup>	12,000	14,000	14,000	15,000	15,000	16,000	18,000
	rear	21,000	21,000	23,000	26,000	26,000	30,000	34,000
Usable CA/CT	134 CA	157 CA	157 CA	189 CA	173 CT	173 CT	185 CT	195 CT
C.O.E Wheelbase	161 in.	182 in.	182 in.	213 in.	197 in.	197 in.	210 in.	220 in.
Min. Platform	180 in.	204 in.	204 in.	215 in.	234 in.	234 in.	246 in.	258 in.

\* OPERATE-IN-GEAR units require 325 ft. lbs. of net torque available at idle, with idle pre-set between 650 and 750 RPM. Recommended 160 or 200 amp alternator.  
(1) Front axle min. GAWR requirements may be reduced up to 2,000 lbs. for chassis with actual, unladen bare front axle weights of 8,000 lbs. or less.

Body Specifications		16 yd <sup>3</sup>	20 yd <sup>3</sup>	22 yd <sup>3</sup>	24 yd <sup>3</sup>	26 yd <sup>3</sup>	30 yd <sup>3</sup>	32 yd <sup>3</sup>
Body Capacity	yd <sup>3</sup>	16	20	22	24	26	30	32
	m <sup>3</sup>	12.2	15.3	16.8	18.4	19.9	22.9	24.5
Hopper Capacity	yd <sup>3</sup>	4	4	4	4	4	4	4
	m <sup>3</sup>	3	3	3	3	3	3	3
Overall Length*	in.	194	218	239	248	269	281	293
	mm	4928	5537	6071	6299	6833	7137	7442
Overall Length (Tailgate Raised)*	in.	268	292	289	307	331	342	354
	mm	6807	7417	7341	7798	8407	8687	8992
Overall Width	in.	96	96	96	96	96	96	96
	mm	2438	2438	2438	2438	2438	2438	2438
Overall Height Above Frame	body lowered	in.	97	97	97	97	109	109
		mm	2464	2464	2464	2464	2769	2769
	body raised	in.	154	168	168	185	185	192
		mm	3912	4267	4267	4699	4699	4877
Gross Weight (approx.)	lbs.	10,400	11,000	11,200	12,000	12,200	13,200	13,600
	kg.	4720	4990	5080	5440	5530	5990	6170

\* Including 30 in. for lift mount

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