



Rapid Rail®

Continuous-Pack Automated Side Loader



Rapid Rail®

The Original is now even better!

No one has more experience with automated refuse collection than Heil, and no product has a longer track record than Heil's **Rapid Rail** automated side loader. More than 30 years after its introduction, the **Rapid Rail** continues to be the standard to which all others are compared. And it's no wonder. **Rapid Rail's** lengthy reach, fast cycle times, continuous packing, and solid structural design make it a highly productive and efficient choice for automated collection for large and small fleets alike.

Our unique lift geometry provides a direct line to the hopper, without the "kick-out" of some other systems, so the **Rapid Rail** can pick up where other vehicles can't. Add to that an 8-foot reach, a 1,600-pound lift capacity, and an 8-second cycle time, and you've got a fast and efficient vehicle that can collect over 1,000 homes per day.

The **Rapid Rail's** patented paddle packer continuously sweeps the 3 cubic yard hopper, boosting productivity because the operator does not have to pause between stops to activate the packer. Instead, the operator can continue to collect his route while the paddle

packer cleans the hopper. The continuous packer design also provides added driver convenience because the operator doesn't have to clean behind the packer blade.

With 30 years of proven performance, the **Rapid Rail** offers the toughest body in the industry. We use high-tensile strength steel throughout for superior strength without unnecessary weight. The body also features a full radius at all corners for easier off-loading of refuse, ensuring the load is completely discharged each time.

The **Rapid Rail** is available in 8 different body sizes from 16 to 32 cubic yards. Single axle or tandem axle configurations provide the most flexibility of any automated system. All models are tilt to dump.

To learn more about adding the **Rapid Rail** to your fleet, contact your Authorized Heil Dealer. To find the Dealer nearest you, visit www.heil.com.





Rapid Rail® Automated Lift

The **Rapid Rail** lift is a proven, efficient, and reliable automated lift which dumps using a straight up, vertical motion. The lift can efficiently handle containers from 30 gallons up to 300 gallons, making it an ideal solution for commercial and residential applications.



Service Smart™ Design

The **Rapid Rail** features our Service Smart™ design, which simplifies routine maintenance and keeps you away from the shop and out servicing your customers – and making money. Features include a new soft-shift valve, proximity switches, and a cable carrier that houses all the arm's hydraulic hoses.



Unique Features

The **Rapid Rail**® was specifically designed with unique features, based on customer input, that make it durable, easy to maintain, and smooth to operate.

- **Unique Lift Geometry** — Because the lift geometry provides a direct line to the hopper, there is no “kick-out” as seen with other systems, enabling the **Rapid Rail** to get in and out of tight spaces easily.
- **Quiet, Fuel-Efficient Operation** — Heil's Operate-in-Gear-at-Idle System comes standard. 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.
- **Easily Accessible Hydraulics** — Hydraulic cylinders are installed in Service Smart™ locations to make them readily accessible from the ground for easy maintenance. The twin packer cylinders are located under the body to help protect them from refuse contamination. And, while other bodies need four cylinders to raise, lower, and lock the tailgate, the **Rapid Rail** uses only two.
- **No Packer Panel** — The **Rapid Rail**'s patented packer design continuously sweeps the hopper and packs the load, so the operator can keep collecting without stopping to cycle the packer. Because there is no packer panel to slide into the body, there are also no shoes, guide tracks, or guide rails to wear out – and you never have to clean out behind the packer.
- **Enhanced Visibility** — The **Rapid Rail** offers outstanding visibility for operators, enabling them to drive from the preferred left-hand side of the truck, and provides flexibility in selecting a cab style, either cab-over or conventional style.

Rapid Rail® Grabber Gears

Made from specially formulated high-strength, low-alloy steel, the **Rapid Rail**'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 virtually no evidence of wear.



Patented Paddle Packer

The **Rapid Rail**'s patented paddle packer continuously sweeps the hopper, eliminating the need to stop and pack the load as well as the need to clean out debris from behind the packer. This keeps the hopper clear, free of bridged loads, and ready to accept container contents.





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Continuous-Pack Automated Side Loader Product Specifications

Performance Specifications	
Lift Capacity	up to 1,600 lbs.
Lift Cycle Time (complete*)	8 seconds
Lift Reach	8 ft.
Compaction	up to 700 lbs. per yd ³
Working RPM (operate-in-gear-at-idle)	750 (arm) & 1,500 (packer)

* Complete cycle time defined as grip, dump, return and release

Cylinder Specifications			
BODY CYLINDERS	Type	Bore x Stroke	
Tailgate Raise	(2) Double acting	in.	3.0 x 18.5
		mm	76 x 470
Packing Blade	(2) Double acting	in.	5.0 x 42.0
		mm	127 x 1066
Body Hoist	(2) Double acting	in.	4.0 x 55.5
		mm	102 x 1407
LIFT CYLINDERS			
Grip	(1) Double acting	in.	3.0 x 8.0
		mm	76 x 203
Raise	(1) Double acting	in.	3.0 x 8.0
		mm	76 x 203
Dump	(1) Double acting	in.	3.0 x 16.0
		mm	76 x 406
Reach	(1) Double acting	in.	1.75 x 71.25
		mm	44 x 1810

Hydraulic Specifications	
PUMP	Operate-In-Gear-At-Idle (standard)
Type	Front mount Tandem vane
Maximum Operating Pressure	2,500 psi (17,238 kPa)
Working RPM	1,500 RPM (packer) 750 RPM (arm)
Flow @ Working RPM	33/17 GPM (packer/arm)
OIL RESERVOIR	Chassis frame mounted
Gross Capacity	50 gallons (246 liters)
Filters	3 micron return line with magnet, 140 micron mesh suction strainer
VALVES	
Shutoff	Suction line
Lift and Packing Control	Soft-shift electric over hydraulic
Hoist and Tailgate Control	Electric over hydraulic

Automated Lift Specifications	
Lift load capacity	1,600 lbs.
Cycle time	8 seconds
Reach	8 ft.
Ground clearance	20 in. from ground to bottom of grabber arms (based on a 42 in. chassis rail height)
Weight*	1,950 lbs.
Controls	Electric over hydraulic

* Weight includes standard 60/90 gallon grabbers

Chassis Requirements *	16 yd ³	20 yd ³	22 yd ³	24 yd ³	24 yd ³	26 yd ³	30 yd ³	32 yd ³
Axle	Single	Single	Single	Single	Tandem	Tandem	Tandem	Tandem
Min. GVWR ⁽¹⁾	33,000	35,000	37,000	41,000	41,000	45,000	50,000	52,000
Min. GAWR	front ⁽¹⁾	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.
Conventional Cab Wheelbase	206 in.	227 in.	227 in.	258 in.	242 in.	242 in.	255 in.	265 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 speed 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 ³	20 yd ³	22 yd ³	24 yd ³	26 yd ³	30 yd ³	32 yd ³
Body Capacity	yd ³	16	20	22	24	26	30
	m ³	12.2	15.3	16.8	18.4	19.9	22.9
Hopper Capacity	yd ³	3	3	3	3	3	3
	m ³	2.3	2.3	2.3	2.3	2.3	2.3
Overall Length*	in.	194	218	239	248	269	281
	mm	4928	5537	6071	6299	6833	7137
Overall Length (Tailgate Raised)*	in.	224	248	254	278	284	309
	mm	5690	6299	6452	7061	7214	7849
Overall Width	in.	96	96	96	96	96	96
	mm	2438	2438	2438	2438	2438	2438
Overall Height Above Frame	in.	97	97	97	97	97	109
	mm	2464	2464	2464	2464	2464	2769
Loading Sill Height Above Frame	in.	68	68	68	68	68	68
	mm	1727	1727	1727	1727	1727	1727
Mounted Weight (route ready)	lbs.	10,400	11,000	11,200	12,000	12,200	13,200
	kg.	4718	4990	5081	5444	5534	5988

* Including 30 in. for lift mount

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.



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