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Rapid Rail

Optimized Weight Automated Side Loader



**Environmental
Solutions Group®**

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Continuous Pack Automated Side Loader.

www.Heil.com

Heil Rapid Rail

Continuous Pack Automated Side Loader.

No one has more experience with automated refuse collection than Heil, and no automated product has a longer track record than the 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. The Rapid Rail lift arm's lengthy reach, fast cycle times, continuous packing big swing paddle, and solid optimized weight structural design make it a highly productive and efficient automated collection choice 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 eight-foot reach, 1,600-pound lift capacity, plus an eight-second cycle time, and you've got a fast and efficient vehicle that can collect over 1,000 homes per day.

The Rapid Rail has a patented paddle packer that continuously sweeps the three 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 their 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 paddle. The standard Select-O-Pack feature allows an operator to set a predetermined number of lift cycles before the auto-pack sequence is engaged, extending the life of the paddle packer.

With 30 years of proven performance, the Rapid Rail offers the toughest, optimized weight 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 that the load is completely discharged each time. The Rapid Rail is available in eight 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 available to dump.

The Optimized Weight of the proven Continuous Pack (CP) Rapid Rail body is ideal for an electric vehicle application for multiple reasons. Including but not limited to increasing the vehicle range and payload while configuring in a 3-axle application. A fast, efficient arm that can handle heavy organics containers. Plus, an adjustable pack cycle that can be optimized for energy efficiency and route characteristics.

Add in the digital connectivity that all Heil bodies feature with 3rd Eye® Mobile, and now you can passively monitor service verification and perform route audits, resulting in one of the lightest and most versatile RCVs in the industry, especially for those tasked with being SB 1383 compliant.

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



Add 3rd Eye Digital Packages

Connect for service verification, body/chassis data, fuel tax reporting, and route management. Includes factory installed 3rd Eye Mobile, with the ability to connect up to eight cameras.



Add 3rd Eye IRIS Collision Warning Radar

3rd Eye family of IRIS Collision Warning Radar protects both your drivers, your assets, and those in close proximity to your vehicle using existing 3rd Eye Mobile camera cables.

The Heil Rapid Rail

Design, performance and reliability that works for YOU.



Add Body Rooftop CNG Storage

Our system enables your CNG refuse fleet to deliver the same productivity you would expect from a diesel unit while saving money with clean, domestic, compressed natural gas fuel.



Add 300-Gallon Grabbers

The lift can efficiently handle containers from 30 gallons up to 300 gallons, making it an ideal solution for mixed routes with both commercial and residential applications.

Smarter By Design, With Loyalty Built In

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

Heil Rapid Rail

- + PATENTED PADDLE PACKER** - The patented Rapid Rail 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.
- + 2X INCREASED PADDLE LIFE** - New materials and welding procedures, better spline design, increased upper and lower bearing size, and replaceable engineered plastic bearing between lower bearing housing and actuator plate all result in increased paddle life by 2X from the legacy design.
- + NEW PACKER SHAFT SEAL DESIGN** - The packer shaft seal redesign virtually eliminates leaks, and is also easily replaceable when service is needed. This new design also keeps the bottom bearing clean, preventing corrosive leachate from getting on the lower bearing as well as the actuator.
- + UPPER AND LOWER BEARING GREASE LINES** - New hard-tube lube lines to the upper and lower bearings assure that grease can easily be applied from ground level.
- + 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.
- + RAPID RAIL GRABBER GEARS** - Made from specially formulated, high-strength, low-alloy steel, the Rapid Rail features superior hardened grabber gears that 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.
- + 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 styles are compatible.

Reliable Automated Side Loader Performance

- + QUIET, FUEL-EFFICIENT OPERATION** - The Heil Operate-in-Gear-at-Idle System comes standard. It is designed to help you finish routes faster. This saves 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 abrasion. 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 has a patented rotating packer design that 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 styles are compatible.
- + MOBILE CONTROLLER** - The "brain" of our system is the rugged mobile controller. This brilliant innovation provides unbeatable intelligence and precise control. Placing the mobile controller in a protected location gives us the intelligence we need and the durability our customers demand, resulting in less downtime, ease of service, and unmatched simplicity of operation.
- + SB-1383 COMPLIANT / ORGANICS COLLECTION** - The optimized weight of the proven CP Rapid Rail body is ideal for an electric vehicle application, increasing the vehicle range and payload while configuring in a 3-axle application. Match that with the fast, efficient arm that can handle heavy organics containers, an adjustable pack cycle that can be optimized for energy efficiency and route characteristics, then add in the digital connectivity with 3rd Eye, and now you can passively monitor service verification and perform route audits.

Discover What Sets The Rapid Rail Apart



RAPID RAIL AUTOMATED LIFT

The Rapid Rail automated lift arm can efficiently handle containers from 30 gallons up to 300 gallons, making it an ideal solution for commercial and residential applications. The redesigned lift features a six-roller carriage that distributes the load evenly across the arm, greatly increasing its life.



BIG SWING PADDLE PACKER

Improved Big Swing design increases paddle life by 2X from the previous version. The newly designed packer shaft seal also virtually eliminates leaks. Hard tube lines to upper and lower bearings allow grease to be applied from the ground level.



SELECT-O-PACK

Select-O-Pack allows an operator to set a predetermined number of lift cycles before the auto-pack sequence is engaged. This feature helps to extend the life of the paddle packer.



OPTIMIZED WEIGHT BODY

The solidly designed optimized weight body allows for a more optimal payload, and is ideal for areas with stringent weight restrictions.

Smarter By Design, With Loyalty Built In

The Heil Rapid Rail was specifically designed to maximize your efficiency on daily collection routes.

Heil Rapid Rail 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 yd³
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 Paddle	(2) Double acting	in	5.0 x 42.0
		mm	127 x 1,066
Body Hoist	(2) Double Acting	in.	4.0 x 55.5
		mm	102 x 1,407
Lift Cylinders			
Grip	(1) Double Acting	in.	3.0 x 8.0
		mm	76 x 203
Dump	(1) Double Acting	in.	3.0 x 8.0
		mm	76 x 203
Raise	(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 1,810

Hydraulic Specifications	
PUMP	Operate-In-Gear-At-Idle (standard)
Type	Front mount Tandem vane
Maximum Operating Pressure	2,200 psi (15,168 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 (190 liters)
Filters	Return line 3 micron, 140 micron 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. approximate
Controls	Electric over hydraulic

* Weight includes standard 60/90 gallon grabbers. 300 gallon grabbers are optional.

Typical Chassis Configuration*		16 yd³	20 yd³	22 yd³	24 yd³	24 yd³	26 yd³	30 yd³	32 yd³
Axe		Single	Single	Single	Single	Tandem	Tandem	Tandem	Tandem
Min. GVWR ⁽¹⁾		lbs.	33,000	35,000	37,000	41,000	41,000	45,000	50,000
Min. GAWR	Front (1)	lbs.	12,000	14,000	14,000	15,000	15,000	15,000	16,000
	Rear	lbs.	21,000	21,000	23,000	26,000	26,000	30,000	34,000
Usable CA/CT		in.	134 CA	157 CA	157 CA	189 CA	173 CT	173 CT	185 CT
C.O.E. Wheelbase		in.	161	182	182	213	197	197	210
Conventional Cab Wheelbase		in.	206	227	227	258	242	242	255
Min. Platform		in.	180	204	204	215	234	234	246

*OPERATE-IN-GEAR units require engines with at least 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 yd³	20 yd³	22 yd³	24 yd³	26 yd³	30 yd³	32 yd³
Body Capacity	yd³	16	20	22	24	26	30	32
	m³	12.2	15.3	16.8	18.4	19.9	22.9	24.5
Hopper Capacity	yd³	3	3	3	3	3	3	3
	m³	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Overall Length*	in.	194	218	239	248	269	281	293
	mm	4,928	5,537	6,071	6,299	6,833	7,137	7,442
Overall Length (Tailgate Raised)*	in.	224	248	254	278	284	309	321
	mm	5,690	6,299	6,452	7,061	7,214	7,849	8,153
Overall Width	in.	96	96	96	96	96	96	96
	mm	2,438	2,438	2,438	2,438	2,438	2,438	2,438
Overall Height Above Frame	in.	97	97	97	97	97	109	109
	mm	2,464	2,464	2,464	2,464	2,464	2,769	2,769
Loading Sill Height Above Frame	in.	68	68	68	68	68	68	68
	mm	1,727	1,727	1,727	1,727	1,727	1,727	1,727
Mounted Weight (Route Ready)	lbs.	10,400	11,000	11,200	12,000	12,200	13,200	13,600
	kg.	4,718	4,990	5,081	5,444	5,534	5,988	6,170

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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Proven Design. Legendary Performance.



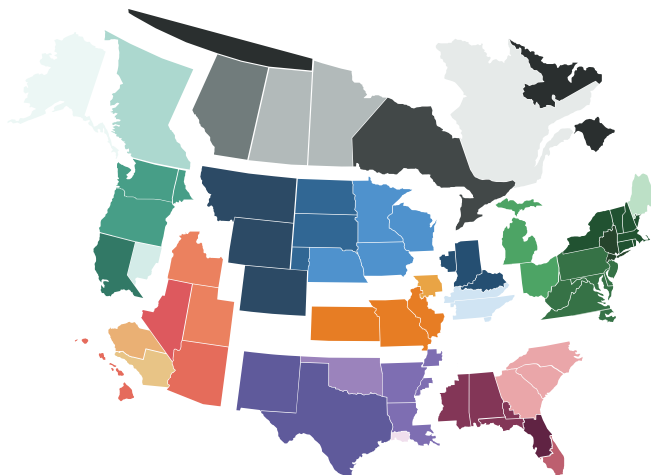
EXPEDITE THE PURCHASE OF YOUR HEIL UNIT THROUGH SOURCEWELL

Sourcewell Cooperative Purchasing Program has awarded Heil a nationally bid contract for "Solid Waste and Recycling Collection Equipment with Related Equipment, Accessories, and Supplies." Through the Heil contract, Sourcewell members can purchase any of the Heil line of refuse and recycling equipment, including front-loading, side-loading, and rear-loading refuse collection vehicles, without having to create an RFP and send the project through a time-consuming duplicate bid process. By using the existing nationally bid contract, members can receive the products they need more quickly and cost effectively. Best of all, Sourcewell membership is free! Qualified agencies can join online via the Sourcewell purchasing website at www.sourcewell-mn.gov. To find out more about purchasing Heil equipment via the Sourcewell contract, please contact your local Heil Dealer at www.heil.com/dealers.



TRUST HEIL CERTIFIED OEM PARTS

Heil Certified OEM parts are the most reliable replacement parts for Heil refuse collection vehicles. They're made following the exact specifications and production processes on the same assembly lines as the parts originally installed on the bodies. This means that they fit perfectly every time. Heil uses only the highest-quality materials for parts that last - minimizing costly downtime. For more information on parts, contact your Heil dealer. Visit: www.heil.com/dealers to find the dealer nearest you.



RELY ON EXPERIENCED LOCAL SUPPORT

When you buy from Heil, you gain the aftermarket support of the industry's strongest network of dealers in North America. We stand behind our dealers, so you get the product support you need for the life of your products. Our dealers are also trained to help you find the best product for your particular route needs. To find the Heil dealer nearest you, visit: www.heil.com/dealers.



All Heil products are Connected Collections® ready. This is part of our vision, focused on helping fleet owners make better decisions, faster. For more information on ESG's Connected Collections, contact your local Heil dealer or visit us online at www.heil.com/connected-collections

www.heil.com



COUNT ON THE LOWEST TCC

Helping you save money is our passion, and we apply tremendous resources to advance our product and service offerings to improve the profitability of your business and provide the lowest Total Cost of Collection and the maximum return on your investment. You can be confident that choosing Heil equipment brings a long-term partnership with the industry leader.



CONFIGURATION ASSISTANCE

Chassis layout drawings are available through your local Heil dealer. To find your dealer, visit www.heil.com/dealers.



INDUSTRY-LEADING TRAINING

Heil has completely revamped their training programs with the addition of both the Heil Service Shack® and our four-tiered Nexteligenze® Connected-Tech Training Program. Now, customers can visit the Heil Service Shack on the Heil website to learn the latest techniques and view helpful service and training videos any time, as well as sign up for Connected-Tech courses to better train technicians on Heil Refuse Products. Ensure your shops are servicing your Heil products correctly; check out the Heil training offerings at www.heil.com/nexteligenze.



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