



**WE NEVER STOP WORKING FOR YOU**

**Heil<sup>®</sup> Rapid Rail<sup>®</sup>**  
Automated Side Loader

A **DOVER** COMPANY



**Continuous Pack Automated Side Loader.**

[www.Heil.com](http://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 **Heil 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 lightweight 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, lightweight 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.

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](http://heil.com/dealers).



## The Heil® Rapid Rail® Design, performance and reliability that works for YOU.



### 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® Collision Avoidance Radar

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



### 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.

## 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.

## 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.



### LIGHTWEIGHT BODY

The solidly designed lightweight 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 yd <sup>3</sup>
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
<b>Lift Cylinders</b>			
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	
<b>PUMP</b>	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)
<b>OIL RESERVOIR</b>	Chassis frame mounted
Gross Capacity	50 gallons (190 liters)
Filters	Return line 3 micron, 140 micron suction strainer
<b>VALVES</b>	
Shutoff	Suction line
Lift and Packing Control	Soft-shift electric over hydraulic
Hoist and Tailgate Control	Electric over hydraulic

Typical Chassis Configuration*		16 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>		lbs.	33,000	35,000	37,000	41,000	41,000	45,000	50,000	52,000
Min. GAWR	Front	lbs.	12,000	14,000	14,000	15,000	15,000	15,000	16,000	18,000
	Rear	lbs.	21,000	21,000	23,000	26,000	26,000	30,000	34,000	34,000
Usable CA/CT		in.	134 CA	157 CA	157 CA	189 CA	173 CT	173 CT	185 CT	195 CT
C.O.E. Wheelbase		in.	161	182	182	213	197	197	210	220
Conventional Cab Wheelbase		in.	206	227	227	258	242	242	255	265
Min. Platform		in.	180	204	204	215	234	234	246	258

\*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 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>	3	3	3	3	3	3	3
	m <sup>3</sup>	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

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.

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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Heil® Rapid Rail®  
Proven Design. Legendary Performance.



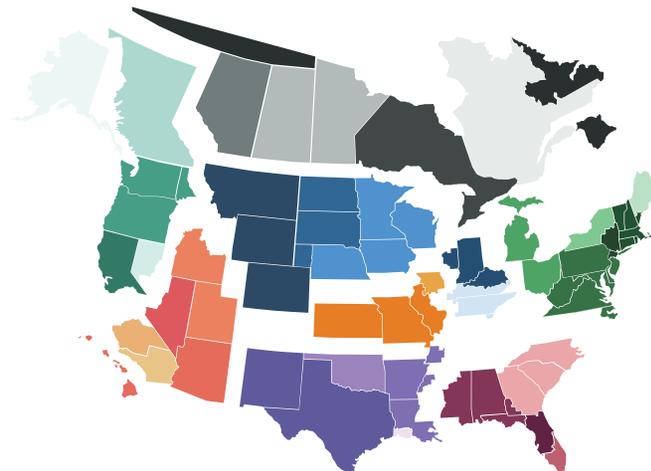
**EXPEDITE THE PURCHASE OF YOUR HEIL® UNIT THROUGH SOURCEWELL**

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](http://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](http://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](http://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](http://www.heil.com/dealers).



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[www.heil.com](http://www.heil.com)



To find your local Heil dealer, visit: [www.heil.com/dealers](http://www.heil.com/dealers)



**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](http://www.heil.com/dealers).



**INDUSTRY-LEADING TRAINING**

Heil has completely revamped their training programs with the addition of both the Heil Service Shack™ and their four-tiered Nexteligençe™ 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/nexteligençe](http://www.heil.com/nexteligençe).