



Rapid Rail[®]

Automated
Side Loader



The Refuse Collection System
That Changed The Industry.

Now Updated For The New Millennium.

Rapid Rail® wrote the book on automated refuse collection. More than 20 years after its introduction, Rapid Rail® continues to be the first choice for automated fleets large and small. And it's no wonder. Rapid Rail® is a proven performer, with its eight-foot reach, continuous packing design, and solid Heil construction.

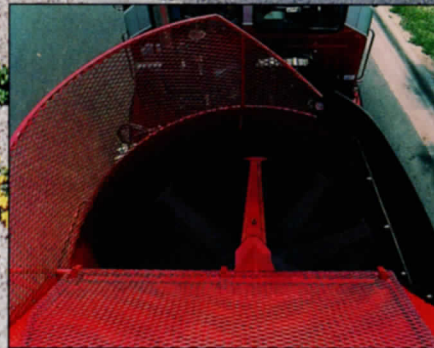
But today's Rapid Rail® isn't resting on its laurels. We've simplified electronics for greater dependability, beefed up key structural components, and added an Operate-In-Gear-At-Idle feature with 2001 models to save fuel, decrease route time, reduce noise and emissions, and cut maintenance costs.

It's the biggest improvement in automated technology...the introduction of the Rapid Rail®.

Thanks to Rapid Rail®, automated refuse collection is a novelty. More and more communities and independent contractors are finding that automated systems control labor costs, increase productivity and profits, and enhance neighborhood appearance. When it comes to automation, Heil leads the way. We have three automated systems in use today. And expect more. The difference. Call us today for a list of Valued & Satisfied customers. We'll show you what we mean.



The unique lift geometry of the Rapid Rail® is a direct line to the hopper, without the "kick-out" common on other systems. As a result, you'll get in and out of tight places easily.



The patented paddle packer design continuously sweeps the hopper. No need to stop and pack while you're running your route.



The eight-foot reach of the Rapid Rail® arm allows you to avoid obstacles that would stop other systems cold.



Optical sensors naturally visible to the driver.

technology since.

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perience does make a
Satisfied Rapid Rail



ditional joystick controls are easy and
ural. And because of Rapid Rail's
bility, operators can comfortably
ve from the left side of the cab.



Operate-In-Gear-At-Idle with
today's Rapid Rail® equipped with
Denison vane pump. Save fuel,
cut route times, reduce noise and
save maintenance dollars, too.,

Rapid Rail® Just Keeps Getting Better.

New Loader Harness

Rapid Rail® now uses a three-piece Cordaflex harness to extend the life of the harness. A metal bulkhead fitting, fitted clamps, and the larger bend radius relieve strain on the harness, also extending the harness life. The fire hose has been eliminated, too, making maintenance easier.



More Electrical Refinements

By incorporating diodes into electrical coils, 11 wires have been eliminated from the Rapid Rail® wiring harness. Safeguards have also been added that eliminate the



possibility of short circuits in the control box. Rotary actuated switches now replace plunger type limit switches for greater reliability, and Deutsch connectors have replaced automotive style electrical connectors.



Structural Improvements

Spacers have been added between the grabber gear bearings, extending bearing, gear and pin life. The loader pedestal mount has also been



strengthened, as well as the vertical arm bracket and valve mounting bracket. The result is a Rapid Rail® that can better withstand the rigors that automated collection can dish out.

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

Rapid Rail[®] Automated Side Loader



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
Mounting length	30 in. (762 mm)
Controls	In-cab rocker switch electric over hydraulic (joystick optional)

* Weight includes standard 60/90 gallon grabbers

CHASSIS REQUIREMENTS						
MODEL	Minimum GVWR ⁽¹⁾	Minimum Front ⁽¹⁾	GAWR Rear	CA/CT (CA-Single Axle CT-Tandem Axle)	Wheelbase (Based on Cab-Over Engine Chassis Styles)	Minimum Platform
RR-16	33,000	12,000	21,000	134 CA	161 in.	180 in.
RR-20	35,000	14,000	21,000	157 CA	182 in.	204 in.
RR-22	37,000	14,000	23,000	157 CA	182 in.	204 in.
RR-24	41,000	15,000	26,000	189 CA	213 in.	215 in.
RR-24	41,000	15,000	26,000	173 CT	213 in.	234 in.
RR-26	45,000	15,000	30,000	173 CT	197 in.	234 in.
RR-30	50,000	16,000	34,000	185 CT	210 in.	246 in.
RR-32	52,000	18,000	34,000	195 CT	220 in.	258 in.

- Chassis must have front engine crankshaft adapter for all front drive gear pumps.
- Diesel engines require full variable-speed governor or electronic governor.
- 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.
- OPERATE-IN-GEAR units require 350 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.

(1) Front axle Min. GAWR requirements may be reduced by up to 2,000 lbs. for chassis with actual, unladen bare front axle weights of 8,000 lbs. or less.

HYDRAULIC SPECIFICATIONS			
PUMP		With Operate-In-Gear	Without Operate-In-Gear
	Type:	Denison Vane Front or PTO Driven	Tandem Gear (piston optional)
	Maximum Operating Pressure	2500 psi @ 1500 rpm (packer)	2500 psi
	Working RPM	1500/Packer, 800/Arm	1500 approx. (1000 w/piston)
GPM at Working RPM	30/16 GPM Packer/Arm	27/15 GPM Packer/Arm	
OIL RESERVOIR Sealed and Pressurized 7 PSI system			
	Tank Capacity	45 Gallons (171 liters)	
	Oil System Gross Capacity	65 Gallons (246 liters)	
	Filters	6 Micron Return Line, 140 Micron Mesh Suction Strainer with magnet	
VALVES			
	Shutoff	Suction Line (optional)	
	Lift & Packing Control	Coordinated Electric Over Hydraulic	
	Hoist & Talgate Controls	Electric Over Hydraulic	
BODY CYLINDERS	type	inches (Bore x Stroke) mm	
	Tailgate Raise	(2) double acting	3.0 x 18.5 76 x 470
	Packer	(2) double acting	5.0 x 42.0 127 x 1066
	Dumping (telescopic)	(2) double acting	4.0 x 55.5 102 x 1407
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

CONSTRUCTION SPECIFICATIONS		
High Tensile Steel	Thickness	mm
Body Sides	10 ga. ⁽²⁾	3.4
Body Roof	12 ga. ⁽²⁾	2.7
Body Floor	7 ga. ⁽³⁾	4.5
Floor Support Member	2 1/4 in. x 10 in. x 3/8 in. structural channel	
Body Reinforcement	1.50 in. x 5 in. 7 ga. channel	
Tailgate Rear Panel	10 ga. ⁽²⁾	3.4
Tailgate Sides	10 ga. ⁽²⁾	3.4
Hopper Floor	1/2 in. ⁽¹⁾	12.7
Hopper Sides	1/2 in. ⁽¹⁾	12.7
Packer Paddle Box Section	1/2 in. ⁽¹⁾	12.7

(1) 36,000 psi min. yield (2) 50,000 psi min. yield BHN 100 (3) 150,000 psi min. yield BHN 321

MODEL	BODY CAPACITY		HOPPER CAPACITY		OVERALL LENGTH		OVERALL LENGTH (Tailgate Raised)		OVERALL WIDTH		OVERALL HEIGHT ABOVE FRAME				APPROX. WEIGHT (includes lift)	
	yd ³	m ³	yd ³	m ³	inches	mm	inches	mm	inches	mm	Body Lowered		Body Raised		lbs.	kg
											inches	mm	inches	mm		
RR-16	16	22.2	3	2.3	163	4140	224	5690	96	2438	97	2464	154	3912	10,000	4536
RR-20	20	15.3	3	2.3	187	4750	248	6299	96	2438	97	2464	168	4267	11,000	4990
RR-22	22	16.8	3	2.3	206	5233	254	6452	96	2438	97	2464	168	4267	11,200	5081
RR-24	24	18.4	3	2.3	217	5512	278	7061	96	2438	97	2464	185	4699	12,000	5444
RR-26	26	19.9	3	2.3	238	6045	284	7214	96	2438	97	2464	185	4699	12,200	5534
RR-30	30	22.9	3	2.3	250	6350	309	7849	96	2438	109	2769	192	4877	13,200	5988
RR-32	32	24.5	3	2.3	262	6655	321	8153	96	2438	109	2769	199	5055	13,400	6078



HEIL ENVIRONMENTAL INDUSTRIES, LTD.

A DOVER INDUSTRIES COMPANY

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