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... well... the introduction of the Rapid Rail®.

Thanks to Rapid Rail® automated refuse collection systems, more and more communities are finding that automated systems control labor costs, improve productivity and profits, and enhance neighbors' lives. When it comes to automation, Heil leads the way with three automated systems in use today. And expect more 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.
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.

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® 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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Minimum GVWR</th>
<th>Minimum GAWR (Front)</th>
<th>Minimum GAWR (Rear)</th>
<th>Minimum Wheelbase (CA/CT Single Axle/CT Tandem Axle)</th>
<th>Minimum Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR-16</td>
<td>33,000</td>
<td>12,000</td>
<td>21,000</td>
<td>134 CA</td>
<td>161 in. 180 in.</td>
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<tr>
<td>RR-20</td>
<td>35,000</td>
<td>14,000</td>
<td>21,000</td>
<td>157 CA</td>
<td>182 in. 204 in.</td>
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<tr>
<td>RR-22</td>
<td>37,000</td>
<td>14,000</td>
<td>22,000</td>
<td>157 CA</td>
<td>182 in. 204 in.</td>
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<tr>
<td>RR-24</td>
<td>41,000</td>
<td>15,000</td>
<td>22,000</td>
<td>189 CA</td>
<td>213 in. 215 in.</td>
</tr>
<tr>
<td>RR-24</td>
<td>41,000</td>
<td>15,000</td>
<td>22,000</td>
<td>173 CT</td>
<td>213 in. 234 in.</td>
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<tr>
<td>RR-26</td>
<td>45,000</td>
<td>15,000</td>
<td>22,000</td>
<td>173 CT</td>
<td>197 in. 234 in.</td>
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<tr>
<td>RR-30</td>
<td>50,000</td>
<td>16,000</td>
<td>24,000</td>
<td>185 CT</td>
<td>210 in. 246 in.</td>
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<tr>
<td>RR-32</td>
<td>52,000</td>
<td>18,000</td>
<td>24,000</td>
<td>195 CT</td>
<td>220 in. 258 in.</td>
</tr>
</tbody>
</table>

*Chassis must have front engine crankshaft adapter for all front drive gear pumps.
*Diesel engines require full variable-speed governor or electronic governor.
*Scoot 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 pre-set between 650 and 750 RPM. Recommended alternator is 31 St. 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 5,000 lbs. or less.

### HYDRAULIC SPECIFICATIONS

<table>
<thead>
<tr>
<th>PUMP</th>
<th>With Operate-In-Gear</th>
<th>Without Operate-In-Gear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td>Denison Vane Front or PTO Driven</td>
<td>Tandem Gear (piston optional)</td>
</tr>
<tr>
<td>Maximum Operating Pressure: 2500 psi</td>
<td>1500 psi (packer)</td>
<td>2500 psi</td>
</tr>
<tr>
<td>Working RPM:</td>
<td>1500 Packer, 800/Arm</td>
<td>1500 approx. (1000/10 psi)</td>
</tr>
<tr>
<td>GPM at Working RPM:</td>
<td>25/16 GPM Packer/Arm</td>
<td>27/15 GPM Packer/Arm</td>
</tr>
</tbody>
</table>

### 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 & Packer Control**: Coordinated Electric Over Hydraulic
- **Hoist & Tiltage Controls**: Electric Over Hydraulic

### BODY CYLINDERS
- **Tailgate Raise**: (2) double acting 3.0 x 8.0 76 x 203
- **Packer**: (2) double acting 5.0 x 12.0 127 x 3116
- **Dumping (telescopic)**: (2) double acting 4.0 x 55.5 102 x 1407

### LIFT CYLINDERS
- **Grip**: (1) double acting 3.0 x 6.0 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 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: 12 in. (1) 12.7
  - Hopper Sides: 12 in. (1) 12.7
  - Packer Paddle Box Section: 12 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

### BODY SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BODY CAPACITY</th>
<th>HOPPER CAPACITY</th>
<th>OVERALL LENGTH (Tailgate Raised)</th>
<th>OVERALL WIDTH</th>
<th>OVERALL LENGTH Above Frame</th>
<th>APPROX. WEIGHT (includes lift)</th>
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<tbody>
<tr>
<td>yd³</td>
<td>m³</td>
<td>yd³</td>
<td>inches</td>
<td>inches</td>
<td>inches</td>
<td>inches</td>
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<td>RR-16</td>
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<td>3x2.3</td>
<td>163</td>
<td>244</td>
<td>5690</td>
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<td>RR-20</td>
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<td>15.3</td>
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<td>187</td>
<td>248</td>
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<tr>
<td>RR-22</td>
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<td>7849</td>
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<tr>
<td>RR-32</td>
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<td>24.5</td>
<td>3x2.3</td>
<td>262</td>
<td>321</td>
<td>8153</td>
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</table>

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 for this product at time of shipment.

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