



# Formula<sup>®</sup> 4000

Mid Range Rear Loader



The Standard Worldwide For  
Performance and Durability

# Heil Formula<sup>®</sup> 4000

The  
in

The Heil Formula<sup>®</sup> 4000 rear loader is the mid-range workhorse of the industry. Its low profile, high-tensile steel body delivers the biggest payload-to-weight ratio of any mid-range rear loader. With a variety of container handling options available, the Formula<sup>®</sup> 4000 is a complete, economical system for refuse collection.

## Start With A Tough Body

Heil builds refuse vehicles to last. We start with high-tensile steel to put extra strength into the body and tailgate without adding extra weight. Heil's interlaced subfloor puts even more strength where it's needed most, to ensure years of dependable service

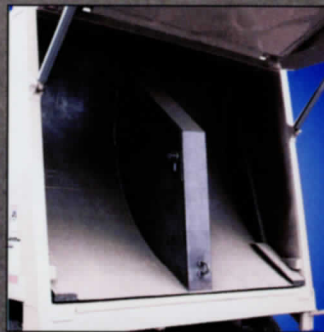
## Build In Performance

The Formula<sup>®</sup> 4000 gets the job done quickly, capable of an 18-second packing cycle and equipped with a 2.66 cubic yard hopper that's ready to reload in 5 seconds. You'll get payloads up to 800 pounds per cubic yard, too. With numbers like that, the Formula<sup>®</sup> 4000 will outperform any other rear loader in its class.

## Calculate The Value

Thousands of satisfied customers worldwide are using the Heil mid-range rear loader to handle collections in big cities and small towns alike.

Because we build it better in the beginning for greater durability and performance, your long term cost of ownership is lower with the Formula<sup>®</sup> 4000. You can be assured your Formula<sup>®</sup> 4000 will be on the route every day for years to come. That kind of dependability not only saves you money, it means peace of mind. And that can be priceless.



### Tight Fit

Ejector panel is engineered for precise fit and does not contact the tailgate. The snoutless ejector, with elevated cylinder base and aluminum/brass alloy shoes, ensures lower maintenance costs.



### Open Front Head

Provides easy access for maintenance behind ejector panel and to the ejector cylinder. An optional side access door is also available with an enclosed front head.

The most popular mid-range rear loader in the world, with over 15,000 sold.



“Build it right...then back it with integrity.”



Julius P. Heil

More than any other principal of doing business, Heil's mission to build a quality product and then stand behind it has been our guiding force for over 100 years. Whether it's technical support, training, parts, warranty service, or just "doing the right thing," Heil's commitment to customer satisfaction is legendary.

Also Available in Narrow Width Models.



#### Stronger Floor

Heil's interlaced subfloor and abrasion-resistant, high tensile steel result in a stronger floor to survive the most demanding conditions.



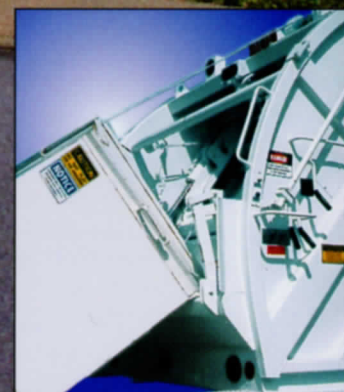
#### Filtration

External oil tank with 10 micron spin-on oil filter and suction line shutoff valve. Easy service of hydraulic oil system will mean your system stays cleaner, reducing wear on hydraulic components.



#### Lighting

High visibility lighting is standard on the Formula® 4000, for the safety of your operators as well as your customers.

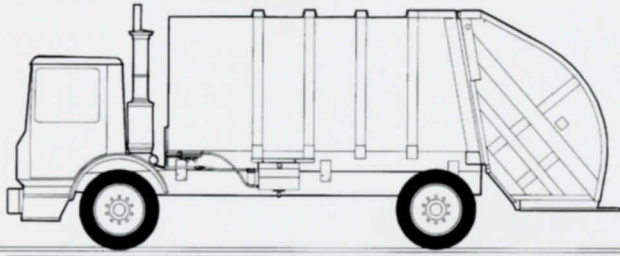


#### Container Handling Options

A variety of container mechanisms are available, including the winch (shown), the fully hydraulic roll bar, and the reeving cylinder.

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

## Formula 4000 Mid-Range Rear Loader



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.

### PERFORMANCE SPECIFICATIONS

Compaction..... up to 800 Lbs. per Yd<sup>3</sup>  
 Hopper Size..... 2.66 Cubic Yards  
 Packing Cycle Time..... 15-17 Seconds  
 Reload Time..... 5-6 Seconds  
 FET Exempt..... 13, 16, 18 & 20 Yd. Units  
 (single axle configurations)

HYDRAULIC SPECIFICATIONS	
<b>PUMP</b>	
Type	High pressure gear
Max. operating pressure	2500 psi (17,237 kPa)
GPM (w/optional regen. valve)	24 GPM (90.8 liters/min.)
<b>OIL RESERVOIR</b>	
Tank capacity	24 gallons (90.8 liters)
Filters (replaceable)	Return - 10 micron Suction - 140 micron
<b>VALVES</b>	
Shut-off	Ball type
Packing control	Spool type
Ejector and tailgate raise	Spool type

CHASSIS REQUIREMENTS										
MODEL	MIN. GVWR		MIN. GAWR <sup>(1)</sup>		USABLE CA		USABLE CT		MIN. AF	
	inches	mm	Front	Rear	inches	mm	inches	mm	inches	mm
4000-13	25,500	8,000	17,500	96 <sup>(2)</sup>	2438	NA	NA	32	813	
4000-16	27,000	9,000	18,000	102-108	2591-2743	NA	NA	32	813	
4000-18	29,500	9,000	20,000	118-124	2997-3150	NA	NA	32	813	
4000-20	32,000	9,000	23,000	132-138	3353-3505	114-120	2896-3048	32/51	813/1295	
4000-25	43,000	9,000	34,000	NA	NA	136-142	3454-3607	51	1295	

NOTES:  
 • Any chassis sent to The Heil Co. with less than these minimum GVWR/GVARs will not be mounted.  
 1) If CA/CT is not as recommended, contact Heil Environmental Industries, Ltd. for applicable weight distribution and GVWR/GAWR requirements.  
 2) Requires 7" forward mounting of body.  
 3) L.H. Side Door optional 4) Closed Front Head optional

TAILGATE SPECIFICATIONS										
MODEL	HOPPER CAPACITY		LOADING SILL HEIGHT BELOW CHASSIS FRAME		HOPPER LOADING WIDTH		HOPPER OPENING HEIGHT		CYCLE TIME - Seconds (with optional regen. valve)	
	y <sup>3</sup>	m <sup>3</sup>	inches	mm	inches	mm	inches	mm	Complete	Reload
4000-13-20	2.66	2.04	0	0	80	2032	46	1168	15-17	5-6
4000-25	2.66	2.04	2	51	80	2032	46	1168	15-17	5-6

BODY SPECIFICATIONS														
MODEL	BODY CAPACITY		OVERALL LENGTH		OVERALL LENGTH TAILGATE RAISED		OVERALL WIDTH		OVERALL HEIGHT ABOVE FRAME		OVERALL HEIGHT TAILGATE RAISED		GROSS WEIGHT APPROXIMATE	
	y <sup>3</sup>	m <sup>3</sup>	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	lbs.	kg.
4000-13	13.8	10.55	186	4724	211	5359	95.75	2432	86	2184	156	3962	9,100	4,128
4000-16	16	12.23	201	5105	226	5740	95.75	2432	86	2184	156	3962	9,400	4,264
4000-18	18	13.76	217	5512	241.5	6134	95.75	2432	86	2184	156	3962	9,650	4,377
4000-20	20	15.29	231	5867	255	6477	95.75	2432	86	2184	156	3962	9,900	4,491
4000-25	25	19.11	254	6452	287	7299	95.75	2432	93	2362	167	4242	10,700	4,853

CYLINDERS																		
MODEL	TAILGATE RAISE (2)				PACKING BLADE (2)				SLIDE (2)				EJECTION (1)					
	BORE		STROKE		BORE		STROKE		BORE		STROKE		MODEL	STAGES	BORE		STROKE	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm			inches	mm		
ALL	3	76.2	31	787.4	4	101.6	21.62	549.2	4.5	114.3	26.5	673.1	4000-13	3	5.5	140	64.75	1645
													4000-16	3	5.5	140	81.12	2060
													4000-18	4	6.5	165	96.12	2441
													4000-20	4	6.5	165	110.12	2797
													4000-25	4	6.5	165	129.00	3277



HEIL ENVIRONMENTAL INDUSTRIES, LTD.  
 A DOVER COMPANY



6400 Building B, 5751 Cornelson Rd., Chattanooga, TN 37411 • 1-800-824-4345 • Fax: (423) 855-3478 • www.heil.com

© 2002, The Heil Co. • Printed in U.S.A. • FORM #SWS-74845-0103