



Formula[®] 4000

Mid-Range Rear Loader



The Standard Of The
Industry Worldwide.

HEIL ENVIRONMENTAL
INDUSTRIES, LTD.

A DOVER INDUSTRIES COMPANY

Heil Formula® 4000. The rear loader in the world.

The Heil Formula® 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® 4000 is a complete, economical system for refuse collection.

One 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. The body is full-seam welded (not skip welded) for superior strength, rust-free service and a cleaner appearance.

Low Cost of Ownership

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 dependability, your long term cost of ownership is lower with the Formula® 4000. You can be assured your Formula® 4000 will be on the route day in and day out 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.

most popular mid-range
model, with over 15,000 sold.



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

CONSTRUCTION SPECIFICATIONS		
High Tensile Steel	Thickness	mm
Body sides	11 ga.	3.038
Body roof	11 ga.	3.038
Body floor	10 ga.	3.416
Body longitudinal	8 ga.	4.176
Floor support members	11 ga.	3.038
Front head	11 ga.	3.038
Hopper floor (100,000 PSI yield)	3/16 in.	4.763
Hopper sides	10 ga.	3.416
Packing blade (80,000 PSI yield)	3/16 in.	4.763
Ejector panel	11 ga.	3.038

HYDRAULIC SPECIFICATIONS	
PUMP	
Type	High pressure gear.
Maximum operating pressure	2500 psi (17,237 kPa)
GPM at working RPM	22 GPM (83.28 liters/min.)
OIL RESERVOIR	
Tank capacity	24 gallons (90.8 liters).
Filters	Return line 10 micron, replaceable element.
VALVES	
Shut-off	Standard.
Packing control	Spool type.
Ejector and tailgate raise	Spool type.

OPERATING CONTROLS	
Packing	Right side of tailgate.
Tailgate raise	Forward left corner of body.
Ejector	Forward left corner of body
P.T.O.	Inside cab.
Signal buzzer switches	Right side of tailgate.
Engine speed-up	Forward left corner of body.

CHASSIS REQUIREMENTS									
MODEL	MIN. GVWR	MIN. GAWR ²		USABLE CA		USABLE CT		MIN. AF	
		Front	Rear	Inches	mm	Inches	mm	Inches	mm
4000-13	26,000	8,000	18,000	96*	2438	NA	NA	32	813
4000-16	27,000	9,000	18,000	108	2743	NA	NA	32	813
4000-18	29,500	9,000	20,000	120	3048	NA	NA	32	813
4000-20	32,000	9,000	23,000	138	3505	120	3049	32/51	813/1295
4000-25	43,000	9,000	34,000	ND	ND	137	3480	51	1295

*Requires 7" forward mounting of body.

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.

NOTES:

- 1) Any chassis sent to The Heil Co. with less than these minimum GVWR/GVARs will not be mounted.
- 2) If CA/CT is not as recommended, contact Heil Environmental Industries, Ltd. for applicable weight distribution and GVWR/GAWR requirements.
3. Diesel engines require full variable speed governor.
4. L.H. Side Door optional
5. Closed Front Head optional

TAILGATE SPECIFICATIONS										
MODEL	HOPPER CAPACITY (TBEA Rated)		LOADING SILL HEIGHT BELOW CHASSIS FRAME		HOPPER LOADING WIDTH		HOPPER OPENING HEIGHT		CYCLE TIME	
	Yd ³	m ³	Inches	mm	Inches	mm	Inches	mm	Complete	Reload
4000-13-20	2.3	1.76	0	0	80	2032	46	1168	22-26	12-15
4000-25	2.3	1.76	2	51	80	2032	46	1168	22-26	12-15

BODY SPECIFICATIONS														
MODEL	BODY CAPACITY		OVERALL LENGTH		OVERALL LENGTH TAILGATE RAISED		OVERALL WIDTH		OVERALL HEIGHT ABOVE FRAME		OVERALL HEIGHT TAILGATE RAISED		GROSS WEIGHT APPROXIMATE	
	Yd ³	m ³	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		ISTROKE		BORE		STROKE		BORE		STROKE		MODEL	STAGES	BORE		STROKE				
	Inches	mm	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	5/8	549.27	4	1/2	114.3	26	1/2	673.1	4000-13	3	5 1/2	140	64.75	1645
													4000-16	3	5 1/2	140	81.12	2060			
													4000-18	4	6 1/2	165	96.12	2441			
													4000-20	4	6 1/2	165	110.12	2797			
													4000-25	4	6 1/2	165	129.00	3277			



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