



**THE
INDUSTRY'S
BEST
PAYLOAD-TO-WEIGHT
RATIO**

THIS FORMULA PACKER BODY WEIGHS LESS AND PACKS MORE

No other packer body compares to the new Heil Formula 4000. In fact, any packer body ranking close to its achievements in compaction weighs at least a half ton more. Heil engineers learned how to increase the payload-to-weight ratio without compromising operating performance. The Formula 4000 is a carefully balanced equation in which a choice is made that delivers both economy of operation and rugged durability. Engineering change order after change order has sliced away the excess weight. Today's 20 yard model Formula 4000 weighs just 9,800 pounds. Today, there's more reason than ever before to leave unneeded body weight behind. Pound for pound, the Formula 4000 packs more payload on residential, light commercial and mixed routes. It's worth its weight in on-the-job performance.

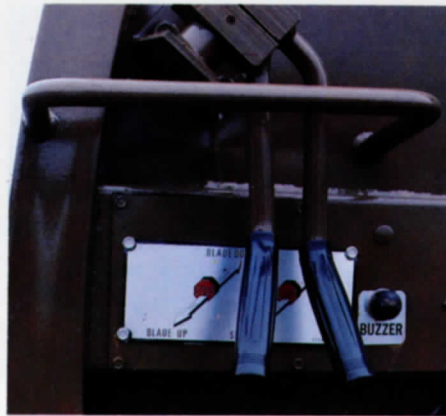
HIGH DENSITY LOADS

Heil pioneered the compaction method by which refuse is compressed between the packing blade and ejector panel. Called "Duo-Press," the much-imitated concept has made possible the evolution of increased load densities by maximizing compaction forces. The "Duo-Press" feature includes an automatic advance of the ejector panel. As the body fills, the panel adjusts without operator attention. The Formula 4000 easily packs load densities up to 800 lbs. per cubic

yard. While material characteristics affect compaction rates, no body in the Formula 4000's class weight can pack in its league.

OPERATING ECONOMY

Formula 4000 delivers more in extra value measured in operating expense, maintenance cost and operator convenience. Here's a two cubic yard hopper rear loader taking less weight and energy, less time and effort to cover the route. Compare the Four Thou's full-sized hopper, bigger load opening and fast cycle. It all works more trouble free with

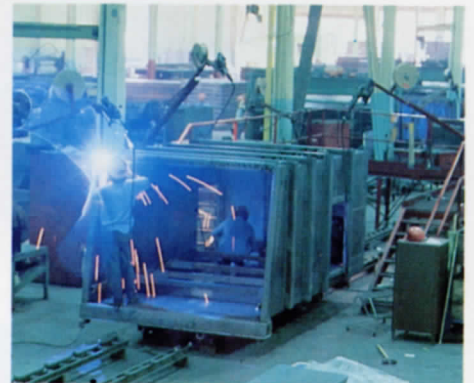


Heil's unique two handle control. Each lever operates two of four actions in the packing cycle sequence. The unique system eliminates complex linkage and requires both operator hands on the controls during cycling. Feature after feature tells you that here is a body built to work better for less. Inside the body, non-metallic, low friction wear pads replace bronze wear bars. They

wear much longer reducing replacement costs.

THE TRADITION CONTINUES

The Formula 4000 extends a proud tradition begun with the Heil Colectomatics introduced first 25 years ago. The Colectomatics—and their successors, the Formula 4000 bodies, represent the most popular series of packer bodies made at any time anywhere in the world. Continually made better, and in greater numbers, these are the bodies tested and proven like no others. For almost a decade, Heil has been producing these bodies in the largest production facility devoted to packer body manufacturing and nothing else. It is a



commitment to product excellence and to the solid waste industry that's unmatched. Heil spent millions on plant, machinery and people. This is the company behind the Formula 4000. This is the assurance that a good idea is going to keep going a good deal longer.



HEIL

DANGER



CAUTION
Do not touch
hot surfaces
or moving parts
of the engine
or transmission
while the engine
is running.

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is running.

HYDRA-IC OIL ONLY



**HEIL'S
FORMULA
4000**

HEIL FORMULA 4000

DIMENSIONS, CAPACITIES & CHASSIS REQUIREMENTS

	Model 4000-16	Model 4000-18	Model 4000-20	Model 4000-25
FORMULA 4000 BODY				
Body Capacity	16 yd ³ (12.23m ³)	18 yd ³ (13.76m ³)	20 yd ³ (15.29m ³)	25 yd ³ (19.11m ³)
Overall Length	197 in. (5003.8mm)	204 in. (5181.6mm)	227 in. (5765.8mm)	249 in. (6324.6mm)
Length at body floor	130 in. (3302mm)	145½ in. (3695.7mm)	160 in. (4064mm)	183 in. (4648.2mm)
Overall Width	95¾ in. (2432.1mm)	95¾ in. (2432.1mm)	95¾ in. (2432.1mm)	95¾ in. (2432.1mm)
Overall Height	83 in. (2108.2mm)	83 in. (2108.2mm)	83 in. (2108.2mm)	90 in. (2286mm)
Gross Weight (approx.)	9,400 lbs. (4263.7 kgs)	9,650 lbs. (4377.1 kgs)	9,800 lbs. (4490.5 kgs)	10,700 lbs. (4853.4 kgs)
FORMULA 4000 HOPPER				
Hopper Capacity	2.0 yd ³ (1.53m ³)	2.0 yd ³ (1.53m ³)	2.0 yd ³ (1.53m ³)	2.0 yd ³ (1.53m ³)
Hopper Width	80 in. (2032mm)	80 in. (2032mm)	80 in. (2032mm)	80 in. (2032mm)
Load Opening	46 in. (1168.4mm)	46 in. (1168.4mm)	46 in. (1168.4mm)	46 in. (1168.4mm)
Loading Height	SAME AS CHASSIS FRAME			
FORMULA 4000 CHASSIS REQUIREMENTS				
C/A Single Axle	102–110 in. (2590.8mm)–(2794mm)		132–140 in. (3352.8mm)–(3556mm)	
C/A Tandem Axle Recommended GVWR	32,000 lbs. (14,514.9 kgs)		41,000 lbs. (18,597.2 kgs.)–47,000 lbs. (21,318.7 kgs)	

For complete specifications contact your Heil distributor or



THE HEIL CO.

Solid Waste Systems Division,
P.O. Box 8676, Chattanooga, TN 37411

All designs, specifications and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time without advance notice. Data published herein is informational in nature 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 applicable is our standard written warranty for this body.



HEIL FORMULA BODIES



FORMULA 4000

REAR LOADER 1980 SPECIFICATIONS

	Model 4000-16	Model 4000-18	Model 4000-20	Model 4000-25
BODY SIZE	16 yd ³ (12.23m ³)	18 yd ³ (13.76m ³)	20 yd ³ (15.29m ³)	25 yd ³ (19.11m ³)
Overall Length	193 ³ / ₄ in. (4921.25mm)	209 ¹ / ₄ in. (5314.95mm)	223 ³ / ₄ in. (5683.25mm)	246 ³ / ₄ in. (6267.45mm)
Length at Body Floor	130 in. (3302.0mm)	145.5 in. (3695.7mm)	160 in. (4064.0mm)	183 in. (4648.2mm)
Overall Width	95 ³ / ₄ in. (2432.1mm)	95 ³ / ₄ in. (2432.1mm)	95 ³ / ₄ in. (2432.1mm)	95 ³ / ₄ in. (2432.1mm)
Overall Height (above chassis frame)	83 in. (2108.2mm)	83 in. (2108.2mm)	83 in. (2108.2mm)	90 in. (2286.0mm)
TAILGATE				
Hopper Capacity (TBEA Rated)	2.0 yd ³ (1.53m ³)	2.0 yd ³ (1.53m ³)	2.0 yd ³ (1.53m ³)	2.0 yd ³ (1.53m ³)
Hopper Width	80 in. (2032.0mm)	80 in. (2032.0mm)	80 in. (2032.0mm)	80 in. (2032.0mm)
Load Opening	46 in. (1168.4mm)	46 in. (1168.4mm)	46 in. (1168.4mm)	46 in. (1168.4mm)
Loading Height	even with chassis frame	even with chassis frame	even with chassis frame	4 in. (101.6mm) below chassis frame
CYCLE TIME				
Complete Cycle	22-26 seconds	22-26 seconds	22-26 seconds	22-26 seconds
CHASSIS REQUIREMENTS				
C/A Single Axle	102-110 in. (2590.8-2794mm)	117-125 in. (2971.8-3175.0mm)	132-140 in. (3352.8-3356.0mm)	N/A
C/T Tandem Axle	N/A	N/A	116 in. (2946.4mm)	138 in. (3505.2mm)
Recommended GVWR	32,000 lbs. (14,514.9 kgs)	36,500 lbs. (16,556.04 kgs)	41,000 lbs. (18,597.2 kgs)	47,000 lbs. (21,318.7 kgs)
COMBINED CG FROM FRONT OF BODY				
C/G empty from front head	101 in. (2565.4mm)	110 in. (2794.0mm)	118 in. (2997.2mm)	128 in. (3251.2mm)
Payload C/G from front of body	80 ¹ / ₂ in. (2044.7mm)	89 in. (2260.6mm)	97 in. (2463.8mm)	108 in. (2743.2mm)
Gross Weight (approx.)	9,400 lbs. (4263.7 kgs)	9,650 lbs. (4377.1 kgs)	9,900 lbs. (4490.5 kgs)	10,700 lbs. (4853.4 kgs)
ALL 4000 MODELS				
STEEL TYPE AND GAUGE		STEEL TYPE AND GAUGE		
Body Sides	11 ga. high tensile (3.038mm)	Hopper Floor	3/16 in. (4.762mm) 100,000 PSI steel (7030.8 kgs/cm ²)	
Body Roof	11 ga. high tensile (3.038mm)	Hopper Sides	10 ga. high tensile (3.416mm)	
Front Head	11 ga. high tensile (3.038mm)	Packing Blade	3/16 in. (4.762mm) 100,000 PSI steel (7030.8 kgs/cm ²)	
Body Floor	10 ga. high tensile (3.416mm)	Ejector Panel	12 ga. high tensile (2.657mm)	
Tailgate Sides	10 ga. high tensile (3.416mm)			
CYLINDERS		CYLINDERS		
Tailgate Raise	2-3 in. bore (50.8-76.2mm) x 31 in. (787.4mm) stroke	Ejector 16 yd ³ (12.23m ³)	1-3 stage, double acting telescopic	
Packing Blade	2-3 ¹ / ₂ in. bore (50.8-88.9mm) x 21 ⁵ / ₈ in. (549.3mm) double acting	Ejector 20 yd ³ (15.29m ³)	1-3 stage, double acting telescopic	
Slide	2-4 ¹ / ₂ in. bore (50.8-114.3mm) x 27 in. (685.8mm) stroke double acting	Ejector 25 yd ³ (19.11m ³)	1-4 stage, double acting telescopic	
HYDRAULICS				
Pump		22 gpm (83.28 liters/min.) @ 1,000 rpm		
Filter		Return line 25 micron, replaceable element		
Maximum Operating Pressure		2,500 PSI (17,237 KPA)		
OPTIONAL EQUIPMENT	<ul style="list-style-type: none"> • Left side access door • Left side buzzer • Hopper flood light • Air operated PTO • Auxiliary engine drive • Front mounted pump • Extra capacity hopper - 2.25 yd³ (1.72m³) is 2 in. (50.8mm) above chassis frame-container mechanisms (require extra capacity hopper (1) arm type hydraulic for 1-3 yd³ (.7645-2.29m³) Heil containers (2) chain-cable mechanism for 1-3 yd³ (.7645-2.29m³) containers (3) 8,000 lbs. (3628.7 kgs) winch for 4-10 yd³ (3.06-7.645m³) containers (chain cable required.) 			



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