



Top performance from the industry's most  
innovative front loader



*Productivity through innovation*

**OPTIMIZER**

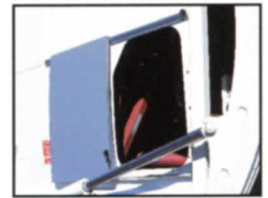
# OPTIMIZER

## Top performance from the industry's most innovative front loader

The Optimizer's battle for performance knows no limits. The product of advanced engineering and intensive testing, this innovative platform reflects our quest for perfection. With the Optimizer, Labrie is dedicated to providing a commercial front loader that offers optimum productivity.



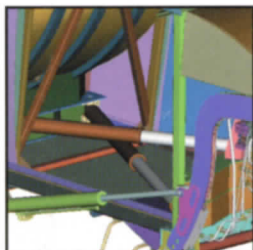
**The Optimizer's ingenious design** combines a special curved body and hopper shape with the use of composite materials to provide light body weight and one of the industry's best payloads. It also features an extremely-high compaction force and a body shell made from high-tensile steel [yield strength: 80,000 psi (550 MPa)].



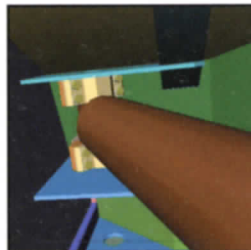
**Composite** sliding door for hopper access and easy maintenance.



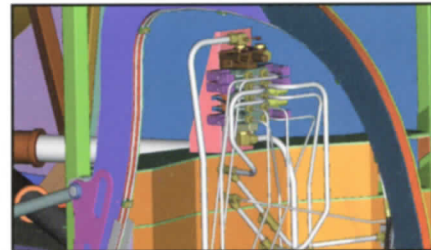
**Full-eject**, partial pack body design.  
**Anti-leak** tailgate rubber seal and **hydraulic** locking device.



**Criss-cross** mounted hydraulic cylinders for optimal packing force.



**Bolted split blocks** on compaction cylinder attachment for easy-servicing and maintenance.



**Hydraulic system** with extensive use of rigid lines for easier service and maintenance.





**Labrie's commitment** to customer satisfaction is reflected in its status as the first collection equipment manufacturer in North America to have obtained **ISO 9001 certification**.



**Productivity through innovation**



**Composite** rounded-shape cab shield.



**4-axis** pneumatic joystick for easy operation.

**High-tech concept and design strategy**

Labrie stays at the cutting edge of innovation and design by using the very latest in computer design technology. Our 3D solid software allows us to examine in detail every aspect of a vehicle's construction before it leaves the drawing-board, ensuring that the finished product is fine-tuned for maximum productivity.



**Smart-design** lightweight curved arms providing up to 10,000 lb. (4535 kg) lifting capacity.



**Unique push-motion** activated fork cylinders mounted behind lifting arms for optimum performance and visibility.

**Outstanding distribution network and in-house facilities**

Labrie gives you access to one of the most extensive distribution networks in North America and provides tailor-made leasing programs. We keep a wide selection of chassis in stock to ensure that you get on the road right on time with vehicles that allow you to fulfill your daily commitments.



*Productivity through innovation*

The latest assembly line set-up combined with technologically advanced painting facilities, 85,000 square feet of manufacturing space, a flexible and innovative engineering task force, unmatched dedication to R&D, and some of the most highly-trained workers in the business make Labrie the industry leader.

All this, plus intensive quality control means that your Labrie vehicle will keep you on the route getting the job done.

*Distributed by:*



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# OPTIMIZER

## FRONT-END LOADING BODY

### Body Capacities:

38, 40 and 42 cu. yd. (29, 31 and 32 m<sup>3</sup>)

## SPECIFICATIONS

### Body

- Body floor: curved body floor, 3/16" (4.8 mm), A-242, yield strength 50,000 psi (345 MPa)
- Sides: curved body sides, 10 gauge (3.4 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
- Roof: curved roof, 10 gauge (3.4 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
- Cab shield: composite, curved shape, with front part hinged
- Long sills: HSS tubing 6" x 2" x 1/4" (152 mm x 51 mm x 6.4 mm), yield strength 50,000 psi (345 MPa)

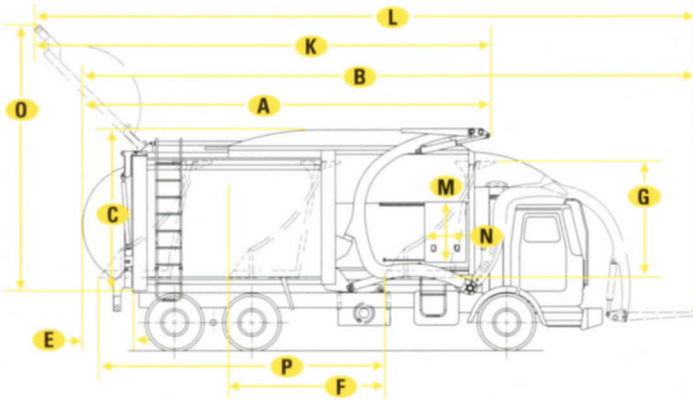
### Hopper

- Floor: flat shape, 1/4" (6.4 mm), A-514, high-tensile steel, yield strength 100,000 psi (690 MPa)
- Lower side: curved, 3/16" (4.8 mm), A-514, high-tensile steel, yield strength 100,000 psi (690 MPa)

- Upper side: curved, 10 gauge (3.4 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
- Long sills: Z shape, 1/4" (6.4 mm), yield strength 50,000 psi (345 MPa)
- Access door opening: composite, sliding type, 26" wide x 37" high (660 mm x 940 mm)

### Hydraulics

- Operating pressure: 2,000 psi (140 bars)
- Pump type: dry-valve front-mounted Tyrone DV25450 dump, gear type
- Directional valve: Gresen, 5 sections: 3 sections with electrical solenoid, 2 sections with an air actuator (arms and forks)
- Packer control: Automatic cycle of the compactor four-way joystick (arms and forks). Electric for roof and tailgate
- Hydraulic tank capacity: 60 US gal. (230 litres)
- In-tank return filter with dirt indicator. Magnetic plug. Level indicator



## DIMENSIONS

	IMPERIAL 40 cu. yd.	METRIC 31 m <sup>3</sup>
A O.A. length, forks up (travel position)	290"	7366 mm
B O.A. length, forks down	437"	11 099 mm
C O.A. height above frame, forks travel position	117"	2972 mm
D O.A. width*	96"	2438 mm
E Tailgate length	36"	914 mm
F Packer travel	110"	2794 mm
G Packer height	83"	2108 mm
H Packer width*	80"	2032 mm
I Hopper opening length*	93"	2362 mm
J Hopper opening width*	80"	2032 mm
K O.A. length, tailgate raised, travel position	323"	8204 mm
L O.A. length, tailgate raised, forks down	471"	11 963 mm
M Hopper access door: height	37"	940 mm
N Hopper access door: width	26"	660 mm
O O.A. height above frame, tailgate raised, forks travel position	191"	4851 mm
P Eject panel travel	201 3/8"	5115 mm

\* Not shown on drawing

## PRODUCTIVITY DATA

- Arms lifting capacity: 8,000 lb. (3625 kg) (see options)
- Packer cylinders force: 107,000 lb. (482 KN) at 2,250 rpm
- Top door opening: 10 sec. at 1,500 rpm
- Eject-panel cycle time: 31 sec. at 1,500 rpm
- Packer cycle time: 23 sec. at 1,500 rpm
- Lifting arms cycle time: 12 sec. at 1,500 rpm
- Fork cycle time: 5 sec. at 1,500 rpm
- Body tare weight 40 cu. yd. (31 m<sup>3</sup>): 16,000 lb. (7255 kg)

## CHASSIS REQUIREMENTS\*

Body capacities	C.C.A.	W.B.	A.F.	Chassis suitability
40 cu. yd. (31 m <sup>3</sup> ) and 42 cu. yd. (32 m <sup>3</sup> )	186" 4724 mm	260 to 210" 5080 mm to 5334 mm	40" 1016 mm	Tandem axle equal to or more than 60,000 lb. (27 180 kg)

\* On cab over chassis.

### Cylinders

- Packer: (2) telescopic cylinders, 170" (4318 mm) stroke, three stages: 3", 4", 5" (76 mm, 101 mm, 127 mm)
- Top hopper door: (1) double-acting cylinder, bore 2.5" x 91.5" (63.5 mm x 2324 mm) stroke and rod 1.5" (38 mm)
- Forks: (2) double-acting cylinders, bore 4" x 20" (102 mm x 508 mm) stroke and rod 2" (51 mm) (push type activation of forks)
- Lift arms: (2) double-acting cylinders, bore 4.5" x 43" (114 mm x 1092 mm), rod 2.5" (63.5 mm)
- Tailgate: (2) double-acting cylinders, bore 2.5" x 39" (63.5 mm x 991 mm) stroke, rod 1.5" (38 mm)

### Paint

- Body steel gritblasted
- One coat of prime quality urethane primer (Dupont)
- Fog coat and finishing coat in one color of polyurethane paint

## STANDARD FEATURES

### Lights

- "TRUCK-LITE" watertight recessed stop, clearance and tail lights, recessed in ICC bumper

### Hoses

- Double and quadruple tracked wire hoses covered with nylon wrap

### Packer blade

- Type: full-eject type Full height with dual double-acting telescopic cylinders criss-cross configuration
- Upper face plate: 3/16" (4.8 mm), A-514, high-tensile steel, yield strength 100,000 psi (690 MPa)
- Bottom face plate: 1/4" (6.4 mm), A-514, high-tensile steel, yield strength 100,000 psi (690 MPa)
- Packer wear shoes: AR 425, abrasion resistant
- Blocks for cylinder pin attachment, split type, bolted for easy service and maintenance

### Top hopper door

- Opening: horizontal
- Type: sliding, 14 ga. (1.9 mm)
- Hopper opening: 93" long x 80" wide (2362 mm x 2032 mm)

### Forks

- Construction: A-514, high-tensile steel, yield strength 100,000 psi (690 MPa)
- Dimensions: 1" (25 mm) thick, inside width 73" (1854 mm), 48" (1219 mm) length

### Lift arms

- Cushion: end of stroke, loading position, piston or rod
- Construction: A-514, high-tensile steel, yield strength 100,000 psi (690 MPa)
- Capacity: 8,000 lb. (3625 kg) (see options)

### Tailgate

- Type: curved bubble tailgate, 10 gauge (3.4 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
- Opening: top hinged
- Anti-leak rubber seal at bottom and 30" (762 mm) on each side
- Locks: two automatic tailgate latches. One on each side. Two hooks at bottom
- Capacity: 4 cu. yd. (3.06 m<sup>3</sup>) std.

### Warning light and buzzer

- On console when tailgate is open
- Warning light: on dashboard to indicate when the door is opened

### Safety interlock system

- No arm movement if the top door is not completely opened
- Eject system will work only if the rear door is opened and the operator holds console button
- The pump will disengage when clean-out door is opened

### Mud-flaps

Front and rear

### Ladder

R.H. side with non-skid steps

### Warranty

3-year warranty on cylinders

## OPTIONS

- Lift arms capacity: 10,000 lb. (4535 kg)
- Clean-out door
- Front of body plastic tarp

Labrie reserves the right to modify construction and/or design details and furnish equipment when so altered without reference to illustrations and/or specifications shown herein. All specifications subject to change without notice.



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