

Appendix 7-10 Additional Vehicle and Cart Information

Service Group 1 - January 9, 2013

McNeilus

Street Smart. Street Tough.

MANUAL/AUTOMATED SIDE LOADER

The Manual/Automated Side Loader truck has the most innovative loading mechanism of any refuse truck on the market. It boasts the flexibility to pick up manual, semi-automated, or fully automated routes. It functions as an automated trainer and can be used as a route cleanup truck for any rear, side, or automated units. With smooth operation and one-button pickup, this truck handles cans of almost any size.



MANUAL/AUTOMATED SIDE LOADER

McNeilus
Street Smart. Street Tough.

BODY SPECIFICATIONS

- Floor: 10-gauge AR200
- Roof: 11-gauge AR200
- Side Walls: 11-gauge AR200

TAILGATE

- Tailgate Side and Rear Walls: 1/8" AR450

HOPPER

- Hopper Floor: 3/16" GRD 50
- Wear Area: 1/4" AR Hardox 400
- Hopper Assist Panel: 3/16" AR200

PACKER

- Packing Face: 1/4" AR200
- Wear Strips: X-Wear and AR400
- Follower Panel: 3/16" AR200

ARM

- Grabber Ground Clearance: 10"
- Arm Reach: 8'

CHASSIS REQUIREMENTS*

- GAWR: 18,000 lb Min front, 40,000 lb Min rear
- After Frame 60" min

*Guidelines only. Contact McNeilus for specific chassis requirements before ordering.

HYDRAULICS

- Pump Make/Model: Parker P350 tandem pump with HOC and Pack-on-the-go flow control system
- Control Valves: Parker VA35
- Packer Valve: VA35 x 2 work sections — pneumatic operating with pre-coalescing filter
- Arm Valve: Parker P70 x 5 work sections — electric proportional coils
- Oil Reservoir: 50 gallons
- Filter: 1 Parker 100 mesh suction filter
- Parker 16 micron medium-pressure return line
- Pack at idle capacity

CYLINDERS

- Packer: 4" bore x 3" rod x 39-1/2" stroke
- Arm In/Out: 2" bore x 1-1/4" rod x 67" stroke
- Grabber: 2" bore x 1" rod x 6-1/4" stroke
- Tailgate: 2-1/2" bore x 1-1/2" rod x 38" stroke
- Body Lift (telescoping): 6-1/2" bore x 3-1/2" rod (3rd stage) x 170" stroke
- Hopper Assist: 3" bore x 2" rod x 14" stroke

HARDWARE

- Weather Pak and Deutsch connectors
- Aeroquip hoses and fittings
- Hydra-Zorb™ and Stauff clamps
- Zinc-dichromate coated hydraulic lines

PERFORMANCE

- 8 – 18 second dump cycle depending on reach requirement

CONTAINER CAPACITY*

- 30 – 100 gal

*Cycle times vary depending on oil temperature, engine idle setting, equipment wear, etc.

PAINTING

- Packer steel shot-blasted prior to priming with Akzo Coating's high-solids epoxy primer and acrylic urethane

OTHER OPTIONS AVAILABLE

- Hopper work lights
- Strobe light
- Camera-assist lights
- Peterson smart lights
- Clear coat
- Fire extinguisher/bracket
- Auxiliary axles (call for application)
- Camera systems — single, dual, and triple
- Mud flaps — front and/or rear
- Decals (call for pricing)
- Plastic shovel
- Toolbox
- Paint colors



RetrieverTM Satellite

Compact Manual Side Loader



RetrieverTM Satellite

Bigger isn't always better.

For parks and recreation areas, airports, tight alleys, gated communities, zoos, beaches, and other routes where a full-size refuse collection vehicle just won't fit, the Heil RetrieverTM Satellite side loader gets the job done.

Available in 6 and 10 cubic yard models, the Retriever's small size and exceptional maneuverability lets it move in and out of tricky areas quickly. The smaller chassis means it is exempt from Federal Excise Tax (FET), providing non-municipal customers the equivalent of a 12 percent savings.

The Retriever is also easy to operate, with no Commercial Driver's License (CDL) required. This makes it a great choice for collecting missed stops, operation by park personnel, and managing pickups on beach properties where a CDL operator may not be available. It is also versatile to use as a fleet back-up vehicle.

The Retriever's unique double-packing system delivers compaction rates up to 700 pounds per cubic yard with a cycle time of just 14 to 16 seconds. And, once the body is full, there's no need to travel all the way to the disposal site. Simply unload the payload into a full-sized rear loader using the Retriever's optional patented transfer system.

The Retriever's curved body shell resists corrosion and makes decal application easy, while keeping it looking great longer than other designs. The floor is made of high-tensile steel to stand up against the toughest trash. The roof is designed with an arch so water rolls right off, eliminating potential rust areas to provide longer life.

To learn more about the Retriever's innovative features, contact your Authorized Heil Dealer. To find the Dealer nearest you, visit www.heil.com.





Shown with transfer payload option.

Small Package, Big Features

Big features make the durable, low-maintenance, and operator-friendly Retriever an ideal solution for small spaces:

- **Extra Packing Power** — The unique double-packing system delivers compaction rates up to 700 pounds per cubic yard with a cycle time of just 14 to 16 seconds.
- **Collect from Either Side** — Dual hopper doors enable efficient loading from either side, so operators can collect from both sides of the truck in traffic-free areas such as alleys and parks.
- **Transfer Payload** — A patented transfer system enables you to simply transfer your payload from the Retriever to a full-size rear loader.
- **Flexible Solutions** — Cart tippers can be added to one or both hopper openings for semi-automated collection. New electric push-button controls on the sides and rear of the body are accessible and easy to use. Emergency stop buttons are also located at all three locations.
- **Self-Closing Tailgate** — The seal on the self-closing tailgate has been designed to virtually eliminate leakage, so the only trail the Retriever leaves behind is a string of empty refuse containers.

Dual Push Button Controls

Three sets of dual electric auto-pack pushbutton controls, conveniently located on both sides at the front of body and on the rear left side, are accessible, durable, and easy to use. Emergency stop buttons are also located at all three locations.

Service Smart™ Access

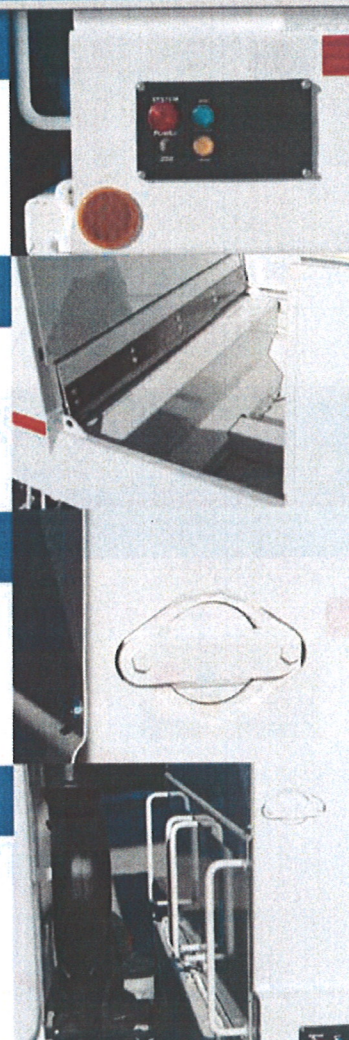
The Retriever's hydraulic and electrical systems are easy to reach. Dual Service Smart™ front-head access covers make it easy to access and install ram cylinders, while remote grease fittings enable convenient pin lubrication.

2-7/8" Diameter Rollers

2-7/8" diameter rollers provide an increased wear surface and are housed in the track to prevent body side wear.

Steel Access Covers

Two Service Smart™ steel access covers with grab handles enable cleaning through the front head.





Retriever™ Satellite

Compact Manual Side Loader Product Specifications

Performance Specifications	
Compaction	up to 700 lbs. per yd ³
Hopper Size	0.75 yd ³
Packing Cycle Time	14-16 seconds
FEL Exempt	Yes
Operator CDL Exempt	Yes
Transfers Load into Full Size Rear Loader*	Yes
Self-Closing Tailgate	Yes
*optional	

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 Statement for this product at the time of shipment.

Chassis Requirements		6 yd ³	10 yd ³
Minimum GVWR		16,000	19,500
Minimum GAWR	Conventional	front 5,000	6,000
		rear 11,000	13,500
	Cab-Over-Engine	front 5,000	6,000
		rear 11,000	13,500
Wheelbase (approximate)	Conventional	140-154	162-176
	Cab-Over-Engine	104-116	126-138
Usable CA		81-87	103-109
Minimum Platform		124	146

- * Specify chassis, engine and transmission in accordance with Heil chassis requirements upon entering order
- * Any chassis requiring special alterations, moving battery boxes, air tanks, etc., will not be modified until a letter authorizing changes and cost is received by Heil Environmental

Hydraulic Specifications	
PUMP	Direct mount gear pump
GPM	12-14 GPM @ 1,000 RPM
OIL RESERVOIR	
Hydraulic Tank Capacity	12 gallons
Filters	10 micron absolute, with suction strainer

Cylinder Specifications		6 yd ³	10 yd ³
Body Cylinders	Type	Bore x Rod x Stroke (Inches)	
Packing	(2) Double acting	3 x 1.75 x 34	3 x 1.75 x 34
Ejecting	(1) Double acting	2.5 x 1.5 x 36	2.5 x 1.5 x 64
Tailgate	(2) Double acting	2 x 1.25 x 36	2 x 1.25 x 48
Lift	(2) Double acting	3.5 x 1.5 x 20	3.5 x 1.5 x 20

Hopper Specifications	6 yd ³	10 yd ³
Hopper Opening Length (at loading sill)	32 in.	32 in.
Hopper Width (inside)	64 in.	64 in.
Hopper Doors	Std.	Std.

Packing Specifications	6 yd ³	10 yd ³
Packing Force at Rear of Hopper	28,700 lbs.	28,700 lbs.
Packing Cycle Time	14-16 seconds	14-16 seconds
Packer Displacement Volume	0.75 yd ³	0.75 yd ³
Packing System Relief Pressure	2,400	2,400
Packing Cycle Control	Automatic Cycle Interruptible	Automatic Cycle Interruptible
Mounted Weight (body only)	5,400 lbs.	6,400 lbs.

Body Specifications		6 yd ³	10 yd ³
Body Volume (excluding hopper)		6 yd ³	10 yd ³
Hopper Volume (with hopper doors closed)		2 yd ³	2 yd ³
Unit Height (tailgate closed)*		75 in.	93 in.
Unit Height (tailgate open)*		107 in.	137 in.
Maximum Height (body raised)*		132 in.	162 in.
Loading Height (above chassis frame)		20 in.	20 in.
Unit Length		137 in.	159 in.
Unit Width		82.75 in.	82.75 in.

* Does not include chassis frame height



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CONTACT YOUR LOCAL DEALER

McNeilus
Street Smart. Street Tough.

STANDARD REAR LOADER

This is the boss. The standard of the industry. Our standard rear loader trucks have a history of reliable performance boosted by their low need for maintenance. An extremely fast packing cycle — just 16 seconds — helps you send productivity scores off the charts. Put them to work on residential and light commercial routes.



STANDARD REAR LOADER

McNeilus
Street Smart. Street Tough.

BODY SPECIFICATIONS

- Floor: 3/16" AR200
- Roof: 10-gauge AR200
- Side Walls, Front Section (ejector area): 10-gauge AR200
- Side Walls, Rear Section (compaction area): 1/8" AR450

TAILGATE AND HOPPER

- Hopper Floor: 1/4" AR200
- Quick-change UHMW polyethylene slide shoes

PACKER

- Slide Face Plate: 3/16" GRD 50
- Sweep Face Plate: 1/4" AR200
- Packer Edge Strip: 3/4" GRD 50

HYDRAULICS

- Pump Make/Model (single or dual pump): Parker with Pack-on-the-go flow control system
- Front Mount: P350 or P75
- Transmission Mount: P365
- Control Valves: Primary; Parker VA35 with Smart-Pak[®]
- Oil Reservoir: 17 – 20 yard: 40 gallons, 25 – 32 yard: 50 gallons
- Filter: Parker 40 CN, 100 mesh suction strainer

CYLINDERS

- Ejector: 6-1/4" bore x 5-3/4" rod x 88-3/4" stroke (20 yard, 3 stage), 7-1/2" bore x 7" rod x 119-1/2" stroke (25 yard, 4 stage)
- Slide: 4-1/2" bore x 3-1/2" rod x 32-1/2" stroke
- Sweep: 4" bore x 3" rod
- Tailgate: 2-7/8" bore x 2-1/2" rod x 38" stroke

PERFORMANCE

- Pack and Sweep Cycle: 16 – 18 seconds
- Compaction: 800 – 900 pounds per yard (depending on refuse density)

HARDWARE

- Weather Pak and Deutsch connectors
- Aeroquip hoses and fittings
- Hydra-Zorb[™] and Stauff clamps
- Zinc-dichromate coated hydraulic lines

PAINTING

- Packer steel shot-blasted prior to priming with Akzo Coating's high-solids epoxy primer and acrylic urethane

OTHER OPTIONS AVAILABLE

- Hopper work lights
- Strobe light
- Camera-assist lights
- Peterson smart lights
- Clear coat
- Fire extinguisher/bracket
- Auxiliary axles (call for application)
- Camera systems — single, dual, and triple
- Mud flaps — front and/or rear
- Decals (call for pricing)
- Plastic shovel
- Toolbox
- Paint colors
- Reeving cylinder
- Cart tipper
- Container tipper (kick bar)
- Broom and shovel holder

Environmental

**Rehrig Pacific
Company**
Since 1913

Proven to withstand the rigors of today's collection systems, Rehrig Pacific's **HuskyLite Roll-out Carts** are setting new industry standards for durability and efficiency. Available in 18 gallon through 95 gallon models, for nearly any curbside application, these carts roll easily even with heavy loads. The continuous one-piece handle provides a strong gripping area and the wide wheelbase makes maneuvering easy.

HuskyLite carts are flexible, yet hold their shape even after years of service. A reinforced top lip adds strength and rigidity as do the double drag rail and reinforced bottom. The specially designed wide ground-hugging base helps keep these carts upright and stable.

Options for the Roll-out Carts include internal and external locking lids, which can be made with slots for collecting confidential documents or cutouts for recyclable beverage containers. Wheel options include blow-molded wheels or quiet treaded snap-on wheels that install in seconds.

Roll-out Carts are shipped with lids already attached, saving additional assembly time.

Rehrig Pacific Roll-out Carts



ROC-65NB

ROC-35MB

ROC-18/20



ROC-95NB

ROC-95U

ROC-95FA





Roll-Out Carts

Features and Options

- For Semi-Automated or Automated Collection of Household Refuse, Recyclables and Organic Wastes
- Universal Cart Models Available in All Sizes; Fully-Automated ROC-95FA Cart also Available
- Constructed of High Quality, Resilient UV-Stabilized HDPE Resin. Available in a Wide Range of Colors.
- Rotating Metal or Molded-In Catch Bars
- Hot-Stamp Branding of Logos and Recycling Slogans; Bar Coding, Sequential Numbering and Multi-Color In-Mold Labeling Options
- RFID Integration Available for Use in Asset and Participation Tracking Programs
- Divider Option for Two-Stream Collection
- Optional European Lip
- Lid Cutouts for Recyclables Available
- Lid Opening Options Include 90° or 110° Stops
- Blow Molded or Quiet Tread Wheels Available in Cotter Pin, End Cap or Snap-on Styles
- Optional Features for Confidential Document Destruction Carts:
 - Lids with Internal Key Lock or External Tongue Plate and Padlock
 - Slotted Openings with Anti-Fish Option
- See Organic Waste Container Specification Sheet for Additional Features and Options

Rehrig Pacific Roll-out Carts Product Information

Dimensions ¹ (in.)	ROC- 18/20	ROC-35 ³	ROC-65	ROC-95
Height w/Lid	32.60	39.13	40.58	45.13
Width	19.80	20.20	26.70	28.50
Depth	18.00	22.98	28.11	33.73
ANSI Load Rating ² (lb.)	70.00	122.50	227.50	332.50

Truckload Quantities:	ROC-18	ROC-20	ROC-35	ROC-65	ROC-95
Stack Size	7 high	Inquire	9 high	9 high	8/9 high
48' Trailer	770	Inquire	864	504	384/432
53' Trailer	875	Inquire	1,080	648	432/486

¹ Dimensions vary depending on wheel and lid options

² ANSI Z245.30 - 2008

³ 20 gallon insert available



ROC-18 Carts Stacked



European Lip



Branded ID Num and Bar Code



Gravity Lock



Internal Lock with Key



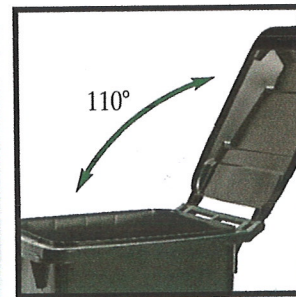
External Lock (padlock not included)



Multi-Color In-Mold Label (I.M.L.)



Optional Openings for Recyclables



Optional 90° or 110° Lid Stops

A FAMILY TRADITION OF GROWTH, SERVICE AND INNOVATION

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www.rehrigpacific.com • info@rehrigpacific.com



RELY ON REHRIG

Recycling & Waste Collection

All-Plastic, Front Load Commercial Containers

Innovative Plastic Design Provides Greater Durability and Quiet Operation

Available in several sizes, our innovative design embodies true strength, durability and quiet operation.

Rehrig Pacific has once again used its experience and know-how to produce a new range of rotationally molded containers that stand-up to the use and abuse of commercial collection. Designed for quiet pick-up and disposal, these neighbor-friendly, plastic containers allow drop-off and collection in noise-sensitive areas and at times often prohibited for metal containers.



Corporate Headquarters:

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Orlando, FL (800) 998-2525

International:

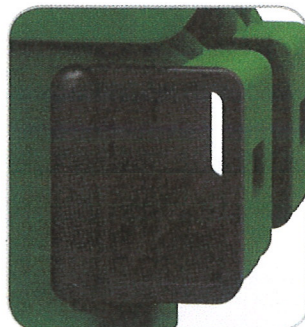
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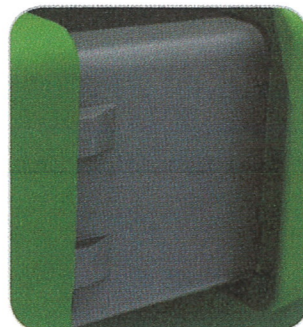
Web: rehrigpacific.com



Large logo area



Pocket sleeve with bumper



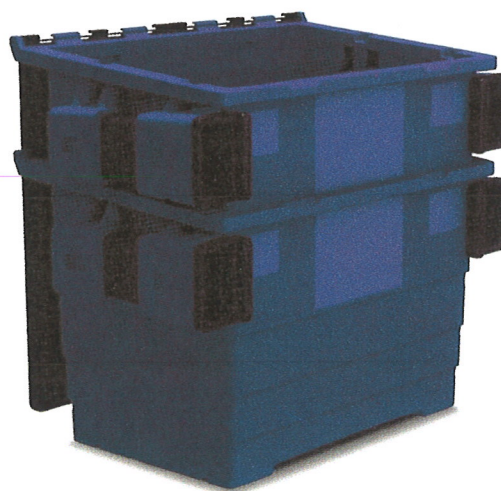
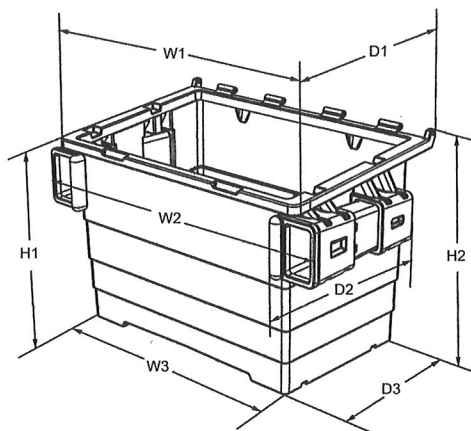
Robust pocket sleeve locks

Rehrig Pacific Company
SINCE 1913

A FAMILY TRADITION OF GROWTH, SERVICE AND INNOVATION

**Features & Benefits**

- Lightweight – 1/3 less weight than comparable metal containers makes maneuvering easy with less effort and noise
- Replaceable pocket sleeves provide added side wall thickness and protection against puncturing by fork tines
- Sleeve bumpers provide added protection for front panels and against repeated impacts
- Heavily reinforced top rim adds strength where it's needed most
- Molded beams provide support and stepped sidewalls provide stiffness to avoid bottom sagging and bowing
- Molded-in caster rings speed caster plate installation without bolts perforating the container



	2 Yard	3 Yard	4 Yard
W1	75.50"	75.50"	75.5"
W2	83.50"	83.50"	83.50"
W3	62.00"	63.00"	63.50"
D1	43.00"	49.00"	59.00"
D2	36.00"	36.00"	43.50"
D3	32.50"	39.00"	48.00"
H1	42.50"	47.00"	46.50"
H2	47.50"	53.00"	60.00"
Ht. with Lid	48.50"	54.00"	61.00"
Caster Height	7.00"	7.00"	7.00"
Assembled Weight	225 lb.	245 lb.	295 lb.
Load Rating	1,500 lb.	2,000 lb.	3,000 lb.
Stack Size	3 high	3 high	2 high
53' Truckload Qty.	42	36	20

Durable & Sustainable

- High-impact, UV stabilized, 100% recyclable polyethylene (PE) resin won't deteriorate like metal in damp conditions
- Dent resistant and repairable, PE resin cleans easily so graffiti can be wiped off using ordinary cleaners
- Fiberglass hinge rods are substantially supported over their full length providing longer life and smooth operation
- Selection of standard colors that won't fade and never need painting

Vertically aligned,
nested 3 Yard containers

Added Features

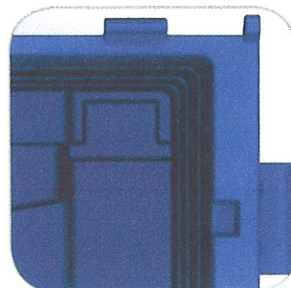
- Smooth areas on front for branding graphics or fixing labels
- Recessed lid-grip areas on top rim
- Self-centering nesting stops
- Rugged, double-wall, crowned lids
- Choice of fixed or swivel casters
- 6" heavy-duty polyolefin wheels

Options

- Drain plugs
- Lock bar, with or without gravity lock
- Lockable casters
- Easy mounting bottom skids
- Custom colors
- In-mold labels for logos and slogans



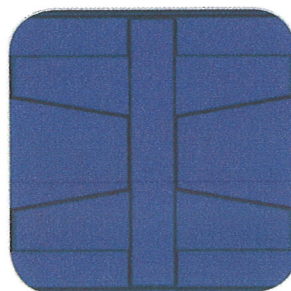
Recessed lid-grip areas



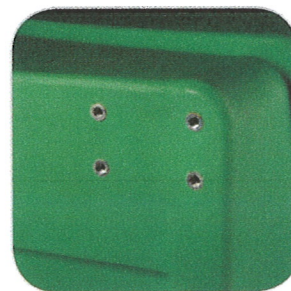
Stepped sidewalls



One bolt, quick-change casters



Molded beams in bottom



Molded-in caster rings



Optional drain plug



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