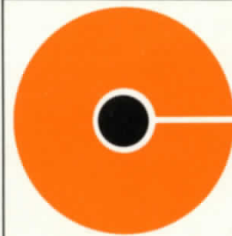


# **MORE PACKING POWER**

## **NEW DEMPSTER DUMPMASTER HD SERIES**



Copyright © Carrier Corporation 1975



Division of  
Carrier Corporation

**Dempster  
Dumpster  
Systems**

# Superior Design For More Dependability And Lower Operating Costs

**More Lifting Capacity . . .**  
**More Packing Pressure . . .**  
**Better Load Distribution . . .**

The Dempster Dumpmaster, HD Series, has been designed with many high performance improvements to reduce maintenance and operating costs. Packing force has been substantially increased to achieve maximum payloads and to reduce trips to the landfill. More lifting power is available — up to 8,000 pound arm capacity for lifting heavy, self-packing containers with a minimum of strain and wear on equipment. These and many other improvements are available on all HD Series Dumpmasters. Upgrade to Dempster for more dependability.



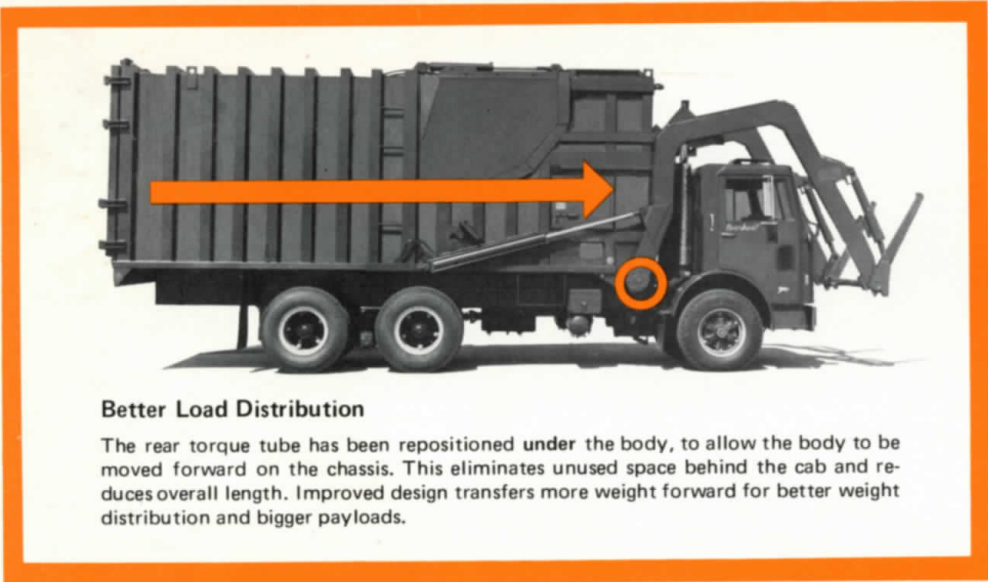
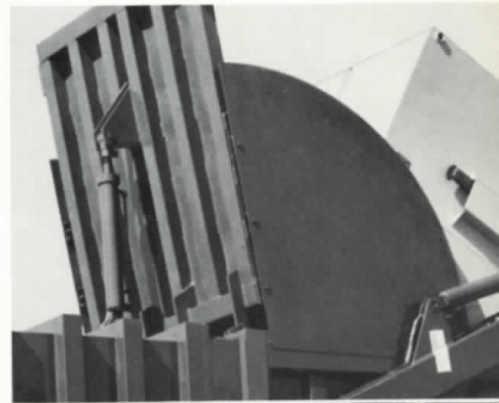
Look for these superior features:



*Sloped Packer Plate For High Profile Compaction*

## Increased Hopper Clearance — Heavier Side Shields

The hopper door opening angle has been increased for dumping a variety of larger packer containers. 1/4" side shields assure greater durability and reduce wear.

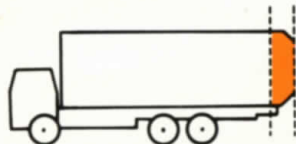


## Better Load Distribution

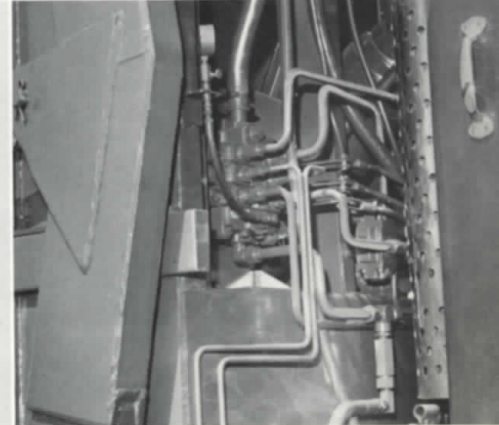
The rear torque tube has been repositioned under the body, to allow the body to be moved forward on the chassis. This eliminates unused space behind the cab and reduces overall length. Improved design transfers more weight forward for better weight distribution and bigger payloads.

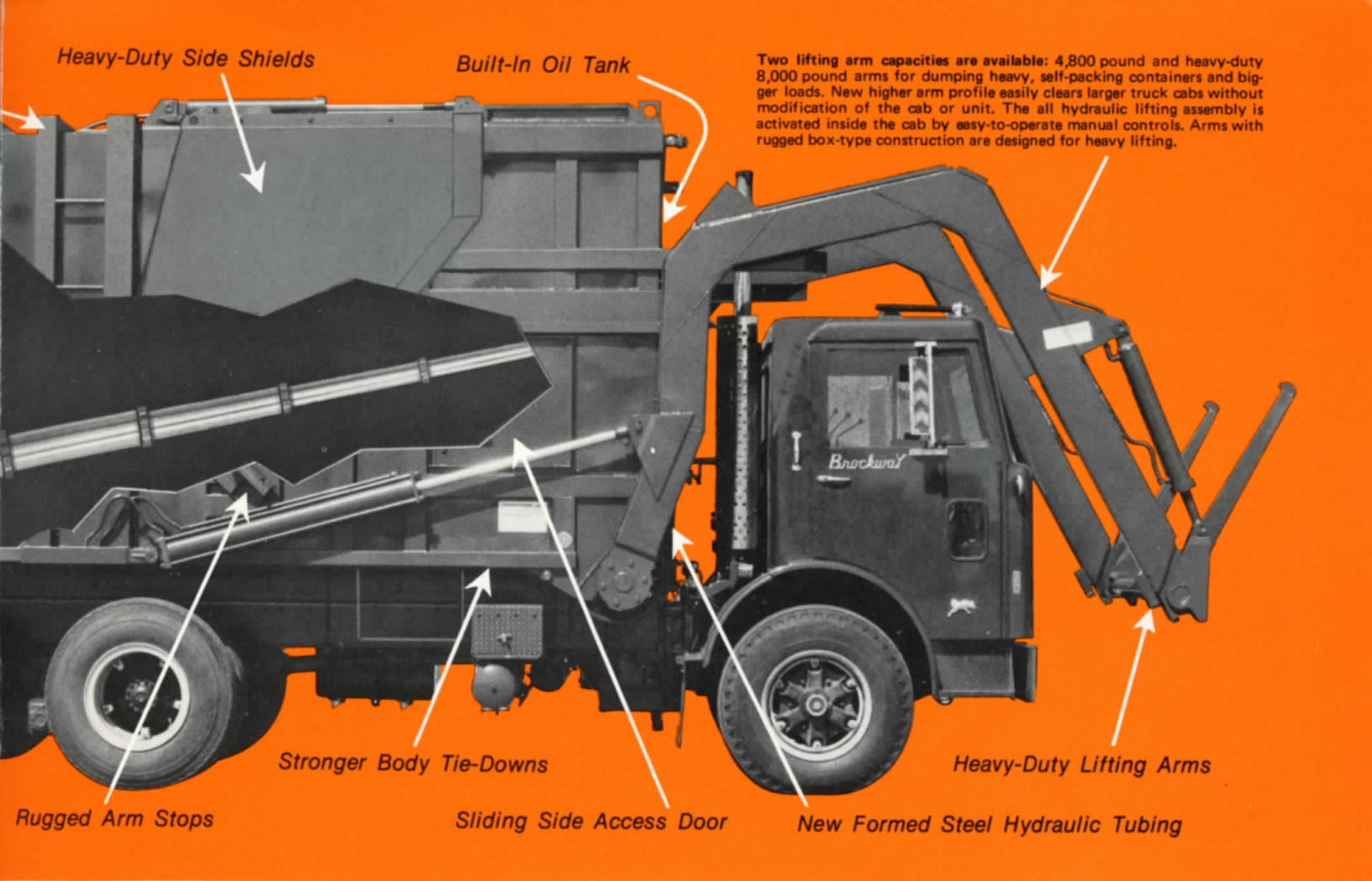
## Optional Stor-Dor Tailgate Available on ALL Body Models

The special design of the optional Stor-Dor Tailgate increases material compaction throughout the body and creates a bonus storage capacity of up to 3.5 cubic yards. As the sloped packer head directs material against the inside curved surface of the tailgate, refuse is rolled upward, forced high up into the body, and tightly packed. The result is more compaction and bigger payloads.



BONUS STORAGE CAPACITY





Two lifting arm capacities are available: 4,800 pound and heavy-duty 8,000 pound arms for dumping heavy, self-packing containers and bigger loads. New higher arm profile easily clears larger truck cabs without modification of the cab or unit. The all hydraulic lifting assembly is activated inside the cab by easy-to-operate manual controls. Arms with rugged box-type construction are designed for heavy lifting.

*Heavy-Duty Side Shields*

*Built-In Oil Tank*

*Stronger Body Tie-Downs*

*Heavy-Duty Lifting Arms*

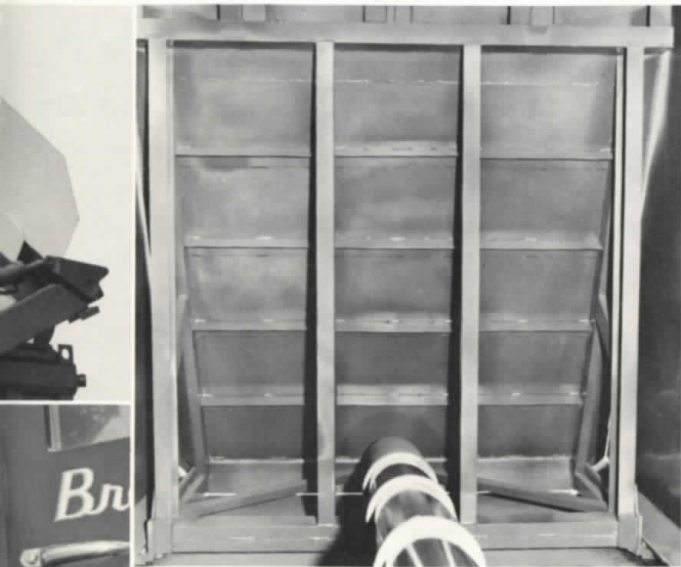
*Rugged Arm Stops*

*Sliding Side Access Door*

*New Formed Steel Hydraulic Tubing*

**Welds**

to provide more  
ainers. Heavier  
d maintenance.



**Reinforced Packer Head**

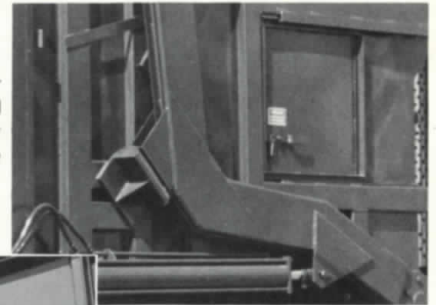
The high tensile steel packer head is reinforced with rigid brace members to withstand high packing force. The low cylinder angle directs a more effective packing force against the load for greater compaction ratios.

**Steel Tubing for More Dependability**

New formed steel hydraulic tubing replaces hoses on front of the body. Tubing decreases frequency of leaks, reduces pressure drop and lowers maintenance costs.

**Strong Arm Stop Cushions**

Heavy-duty, side-mounted rubber stops prevent arm over-travel and cushion shock loads when heavy containers are dumped into the hopper.

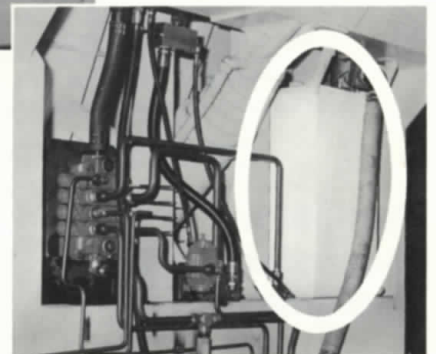


**Sliding Access Side Door**

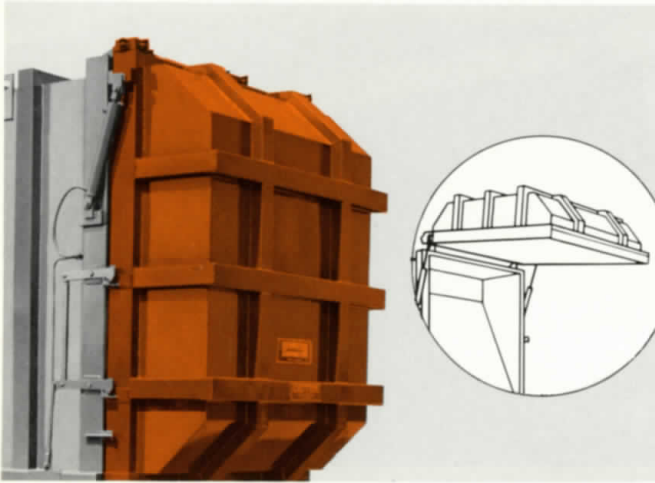
An easy-to-open and close sliding access door eliminates accidental door damage when loader arm assembly is raised or lowered.

**Protected Oil Tank**

The 65 gallon hydraulic oil tank has been relocated inside the front of the body for more protection and to allow the tank to be easily filled. Built-in design also provides more clearance for air cleaner intake and exhaust.



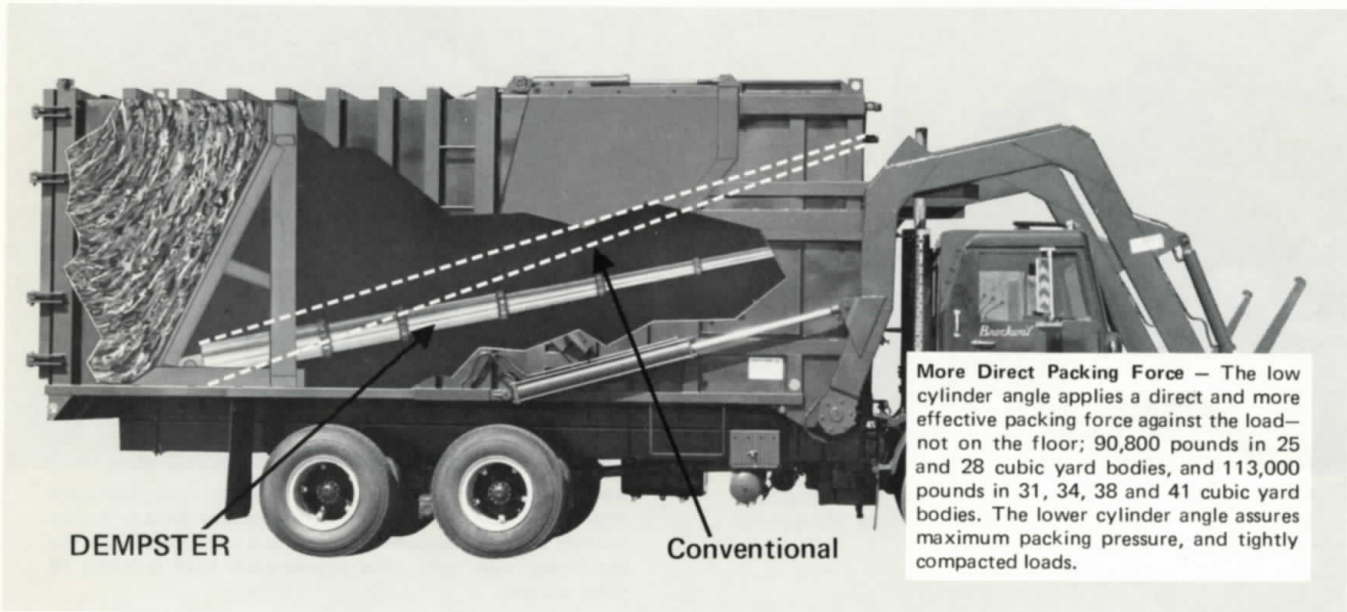
# HIGH QUALITY FEATURES



**Reinforced Stor-Dor Tailgate** is heavily reinforced with high tensile steel channels to withstand high internal packing pressure. The Stor-Dor tailgate is top-hinged with manual rear door latch. Door is opened quickly by two side-mounted, single acting cylinders.



**Hat Section Floor Reinforcing** with closely spaced high tensile steel cross-members provides maximum floor section support to prevent "washboarding" or buckling.



**More Direct Packing Force** — The low cylinder angle applies a direct and more effective packing force against the load—not on the floor; 90,800 pounds in 25 and 28 cubic yard bodies, and 113,000 pounds in 31, 34, 38 and 41 cubic yard bodies. The lower cylinder angle assures maximum packing pressure, and tightly compacted loads.

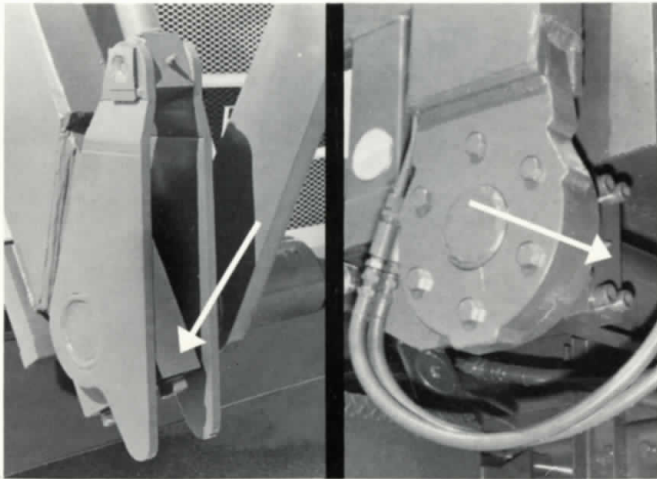


**Safe Clearance Arms** clear the cab door during any stage of dumping operation to allow the driver to safely enter and exit the cab at any time.

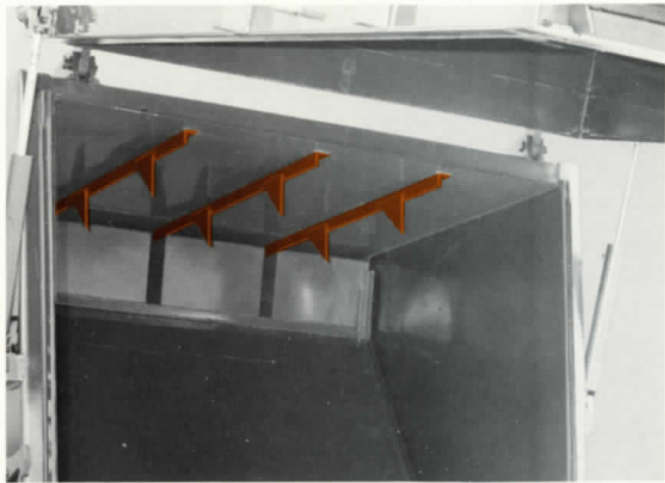


**Bolt-On Sub-Assemblies** of the loader arms are bolted directly to the compaction body. Burning and welding are not necessary for parts replacement.

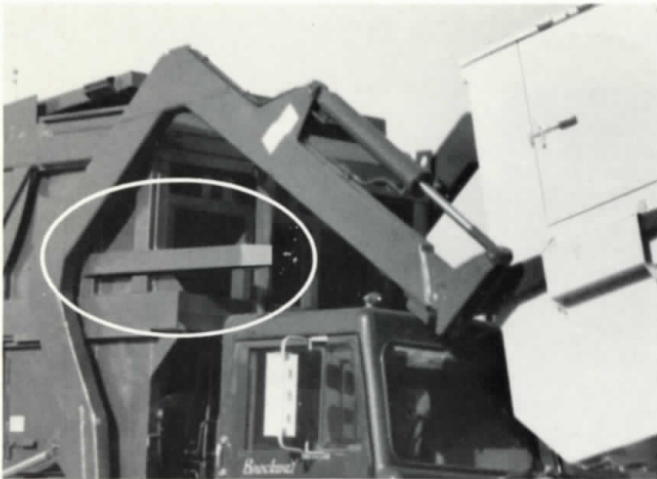
# HIGH QUALITY FEATURES



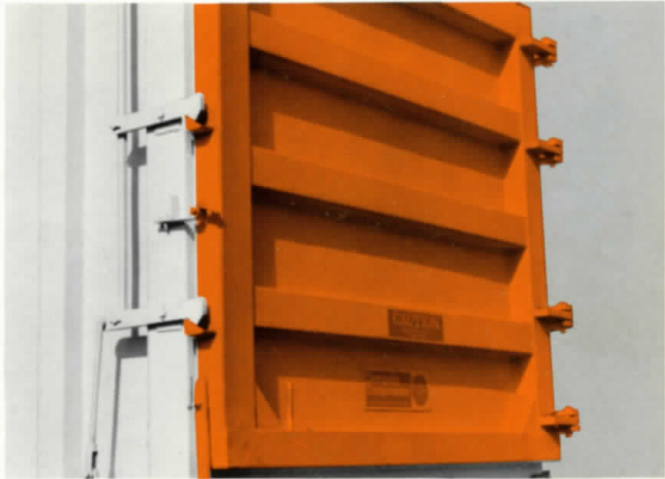
**Replaceable Bushings** on lifting arm assembly and front torque tube eliminate costly parts replacement and downtime.



**Material Retainer Teeth** mounted on the inside of the body roof, hold compacted refuse tightly in place and minimize material fallback into the loading area when the packer head is retracted.



**Firm Lateral Arm Supports**, consisting of rigid guides attached to the body, assure strong lateral support of the lifting arms during the entire lifting cycle.



**Reinforced Side-Hinged Tailgate** is heavily reinforced with high tensile steel channels. Four wedge-type latches on the bottom and three side latches provide a positive lock for the side-hinged rear door. One easy-to-open lever operates all seven latches.



**High Tensile Steel Body** and tailgate is strong enough to withstand tremendous internal packing pressure. Rigid reinforcing on the side, top, and tailgate prevent distortion and bowing.



**Heavy-Duty Rear Door Seal** located around the inside perimeter of the tailgate, serves as an effective liquid seal. Improved gasket design with deep flanges assure more durability and longer life for retaining liquids inside the body.

Self Clean  
low-friction  
material b  
and bindi  
toward th  
channels.

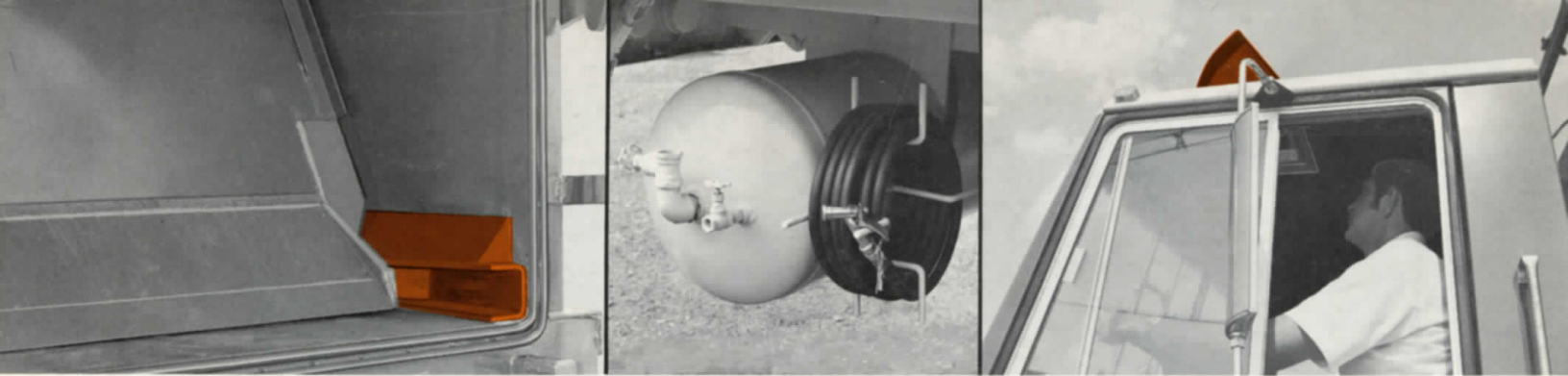
E  
F  
i  
S  
h  
T  
b  
F  
h  
C  
g  
g  
Y  
P  
s  
P  
p  
P  
c  
W

- Mo  
Nun
- DP48-2
  - DP48-2
  - DP48-3
  - DP48-3
  - DP48-4
  - DP48-4
  - DP80-2
  - DP80-2
  - DP80-3
  - DP80-3
  - DP80-4
  - DP80-4

†  
††

**De  
Du  
Sy**

Divis  
Home



**Self Cleaning Guide Channels**, made from a special low-friction, wear resistant compound, eliminate material build-up in channels and prevent jamming and binding of packer blade. Guides push material toward the center of the body instead of along the channels.

**An Optional Wash-Out Tank** holding water or a liquid deodorant compound is mounted under the rear of the HD body and connected to the truck chassis air supply system. The pressurized wash-out system permits quick and convenient cleaning of containers.

**An Optional Cab-O-Scope** in the ceiling of the cab, allows the operator to see the containers during all stages of the dumping operation. The Cab-O-Scope can be easily installed in the field or mounted at the factory.

## HD DUMPMASTER CONDENSED SPECIFICATIONS

### BODY CONSTRUCTION

**Floor:** 7-gauge high-tensile steel reinforced by hat section cross-members, 4 inches maximum span between members.

**Side Walls:** 12-gauge high-tensile steel side walls reinforced by 10-gauge high-tensile vertical box braces continuous seam welded to sides.

**Top:** 12-gauge high-tensile steel reinforced by 12-gauge high-tensile box bracing for maximum strength.

**Rear Door:** 10-gauge high-tensile steel reinforced with 3/16" and 10-gauge high-tensile box bracing.

**Optional Stor-Dor Tailgate:** 10-gauge high-tensile steel face sheet and 12-gauge high-tensile steel side sheet, framed and strongly reinforced by 10-gauge and 7-gauge steel channels; contoured to provide up to 3.5 cubic yards of storage area.

**Packer Head:** 10-gauge high-tensile steel face sheet heavily reinforced by structural members.

**Packer Head Slide:** Low-friction, wear resistant, ultra high molecular weight polymer.

**Packer Head Guide Channels:** Rugged 3/8" high-tensile steel formed guide channels; floor mounted, adjacent to body side walls for superior strength.

**Welding:** Floor, side walls, and top sheets continuous seam welded.

### LIFTING ARMS

**Capacity:** Two lifting arm capacities available; DP-48 – 4,800 pound gross load. DP-80 – 8,000 pound gross load. (Both DP-48 and DP-80 are rated at the center of an 8 cubic yard standard container at ground level.)

**Arm Construction:** One-piece, box type steel construction, contoured for cab door clearance at all times.

**Dumping Forks:** High-tensile steel plate rigidly welded to a 4" tubular cross member mounted in replaceable bushings.

**Tubular Arm Pivot Shaft:** 4 1/2" in diameter, extends full width of compaction body and is mounted in replaceable bushings, attached to the lower portion of the body.

**Arm Stops:** Reinforced, rubber, bolt-on stops located on both sides of body, cushion shock loads and prevent arm over-travel.

**Lifting Assembly Hydraulic Cylinder:** Two double-acting cylinders, 4" diameter with 51" stroke (DP-48); and 5" diameter with 55" stroke (DP-80). Lifting arm cylinders are pivotal mounted and attached directly to the arm assembly, eliminating the need for auxiliary levers.

**Dumping Fork Hydraulic Cylinders:** Two double-acting cylinders, 3 1/2" diameter with 24" stroke (DP-48); and 4" diameter with 24" stroke (DP-80), control the fork assembly. The operator can control container position during pick-up and dumping operations.

**Cab Controls:** Manual lever-operated cab controls activate hydraulic controls which raise, lower, dump and return the container.

Model Number	Approx. †† Arm Capacity (Pounds)	Approx. Body & Loader Weight (Pounds)	Overall Dimension			Hopper Opening	Hopper Capacity (Cu. Yards)	Capacity Rear of Hopper (Cu. Yards)	Total Capacity (Net Cu. Yards)	Sump Capacity (Gallons)	Packing Cylinder	Packing Force (Pounds) @ 1600 PSI	Loading Cycle Time (Seconds) ††††
			Width	Height †††	Length								
DP48-25 HD	4,800	15,600	8'	8' 1"	31' 7"	87" x 80"	8.9	15.5	24.4	16	8 1/2" x 13" 5 Stage	90,800	22
DP48-28 HD †	4,800	15,970	8'	8' 1"	33' 6"	87" x 80"	8.9	18.3	27.2	16	8 1/2" x 13" 5 Stage	90,800	22
DP48-31 HD	4,800	16,730	8'	8' 1"	35' 3"	87" x 80"	8.9	21.0	29.9	16	9 1/2" x 16" 7" 6 Stage	113,000	22
DP48-34 HD †	4,800	16,855	8'	8' 1"	37' 3"	87" x 80"	8.9	23.9	32.8	16	9 1/2" x 16" 7" 6 Stage	113,000	22
DP48-38 HD	4,800	17,530	8'	9' 4 1/2"	35' 3"	87" x 80"	11.3	25.3	36.6	16	9 1/2" x 16" 7" 6 Stage	113,000	22
DP48-41 HD †	4,800	18,030	8'	9' 4 1/2"	37' 3"	87" x 80"	11.3	28.8	40.1	16	9 1/2" x 16" 7" 6 Stage	113,000	22
DP80-25 HD	8,000	16,650	8'	8' 1"	31' 7"	87" x 80"	8.9	15.5	24.4	16	8 1/2" x 13" 5 Stage	90,800	32
DP80-28 HD †	8,000	17,020	8'	8' 1"	33' 6"	87" x 80"	8.9	18.3	27.2	16	8 1/2" x 13" 5 Stage	90,800	32
DP80-31 HD	8,000	17,790	8'	8' 1"	35' 3"	87" x 80"	8.9	21.0	29.9	16	9 1/2" x 16" 7" 6 Stage	113,000	32
DP80-34 HD †	8,000	18,165	8'	8' 1"	37' 3"	87" x 80"	8.9	23.9	32.8	16	9 1/2" x 16" 7" 6 Stage	113,000	32
DP80-38 HD	8,000	18,590	8'	9' 4 1/2"	35' 3"	87" x 80"	11.3	25.3	36.6	16	9 1/2" x 16" 7" 6 Stage	113,000	32
DP80-41 HD †	8,000	19,090	8'	9' 4 1/2"	37' 3"	87" x 80"	11.3	28.8	40.1	16	9 1/2" x 16" 7" 6 Stage	113,000	32

† 28 HD, 34 HD & 41 HD bodies include Stor-Dor Tailgate

††† For total height, add height of truck chassis and stringer

†† Rated for 8 Yd. container pickup at ground level

†††† Add 3.8 Seconds for Hydraulic Hopper Door

Dempster Dumpster Systems constantly seeks ways to improve and upgrade its products. For this reason, design changes are sometimes made to provide customers with the best possible equipment and offer the latest in product improvements. If any dimension or capacity is critical, check with the factory for current specifications.

**Dempster  
Dumpster  
Systems**



Division of Carrier Corporation

Home Office: P.O. Box 3127, Knoxville, Tennessee 37917/With offices in principal cities throughout the world

ClassicRefuseTrucks.com Library

A-3641 9/75 10M U Litho. in U.S.A.