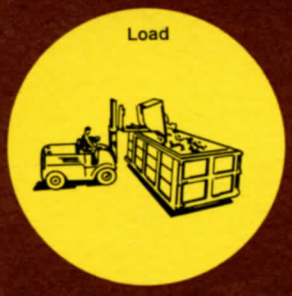
HEIL HUGE HAUL

DETACHABLE CONTAINER SYSTEM

...with more EXCLUSIVE FEATURES than any other in the industry

Up to 40 cu. yd.
Up to 30,000 lb.
gross lifting capacity

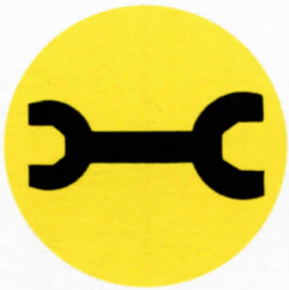


WITH HUGE HAUL, ONE TRUCK BECOMES A FLEET

A single Huge Haul unit does the work of several ordinary trucks and trailers.

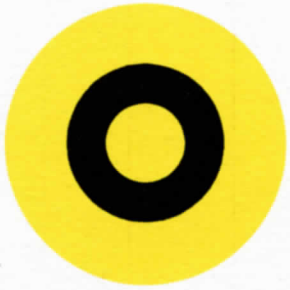
Industrial plants, commercial establishments or large institutions will bank big savings when a Huge Haul goes to work. It's today's answer to the rising cost of moving large volume bulk materials. And Huge Haul offers you quality and design features that set it apart from all other container handling systems . . . to bring you greater versatility . . . lower operating costs . . . lower maintenance costs.

Only one truck driver is required and he never waits for a load.



Only one truck to service and maintain.

Only one set of license plates to buy.



Only one set of tires to repair or replace.

Only one insurance policy to buy.

There is no maintenance, license plates or insurance required for Huge Haul containers!

Front Understructure — For adapting other bodies to Huge Haul operation. Consists of sturdy front crossmember complete with runners, cable-latch receiver and front rollers. Formed steel crossmember for welding inside body is also provided. (Kit does not include longitudinal members, front rails or body crossmembers.)

Subframe — Complete understructure assembly, including deck plate, to which sides, tailgate and front head must be added to construct a finished container. (This assembly is not intended for use by itself as a flat bed. Special designs are available for this type of service.)

HUGE HAUL CONTAINER SPECIFICATIONS

TYPE	MODEL	CAPACITY (CU. YDS.)	WEIGHT 8 GA. DECK	WEIGHT ¼ DECK	OVERALL DIMENSIONS LENGTH	OVERALL DIMENSIONS WIDTH	OVERALL DIMENSIONS HEIGHT	INSIDE DIMENSIONS LENGTH	INSIDE DIMENSIONS WIDTH	INSIDE DIMENSIONS HEIGHT
SUBFRAME	1600 SF	—	2125	2515	198	95½	20	192	86¼	—
	2000 SF	—	2500	3000	246	95½	20	240	87	—
OPEN TOP	1610 NT	10	3260	3650	209½	95¼	39	192	86¼	29
	1615 NT	15	3640	4030	209½	95½	53	192	86¼	43
	1620 NT	20	3970	4360	209½	95½	67	192	86¼	57
	1625 NT	25	4300	4690	209½	95½	81	192	86¼	71
	1630 NT	30	4700	5090	209½	95½	95	192	86¼	85
	2040 NT	40	5560	6060	251½	95½	98	240	87	88
HUGE-PAC	1630 HP—	30	5625	6015	209½	95½	98	192	86¼	85
	2040 HP—	40	7200	7700	251½	95½	101	240	87	88

Where dimensions are critical, confirmation should be obtained from factory.

SPECIAL CONTAINER DESIGNS ON REQUEST

Open Top Containers — Built like standard contractor's type dump body — strong and durable. Twelve gauge hi-tensile steel sides, front head, and side-hinged tailgate which hooks to body side for dumping. Eight gauge hi-tensile steel deck is standard: ¼ in. optional at extra cost.

Heil Huge-Pac® Containers — Closed top and available with various tailgates and attachments to fit Heil Huge-Pac stationary packers. Body is 12-gauge hi-tensile steel sturdily reinforced to withstand packing forces. Deck is available in standard 8-gauge or optional ¼ in. hi-tensile steel.

..... AT A FRACTION OF FLEET COSTS...AND FOR LESS THAN ANY OTHER SYSTEM IN THE INDUSTRY

Positive mechanical locking system holds container securely in place.

Heavy-duty, hi-tensile, boxed steel subframe.

Hydraulically controlled cable reeving cylinders make operation fast, positive, efficient . . . put more than twice as much usable power to work as conventional units.

Positive front hold-downs.

Convenient cab controls give you positive, trouble-free operation of all loading, unloading and dumping operations.

A roller on each side of frame permits containers to roll smoothly on and off Huge Haul truck.

Tilt frame hinge point is directly behind rear wheels for best load distribution.

Hydraulic jack legs help stabilize unit when handling heavy loads.

Fast-operating, high-pressure, double-acting, telescopic hoist cylinders.

Easy accessibly hydraulic valve, piping and oil tank.

HEIL... first in research and resources

Founded in 1901, there are now Heil plants in five cities, from New Jersey to California, with over a million square feet of manufacturing and research facilities. Today, The Heil Co. is the world's largest manufacturer of hydraulic truck equipment.

APPLICATIONS FOR HUGE HAUL

With Heil Huge-Pac® stationary packer and closed Huge Haul container to handle refuse in:

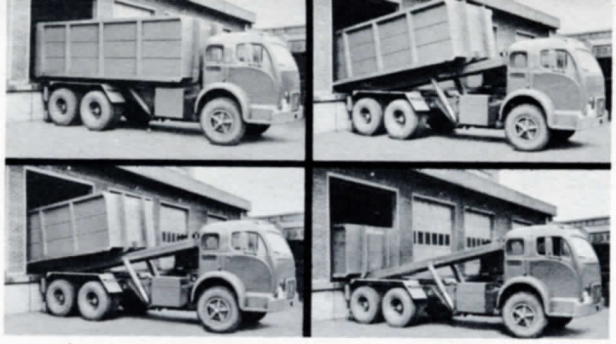
- hospitals
- supermarkets
- department stores
- universities
- manufacturing and processing plants
- housing projects
- high-rise apartments
- office buildings
- hotels and motels
- shopping centers

With open containers for handling:

- construction waste
- ferrous and non-ferrous metal turnings (scrap metals)
- non-compactable refuse
- large-volume bulk materials

With stake sides or flat bed for handling:

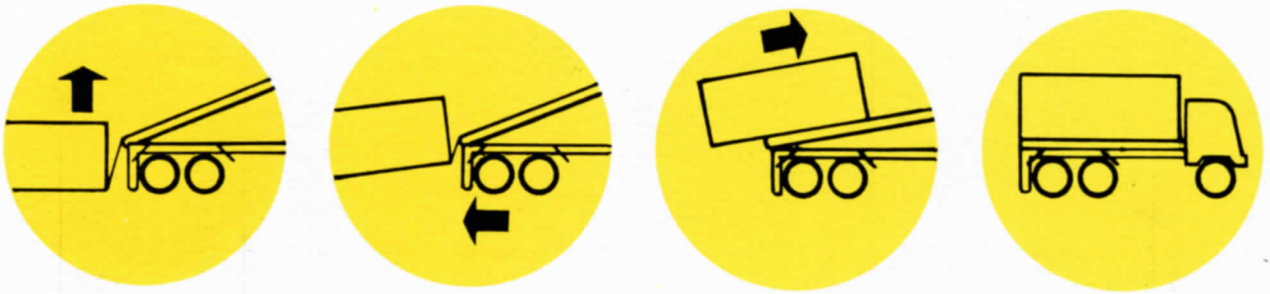
- palletized loads
- "unitized" loads



ONLY HUGE HAUL CONTAINERS CAN BE PLACED ANYWHERE

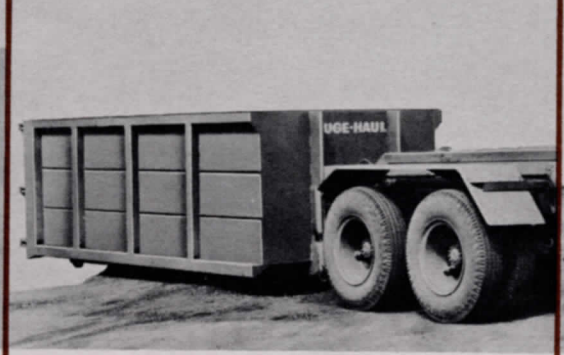
With Huge Haul, you can set containers on docks, at angles, on soft or hard ground for complete flexibility or container placement (above).

You can back under containers, too. With Huge Haul's patented twin cylinder reeving system, you can lift the container and back the truck under it to set it aboard (below).



HUGE HAUL IS FASTEST FROM PICKUP TO DUMP

You can load overhead or through "walk-in" doors — easy and fast either way.



No time wasted aligning container with truck. It's self-aligning, even at wide angle. Simple latch and hook connects cable.

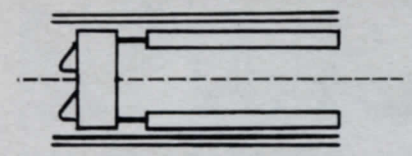
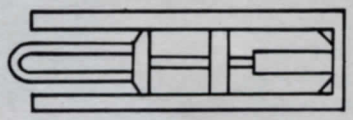
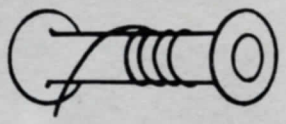
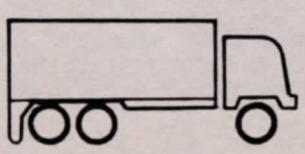
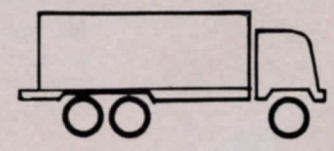
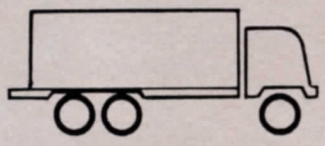
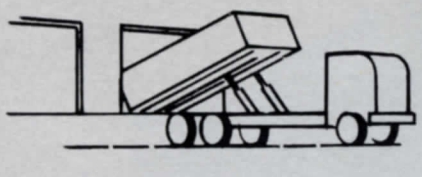
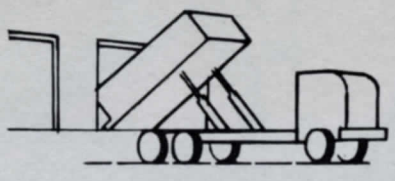
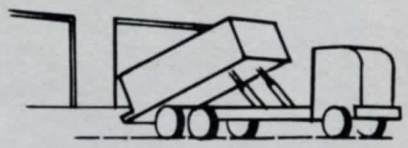
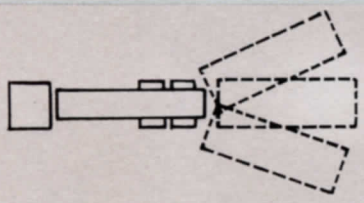
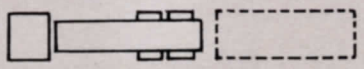
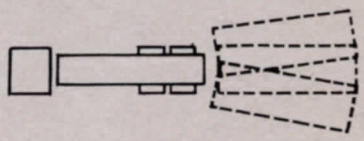
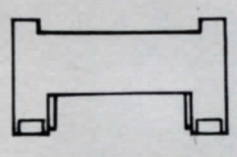
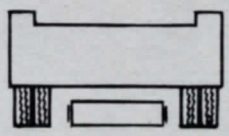
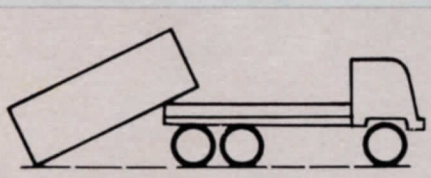
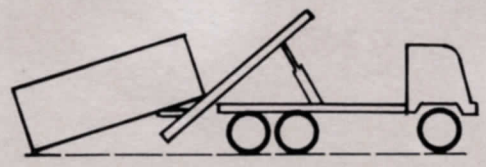
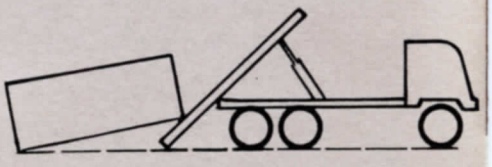
Cable hoist pulls container aboard quickly, with sure, smooth hydraulic power.

Container rides easily aboard on rollers mounted on each side of frame.

Total average cycle time — just 60 seconds ... and with only one man. You can set it off in just 75 seconds. Container locks securely, rides like any truck.

Steep angle dumping and smooth interior lets you dump the most stubborn load quickly, completely.

COMPARE! Feature for feature, there's more to HUGE HAUL

HEIL	BALE-TYPE	WINCH-TYPE
		
Double-acting hydraulically controlled cable reeving cylinders provide positive control of the container when loading or unloading. The loading or unloading is continuous.	A U-shaped bale is hooked to hydraulic cylinder to pull container aboard. The container must be boarded in stages — which takes a minimum of 50% longer time.	A drum-type winch pulls container aboard — action is continuous. Winch cable is hard to control — and cable can chafe and get crossed on drum. Cable wear is high.
		
Frame ends at the jacklegs for shorter overall vehicle length, better maneuverability in tight loading areas. Huge Haul 20-ft. container extends beyond jacklegs but the added length is added payload — not empty frame protrusion.	Frame protrudes beyond the container — makes longer overall length, more difficult to maneuver.	Frame protrudes beyond the container — makes longer overall length, more difficult to maneuver.
		
Container is easily set off and picked up from dock up to truck frame height in one continuous cycle.	Container can be pushed in stages... and pulled off docks up to truck frame height in four stages. No continuous action.	Container cannot be placed on a dock because frame protrudes — and dock floor blocks it when frame is raised.
		
Huge-Haul has self-aligning pickup — container can be pulled aboard from a wide angle. No time lost in maneuvering truck because container is free to float.	Truck must be aligned with container for pickup. Takes extra time, especially in tight quarters.	Can be picked up only at narrow angle. Container is ramped up the tilt frame.
		
Jacklegs are at extreme outside edge for maximum stability.	Single center jackleg is well within the outer edge of the wheel base — far less stability on the sides.	Tilt frame acts as jacklegs — and only when fully extended. Poor stability.
		
Container can be raised without raising frame. Container, in this position, can be backed up like a trailer. Containers are securely held while loading by two hydraulic reeving cylinders and are pulled aboard without changing the tilt frame.	Frame must be fully extended to mount container. **First,** frame must be raised, **then** container is taken aboard. Operation takes more time. Overhead restriction can also be a problem, because frame extends several feet above cab at its maximum height. Containers are held by springs which can and have failed, allowing container to fall off frame.	Frame must be fully extended to mount container. **First,** frame must be raised, **then** container is taken aboard. Operation takes more time. Overhead restriction can also be a problem, because frame extends several feet above cab at its maximum height. Containers are held only by old-fashioned winch.

SPECIFICATIONS

The Heil Huge Haul is a truck-mounted hydraulically operated hoisting mechanism designed to handle detachable containers in a variety of types and sizes. It consists of a cable-reeving system for drawing the load aboard, a tilt-frame assembly pivoted at the rear for dumping the load, and jackleg stabilizers to provide support for the load during lifting. Its simple design and rugged construction, using top quality heavy-duty components throughout, insure long-life, trouble-free, fast, smooth power for handling heavy loads.

SPECIFICATIONS MODEL HH-30

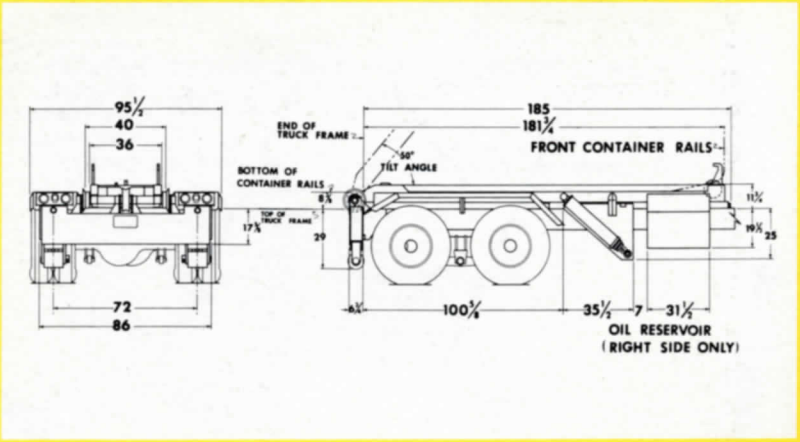
SUBFRAME — Welded steel construction consisting of a rear cross-beam structure with integral jackleg housings at each end and heavy-duty bearing supports for the tilt-frame pivot and load roller shaft; and two formed steel longitudinal members to which are attached tilt cylinder mounts and full fenders for the rear wheels. Cast steel rollers with wide flanges are mounted on the rear structure to engage the container rails.

TILT-FRAME — Consists of two all-welded box section frame rails of hi-tensile steel construction, pivoted at the rear on a 2 7/16" diameter cold-drawn steel shaft mounted in heavy-duty bronze bushings. Frame rails are spaced to fit between the container longitudinal members, providing a self-aligning scissor action between the container and tilt-frame during the lifting operation and a positive retention against side motion during transporting and dumping. Two fixed hooks at the front and a mechanically actuated automatic hook at the rear engage the container in the transport position.

CABLE REEVING SYSTEM — The ¾ inch diameter ultra high strength steel lifting cable, anchored to an adjustable turnbuckle at the front of the tilt-frame, is routed over two traversing sheaves mounted in a hydraulically actuated platen assembly, and over two fixed sheaves mounted at the front of the tilt frame, providing a 4:1 ratio of cylinder-to-cable travel for a total cable movement of 20 feet, 10 inches. Rollers and sheaves are cast steel with heavy duty bronze bushings. The lifting cable is equipped with a self-locking toggle connector for attachment to the container.

HYDRAULIC SYSTEM — Reservoir, a compact unit assembly with the main control valve mounted on top, is located on the right side at the front of the subframe for easy access, and is equipped with a vented filler plug and a sump type oil filter. The heavy-duty gear pump is mounted separately from reservoir for ease of installation. Main control valve is a 3-spool, 4-way type for controlling the jacklegs, cable-reeving, and tilt-frame operations, and is equipped with a built-in relief valve. Auxiliary valves include a replenishing check and relief system in the tilt-frame circuit to protect against externally-applied overloads; a flow control and pilot check system in the cable-reeving circuit to provide positive control during the loading and unloading cycles and positive locking for transporting and dumping; and individual pilot checks in the jackleg circuit to prevent drifting or fluid cross-over between jacklegs under load. All cylinders are double-acting for positive control, with removable heads for access to internal parts. Hydraulic fittings, hoses, and tubing are high pressure type with burst pressure at least four times normal operating pressure.

JACKLEGS — Jackleg cylinders, fully enclosed in box-shaped steel housings for protection against external damage and side loads, are mounted at each end of rear structure to provide a wide-spaced support for stability. Each leg is equipped with an 8 inch diameter x 9¾ wide roller at the bottom to permit longitudinal movement of the truck.



MODEL	HH-30
Gross lifting capacity (pounds)	30,000
Standard container sizes (cu. yd., struck capacity)	10 - 40
Weight, empty (pounds)	5100
Hydraulic pump capacity (GPM)	17
Normal operating pressure (PSI)	2250
System relief pressure setting (PSI)	2500
Tilt cylinder bore and stroke (telescopic)	3½ - 4½ - 5⅜ x 83⅝
Reeving cylinder bore and stroke	5 x 65
Jackleg (cylinder) bore and stroke	3½ x 10½
Average cycle time (seconds @ 1500 RPM pump speed)	
Container on	33
Container off	30
Frame up	36
Frame down	27

TRUCK REQUIREMENTS

Tandem Axle

Back of cab to C/L of tandem	138"
Back of cab to end of frame (min.)	187"

GVW (based on maximum rated capacity of hoist)	45,000 - 48,000 Lbs.

Center of Gravity of Load Ahead of Tandem Center (Average)

16 foot body	30"
20 foot body	6"

In addition to above, all truck chassis should meet chassis counterbalance requirements to assure operation at full rated capacity.

THE HEIL CO. HUGE HAUL® CONTAINER SYSTEMS

MILWAUKEE, WISCONSIN 53201

Factories: Milwaukee; Woodbridge, N.J.; Lancaster, Pa.; Cleveland, Ohio; Modesto, Calif.

Sales Offices: Woodbridge, N.J.; Atlanta; Cleveland; Chicago; Milwaukee; Kansas City, Mo.; Denver; Dallas; Los Angeles; Seattle; Toronto.

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