HEIL

COLECTOMATIC

SANITARY REFUSE COLLECTION UNITS

...for fast, clean, low cost refuse pick-up

- 16 cu. yd. capacity • Simple operating mechanism
- Easy service accessibility • Low loading sill
- No down time from jams
- "Bulldozer" type packing plate for better packing

BULLETIN BH-54103

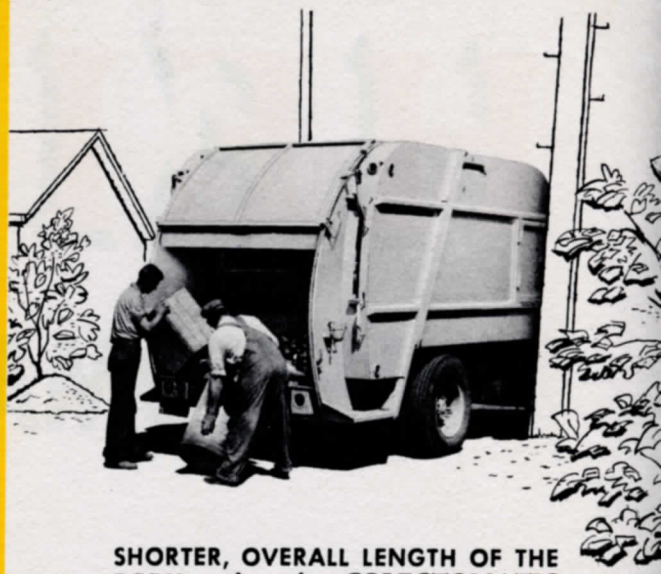
HEIL

COLECTOMATIC

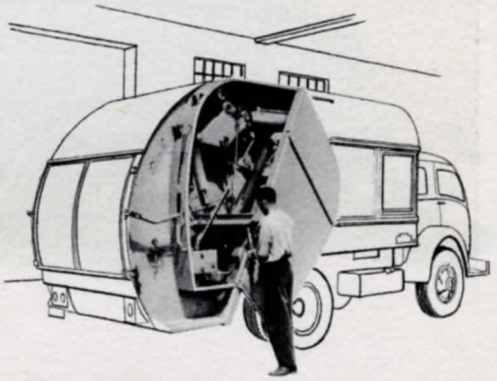
. . . the FIRST refuse collection unit designed by YOU, the user!

Here are the questions we asked of a representative cross-section of municipal operating crews, inspectors, and supervisors together with private refuse collection operators.

1. WHAT FEATURES DO YOU LIKE IN YOUR PRESENT EQUIPMENT?
2. WHAT DO YOU DISLIKE ABOUT YOUR PRESENT EQUIPMENT?
3. IF YOU WERE GOING TO DESIGN A NEW REFUSE COLLECTION UNIT, WHAT IMPROVEMENTS WOULD YOU MAKE OVER YOUR PRESENT EQUIPMENT?



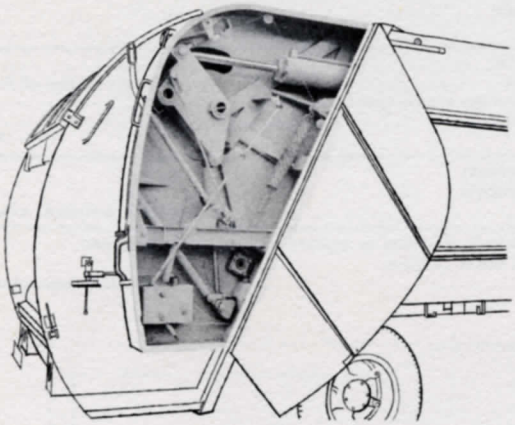
SHORTER, OVERALL LENGTH OF THE BODY makes the COLECTOMATIC easier to handle in narrow alley turns and restricted areas. The length of the body is 12 to 14 inches shorter than other refuse units of like capacity.

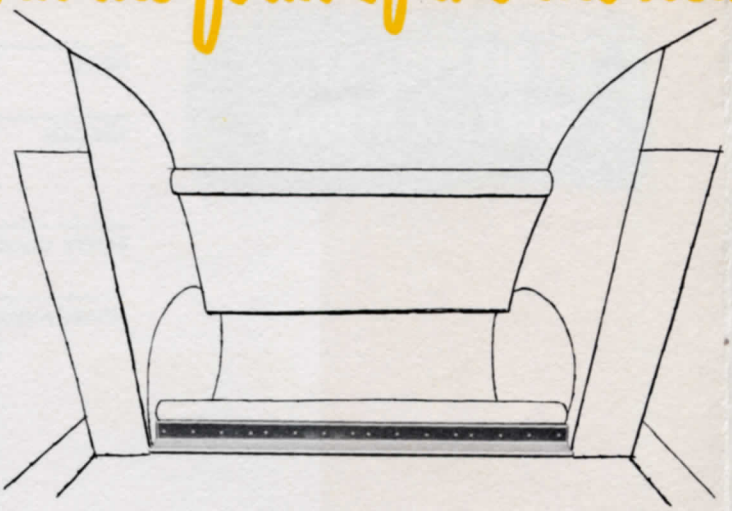


ALL WORKING PARTS ACCESSIBLE FOR EASY SERVICING was the second "most wanted" feature you requested. On the COLECTOMATIC you simply open the side panels on the tailgate. The entire mechanism is right before you, easily worked on from a standing position. The four-way, single-spool valve controlling the packing hydraulic cylinders is mounted in the underbody hoist frame for easy accessibility rather than high in the tailgate.

BALANCED WEIGHT DISTRIBUTION. Forward location of the tailgate hinges relieves undistributed stresses and strains because more of the tailgate weight rests on the truck longitudinals rather than hanging over at the rear of the body.

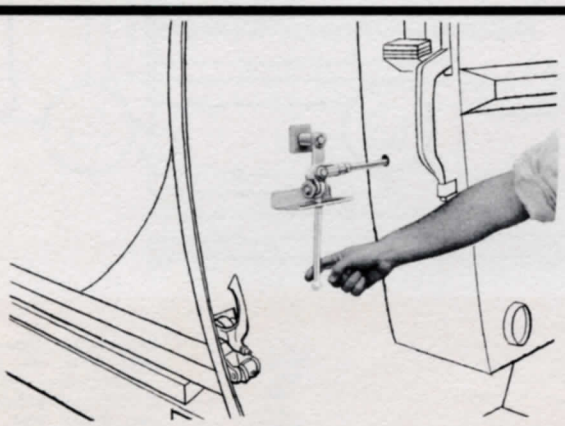
And these are your answers, in the form of the all-new





SIMPLE OPERATION FOR ALL PACKING FUNCTIONS starts with the use of only two hydraulic cylinders which perform the combined function of operating the loading and packing mechanism and the raising and lowering of the tailgate. Compare this to the usual four to five cylinders used in other rear loading units! Fewer cylinders, less mechanical linkage reduce maintenance problems.

CLEAN, ODOR-FREE COLLECTION because a steel plate — an integral part of the tailgate — seals off the body proper to a height of 4 inches above the body floor. This prevents liquids from draining out of the body to the street or back into the loading hopper.



ONE FINGER TRIPS THE CONTROL LEVER to start the completely automatic loading and packing cycle. The safety door closes; the load is swept out of the hopper and packed into the body; and the safety door opens in readiness for the next load — all in an average time of 22 seconds. Only one single-spool, four-way valve is used to actuate the packing mechanism as well as to raise and lower the tailgate. A third under-body hoist raises and lowers the body when dumping.
Loading mechanism does not continuously operate, as do chain-type loaders. With a large 1¼ yd. hopper capacity several pick-ups may be made before the need to operate the packing mechanism.

STOPPAGE CONTROL SAVES TIME, PREVENTS DAMAGE. In all mechanical packing-type units stoppages frequently occur when refuse wedges between the packer plate or chain flights and the hopper. Refuse rarely sticks in the COLECTOMATIC because of its clean design. However, should this situation occur, the hinged hopper can be released to drop away from the packing plate, freeing the jammed refuse. A touch of the operating lever again starts the packing cycle. No cost-consuming time is wasted eliminating jams.

GREATER COMPACTION WITH "BULLDOZER" PACKING! A moldboard type packing plate located higher in the tailgate and well above the floor of the body imparts a rolling motion to the incoming material. During the first four-fifths of its packing action, the packing plate pushes the load in a line approximately parallel to the floor of the body. During the last one-fifth of the packing movement, the plate exerts a lifting motion to the refuse to give an additional rolling effect to the material for *real* bulldozing packing.

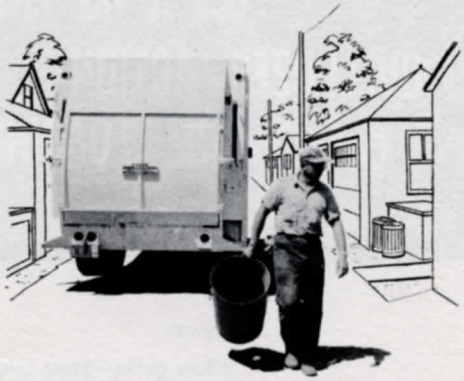
HYDRAULIC CYLINDERS COMPLETELY SEALED from refuse. Tailgate and packing mechanism cylinders cannot become damaged from corrosion or direct contact with refuse and garbage.

CLEAN BODY LINES make the COLECTOMATIC an asset to any community. It definitely has eye-appeal and advertises modern sanitation methods to citizens and visitors alike.

COLECTOMATIC

QUIET PACKING OPERATION UNDER ALL CONDITIONS with no continuously moving chains. Often, several stops may be made with the COLECTOMATIC before the packing operation is necessary and then only a slight increase in engine speed is heard. Quietness of operation is especially important in large cities where pick-ups must often be made during late evening and early morning hours.

FLAT BODY FLOOR, NO OBSTRUCTIONS FOR FAST DUMPING. The flat floor of the COLECTOMATIC has no wheel housings or ramps over which refuse must be pushed either when packing or dumping. Three inch body taper from front to rear assures easy, swift discharge.

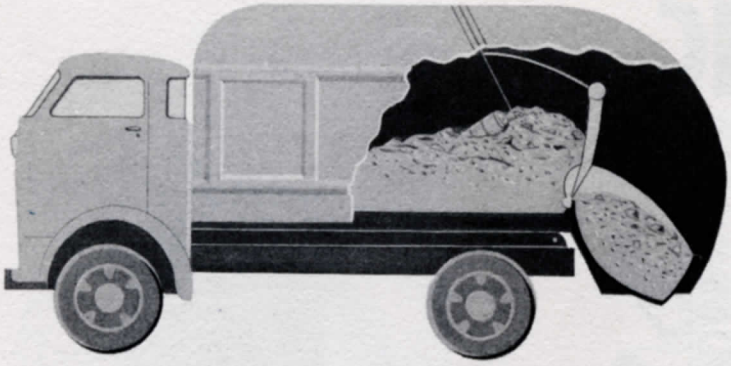


LOW, WIDE LOADING SILL FOR MORE COMFORTABLE LOADING reduces worker fatigue and allows two collectors to empty refuse at the same time with plenty of elbow room. Refuse pick-up progresses faster because no time is wasted by collectors waiting for the man ahead to finish dumping his load into narrow type hoppers. The hopper loading sill is no higher than the truck chassis longitudinals. This means that the sill is usually only 36 inches, or less, above the ground. Since the loading access door is 4 feet in height, garbage cans may be up-ended and the garbage shaken out if it will not work free with the conventional rolling method of loading.

COMPLETE SAFETY TO COLLECTORS is assured through the use of the entirely enclosed packing mechanism. A close-fitting safety door drops quietly into place as the loading cycle starts. There is no danger from pieces of glass or jagged lengths of wooden boxes flying back out of the hopper as in chain-type loading units. Not only are your collectors fully protected, but children and other bystanders are protected from any possibility of injury.

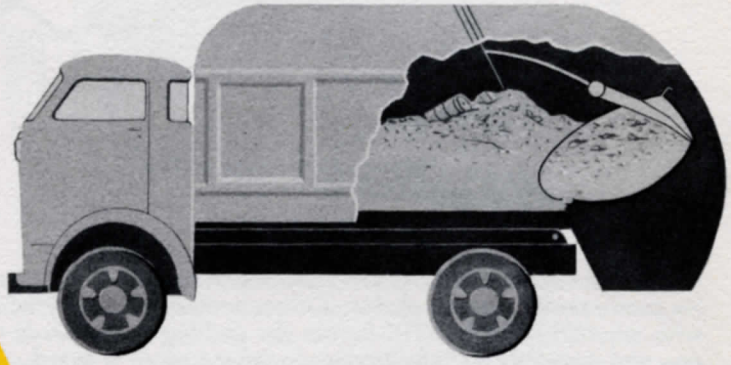
MORE IMPORTANT *Colectomatic* FEATURES

- No retainer plate needed in the COLECTOMATIC since the packing plate itself retains the load in the body. Another example of cost-saving efficient Heil design.
- Two large utility doors (30x36 inches) one on either side of body, for loading of refuse too large and bulky for the hopper.
- Hopper safety door is standard.
- Only *one* Heil underbody hydraulic cylinder needed to raise the load at the dump or incinerator. This hoist, and two in the packing mechanism, are made with the precision and knowledge gained through more than 35 years of quality hydraulic hoist manufacture.
- Push buttons at rear of COLECTOMATIC connected to buzzer in cab signal driver when hopper is filled, and pick-up completed.
- Low, overall body height (80¾") and short, overall length (183¼") make the COLECTOMATIC easy to maneuver in cramped corners and alleys.
- Standard truck chassis, cab-over-engine or conventional, may be mounted with the COLECTOMATIC. Body mounts on a 102" CA single axle, or an 84" CA tandem axle chassis.
- Riding steps at rear, bucket hooks, and shovel hooks included as standard equipment.



(Fig. 1)

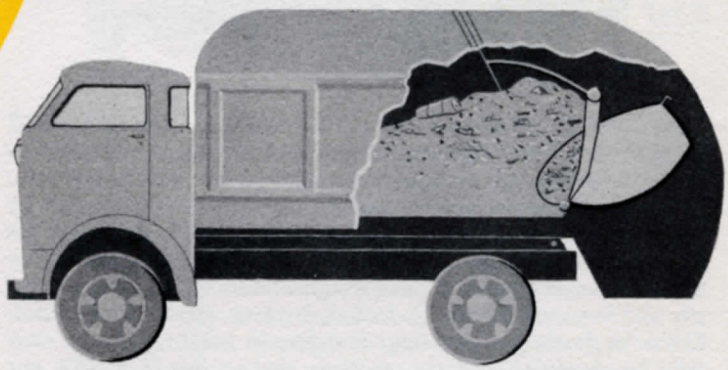
With the hopper filled, the collector lifts the operating lever out of its notch, and the packer plate automatically moves backward as the hopper raises.



(Fig. 2)

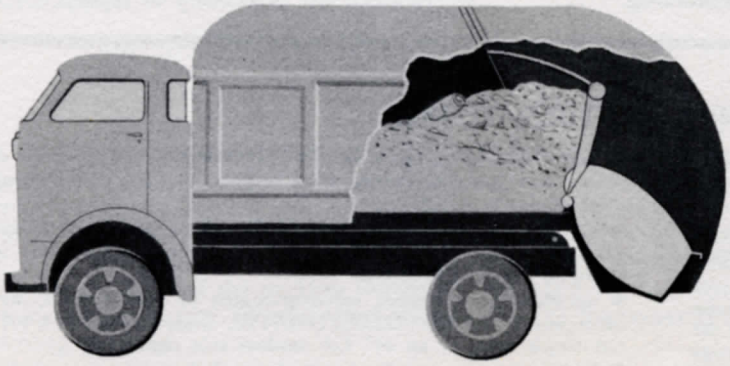
Packer plate forces the refuse out of the hopper and continues to *roll* the material with a bulldozing action.

this is the fast, BULLDOZER-ACTION *Colectomatic* LOADING CYCLE!



(Fig. 3)

When packer plate reaches farthest forward point of its course of travel, hopper returns to loading position.



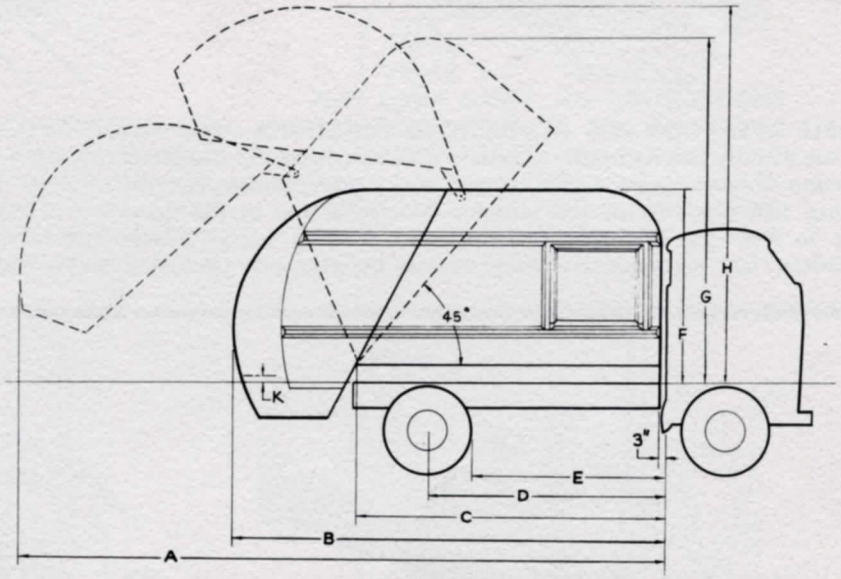
(Fig. 4)

With hopper back in place, packer plate remains at forward position retaining the refuse in the body.

COLECTOMATIC SPECIFICATIONS

BODY	Capacity ..... 16 cu. yd.
	Taper ..... 3", front to rear
	Flat floor ..... No obstructions during dumping
	Utility doors, side loading ..... One each side, 30" x 36"
	Maximum outside width ..... 95½"
HOIST	Single cylinder, double-acting, arm-type
	Mounting height ..... 11½"
	Dump angle ..... 50°
TAILGATE	Hopper capacity ..... 1¼ cu. yd.
	Loading height ..... 36" average (same as top of truck chassis)
	Cycle time (average engine speed) ..... 22 seconds
	Loading opening ..... Height 48"
	Width 70⅜"
SAFETY DOOR	Standard equipment
	Automatic operation
	Power ..... Mechanically actuated; gravity lowered
MISCELLANEOUS	Only two hydraulic cylinders to operate packing mechanism and raise and lower tailgate.
	Controls ..... Fully automatic, mechanically actuated

COLECTOMATIC DIMENSIONS



Maximum Length "A"	272⅞"
Length "B"	186¼"
Length "C"	130¼"
Cab to Axle "D"	102"
Cab to center of Tandem Axle "E"	84"
Body Height "F"	80¾"
Body Height, Dumping "G"	138½"
Maximum Height "H"	152⅝"
Truck Frame to Loading Sill "K"	0"
Body Width	95½"
Unit Weight (Approximately)	7700 lbs.

The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications

MILWAUKEE, WISCONSIN **THE HEIL CO.** **HILLSIDE, NEW JERSEY**

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