



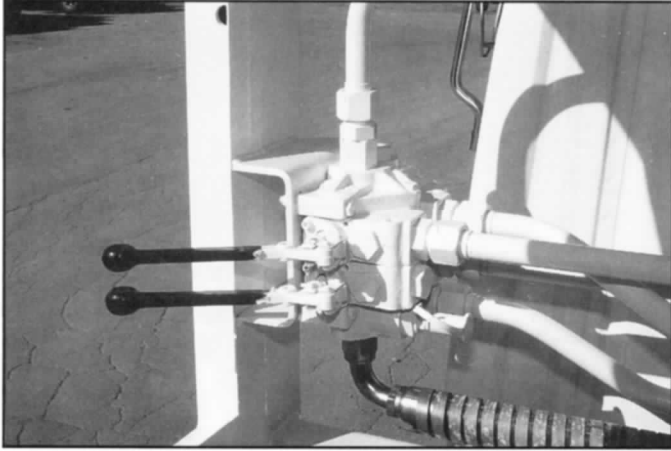
Leach 2R11

Hydraulic Improvement Features

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TWO-SPOOL TAILGATE LIFT AND EJECTION VALVE

Gresen Sectional Valve Body



New location provides easy access to relief and telescopic resistance valves (cartridge style valves).

Simplifies plumbing.

Valve mounted inside of body to contain potential hydraulic oil leaks.

Eliminates valve and brackets from floor trough area.

Direct mount handles eliminate front control linkage.

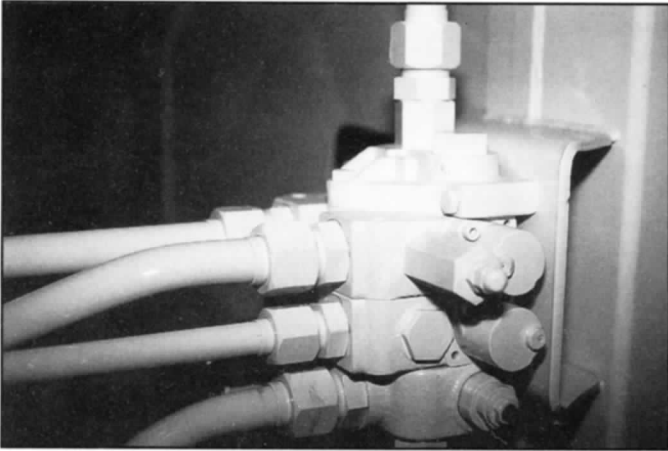
Minimizes cab to body interference.

Increases clearance for exhaust and chassis components.



VARIABLE RESISTANCE CIRCUIT

Cartridge Valve Integrated into the Telescopic Control Section



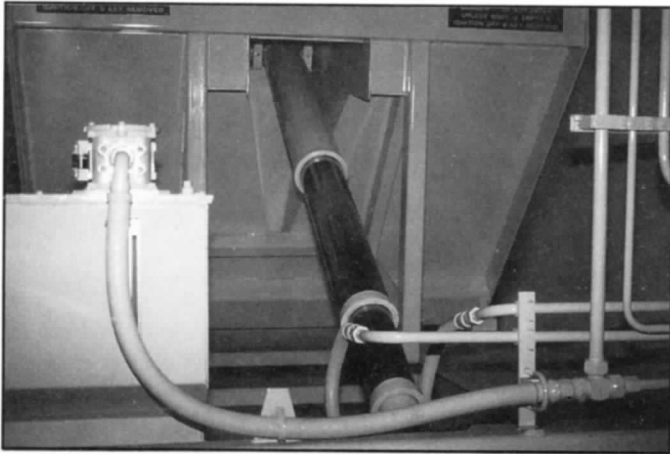
Senses both internal hydraulic pressure of the telescopic cylinder and carrier circuit compaction force to optimize payload (screw adjustable).

Integral sensing lines eliminate external hoses.

Reduces number of fittings and HIC (Hydraulic Integrated Circuit) block components.

TELESCOPIC EJECT CYLINDER

Mounted at an Angle to Counter Tipping Force Generated by the Packing Mechanism



Compact cylinder size reduces number of stages resulting in less weight. A 3-Stage cylinder is used on 20 and 25 yd. bodies and a 4-Stage is used on 31 yd. bodies.

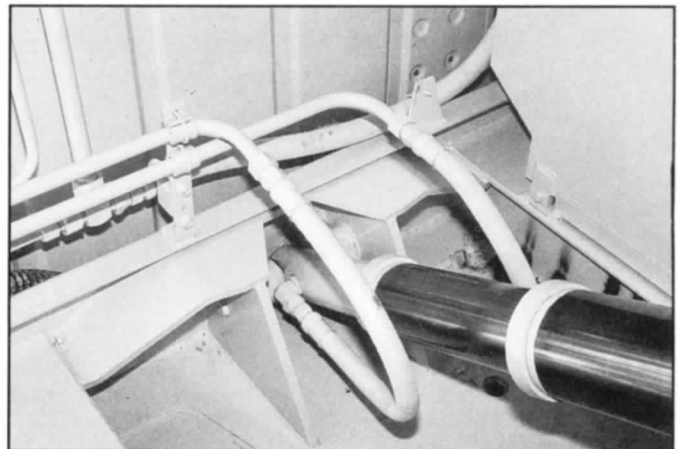
Angled mounting protects cylinder from refuse in floor trough.

Full pressure back-packing force directed toward center of blade.

Reduces on-board hydraulic fluid storage (fewer stages).

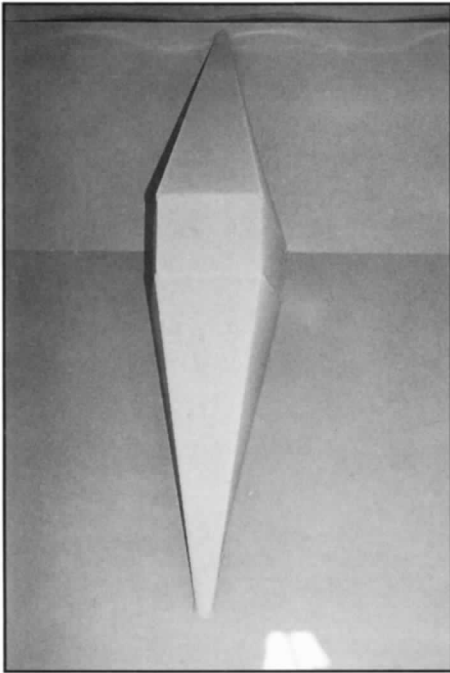
Longer shoe life because tipping forces are reduced.

The telescopic cylinder which is rod ported, has been turned end for end which eliminates the long trailing hose.



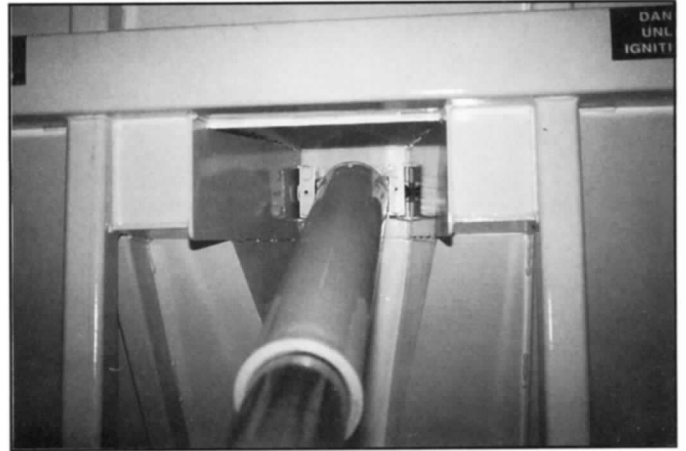
HEAVY DUTY DIAMOND SHAPED EJECTION PANEL FOR TELESCOPIC EJECT

New Diamond-Shaped Ejection Panel Distributes Packing Forces

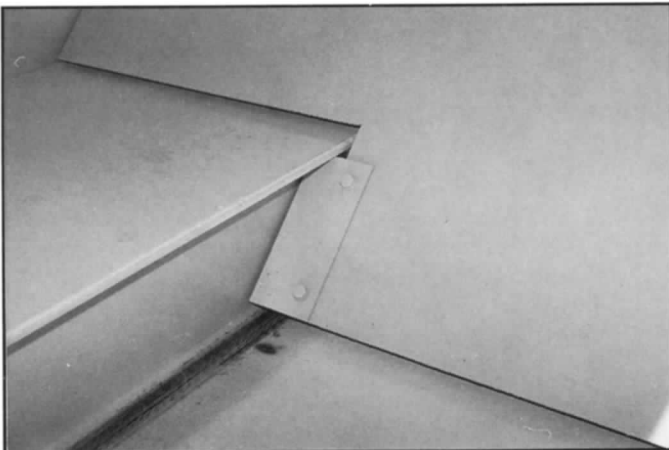


Diamond shape directs compacted material towards the roof and corners of the body and reinforces ejection plate structure.

The face sheet is now 3/16 50,000 PSI steel.



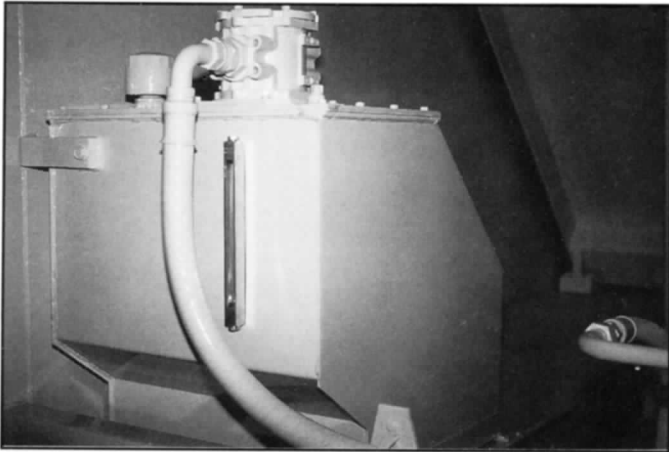
Telescopic cylinder pin, at ejection panel, is housed in half style bearings for ease of removal.



Front and rear shoes replaceable from inside the body.

HYDRAULIC RESERVOIR, SIZED TO MEET HYDRAULIC IMPROVEMENTS!!

New Tank Reduces Weight and Size to Meet New System Requirements



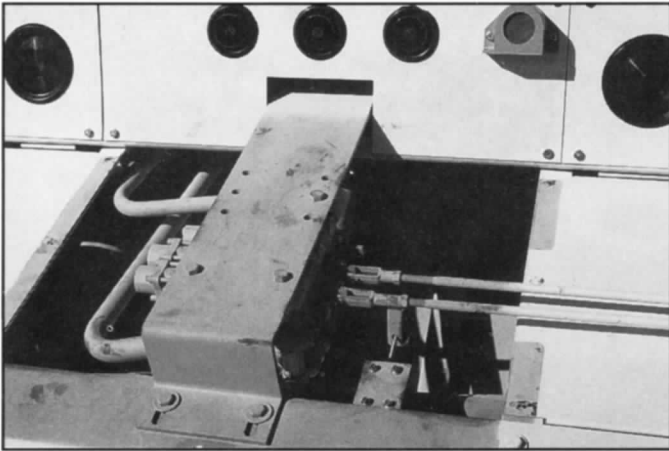
Utilizes standard in-tank return filter assembly.

Features external suction strainer housing.

Standardizes reservoirs and filter for Leach rear loader line (Alpha, Beta, 2R11).

MAIN OPERATING VALVE AND LINKAGE

Gresen Sectional Valve Body



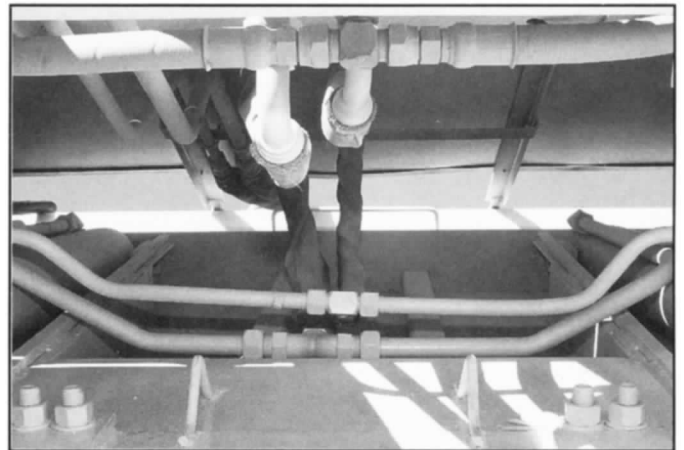
3-Spool valve standard for ease of future optional hydraulic equipment additions.

Optional hydraulic equipment (winch, etc.) utilizes the third section of the valve versus a single spool monoblock valve.

Valve location minimizes "overhead" work by providing "down access" for maintenance.

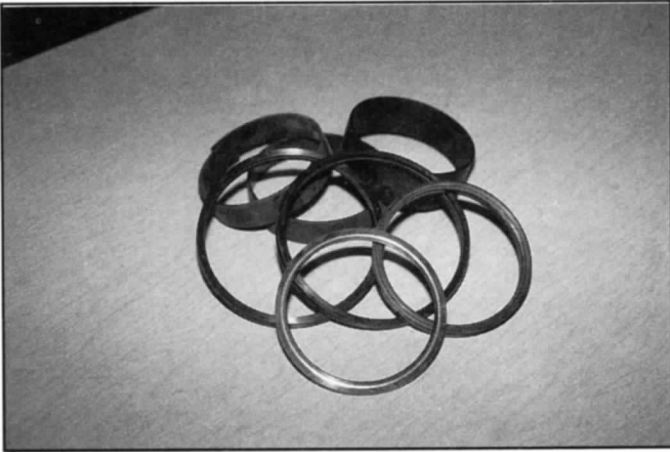
Adjustable internal pressure release detent assemblies synchronize packing operation (reversing and knockout settings).

New valve consolidates plumbing and eliminates the "H-Frame."



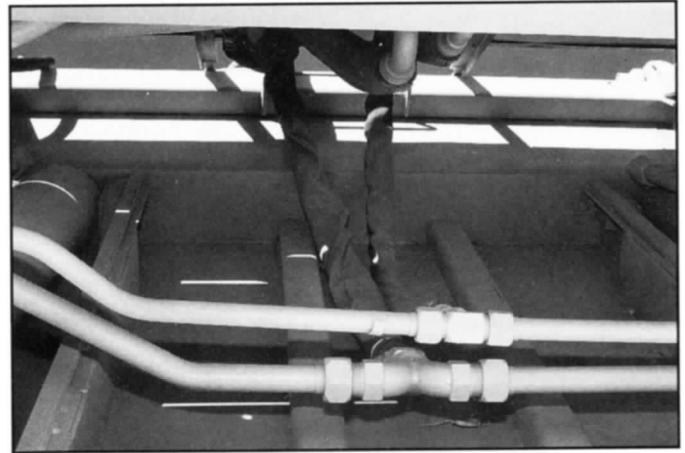
OPERATING CYLINDERS

Improved Reliability



Double-acting, bi-directional lip seal improves efficiency. Wider guide ring bearings provide more stability for piston when extended.

Heavier rod and wiper seals provide superior wiping action.



Jacket style hose guard replaces spring guard.

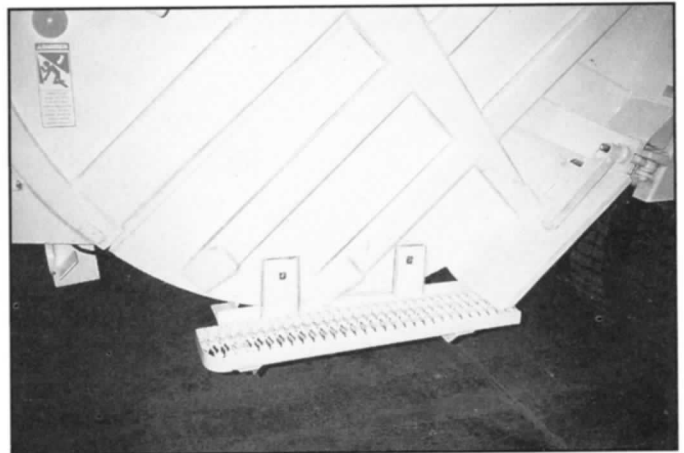
Provides better hydraulic oil containment should leaks occur.

OTHER FEATURES

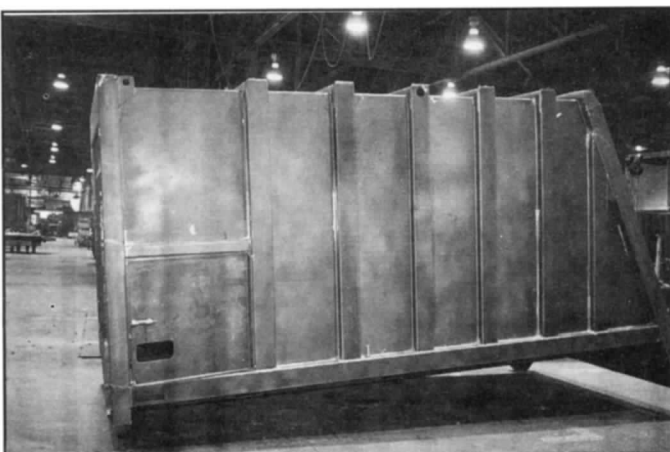


Bearing straps - weld-on versus bolt-on half bushing increases life and improves lubrication characteristics.

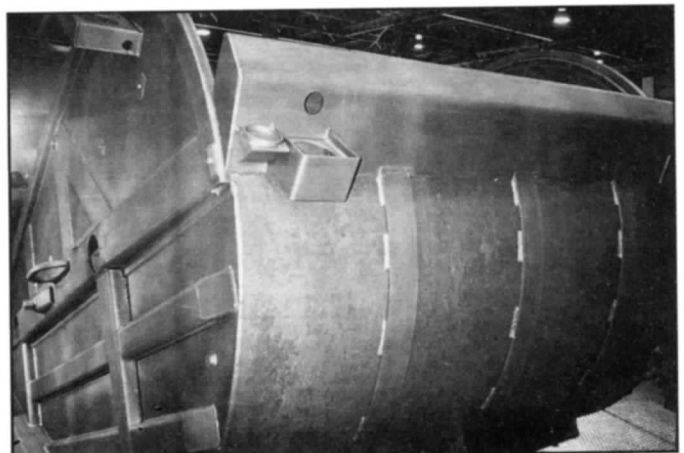
Eliminates bearing shift.



Rear steps are now bolt-on for ease of replacement.



Standardization on 5" wide side and roof channels.



Hopper bottom reinforcement -

- Flat bars versus channels (no reduction in strength).
- Slight increase in road clearance.