



F175HE Drop Frame Side Loader



F175HE Side Loader Design Features

Packing ram penetrates body 26 inches virtually eliminating fall back.

Because of the unique Sweep Action design the Ram does not stop at the bottom of the floor slope section but continues to push the material completely up the slope section into the body resulting in maximum compaction and minimum fall back.

Curved packer face to enhance compaction.

Packer Swept volume of 1.75 cu. yd.

High efficiency packer **requires no crusher panel** eliminating any related safety issues.

Rigid one-piece ram design requires **no hinged follower panels or rollers.**

Tapered body design for easier unloading

Body and tailgate made of **high strength wear-resistant material.**

One-piece body and hopper design.

"Easy Lube" system. All remote lubrication points are equipped with high pressure hoses to ensure all grease points are accessible from the ground and outside of the body

Sealed, spherical, self-aligning bearings on all cylinders to prevent cylinder side loading and ensure longer trouble free service.

All pivot points are sealed to ensure grease retention under all weather conditions, resulting in extended lube intervals, and many hours of maintenance free operation.

Scissor type hose carrier with swivel hydraulic fittings eliminates flexing and twisting of hydraulic hoses and electrical lines around rear body hinge.

Std body sizes: 29, 33 & 38 Cu Yd for 6x4 chassis and 17 & 22 cu. yd. for 4x2 chassis.

Body:

Strong and Light. Semi-elliptical design with curved sides, roof and floor to maximize strength, and minimize weight.

Tapered body design for easier off-loading.

Underside of body is smooth, no cross members. Easy to clean. Also dirt, stones etc. cannot collect on cross members and fall off while vehicle is in motion.

Tailgate:

Semi-round w/ HD slide type hinges allow automatic open / close action

Four (4) bottom locks.

Neoprene gasket 20" up each side, stainless steel removable retainers.

Stainless steel lower light box.

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Hopper and Packer:

The packer mechanism was designed to achieve **high efficiency** and **productivity** while providing **low maintenance** and exceptional **longevity** for all components.

The **curved hopper and arched single piece packing ram** are the central components and the focus of this innovative design.

The **sweep action ram** guides the material into the body without the usual slope plate. This allows the ram to travel past the breaker beam and **penetrate into the body 22-26"** practically eliminating the need for a crusher panel. For a faster more efficient pack cycle the curved path also eliminates the friction created by driving the compacted material into the slope plate. That action absorbs power and inevitably causes greater surface wear.

Packer cylinders are installed diagonally. Full articulating mounts at each end of cylinder allow up, down and side to side movement, **absolutely no side loading on cylinders.**

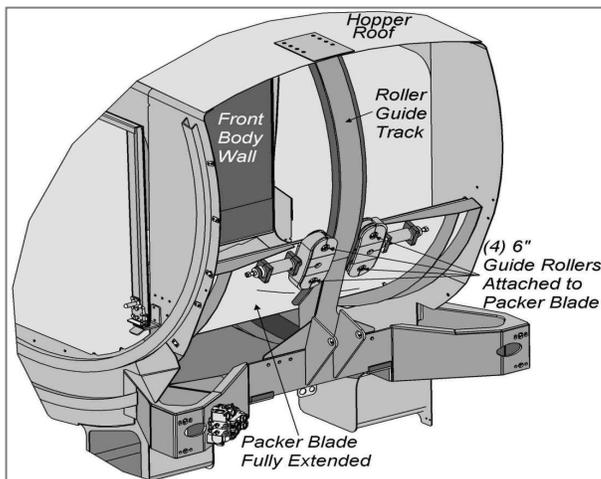
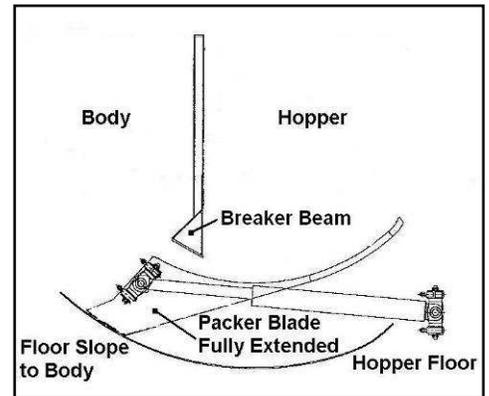
Since the **packer blade is one-piece** there is no need for hinged follower panels thereby eliminating the repair and maintenance of the rollers used in each of the follower panels.

18" High x 76" wide packer blade.

Ram guide anti-wear plate hopper floor: 7/16" x 6" wide **"Wearmax"** chromium carbide.

Ram guide anti-wear plate underside of blade: 7/16" x 6" wide **"Wearmax"** chromium carbide.

Top ram guide (hold down) bar: 1/4" x 3" **Hardox** AR450, 180,000# yield



Unique Innovative (Patent pending) ram guide system: Virtually maintenance free.

The rigid blade assembly is equipped at the leading end with adjustable side guide plates fabricated from 3/8" Hardox AR450 plate. The other extremity is equipped (4) HD grooved permanently lubricated self-aligning rollers following curved guide bars permanently fixed to the hopper.

This guide system **does not require hopper guide tracks, wear shoes and/or roller followers** which can be costly and time consuming to replace.

Large clean out sumps both sides of hopper.

High Efficiency Low maintenance Hydraulic System:

Pump: Hi-efficiency Gear.

Standard installation is transmission PTO mount with an enclosed PTO shaft extension. **(No exposed PTO shaft.)**

Front mount also available.

Pump over-speed control system.

35 Gal. hydraulic reservoir mounted top of frame behind cab, provides **direct gravity feed to pump**. Pressurized tank not required.

External tank mounted suction line strainer with integral shut off and magnetic trap, 100 mesh 100 gpm. **Element can be removed and cleaned or replaced without removing oil from tank.**

In tank return filter 10 micron/100 gpm

Oil level sight gauge, non-vented filler cap and 10 micron spin on breather filter and drain plug.

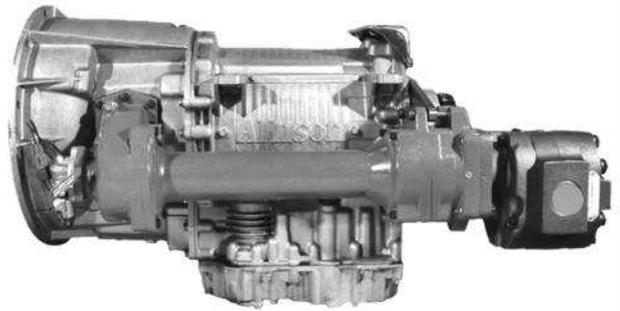
Hose: "Eliminator" ultra high pressure, two (2) wire, crimp type fittings.

W.P. 1/2" = 5,000 psi, 3/4" = 4,500 psi, 1" = 3,500 psi

Nylon Guard hose protection.

Hydraulic tube: Rated at 5,000 psi working press, zinc chromate finish.

Chelsea 890 PTO, enclosed shaft extension, clutch pack and close coupled pump.



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60 GPM Parker VA35 control valve with air actuators. Two (2) sections mounted on oil tank for hoist and tailgate functions, one (1) section mounted to hopper for packer function. Using two control valves minimizes the number of hydraulic lines under the body and along the truck frame. Tailgate circuit has check valve and drain fuse to maintain constant closing pressure.

Hydraulic Cylinders:

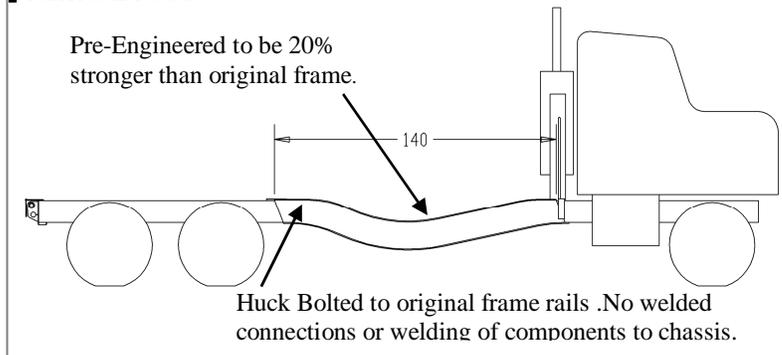
HD manufactured for long life, severe service application, internal gland design. Rods are induction hardened to 55 Rockwell .065 deep and protected with 2 mil hard chrome. Rod seals: Two-piece design. One high pressure and one buffer seal. Hi-tech rod wiper. Aluminum pistons for better heat dispersion and anti-wear qualities. Long life piston seals: High quality bi-directional low friction. Cylinder pivot points equipped with self-aligning sealed bearings. Prevents side loading and extends service life of pivot pins.

Material Specifications:

Body floor: 3/16" 80,000# yield.
Body sides front: 3 mm. **Hardox** AR450 180,000# yield
Body sides rear: 12 Ga. 80,000# yield.
Tailgate sides and rear: 12 Ga. 80,000# yield.
Tailgate frame: 12 Ga. 80,000# yield.
Tailgate lower light box: 10 Ga. Stainless 316
Tailgate upper light bar: 3/16" Aluminum
Hopper floor (including slope to body): **5/16" Hardox** AR450, 180,000# yield.
Hopper sides: 1/4" **Hardox** AR450, 180,000# yield.
Ram face: 1/4" **Hardox** AR450, 180,000# yield.
Ram top: 3/16" **Hardox** AR450, 180,000# yield.
Ram skirt: 10 Ga. 120,000# yield.
Hopper Doors: 3/16" Aluminum 60" x 72"



Frame Drop:



Smooth curved frame drop is designed to leave as much of the original frame in tact as possible. The "C" type frame insert is pre-engineered to be **20% stronger than the OEM frame** and is lighter, more ridged and requires minimal cutting of the original frame. The frame inserts are "**Huck**" bolted to the original frame; no welded connections or welding of components to the chassis. Hopper loading height is approx. 4" above original frame height.

Control System:

In Cab control console contains:
Air over hydraulic controls for hoist and tailgate. (Tailgate control has mechanical lock)
On/off switch for hydraulic system.
On/off switch for aux and flashing lights. (If equipped)
Large red master power button. (E-stop)
Green packer start cycle button.
Highly visible LED indicator lights for PTO on, tailgate ajar, and packer in motion.
Electronic alarm for tailgate ajar.
Power relay module (PRM) for battery feed with built in fuses for switched and non-switched circuits, and breaker panel with addition circuits for auxiliary equipment.



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Packer control buttons mounted in weatherproof composite box front RH of hopper. Controls include stop, start cycle, reverse cycle, and jog forward. Switch for single or multi-cycle.
Full length emergency stop bar on hopper sill.
LH hopper mounted packer controls also available.
Packer cycle controlled by HD watertight limit switches.
Weatherproof control box inside cab houses the electronic PCS (Packer Control System) which controls the packer system. Has two quick connect electrical connectors for easy removal.

Electrical system:

Vapour proof sealed system. All Exterior junction boxes are weather tight
Lighting system meets or exceeds present federal and provincial standards.
Includes side marker lights, turn, back up and stop on tailgate.
All lights are LED seal beam type with shock free rubber mounts.
Electrical junction box at rear of vehicle is enclosed in rear body sill (protected from road spray) and accessible through a cover plate.

Safety Equipment:

Panic bar on hopper sill.
Tailgate open warning light.
6 ¼" Clearance between breaker bar and ram eliminates potential pinch point.
No crusher panel required eliminating safety issues associated with crusher panel.
Rubber grommet mounted back up alarm in lower tailgate is activated by selection of reverse gear or when tailgate is ajar.
Body safety props
Tailgate safety props.

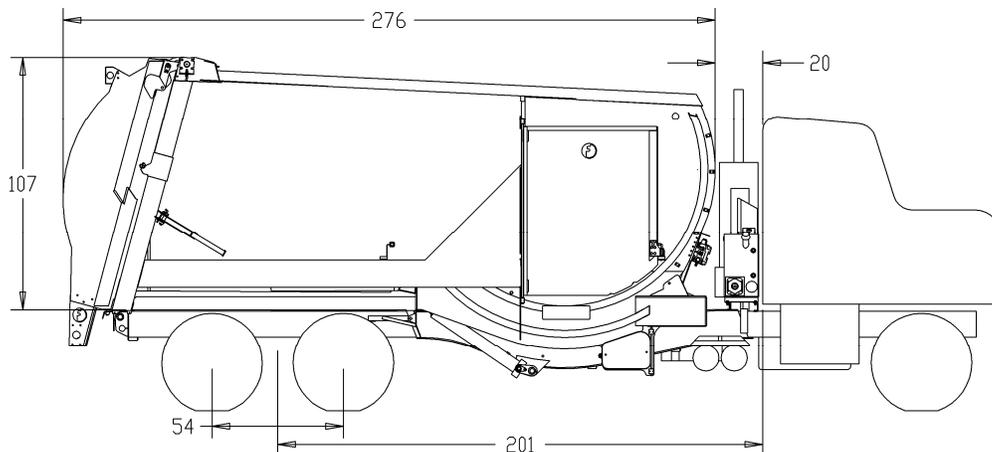
Finish:

Complete body and hopper cleaned and sandblasted.
Two (2) coats epoxy primer.
Two (2) coats urethane paint.

Warranty

Standard: 1-Year.
Body & Packer Structure: 3 Years.
Cylinders: 3 years (Except telescopic)

Note: Parts and components not manufactured by Fanotech will be subject to the original manufactures warranty coverage.
Optional equipment such as cameras scales etc. will be subject to the original manufactures warranty coverage.
Other items not covered by standard warranty include; custom features, steps, switches and lights



Typical 29 cu. yd. layout. Chassis with Vertical Exhaust After Treatment Device (ATD) back of cab.

The above illustration represents a standard equipped unit with no optional equipment. Some dimensions may differ depending on chassis and cab configuration and unladen frame height.
Confirm dimensions with engineering department before finalizing order.