



Since 1948

Tundra[®] LTX Hydraulic Pump

Reliable liquid manure transfer system from Patz.

The Tundra[®] LTX Pump will go great lengths to work for you!

- Transfers liquid manure up to 2000 ft. and pumps up to 227 GPM.
- Works well with sand or sawdust laden liquid manure.
- Move manure through the largest diameter stainless steel cylinder in the industry.
- Automatic Reciprocating Valve (ARV) has no additional external moving parts, allowing for a smooth reversing action. ARV is a one-piece, maintenance-free design.
- Gain maximum volume efficiency with (ARV) using all the stroke of the 48" cylinder. Extended lifespan with oil lubricated seals.
- Energy Efficient – Hydraulic Power unit powers pump using a 5 or 7-1/2 HP.



**Let Patz handle
your manure so you
don't have to!**

MANURESOLUTIONS
www.patzcorp.com

**FLEXIBLE PAYMENT
PLANS AVAILABLE.
ASK FOR DETAILS.**

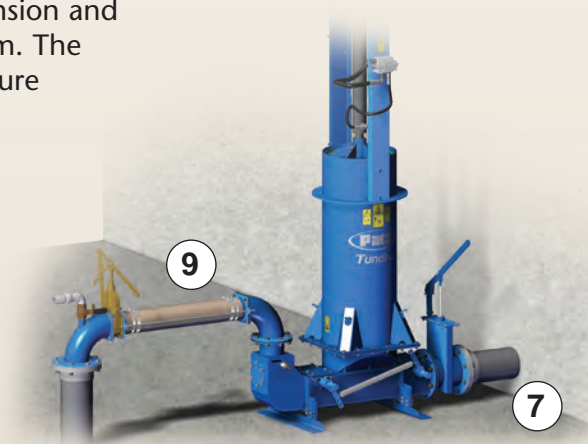


Simply designed for less maintenance and long life.

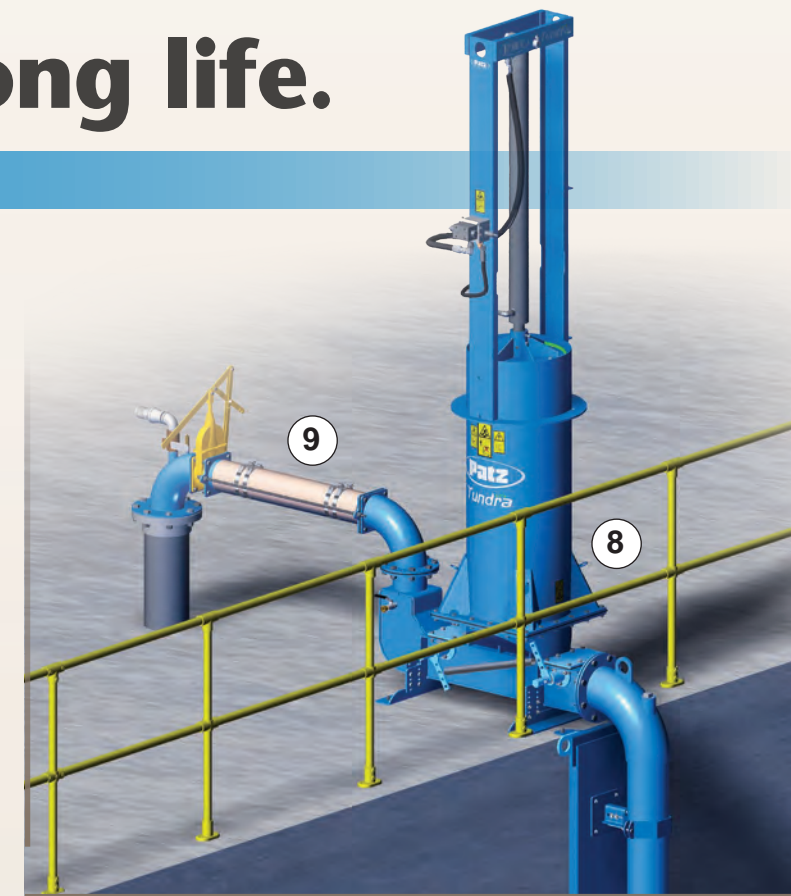
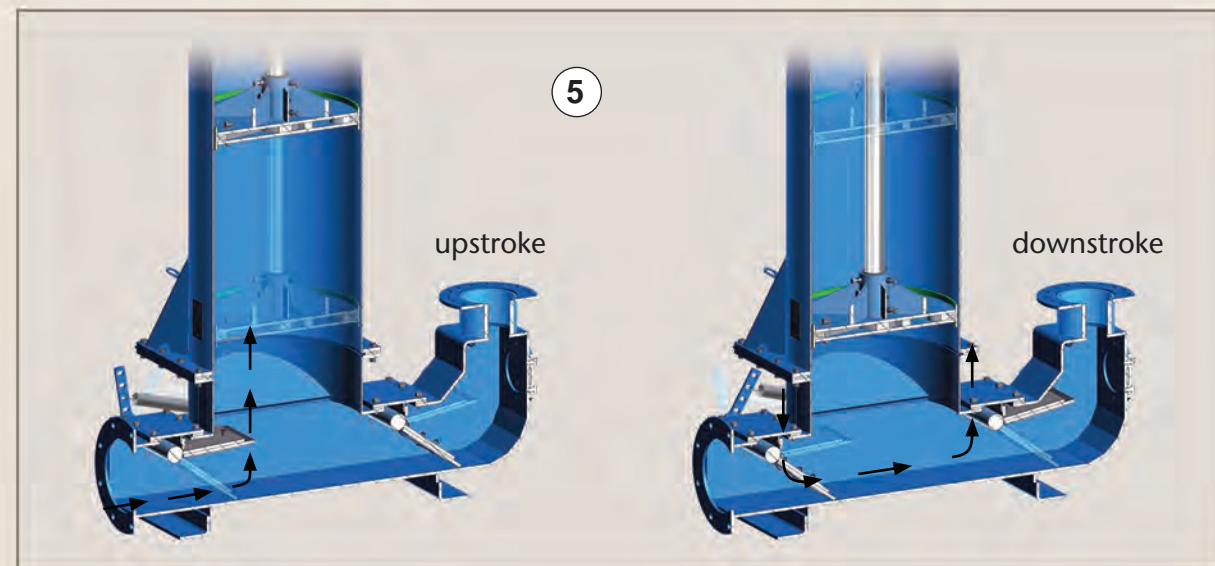
Standard features of the Patz Tundra® LTX.

These features give the Tundra® LTX a reliable performance.

- 1 Ideal for retro-fitting and upgrading dairy and hog operations due to its **compact footprint**.
- 2 Transfer liquid manure up to 2000 ft. through the largest diameter **stainless steel cylinder** in the industry. Can pump up to 227 GPM.
- 3 Two abrasion resisting oil lubricated urethane seals in the manure **piston** allow for maximum pumping performance and extended lifespan.
- 4 The **hydraulic cylinder** (with 3.5" bore x 48" stroke) provides pressure to draw manure into the pump chamber during upstroke, while pushing manure out during the down stroke.
- 5 Higher efficiency **spring loaded flapper valves** with a thick **neoprene seal**. Easy adjustments can be made to spring tension and quick closure with an external extension spring closing system. The intake and outlet flappers are activated by vacuum and pressure produced by manure piston.
- 6 No adjustments needed with a one piece, automatic reciprocating valve that has "plug and play" design and self-actuates.
- 7 **Flooded Inlet Kit** includes an 8" knife gate valve diameter, SCH 80 PVC pipe, which extends through the concrete wall of the reception pit/tank and attaches to the basic unit on the floor.



How It Works ...



- 8 **Suction inlet kit** mounts to wall of the reception pit and attaches to the basic unit with 90° steel elbow and pipe.
- 9 **6" discharge kit**. Includes a gate valve, flexible hose, and a 90° air blow elbow.
- 10 Easy access to flapper valves for servicing/cleaning with three **service plates**. Also handy for removal of large foreign objects that may obstruct valves.
- 11 **Hydraulic power unit** uses a foot-mounted motor coupled to a gear pump to deliver hydraulic power to the Tundra® LTX. Easier installation and serviceability with this design. Works well with single or three phase 5 or 7-1/2 HP motors.

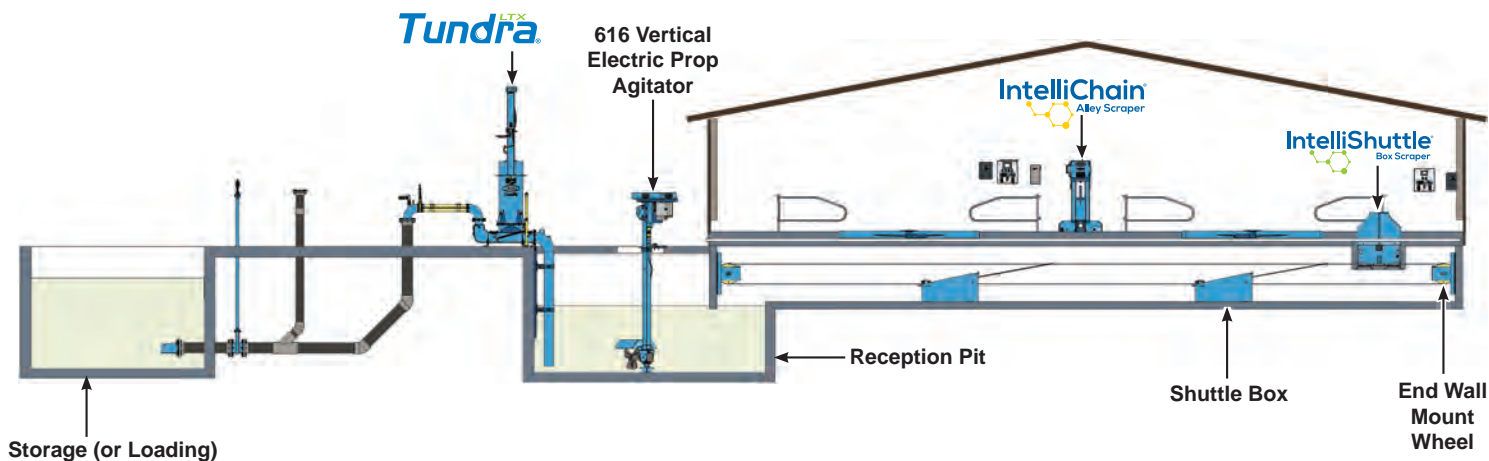


One of many components Patz offers for your operation's manure handling system.

Tundra® LTX Hydraulic Pump

The **Tundra® LTX Pump** is designed to transfer liquid manure with limited amounts of short bedding. Bedding can be chopped straw, sawdust, shavings, or sand. The **Tundra® LTX Pump**.

Manure Handling System Layout



CONFINED SPACE PROCEDURES:

It is the responsibility of the owner/operator to comply with all local, State, Provincial or National standards, directives and industry practices regarding confined space training, education, and procedures.



CAUTION: Never operate Patz equipment without all shields and guards in place. Safety is no accident. Before operating any piece of equipment, be sure to read and understand the operator's manual. This manual should be kept with the machine at all times. Additionally, make sure all safety shields and devices are functioning properly and are securely in place.



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Patz®

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Proven Performance You Can Count On!

Patz Corporation

917 Business 141, POB 7 • Pound, Wisconsin 54161-0007

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1512 Manure Pump



Since 1948

Patz Manure Systems - an investment that pays!

- Reduce Fertilizer Costs
- Save Time by Ending Daily Hauling
- Provide Comfort and Convenience

Farmers report several benefits from manure handling systems that include a Patz Manure Pump moving manure through PVC pipe underground to a manure storage basin.

- Preserving the valuable nutrients of the manure to cut fertilizer costs.
- Manure handling with in-the-barn comfort.
- Long-term storage allows spreading manure when desired; you control the manure, it doesn't control you!
- Figure 2 - 2½ cubic feet per day of manure storage for each dairy cow.

Ask your Patz dealer for more information.



Move Manure to Storage Quickly and Easily

End daily hauling; preserve valuable nutrients.

Storing manure has become attractive and profitable. The key to successful management of manure is an efficient system of moving it to storage.

The Patz 1512 Manure Pump is designed to handle manure ranging in consistency from free-flowing liquid to slurry with fine-cut bedding. Liquid manure has up to 5% solids, and slurry manure has 4% to 15% solids.



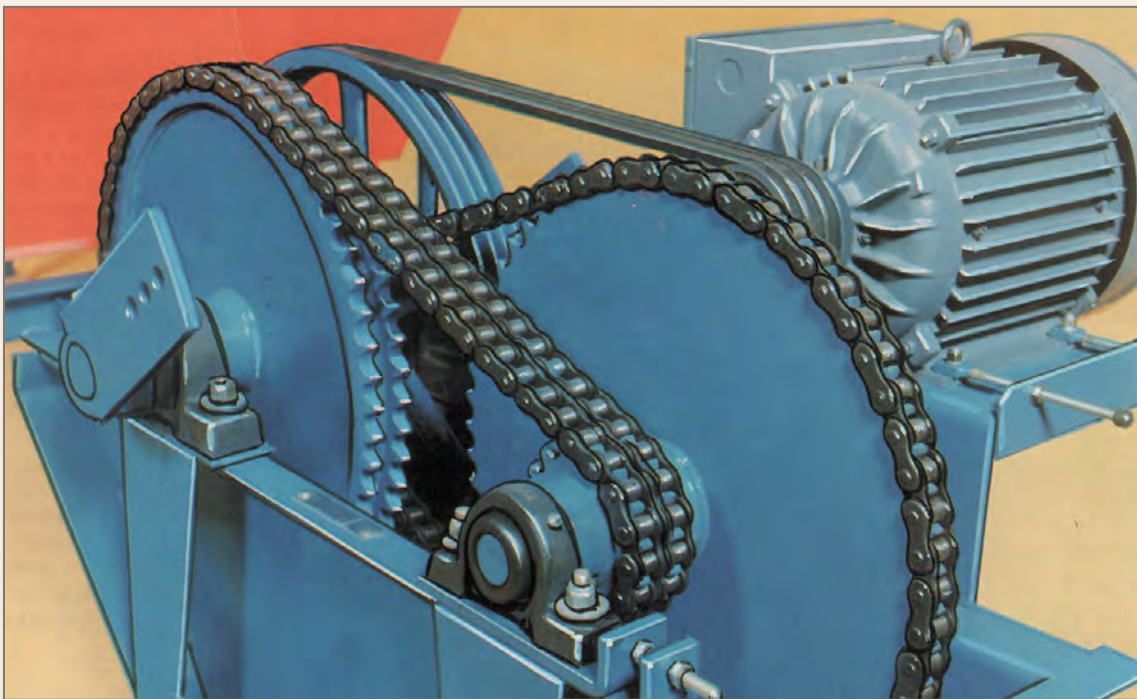
Optional **in-line valve** provides a positive shutoff to prevent backflow.

Saving time and manure nutrients is easy with the Patz 1512 Manure Pump. Manure drops into the hopper from a gutter cleaner, or gets scraped to the hopper. A plunger forces manure through PVC pipe to storage.

The Patz manure pump is designed for easy maintenance. Both the plunger and plunger sleeve can be removed for inspection. An optional in-line valve installs in the 12-inch or 15-inch PVC pipe buried up to 8 feet deep as a shutoff valve. Install if a backflow is possible. An optional flapper valve mounts to the end of the PVC pipe in the holding area to prevent manure from flowing back into the pipe.

Note: Manure too dry to flow may require the addition of water. Manure pumps are not designed for pumping box stall manure, ensilage, hay, wood shavings, lime, sand, crushed rock, etc.





Drive Unit uses 10 hp. electric motor. Plunger driven through triple V-belt, double #100 roller chain-and-sprocket drive unit. Large 2-1/2 inch and 1-3/4 inch shafts plus high quality bearings assure durable operation. (Guard removed for viewing).

Specifications

Capacity
Up to 50 gal./min.

Plunger Size
7 x 15 in.

Stroke Lengths
20 in., 17 in., and 14 in.

Hole Size for Pump Installation
5 ft. wide x 14 ft. long x 7 ft. 3 in. deep (approx.)

Floor Space Required for Pump
3 ft. 2 in. x 11 ft. (approx.)

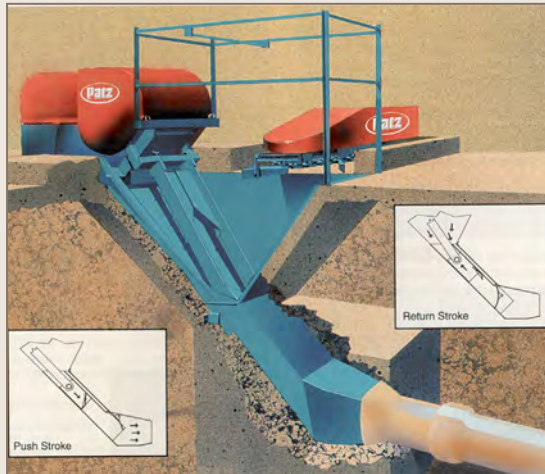
Weight
2350 lbs. (approx.)

Safety Railing
Standard equipment.

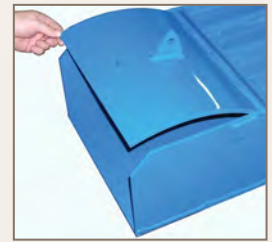
Pipe Length
Recommended maximum length of pipe with no elbows, 150 ft. Deduct 5 ft. for each 22-1/2° elbow used and 10 ft for each 45° elbow. Up to 90° of elbows may be used in one installation.

Pipe Size
Choose 12" or 15" PVC pipe.

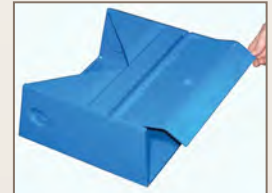
Storage Height (Head)
Maximum storage height (head) is 25 ft. This is measured from center line of pipe at manure pump to top of manure in storage area.



180 (U.S.) gallon hopper can be filled by gutter cleaner or scraper. Constructed of 1/8-inch steel. Approximately 3 ft. by 7 ft. opening at top.



Plunger sleeve with internally functioning plunger mounts in 1/4-inch thick steel chamber embedded in concrete. Plunger and plunger sleeve may be removed for easy servicing without concrete breakup.



One way valve in plunger opens to fill plunger sleeve on backward stroke. On forward stroke, valve closes and the plunger forces the manure toward storage facility.



Fiberglass cover guard does not rust and provides long service life.



Since 1948



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Since 1948

Tundra® Pro II Hydraulic Pump

Going the distance! Trouble-free slurry manure transfer.

Tundra® Pro II Pump is designed with your operation in mind!

- Great for sand or sawdust laden slurry manure.
- Consistently transfers slurry manure long distances – up to 600 ft.
- Largest diameter stainless steel cylinder in the industry—moves more manure more efficiently.
- Automatic Reciprocating Valve for smooth reversing action. One-piece, maintenance-free adjustment free design—no additional external moving parts.
- Energy efficient – Hydraulic Power unit powers pump using a 5 or 7-1/2 HP.
- Cylinder's piston includes oil lubricated seals for maximum volume efficiency and extended lifespan.
- Up to 150 GPM pumping capacity.



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MANURE SOLUTIONS
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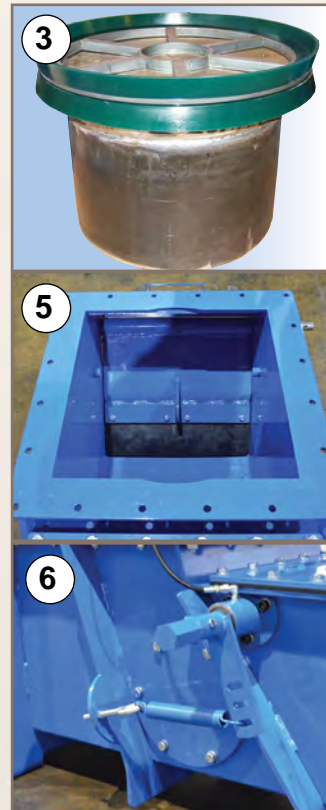


Simple Design for Years of Reliable Performance!

Standard features of the Patz Tundra® Pro II.

Enjoy dependable performance from the Tundra® Pro II with these user-friendly features!

- 1 **Compact, small footprint** ideal for retro-fitting and upgrading dairy and hog operations.
- 2 Largest diameter **stainless steel cylinder** in the industry—moves more manure more efficiently. Transfers slurry manure up to 600 ft. Up to 150 GPM pump capacity.
- 3 **Piston** includes two abrasion resisting oil lubricated seals for maximum pumping performance and extended lifespan. **Seals** are oxygen and ozone resisting.
- 4 The 4" bore x 48" stroke **hydraulic cylinder** provides pressure to draw manure into the pump chamber during the upstroke and push manure out during the downstroke.
- 5 **Inlet flapper valve** with thick **neoprene seal** to positively shut against stainless steel pipe, helping material flow into the inlet pipe and maintain a suction seal in the inlet. Acts as a check valve so that manure only flows toward the storage.
- 6 **Spring loaded outlet flapper valve** with thick **neoprene seal** prevents back flow. External extension spring closing system allows for easy adjustments to spring tension and quick closure. The intake and outlet flappers are activated by vacuum and by manure.
- 7 One piece, **automatic reciprocating valve** 'plug and play' design requires no adjustments and self actuates.
- 8 **Suction inlet kit** is a 16" dia. steel pipe with 90° elbow by 8' long. Extends through concrete wall of reception pit and attaches to basic unit inside the pump annex. Line coupler, 16" gate handle kit, and valve included.



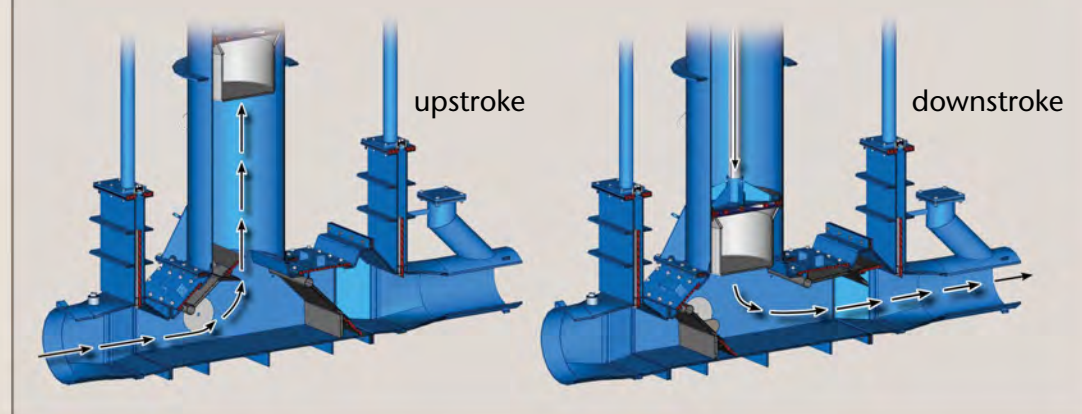
- 9 **Hopper inlet kit** mounts to inside wall(s) of pump annex and attaches to basic unit with 90° steel elbow. For scraping into or using a gutter cleaner. Includes 750 gallon hopper which is self supporting from the floor, valve, and 16" gate handle kit.



- 10 **Discharge valve** connects to outlet of basic unit. Has a lever actuated knife valve and an adapter for the air blow system. Necks down to either 12" steel pipe or 16" steel pipe.
- 11 **Discharge pipe kit** attaches to discharge valve of appropriate size. Choice of (2) diameters and (2) lengths. Not shown.
- 12 Four **large service plates** allow easy access to valves for servicing and/or cleaning. Service plates are also handy for removal of large foreign objects that may obstruct valves.
- 13 The **Hydraulic power unit** utilizes a foot mounted motor coupled to a gear pump, delivering hydraulic power to the Tundra Pro II. New design allows for easier installation and serviceability. Works with your choice of single or three phase 5 or 7-1/2 HP motors.



How It Works ...

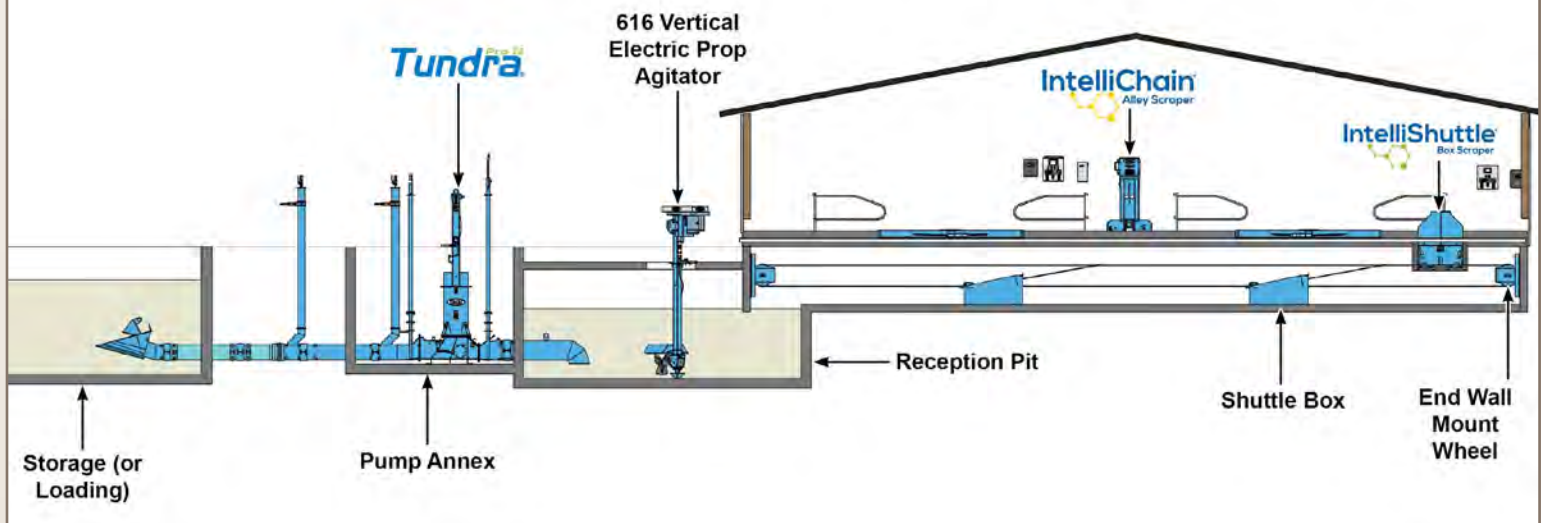


An important part of your operation's manure handling system.

Tundra® Pro II Hydraulic Pump

The **Tundra® Pro II Pump** is designed to transfer slurry type manure with limited amounts of short bedding. Bedding can be chopped straw, sawdust, shavings, or sand. The **Tundra® Pro II Pump** can be fed manure via a Patz Gutter Cleaner or skid steer into a hopper, or via a Patz IntelliShuttle® Box Scraper located in the cross gutter filling a reception pit.

Manure Handling System Layout



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