

PUMPS AND PROP AGITATORS



Shown with optional telescoping legs.



BALZER *INC.* 

STEWARDS FOR  ENVIRONMENTS

MAGNUM LAGOON PUMPS

Balzer Magnum Lagoon Pump

– features the Balzer vertical positioned Super 150 Impeller, 19” horizontal prop, patented chopping system, adjustable pressure plate and 350 degree rotating orbit motor driven agitation nozzle. Impeller positioning and larger and heavier foot plate allow powerful agitation and pump out closer to the bottom of the pit

The Balzer Magnum pump is available in 38’, 48’ and 58’ lengths with either 540 or 1000 rpm pto.

Magnum also features:

- Lower driveline is 304 stainless steel, with mechanical tungsten carbide seal.
- Skid plate prevents accidental bottoming out of impeller housing.
- Internal flapper valve is hydraulically controlled. You can change from agitation to load under full power (38’, 48’ and 58’ only) with no problem.
- Durable Magnum drive shaft is 4” O.D. with heavy duty bearings and u-joints every 10” to eliminate shaft vibration for smoother, more efficient operation.
- Agitation nozzle now rotates 325 horizontal degrees to allow maximum control for complete pit agitation. Vertical movement is 70 degrees. Both vertical and horizontal functions are controlled hydraulically. The agitation nozzle has straightening vanes internally to keep agitation discharge in a tight pattern. Agitation nozzles come standard with 4” and 3” discharge openings and have quick couplings. Agitation flexible hose is 6” reinforced.
- Pumps raise or lower hydraulically from tractor with a 96” maximum lift via the trailer legs. These legs also act as stabilizers when pump is in operation.
- A 6” diameter discharge pipe connects to a remote load stand or transfer line.
- The hydraulic controls for the agitation nozzle control and load valve are standard. This valve bank can be operated from the lagoon pump or in the tractor cab.
- Note the increased bracing and struts to stabilize and strengthen the longer 48’ and 58’ Balzer pumps. Compare this rugged construction with competition and you’ll see why Balzer leads the way. The Balzer 48’ and 58’ pumps also feature two cylinders on the undercarriage to raise and lower the pump by hydraulically extending the trailer legs up to 96”. The legs then act as stabilizers during agitating and pumping.

Balzer Lagoon pumps are available with:

RAISED AGITATION GUNS - designed especially for crusty lagoons such as in dairy operations. The agitation nozzle is near the surface of the lagoon so that the agitation stream can be directed at the top crust to break it up efficiently .



BOTTOM AGITATION GUNS - this model is especially effective for use in lagoons with heavy bottom solids, which are common in swine operations. The gun is located near the bottom of the lagoon so that the agitation stream can be directed at the bottom solids to break them up and homogenize them into the lagoon slurry. This allows the lagoon to be managed more effectively and eliminates diminishing lagoon capacity due to bottom sludge build-up.



POWER - PERFORMANCE & DURABILITY



Shown with optional telescoping legs.
Dual wheels standard on 48' and 58'.



Magnum Pump HP Requirements	
HP Required @ 540 RPM	100 HP
HP Required @ 1000 RPM	140 HP

BALZER STANDARD PUMP FEATURES



1. Heavy duty impellers which are dynamically balanced. Impeller blades are a full 1/2" thick assuring long life.
2. Saw tooth intake aids in shredding chunks as they enter pump. Heavy 3/8" cover plate protects impeller mechanism.
3. Extra agitation can be obtained by removing the cap on the agitation port.
4. Beater impeller breaks up solids and aids in agitation.

5. Balzer Standard Lagoon Pumps are available in 32' and 43' lengths.
6. Skid plate prevents bottoming out if impeller housing.
7. Upper and lower drive lines are 1 3/4" steel with self-aligning bearings.
8. Lower bearing housing is grease packed and utilizes Balzer's Triple Seal System.



NEW FROM BALZER -

THE HIGH PRESSURE LAGOON PUMP - Unbelievable Performance!

Now you can you agitate even the most difficult lagoon and pump directly into an irrigation system, tanker or transfer system a distance away from the lagoon with this amazing new Balzer High Pressure Lagoon Pump. It combines the versatility of the lagoon pump length with the high pressure performance of the Doda/Balzer AFI cast iron venturi housing, impeller and pressure plate system instead of the standard or magnum impeller and housing. This combination increases pressure and performance dramatically allowing you many more options in your manure management system. It's the pump of the future - NOW!



TELESCOPING LEGS OPTION

Hydraulically operated, these legs extend up to 8'. This option is ideal for situations where a round concrete storage facility with vertical sides is used. The Balzer design allows one set of wheels to remain at ground level at the top of the pit while the two sets of duals extend hydraulically to the bottom of the pit. This system provides you with unmatched stability and ease of set-up and operation.



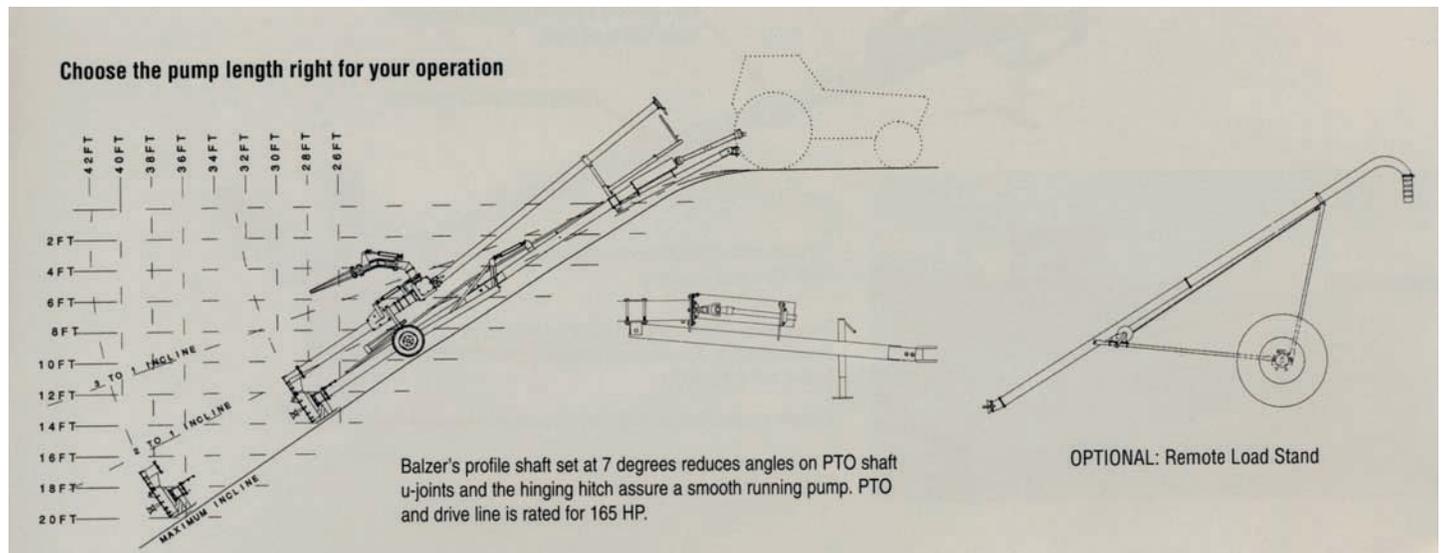
STANDARD CONTROL FOR LOAD OUT

The standard hydraulic valve bank controlling the agitation nozzle horizontal and vertical movement, and agitate and load flapper valve is standard. The valve can be operated on lagoon bank or in tractor cab.



REMOTE CONTROL FOR LOAD OUT

This option allows you to control agitate and load functions from as far away as 75'. Eliminates climbing in and out of tractor and provides precision control of tank loading.



TWO WHEEL AGITATORS

32', and 43' models - 540 or 1000 RPM

The prop agitator from Balzer is ideal for large deep lagoons where powerful agitation is needed to homogenize manure. These prop agitators feature the same rugged reliable drive line system as the lagoon pumps and you can count on high performance.

- 1) The prop agitator lower end includes a housing with oil bath bearings and a front sight glass that can be viewed from the tractor to assure proper lubrication.
- 2) The rear seal is mechanical tungsten carbide for long life.
- 3) OPTIONAL- The front of the prop can be hardened and can do chopping and act as an antirap device. Forged counter blades are installed.

The 48' and 58' prop agitators feature the improved frame and bracing to support the additional length and provide extra durability and strength.

The Balzer Prop Agitator prop is balanced steel helical style design for high performance and efficiency. Three prop sizes - 19", 23-1/2" and 28" to match the agitator to your needs and horsepower requirements.

Three point mounted models are available in 21' and 25' lengths.



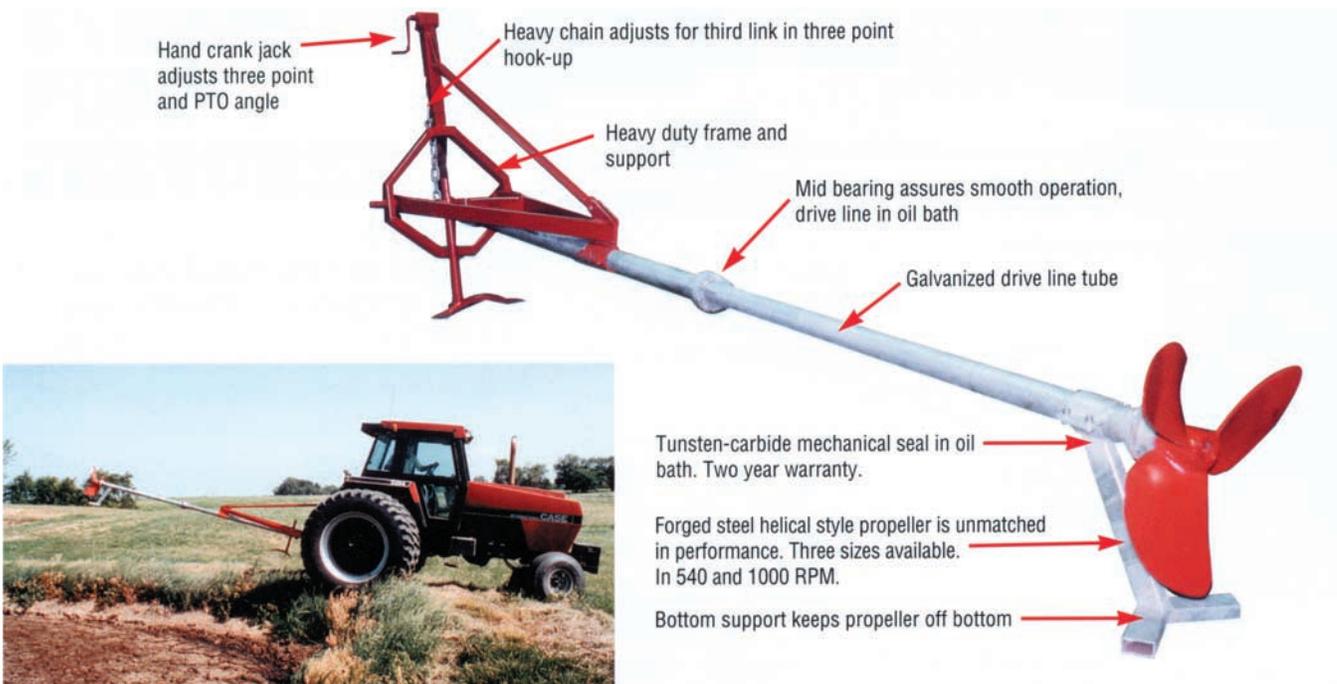
Prop Agitator HP Requirements

Propeller Diameter	19"	23½"	28"
HP Required @ 540 RPM	40-50 HP	75-85 HP	110-120 HP
HP Required @ 1000 RPM	90-100 HP	125-135 HP	160-170 HP

THREE POINT AGITATORS

STANDARD MODEL 540 and 1000 RPM • 17' and 21' Lengths Available.

Here's a three point agitator that handles the toughest agitation problems. Heavy crusts, weeds, bottom solids are no problem. Ease in positioning around your lagoon or storage pit and powerful agitation is what you'll receive with a Balzer Agitator. Select the propeller size suited to your tractor from 40 - 170 HP and see why we say Balzer provides Tomorrow's Technology Today.

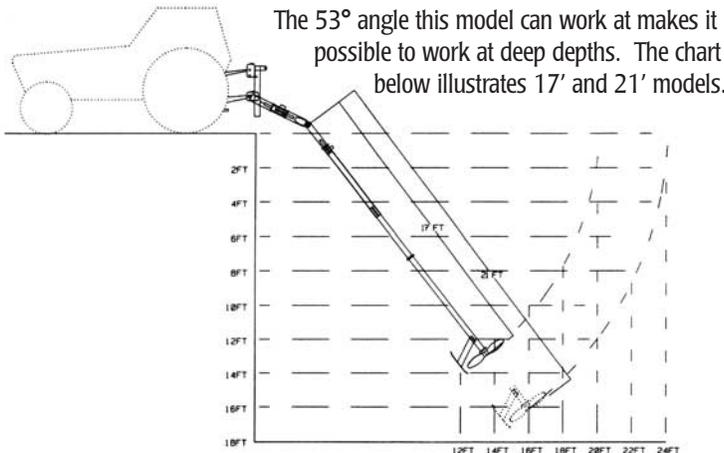


HINGED PROP AGITATORS

HINGING MODEL 540 and 1000 RPM • 17' and 21' Lengths Available



Same great features of our standard model except with a hydraulically hinging frame work. Unit has an additional PTO allowing the agitator to work at extreme angles with no PTO problems. By reducing PTO U-joint angles this model can work at angles up to 53°. It's ideal for vertical walled pits and steep lagoons.



The 130' diameter pit, 12' deep, was dairy and hog waste. A 23" diameter propeller running at 1000 RPM agitated this pit from one location.

Horsepower Requirements

Propeller Diameter	19"	23½"	28"
HP Required @ 540 RPM	40-50 HP	75-85 HP	110-120 HP
HP Required @ 1000 RPM	90-100 HP	125-135 HP	160-170 HP

ALSO FROM **BALZER INC.**

VACUUM TANKS

800 to 10,000 gallons; many options, powerful pumps.

TOP FILL TANKS

2250 to 15,000 gallons; many options to meet your needs.

HORIZONTAL SLURRY PUMPS

PTO, gas or electric for fast, powerful movement of manure.

VERTICAL SLURRY PUMPS

6' to 12'; fill and transfer with these versatile performers.

AERATION SYSTEMS

Homogenization of manure in lagoon; reduces odor & volume.

SPECIAL PRODUCTS FOR SPECIAL NEEDS FROM **BALZER INC.**

CATERPILLAR TRACKS

Minimize compaction with these optional tracks - available on tanks up to 12,000 gallons.

TRUCK MOUNTED TANKS

For cities, municipalities, private haulers, industry and many other uses. The same features as Balzer Trailer Mounted Tanks plus the special equipment needed for these uses.

