

# Chopper Pumps

by



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## Chopper Pumps for the Dairy Industry



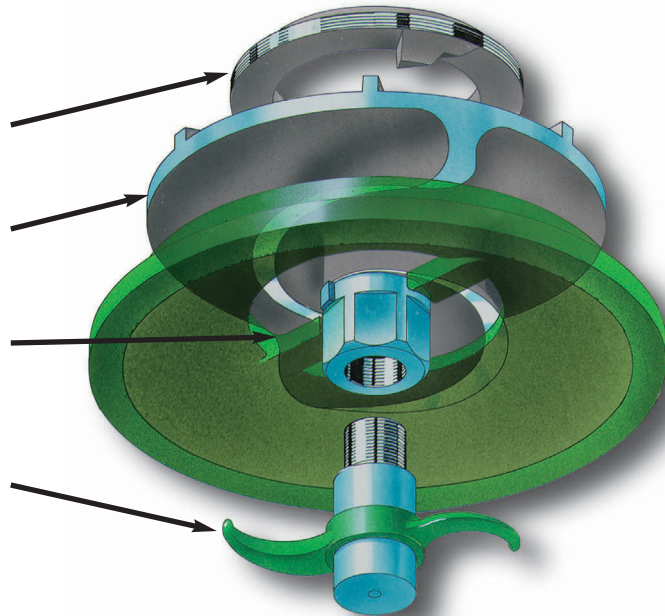


# Why a Vaughan Chopper Pump?

Almost 40 years ago, the late Jim Vaughan had a dream of a better way to pump dairy manure with bedding and baling twine without clogging. Today, his invention, the “chopper pump”, has over 30 patents and is known worldwide in all industries as the pump of choice for reliability in heavy solids pumping. Here’s how it works:

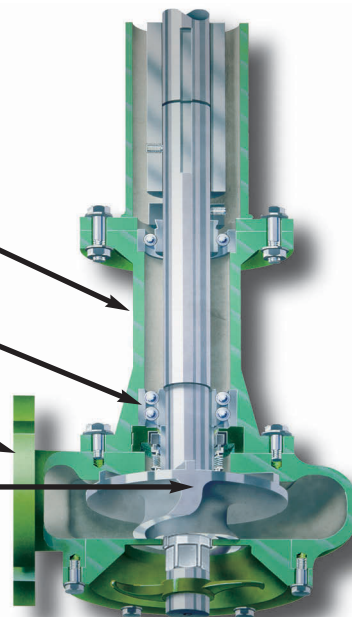
## *The Concept*

- The upper cutter keeps the mechanical seal area clean.
- The chopped solids are easily pumped through the system without clogging.
- Solids are chopped by the sharpened edges of the impeller cutting against the cutter bar.
- The disintegrator tool (optional) breaks up large solids before entering the pump.



## *Features and Benefits*

- **Oil Bath Bearings** - Self cooled and lubricated, needs no water flush.
- **Heavy duty seal and bearing system** - longer life in severe service.
- **Ductile iron casing and bearing housing** - heavy castings for long life.
- **Heat treated cast steel wear parts** - for longer life in abrasive grit service.



# Designs Available from Vaughan



## Vertical Wet Well Chopper Pumps



### Vertical Wet Well

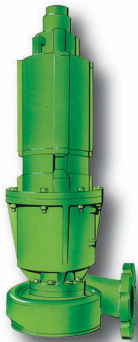
- ❑ Vaughan's most popular sump pump.
- ❑ Sump depths up to 25'.
- ❑ Reliable mechanical seal/oil bath design.
- ❑ Eliminates suction piping.
- ❑ Keeps motor and wiring out of the pit.



### Recirculator

- ❑ Allows 3" - 6" Vaughan Wet Well and Submersible Pumps to be used for mixing/pumpout of pits up to 25' deep.
- ❑ Ideal for mixing of floating or settled solids.

## Submersible Chopper Pumps



### Electric Submersible

- ❑ Separate seal/bearing housing isolates motor from pumpage.
- ❑ Retrofits to most guide rail systems.
- ❑ Ideal for deep sumps.
- ❑ Eliminates visible motor and piping.



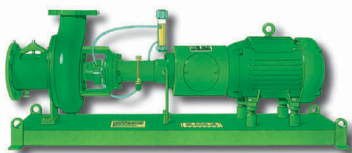
### Hydraulic Submersible

- ❑ Portable pump for tank cleaning.
- ❑ Lighter weight than other submersibles.
- ❑ Ideal for mobile equipment.

## Dry Well Chopper Pumps

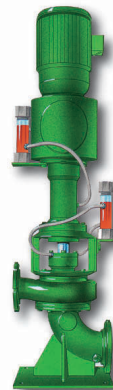
### Horizontal

- ❑ Offers packing or mechanical seal.
- ❑ Available in direct or belt drive.



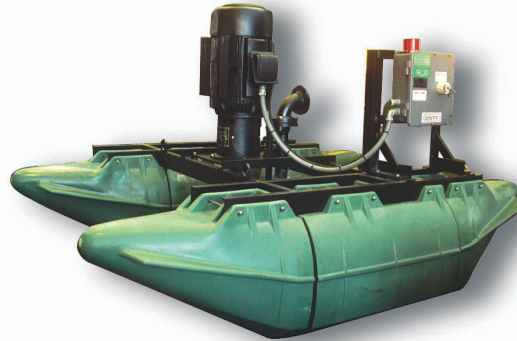
### Vertical Dry Pit

- ❑ Used primarily in dry well applications where floor space is limited.
- ❑ Offers ability to switch from packing to mechanical seal.





## Other Designs Available



### *Unmanned Floating Platform*

The FP26 Unmanned Floating Platform is designed for lagoon maintenance, dewatering, field irrigation, or sludge removal. Any Vaughan Vertical Wet Well pump can be mounted onto the platform, depending on the requirements. Foam filled polyethylene pontoons are weather and water resistant. Optional controls, hoses, sludge manifolds and winching systems are available.

### *Turbo Agitator*

The Turbo Agitator is a directional mixer for sludge pits, designed to efficiently rotate the contents by pulling settled sludge from the bottom and redirecting flow horizontally, causing a circular rotation within the pit. Available with grease pack bearings or oil bath mechanically sealed bearings.

*On the front cover: Vaughan vertical pumps transfer manure from 10,000 dairy cows to separators at Braum's Dairy near Tuttle, Oklahoma.*

YOUR LOCAL DEALER:



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