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Prerostal™

Prerostal is a unique system to provide the pump user with a highly effective self cleaning wet-well system utilizing the Hidrostat Screw Centrifugal Pump.



Prerostal™

Matched Flow and Clean Wet-Well

A method of matching pump outflow to pump station inflow without the need for additional flow control or additional electrical equipment such as inverter drives.

A highly effective sump cleaning system without the need for any additional mechanical or electrical items, such as grinders, bar screens or mixers.



Prerostal

The PREROSTAL Prerotation system is a unique, economical, uncomplicated method of automatically adjusting pumping volume to varying inflow rates using a constant speed motor and pump. It combines the screw centrifugal impeller characteristics of a Hidrostal pump with a specially configured vortex inducing chamber around the suction pipe of the pump. The chamber utilizes gravity to impart a fluid spin in the same direction of rotation as the pump impeller, and this spin produces a flow reduction without the necessity of changing pump speed. This method of matching pump outflow to pump station inflow eliminates the need for any electrical equipment such as inverter drives.

In addition the PREROSTAL system is a highly effective sump cleaning system which does not require any additional items or moving parts. It is the ideal solution for handling variable flow applications with large solids.

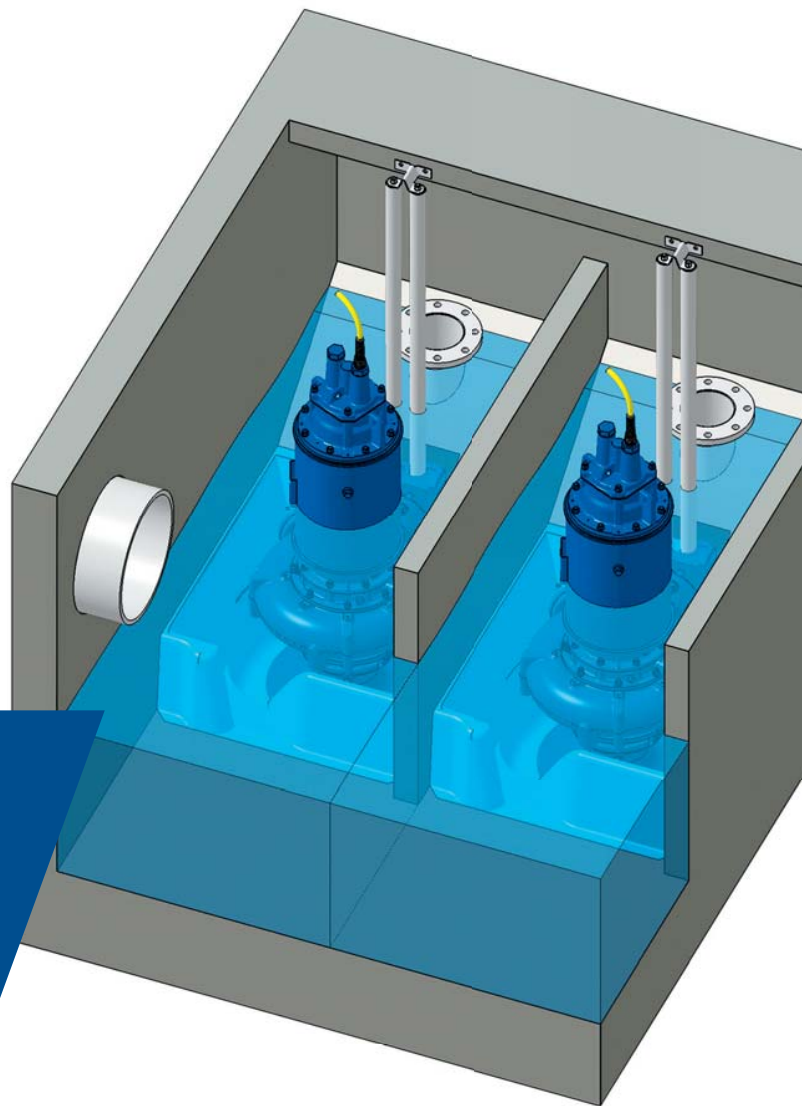
The PREROSTAL system is a proven and cost effective alternative to Archimedes screw pumps or other methods that require complex controls or additional electrical/mechanical devices.

Product Highlights



Product Advantages

- Matches station outflow to inflow using fixed-speed motors
- Automatically removes floating and settled solids
- Shallower pump stations [compared to submersibles with On-Off controls]
- Alternative to Archimedes screw pumps
- Reduced construction costs due to prefabricated basin design



Specifications

- Discharge Sizes: 80 - 500 mm (3 - 20")
- Suction Sizes: 80 - 500 mm (3 - 20")
- Head: 0.5m - 60 m (2 - 200 ft)
- Flow: 2 l/s - 1350 l/s (30 - 21000 gpm)
- Power: 0.1 - 320 kW (0.1 - 430 HP)
- Frequencies: 50 Hz, 60 Hz, VFD
- Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex

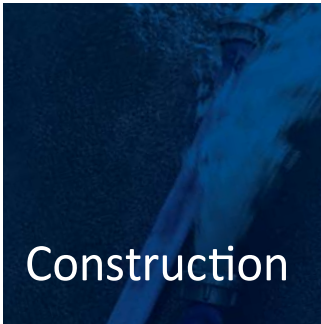
Hidrostal Pumps

Due to their outstanding characteristics, Hidrostal pumps are used in numerous municipal and industrial sectors all around the world. Our pumps are custom-made and are specially tailored to the needs of each location. Our specialists select the suitable material combinations and individually adapt every pump to the local conditions. We ensure with this process that Hidrostal pumps are successful in difficult applications and achieve the best results with respect to performance, energy efficiency and low life-cycle costs.

- clog-free pumping
- high suction capacity
- gentle delivery due to low shear forces
- high efficiency
- stable, steep pump curve
- long service life
- low pulsation
- continuous flow proportional to the speed
- high pressure stability across a wide speed range



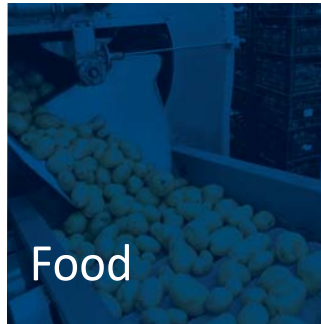
Wastewater



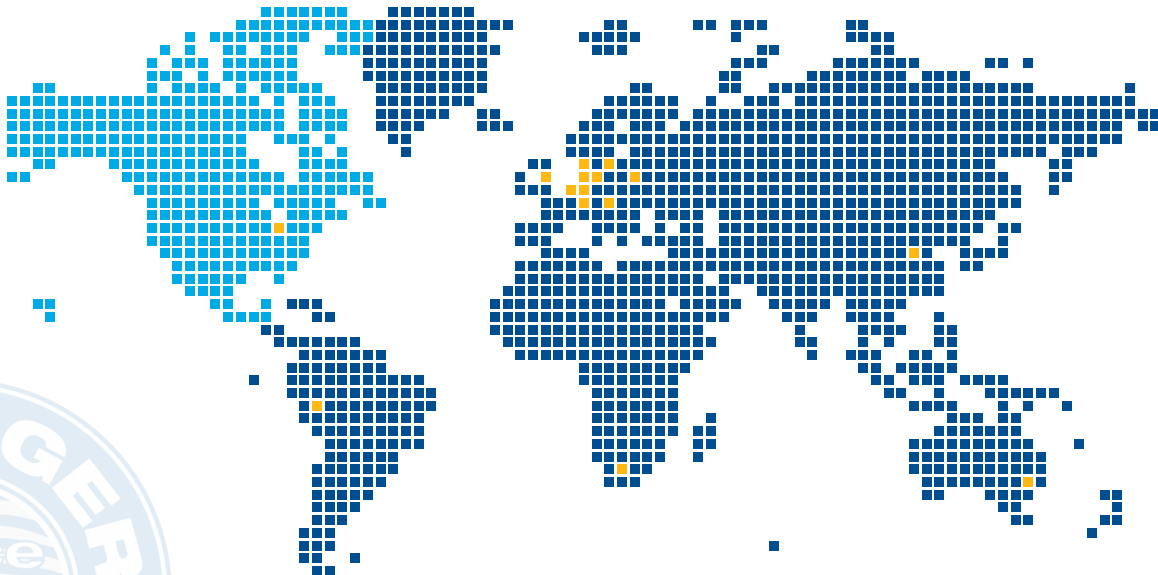
Construction



Industry



Food



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