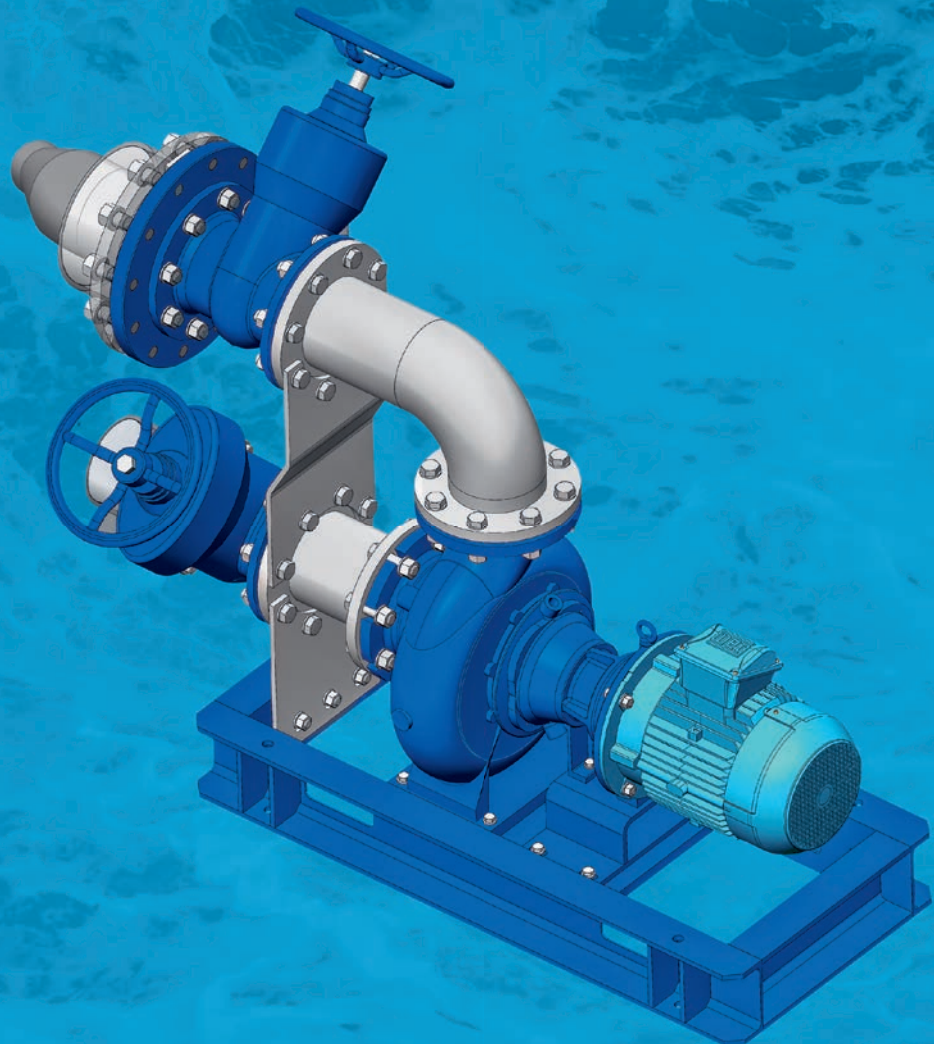




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# Hidromix Pump Mixing Systems

The Alternative to Conventional Submersible & Gas Mixing



# The Alternative to Conventional Submersible & Gas Mixing

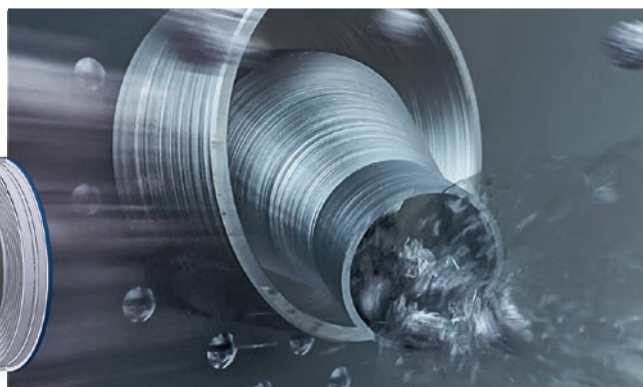
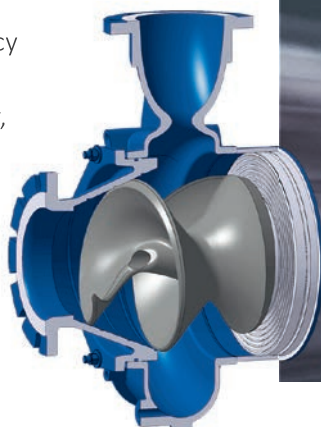
The key objective with any form of sludge storage is to avoid the build up and settlement of wastewater solids within the tank. Hidrostal's Hidromix pump mixing system is one of the simplest and most reliable proven design to achieve this.



The Hidrostal screw centrifugal pump draws sludge from the source and returns it through a nozzle to provide optimum mixing energy and circulation of the tank contents.

Suction points are positioned to draw sludge from dead areas. Discharge points are positioned to promote the most effective circulation.

The high-volume low-pressure efficiency factor achieves a uniform recirculation mix without the need to run constantly, saving both power and running costs.



**Unlike other mixing systems the Hidromix system does not require structural steel work within the tank.**

The system is mounted at ground level and fixed to the outside of the tank. Large diameter nozzles are installed externally through the tank walls. The systems have simple pipework designs with short pipe run resulting in minimum friction losses and the maximum energy imparted to the fluid.

Hidrostal supply the total system including pipework as an offsite manufactured package. Installation is also available if required. The Hidrostal pump mixing solution is based upon the company's well-proven screw centrifugal impeller pump.

## Advantages

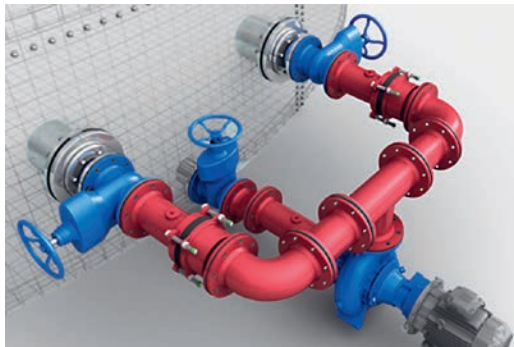
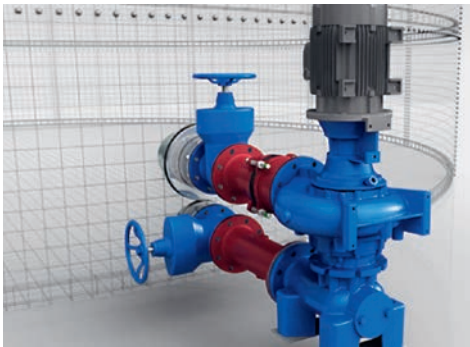
- No moving parts are required in the tank
- Easy access for inspection and maintenance
- Can be fitted to new and existing tanks
- Improved Health & Safety environment
- Large diameter pipework and nozzles for effective solids handling
- Nozzles externally removable without any need for tank entry
- Tank turnover and nozzle energy can be selected to suit sludge characteristics and tank shape
- IP55 motors are cheaper and easier to repair than submersible motors
- IP55 TEFC motors are always to latest highest efficiency class IE3/IE4

# System Design

Each pump mixing solution is a bespoke design to take into account the sludge characteristics and the geometry of the tank.



CFD analysis is available for optimum performance and mix efficiency.



The Hidromix system is easily adapted to fit just about any installation.



- Externally mounted system ensures no tank access is required
- Easily accessible for inspection and maintenance
- Wall mounted pump inlet and outlet pipes eliminate ragging problems
- Offsite manufactured packaged is delivered pre-assembled to save time and cut costs
- Optimum performance can be maintained year after year by on-site adjustment of the impeller clearance to restore efficiency



## Applications

- Balancing tanks
- Sludge storage tanks
- Mixing & tanker loading
- Mixing & sludge transfer

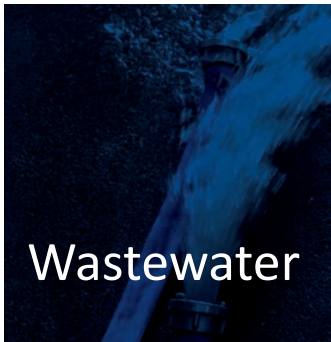
# Hidrostal pumps

Make a quick and accurate  
pump selection:  
[hidrostal.com/pumpselector.php](http://hidrostal.com/pumpselector.php)



Hidrostal pumps are used in numerous branches and industries due to their excellent pumping characteristics. They convey a wide variety of liquids and materials with low pulsation and gentle handling. Our specialists select the suitable material combinations and adapt each pump individually to the conditions on site. This approach ensures that Hidrostal pumps prove their worth even in difficult applications and thus achieve the best results in terms of efficiency, energy efficiency and low life cycle costs.

- Non-clogging delivery
- High suction capacity
- Gentle conveying due to low shear forces
- High efficiency
- Stable characteristic curve
- Long service life
- Low pulsation
- Continuous, speed proportional conveying
- High pressure stability



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**Hidrostal**  
Pioneers in Pump Technology