

The logo for Hydrostal, featuring the word "Hydrostal" in a white, italicized, sans-serif font with a horizontal line through the middle of the letters, set against a blue rectangular background.

Hydrostal

Providing Screw Centrifugal Impeller Solutions



The impeller geometry and free passage is designed to cope with solids laden liquids especially those solids that are raggy and fibrous.



The gentle handling impeller is designed for pumping delicate produce, for example fish, fruit, vegetables and crystals/crystalline slurries, without damage.

Reducing The Cost Of Pumping

When it comes to providing the most cost effective and appropriate pumping solution no one does it better than Hidrostal.

The screw centrifugal impeller has been designed to minimise Life Cycle Costs (LCC). And by applying its industry knowledge, technical expertise and wide range of engineering skills, Hidrostal really does understand pumping problems and is able to solve them.

Every aspect of a contract can be undertaken:

- Concept
- Design
- Manufacture
- Installation
- Commissioning
- Service

Hidrostal The No Worry Solution

Hidrostal provide support throughout the life of a project. The mechanical & electrical design, development and installation services are complemented by after sales service and support capabilities.

- On-going consultancy
- Technical support
- Maintenance & repair
- Operator & maintenance training
- Spares







Axial Flow Pumps

Axial flow pumps are designed for low head applications up to 10m, and flows from 30 to 1100 l/s. Based around the standard range of screw centrifugal submersible pumps, the volute on the low pressure version is replaced with a casing having an axial discharge enabling the pumps to be installed in a tube or concrete chamber.



Immersible Pumps

The immersible pumps are a versatile, innovative development of the established submersible range. Capable of continuous operation in a dry installation, the immersibles may be operated with equal efficiency when fully or partially submerged. The pumps are particularly suited for dry pit applications and installations where quiet running, clean surroundings, reliable and long trouble-free operation is required. The pumps may be installed vertically or horizontally.



Flywheels

For surge control in pipelines, submersible and immersible pumps are available with flywheels. Also available on end suction pumps.

Aerators & Storm Tank Cleaning

V02 Venturi aerators are driven by Hidrostat pumps. They are available as free standing, guide rail mounted, externally mounted on above ground tanks, portable or floating units, providing an efficient and economic solution for:

- Provision of oxygen for the biological treatment of polluted effluents
- Rejuvenation of oxygen depleted water
- Enhancement of chemical reactions
- Powerful mixing of tank or lagoon contents.



End Suction

Hidrostal offer two dist being suitable for horiz mounting. The direct a flange mounted mot having convenient mai The long coupled moc heavy duty design. Bc Hidrostal's wide choic and shaft sealing optic



Direct Coupled

The direct flange mour onto the bearing frame the possibility of shaft additional security, a fl also employed. The ur horizontal and vertical pull out design means unit, including the mot withdrawn for inspecti the hydraulic end. Ava branch sizes of 50 to 6



Long Coupled

The long coupled pumps are of a traditional design, offering robust construction and long reliable service for both vertical and horizontal mounting. The bearing housing is of modular construction, permitting various arrangements of mechanical seal or soft packing to be used. The shaft end bearings have been selected to be used with belt drives and yet maintain long bearing lives.





Prerostal Flow Matching & Sump Cleaning System

The PREROSTAL SYSTEM is a unique method of adjusting pumping rate to match varying inflows using constant speed motors and the Hidrostal immersible screw centrifugal pump. In addition, it automatically cleans the sump of floating and settled solids eliminating sump maintenance and reducing odour. The Prerostal System is a proven alternative to Archimedean screw pumps and Variable Speed Drives (VSDs).



Diesel Engine Driven Self-priming Pumps (Betsy)

Betsy' is a truly versatile and universal self-priming pump package designed around the Hidrostal screw centrifugal pump, to meet the needs of emergency and project-based pumping.

- Self priming diesel driven pump set
- Pumps clean liquids, rag-laden sewage & viscous sludges
- Electronic vacuum priming system means pump runs only when needed
- Patented electronic controls
- Automatic start/stop by level control on suction or discharge side
- Low fuel consumption (up to 50% lower than conventional 'dirty' water pumps)
- Fully bunded fuel tank placed in acoustic canopy
- Low noise emissions (from 55 dB at 7 m)
- Skid or Trailer mounted
- Range from 100 m to 250 m

Due to the patented electronic controls it is possible to monitor Betsy's operation remotely. This can be achieved by interfacing a telemetry system with the control module.



Packaged Pumping Stations

A range of fully self-contained pump stations are available with single or twin Hidrostal submersible pumps, complete with pipework, valves and level controls. The pumps are installed in strong corrosion resistant chambers, suitable for burial underground and fitted with access covers. Special versions are available for mounting in dry areas such as cellars or basements.



Unlike other mixing systems, the any pipework or structural steel inlet and outlet pipes mounted or to collect rags or encourage the floor. As a result of these features Every Hidrostral mixing installation account the sludge characteristic Proposals can be based on CFD analyses to ensure that the pump optimised. For large tanks, we c where there is the opportunity to heights and discharge angles.

Fish & Food Pumps



Originally developed for pumping the processing plant, the Hidrostral proved to be ideal for a wide range including fruit, vegetable, fish, and refining industries.

The impeller consists of a single the suction of the pump. Gentle l materials is guaranteed by the ve angles which give gradual press

