EN

Horizontal and Vertical End Suction Pumps

A range of versatile, energy efficient bearing frame pumps, suitable for horizontal or vertical mounting and incorporating the Hidrostal Screw Centrifugal Impeller.

Bearing Frame Pumps: Horizontal and Vertical End Suction Pumps

Hidrostal offers two distinct end suction pump designs. Both designs are suitable for horizontal or vertical mounting.

Direct / Close Coupled End Suction Pump

The direct flange mounted motor is spigoted onto the bearing frame and eliminates the possibility of shaft misalignment. As additional security, a flexible coupling is also employed. The units are suitable for horizontal and vertical mounting and the back pull out design means the complete rotating unit, including the motor, can be simply withdrawn for inspection and maintenance of the hydraulic end. Available for pumps with dischange sizes of 50 to 700 mm (2 to 28").

Long Coupled End Suction Pumps

The long coupled end suction pumps are of a traditional design, offering robust construction and long reliable service for both vertical and horizontal mounting. The standard construction has grease lubricated bearings, and oil lubrication can be provided on horizontal units to meet the requirements of process industries. The bearing housing is of modular construction, permitting various arrangements of mechanical seals 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.

Product Highlights

Typical Applications

- Industrial effluent
- Raw unscreened sewage
- Viscous sludge
- Return activated sludge
- Drainage and storm water
- Process waste
- Sump cleanup
- Bacterial floc
- Live fish
- Fruits and vegetables

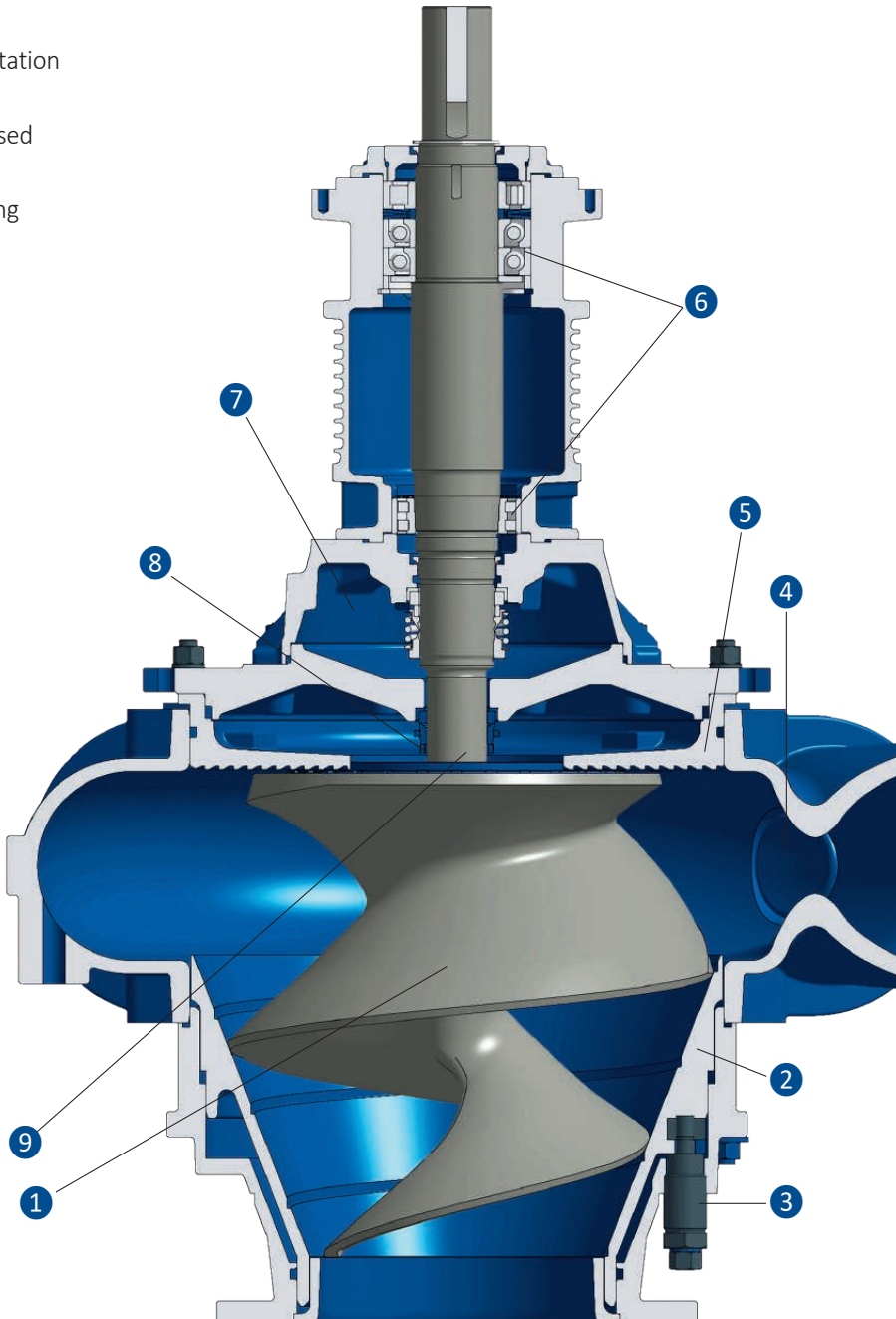
Specifications

- Discharge Sizes: 32 - 700 mm (1.5 - 28")
- Suction Sizes: 32 - 700 mm (1.5 - 28")
- Head: 0.5 - 90 m (2- 300 ft)
- Flow: 0.5 - 3000 l/s (7 - 47500 gpm)
- Power: 0.1 - 650 kW (0.1 - 870 HP)
- Frequencies: 50 Hz, 60 Hz, VFD
- Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex

Advantages

- Direct access to the pump and to the instrumentation
- Maintenance in a clean environment
- Commercially-available drive elements can be used
- Robust construction for smooth operation
- Back pull-out design means the complete rotating unit can be simply withdrawn for inspection and maintenance of the hydraulic end
- Heavy duty bearings for superior L-10 bearing life in both direct or belt driven applications

1. Heavy duty impeller
2. Optional adjustable replaceable liner
3. External regulating nuts
4. Inspection port
5. Back pull-out design
6. Heavy duty bearings
7. Oversized integrated seal oil chamber
8. Multiple sealing options
9. Tapered shaft

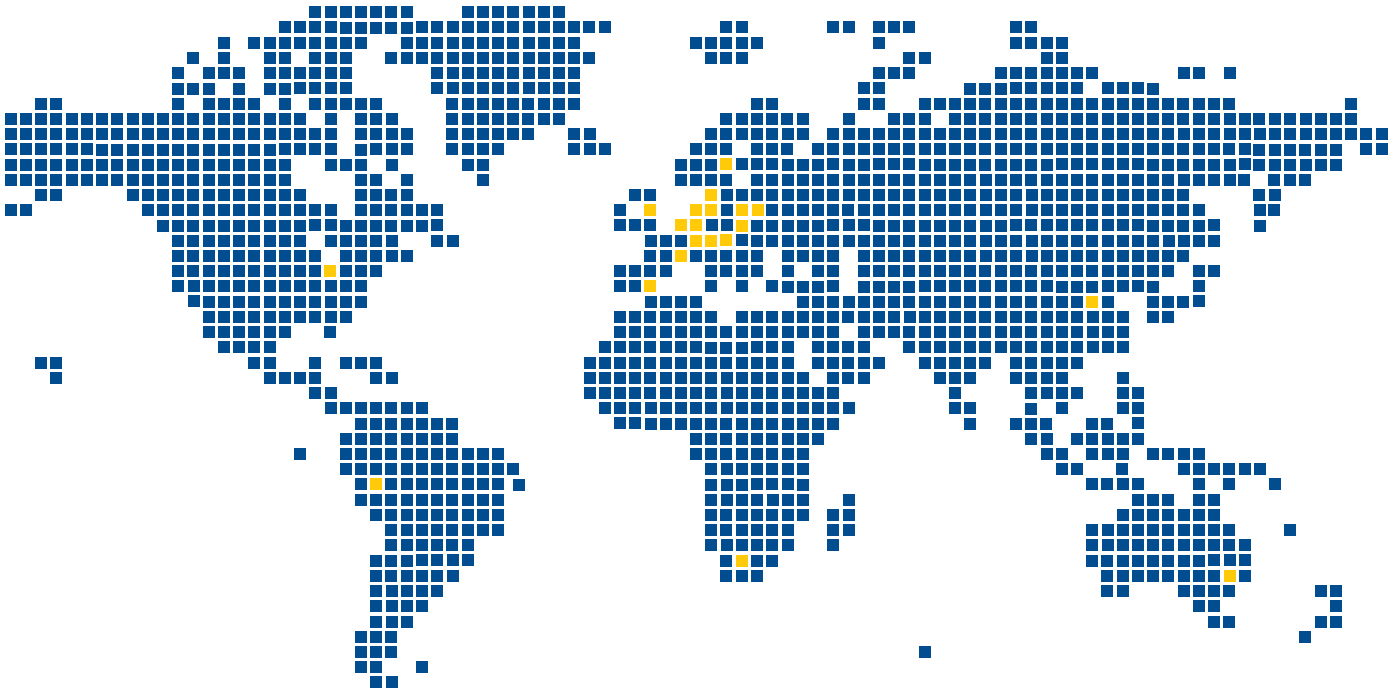


Hidrostal Pumps

Make a quick and accurate pump selection:
www.hidrostal.com/pumpselector.php

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
- continous flow proportional to the speed
- high pressure stability across a wide speed range



info@hidrostal.com
www.hidrostal.com

Hidrostal
Pioneers in Pump Technology

PR08977EN-Horizontalandvertical