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and vertical mounting and the back pull out design means the complete rotating unit, including the motor, can be simply withdrawn for inspection and maintenance of the hydraulic end.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 discharge 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→ Back pull-out design means the complete rotating unit can be simply withdrawn for inspection and maintenance of the hydraulic end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
Due to their outstanding characteristics, Hidrostal pumps are used in numerous municipal and industrial sectors. They pump the most diverse fluids and materials gently and with low pulsation. 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.

Hidrostal Pump Applications

Wastewater

- Wastewater collection
- Wastewater & sewage-sludge treatment
- Industrial wastewater
- Manure
- Ship wastewater

Industry

- Paper
- Cellulose & Chips
- Biomass
- Oil and gas
- Adhesives
- Paint
- Plastic granulates
- Solvents
- Swarf and cooling lubricants
- Brine

Construction

- Dewatering & drainage
- Bentonite
- Sewer rerouting
- Mine drainage
- Water intake & power
- Flood protection

Food

- Fruits
- Vegetables
- Live fish
- Brewery
- Molasses
- Oils and pastes
- Gels

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Pumps from Hidrostal are used all around the world. Our pumps are custom-made and are specially tailored to the needs of each location. With this procedure we achieve a high level of operational effectiveness and excellent energy efficiency. It is always worth investing in a Hidrostal pump in the long run because our pumps are low-maintenance, they almost never clog, and their long service life is unique. Depending on the location, our clients are assisted by one of our subsidiary companies or sales partners. You will find your contact at www.hidrostal.com

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