

Sewage Submersible Pumps



Sewage Non Clog Submersible Pumps

Features:

- ✓ **Energy Efficiency :** High efficiency motor, hydraulics, low friction bearings - reduced power loss.
- ✓ **Safety and monitoring features:** Thermal, vibration and moisture controls and monitoring with internal and external cooling.
- ✓ **Custom built designs:**
 - Pump hydraulics - vortex impeller, cutters, dredgers.
 - Motor - To suit VSD/other starting.
 - Corrosion and abrasion resistant materials.
- ✓ **Robustness and durability:** Heavy and rigid stainless steel shaft, high LTO heavy duty bearings vibration free operation. Higher thickness pressure castings.
- ✓ **Serviceability:** Modular designs - lower spare parts inventory. External inspection parts - quick and easy evaluation during service.
- ✓ **Reliability:** Maximum durability with Double mechanical seals. Double cable entry-seal system - no moisture entry.
- ✓ **Wear Resistance:** Stainless steel impeller, shaft and hardware, adjustable wear parts - long life and high efficiency.
- ✓ **Dry Running ability:** Designed for 50° C dry running
- ✓ **Effortless starting:** High starting torque - easy starting against heavy solids.
- ✓ **Choke free:** MN/MF range with state of the art wastewater solids handling.

Safety and Protection:

- Moisture switch in connection chamber, motor body and seal housing
- Thermister / bimetallic switch in winding
- Pt100 RTD in winding
- Pt100 RTD in bearings
- Leakage Float switch in oil chamber
- Vibration sensor in motor /pump
- Reverse rotation switch
- Humidity sensor
- Inbuilt contractor
- Pump memory unit

Technical Specification:

Single stage, single suction pumps with overhung non-clogging impeller with stationary as well as portable arrangements

- Mounted on bottom pedestal.
- Duck foot bend with rubber ring joint for water proofing.

Material of Construction

- Grey cast iron
- Bronzes and other CuNickel alloys
- Steel and Stainless steel
- Duplex and super duplex stainless steels
- Inconel, Ni Hard alloy & other exotic materials
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- Other materials as per applications
- Aluminium die cast or Copper single and double bar motors
- PVC insulated/sheathed cables or Rubber insulated and steel meshed cables



Suitable for large solids handling and raw water handling:

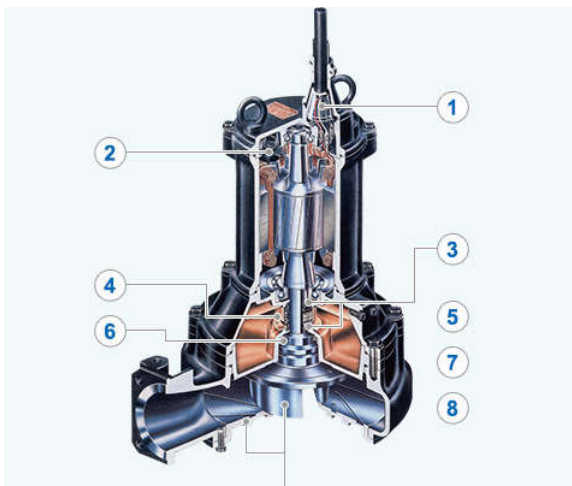
- Sizes : 50 mm to 750 mm (delivery)
- Head : Up to 140 mtrs.
- Capacity : Up to 11000 cum/hr.
- Solid handling upto 12 inch.
- Ambient temperature up to 55°C as standard.
- Custom designs for other parameters & applications.

Applications:

- General water supply
- Cooling tower and power plants
- Canal
- Lift irrigation
- Sewage & solid handling
- Industrial applications

Standars Designs

- Design as per IEC and NEMA MGI engineered according to the customer's specifications and continual improvements with in-house R&D.
- Frame sizes from 132 to 500 and above.
- 2 to 16 Pole designs (design in HT available).
- Voltage : 50hz - 400V, 600V, 3300V & 660V, 60hz - 480V, 3300V & 6600V.
- Horizontal/Vertical mountings.



STANDARD DESIGNS CONFIRMS TO (IEC) GUIDELINES

- Separate sealed terminal box - liberal sizing terminal plate - quick and easy connections of tables.
- High performance values in all mounting arrangements and applications.
- Suitable for frequency converter drives – reliable operation at an extreme speed range.
- Minimum electromagnetic, water-borne structural noise.
- Aerodynamic and acoustic considerations in design. Internal and external forced cooling.
- High quality round enamelled wires. Higher insulation class available.
- Stator impregnated with solvent less resin resulting in good thermal conductivity and high mechanical strength, long life.
- Deep longitudinal fans - Maximum cooling surface area. Cast grooves on lower bearing and seal housing faces - better cooling.
- Unique polyimide based class F, Insulation scheme rated for 155°C with temperature rise limited to class B.

Application:

- Screened Sewage
- Contaminated Effluents
- Storm water
- Dry and wet Pit
- Drain water, Mine water
- Raw Sewage
- Raw water Intake
- Industrial waste water
- Trench & Tunnel water
- Waste water with solids

Range:

- Three phase squirrel cage induction motors
- Frame size : 71 to 550
- Output : 1.1 to 1000 Kw; 2 to 16 pole
- Insulation : Class F/H

- Voltage : 415 v; 460 v, 550 v, 3300 v
- Frequency : 50 Hz; 60 Hz; Duty; S1
- Mounting : Foot mounted and Flange mounted
- Eenclosure : Totally enclosed
- Water Cooled (TewC)

Special Designs:

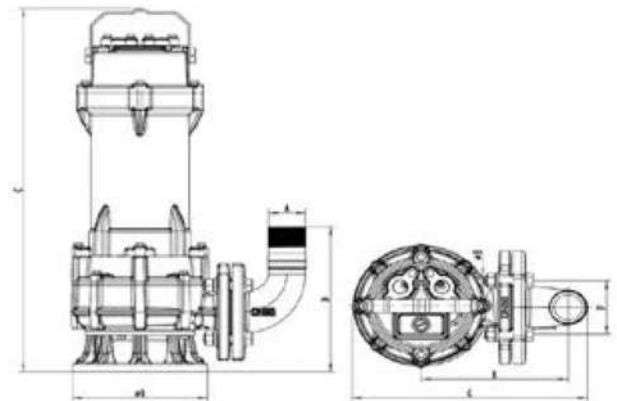
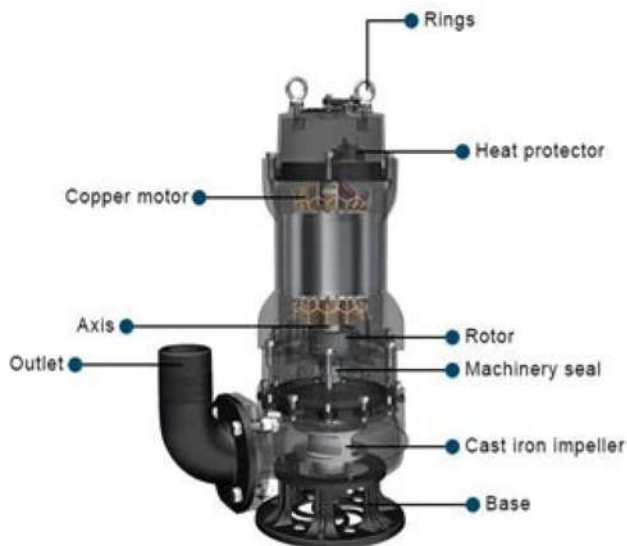
Various custom built designs with explosions proof Type, extra HV protection, internal external cooling systems, special control protection can also be provided.

Paints:

Painted with three part painting scheme to get excellent finish to the motor and protection against corrosion.

Installation Flexibility:

Dual mounting flexibility provided for vertical or horizontal installation





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PROMISES**

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