

Heavy Slurry Lift Submersible Pump "ssew" Series



Heavy Slurry Vp to 2.8 g/cm3



Satisfying Demands With Excellence

HEAVY DUTY SLURRY

SUBMERISBLE PUMP "SSEW" SERIES

LIFTING HOOK

Four Nos. Heavy duty Lifting Hook provided for easy to move and easy to proper handling the pump set.

ROTOR

The "HET" pump uses high quality copper end plates and bars in their rotor that are brazed together where the melting point of the braze is 787°C. its very hight compare to other alluminium rotor rings and is susceptible porosity if die-cast leading to premature rotor failure under severe conditions.

MOTOR-

The "HET" pump motor is "H" Class wire with "H" Class insulation and also motor submerged in oil bath that lubricates and cool the bearing & mechanical Seal also Due to Higher Class winding wire and insulation & Oil cooled motor can give premature motor failure as would be the case if it was standard without oil filled.

COOLING JACKET.

The "HET" pump Cooling Jacket work forced convection ng by the pumped fluid passing around the motor ing before discharge pumped liquid. Due to that on pump to run for extended periods of time even reason pump to run for extended periods of time even if it is run dry in fresh air (when other pumps would overheat and burn out) or even if it is only semi-submerged without over heating. This is an integral part of the design and makes the option of additional motor cooling a redundant

SEMI OPEN IMPELLER.

This feature assists the breakdown of large particles in the impeller that might ultimately lead to a blocked pump. There is little if any chance of the impeller becoming blocked as opposed to closed vane impellers which are often blocked and tend to stay blocked.

AGITATOR/INDUCER "HET" use Agitator / Inducer for mixing and breakdown settle solid and easy to suction from

APPLICATION

Industrial Slurry

casing. Also we care about reduce the bending of shaft when its come with large particle or settle particle we kept close as possible the lower bearing.

The cable has a double sheathed Heavy duty Armoured/ Unarmoured with water proof rubber with more resistant against damage, The IP 68 rated cable with gland seal against both inner & even if the cable is damage if is almost impossible insert water inside the motor

BEARING

Double Ball Bearing at Non-Drive End to give more life when pumping high-specific gravity slurry handling

DISCHARGE OUTLET

"HET " PUMP 100 mm, 150 mm and 200 mm discharge outlet provided with various model & 150 mm & 200 mm outlet are supplied with removable discharge elbow, which are available with rubberline, Ceramic coating as per customer requirement for improved abrasion resistance.

NON-PRESSURISE MECHANICAL SEAL

Provided Non-Pressurise Mech. Seal ,Pressure from the submergence depth only, not the dischpressure on the seal, due to that more life getting of mech. seal . Also Mech. Seal in oil bath & The seal is positioned directly below the lower bearing to give it maximum support and protection from vibration. Additional we provided one more oil seal & strainer for prevent small dust particle to mech. seal

TWIN VOLUTE

To balance the hydraulic load and reducing vibration and extending of life of all parts like pump shaft, mech. seal "HET" use twin casing volute . Also improving performance in slurry application.

> On Request uction Strainer provided Suction Strainer , Thermal Protection inbuilt with pumpset.

"HET" Non-Clog Submersible Slurry Pumps are designed to handle raw water maximum up to 2.8 kg/cm2 . It can handle solids up to 40 mm. Submersible Bottom Suction Pump Range is used in applications where the solid particles in the liquid has already settled out and needs to be agitated before being pumped. The all metal pump const-ruction with High Chrome hydraulic design as standard contribute durability and high ef? iciency. The "HET" pump range can be ? itted with wide variety accessories to accommodate the client's requirements.

SPECIAL FEATURE

- "HET" Motor enclosure prevent electrical motor heating burnout
- "HET" Motor with reserve power for direct online starting when its settled sump solids.
- 'HET" Pump equipped with non-pressurise mechanical seal due to that no effected pump media pressure.
- "HET" Pump equipped with Armoured / Unarmoured Cable as per customer requirement.
- "HET" Pump equipped with agitator / Inducer to break-down and re suspend settle solids at suction area.
- "HET" Pump equipped with motor cooling jacket & "H" Class winding & Copper rotor due to that more efficient and perform batter in heavy slurry application.
- "HET" Pump casing is twin volute design due to that pump pefrom well and due to that avoid vibration effect and run smoothly in heavy slurry application.
- "HET" Pump provided additional feature on request like Thermistor Sensor for against heat protection of motor in dry run condition, Moisture Protection for water ingress in motor.
- "HET" Pump equipped with non-drive end double ball bearing and drive end also double ball bearing or angular contact bearing oversize for extend the motor life in slurry application.
- "HET" Pump wetted part are offer with Ni-Hard material of casing or Tungsten /Ceramic coating (as per application) with Semi open Impeller material with Ni-hard or Hi-Chrome which batter perform and batter life in Slurry application.

MATERIAL OF CONSTRUCTION

- Motor Part : C.I. FG 260 /S.G.Iron/ As per Customer Hi-Chorme / S.S. 410 Harden/ Ni-Hard Impeller
- As per customer requirement. Agitator / Inducer :Hi-Chorme / S.S. 410 Harden/ Ni-Hard
- As per customer requirement. S.G. Iron/ Ni- Hard/ C.I. FG 260 With Casing 3 to 5 % Nickle / As per customer req.
- Shaft S.S. 431/ S.S. 410

: Tungsten Caribide/ Tugsten Carbide Jetty area, Sea water application

Rubber Part : Viton / Nitrile /Silicon or As per req.

Fastner : All faster S.S. 304 or As per req.

Cable Sheatehd Heavy duty water proof.

: Unarmoured/ Armoured type Double

 Sugar Industries, Stone Industries, Other emical & Fertilizer Industries where thick Sludge transfer require.

Mining Area - Coal, Stone, Copper Etc.

where slurry above 1.5 SG, and thick sludge

Power Plant -CHP & AHP Area & Other where slurry above 1.5 SG, and thick sludge

Steel Plant - CHP & AHP Area & Other

- River Sand lifting application
- All other application where slurry particle solid up to 25 to 35 mm & S.G. Gravity above 1.5 and up to 2.8 Kg/cm2.
- Coal Mill, Slag Mill, Blast furness, Salting Plant

ACCESSORIES CONTROL PANEL

: Copper Rotor or As per req.

Motor Winding : "H" Class

Head in Mtr. 55 45 40 35 30 25 DISCHARGE in M3/hr 150 200 250 300 350 400 450 500 550 50 100 600 650 700 750

ACCESSORIES PICTURE

CONTROL PANEL



RUBBERIZED HOSE PIPE



CHAIN WITH LIFTING ARRANGEMENT



TOOL KIT BOX

Heavy Duty Slurry Discharge Hose with operating pressure 7 kg/cm2 ,Synthetic Fabric embedded with Double Helical Wire Coils of 12swg2 standard length - 05 mtr.

"HET" Provided fully automatic control panel with protection of Earth Leakage, Overload Protection, Single Phase protection, Short circuit Protection, Thermal Protection (optional), Dry run protection, Phase failure, Under ,Over voltage protection with Indoor & outdoor both option are available. Additional

"HET" Provided tool-kit on request for preventive & Break down maintenance at site.

Quick Release Couplings

feature also provided on request. **HEAVY DUTY HOSE PIPE**