# Industrial Pump

## Submersible Sewage and Effluent Pumps

Submersible pumps push fluid to the surface as opposed to jet pumps having to pull fluids. Submersibles are more efficient than jet pumps.

A guide-rail system was developed to lift the submersible pump out of the pump station for repair, and ended the dirty and sometimes dangerous task of sending people into the sewage or wet pit. Growth of the submersible pump for sewage pumping since has been dramatic, as an increasing number of specifiers and developers learned of their advantages.

### Technical Specifications

| | |
|---|---|
| Head | : up to 70 mtrs. |
| Capacity | : up to 2000 cu. Mt/ Hr. |
| H.P. | : 1.5 to 200 H.P. |
| Solid Size | : up to 150 mm. |
| RPM | : 2900 / 1450 / 960 |

### Application

- Drainage and sewage system.
- Sludge Waste Water, Storm Water.
- Effluent with slurry and solids.
- Transfer of suspended solids.
- Raw water pumping application.

# Submersible Dewatering Pumps

The main advantage of this type of pump is that it prevents pump cavitation, a problem associated with a high elevation difference between pump and the fluid surface.

Construction dewatering, unwatering, or water control are common terms used to describe removal or draining groundwater or surface water from a riverbed, construction site, caisson, or mine shaft, by pumping or evaporation. On a construction site, this dewatering may be implemented before subsurface excavation for foundations, shoring, or cellar space to lower the water table.

## Technical Specifications

| | |
|---|---|
| Head | : up to 100 mtrs. |
| Capacity | : up to 2000 cu. Mt/Hr |
| Stage | : One / Two |
| Lubrication | : Oil |
| H. P. | : 1.5 to 200 H. P. |
| RPM | : 2900 / 1450 |
| Bearing | : Ball Bearing |

## Application

- Dewatering of Raw water.
- Storm water, Dam site, mines.
- Power stations, Construction sites.
- Cooling water circulation etc.

# Submersible Polder Pumps

Polder pumps are portable pumping units which have pump below and motor above construction. These are powered by squirrel cage induction motor suitable for 400/440 Volts, 3 phase, 50 Hz, AC supply which is totally enclosed. The motor windings are water and oil resistant and ingress of water or moisture inside the motor due to seal failure or other reason will not render the pump inoperative. The pump motor unit of close coupled construction and the double casing design provides effective water cooling of the motor by flowing water around the motor casing. The motor is sealed by special mechanical seal so that the pumping water does not enter the motor chamber and damage the motor. All parts are made from specially selected material and processed to ensure long life under arduous operating condition.

## Technical Specifications

| | | |
|---|---|---|
| Head | : | up to 100 mtrs. |
| Capacity | : | up to 2000 cu. Mt/ Hr. |
| Stage | : | One Two |
| Lubrication | : | Water |
| H.P. | : | 1.5 to 200 H.P. |
| RPM | : | 2900 / 1450 |
| Bearing | : | Bush Bearing |

## Application

- For clear water.
- Dam site.

# Submersible Portable Pumps

## Technical Specifications

| | | |
|---|---|---|
| Head | : | up to 35 mtrs. |
| Capacity | : | up to 150 cu. Mt/ Hr. |
| H.P. | : | 1.5 to 5.0 H.P. |
| Solid Size | : | up to 50 mm |
| RPM | : | 2900 / 1450 |

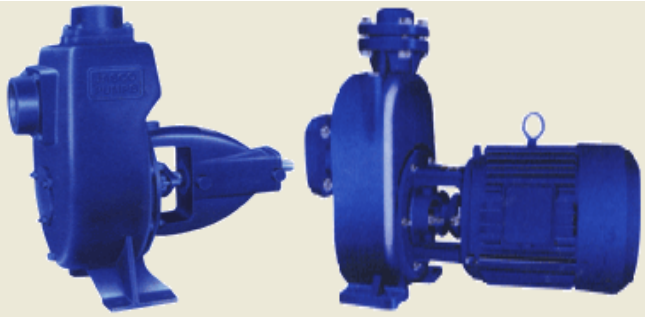
## Application

- Handling all shorts of Industrial waste water.
- Empty of sewage collection tanks. Civil Drainage.
- Handling of kitchen waste in Hotels, Restaurant etc.
- Drainage of Reservoirs, ditches, trenches.
- Construction site, Basement etc.

## Features

- Ultra-compact and lightweight – frees up locker space for other equipment
- Up to 12% smaller and 10% lighter than comparable pumps
- A range of flows to suit different needs such as dewatering, water relay, wildland fire and firefighting
- Priming – exhaust gas ejection or hand priming version (single pressure only)
- Electric starting as standard, with hand start as back-up included

# Self Priming Muddy Water Pumps



## Technical Specifications

| | | |
|---|---|---|
| Head | : | up to 35 mtrs. |
| Capacity | : | up to 75 LPS |
| Solid Size | : | 40 mm |
| Drive | : | Engine / Motor |

## Application

- Where self priming action is required.
- Marine : Pumping water from docks, ports, vessels.
- Industrial : Pumping petroleum products, Chemicals. effluents ash-water, tiles & marbles, filter press etc.
- Civil construction : Dewatering foundations, trenches and pits.
- Mobile Machinery : Cooling water for marine engines and solvents.
- Public utilities : Sewage Pumping.