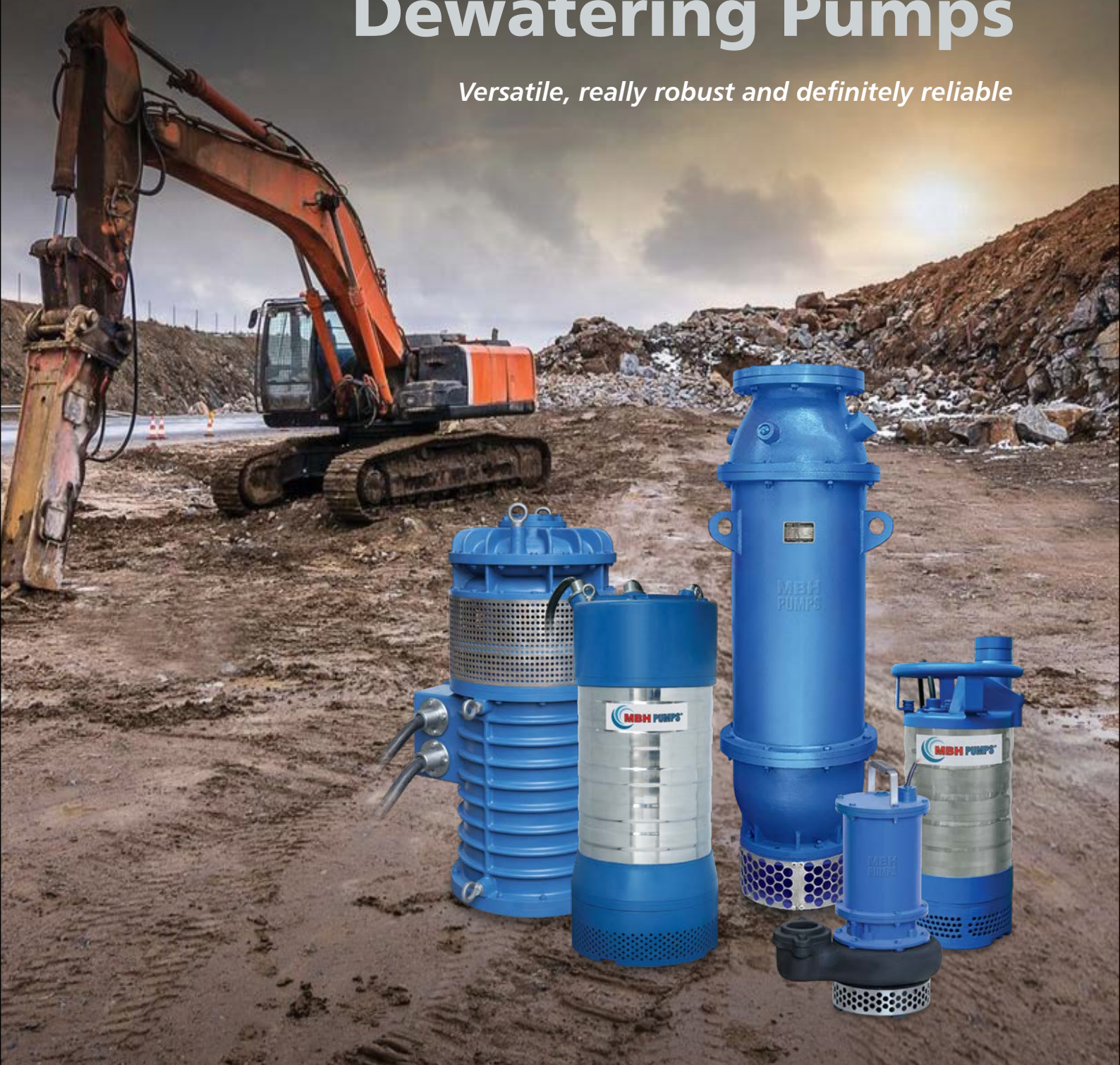


# Submersible Dewatering Pumps

*Versatile, really robust and definitely reliable*



**MBH<sup>®</sup>**  
**PUMPS**



# Waste Water Handling is simple for us

MBH makes Submersible Dewatering pumps operate directly in the liquid being pumped, which means they require neither special housing nor a superstructure to support them, considerably reducing construction costs. They are smaller than non-submersible counterparts as the motor and hydraulics are integrated into one compact unit, resulting in capabilities to pump liquids in complex Places. Operating submerged they take-up less space, noise and cooling problems are virtually eliminated.

With a variety of Dewatering Pumps to choose from, it is easy to find a pump for your needs. The impeller design gives you efficiency and solids handling capability. This helps to ensure smooth operation and delivers savings in terms of maintenance costs and energy consumption.

MBH Pumps dewatering pumps could be found at various projects throughout the world. The most famous ones are the Chennai Metro Rail Complex in (Chennai, India), Hindustan Zinc Mines, (Udaipur, India), Even the Indian Navy uses these pumps to dewater their dry docks. Our DC Series and PST series pumps are perfect solution for domestic, commercial and industrial use, where as our Contractor Pumps and Ni-hard series slurry pumps can handle the most abrasive slurries from infrastructure to power industries.

Also MBH has introduced its corrosion resistance submersible pumps which are best suited for seawater and acidic applications.



## Tough to Beat.

### Robust

All components are made from robust materials for easy maintenance and long life.

### Powerful

The motor is specifically designed for reliable operation in submersible applications and it can run continuously without overheating.

### Durable

Heavy-duty bearings with long life provide peace of mind.

### Environmentally friendly

The cooling system is designed to use its surroundings to cool the pump, no use of environmentally hazardous fluids such as oils.

### Safe and straightforward

Cable entry prevents both cable strain and leakage.

### Consistent

The double mechanical seal provides extra reliability and protects against leakage.

### Flexibility

Drilled pump housing, ready for any installation method.

## Applications

1. Drainage applications at commercial sites like Hotels, Hospitals, Railway stations, Airports, Shopping malls, Garden & parks.
2. Industrial drainage applications like sump dewatering, Boiler blowdown, Cable trench dewatering.
3. Mine Dewatering in underground and open-cast mines.
4. Seawater Dewatering in coastal projects, Industries at sea coasts, Dry docks, Aqua culture.

## Installations

1. Moil Limited : 100 hp (2 units)
2. Bhilai Steel plant : 140 hp (1 unit)
3. Odisha Lift Irrigation Corporation Limited : 200 hp (4 units)
4. Essar Steel Limited : 225 hp (5 units)
5. Torrent Power Limited : 40 hp (6 units)
6. Bokaro Steel Plants : 45 hp (40 units)
7. Steel Authority of India : 45 hp (20 units)
8. NTPC Limited - Shipat : Up to 50 hp (25 units)
9. Hindustan Zinc Limited : 170 hp & 200 hp (8 units)





## Product Range



### HD Series Tough Pumps Dewatering Pumps

**Technical Specifications :**  
 Head : upto 210 meters  
 Capacity : upto 550 m<sup>3</sup>/hr  
 HP : 120  
 Solid Size : upto 15 mm  
 MOC : Cast Iron  
 Frequency : 50 / 60 Hz



### PD Series Submersible Polder Pumps

**Technical Specifications :**  
 Head : upto 110 meters  
 Capacity : upto 1520 m<sup>3</sup>/hr  
 HP : 10 to 200  
 Solid Size : upto 20 mm  
 MOC : Cast Iron  
 Frequency : 50 / 60 Hz



### DCSS Series Corrosion Resistance Dewatering Pump

**Technical Specifications :**  
 Head : upto 80 meters  
 Capacity : upto 200 m<sup>3</sup>/hr  
 HP : 1 to 15  
 Solid Size : upto 10 mm  
 MOC : Stainless steel  
 Frequency : 50 / 60 Hz



### DCAL Series Light Weight Aluminium Dewatering Pumps

**Technical Specifications :**  
 Head : upto 100 meters  
 Capacity : upto 1000 m<sup>3</sup>/hr  
 HP : 1 to 85  
 Solid Size : upto 15 mm  
 MOC : Aluminium with stainless steel  
 Frequency : 50 / 60 Hz



### PSTAL & PST Series Submersible Portable Pumps

**Technical Specifications :**  
 Head : upto 40 meters  
 Capacity : upto 120 m<sup>3</sup>/hr  
 HP : 0.5 to 10  
 Solid Size : upto 35 mm  
 MOC : Cast Iron, Aluminum, Stainless steel  
 Frequency : 50 / 60 Hz





## Design

### Dual Mechanical Seals

Two sets of mechanical shaft seals that work independently for double security. The Sealing system adopted for MBH make submersible pumps, offers increased sealing reliability and zero leakage into the motor, thereby reducing the risk of bearing or stator failure. Seal face - SIC / SIC & Carbon / Chrome steel. For some series pumps, MBH also offers Tungsten carbide seals.

### Cooling Jacket

MBH dewatering pumps are equipped with cooling jacket which helps in dewatering from low lying areas without overheating and motor burning issues. This allows the pump to work in partially submerged or barely submerged condition.

### Anti Wicking Cable Entry

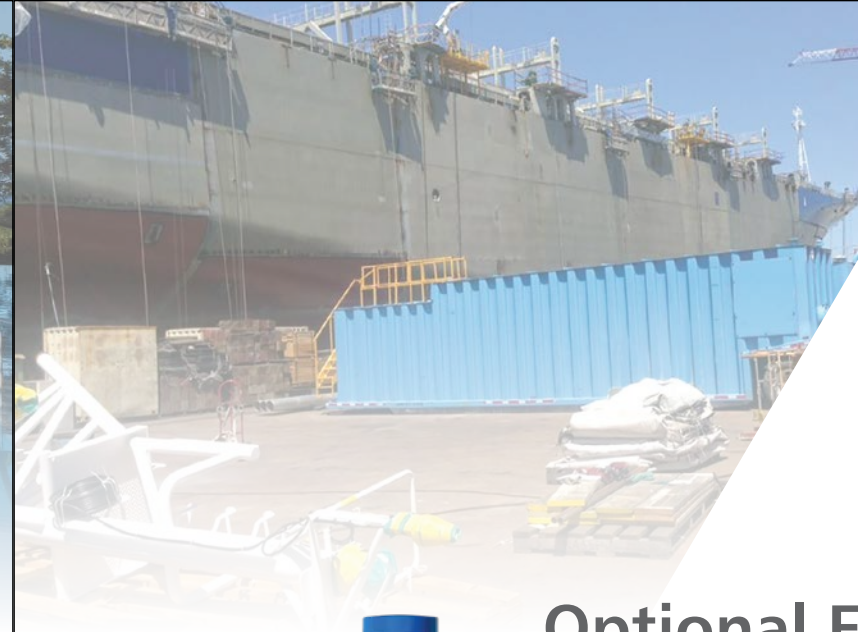
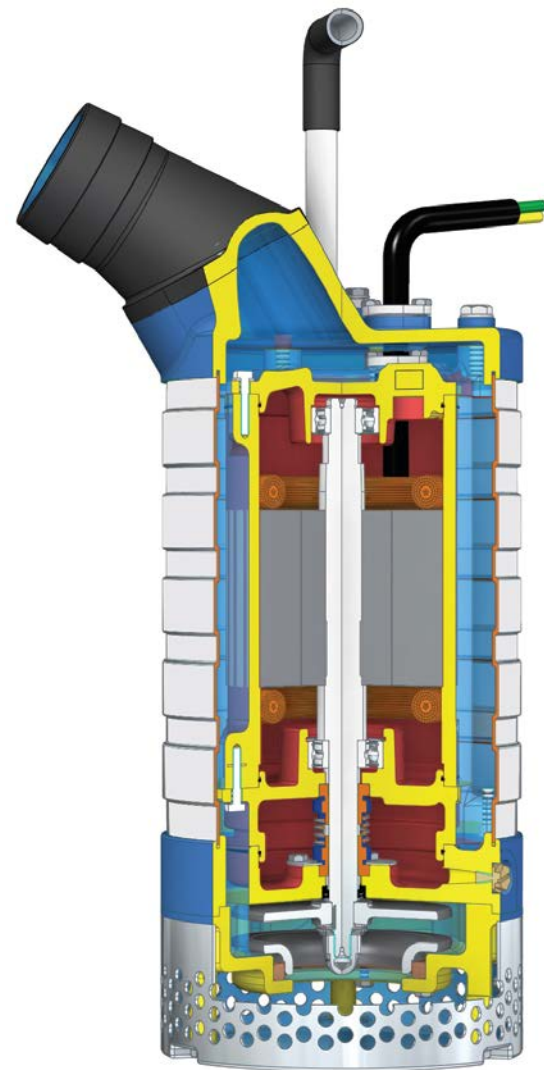
Prevents water incursion due to capillary action should the cable sheath be damaged or the end of cable submerged. Also prevents moist air from infiltrating the motor housing and condensation from forming inside the housing due to temperature differences between the housing and outside air.

### High Wear Resistance Impeller

Resists wear caused by abrasive particles and enables the pump to maintain its original performance for an extended period of time.

### Auto Cut Protector

The Auto-cut Protector will be activated and cut the power off automatically if motor run in abnormal electric current or temperature the protector can revert when the motor temperature returns to normal.



## Optional Features and Accessories

### High Temperature Liquid Handling Capabilities

MBH PUMPS can handle liquid temperature upto 40°C, however motors with H-Class insulation are also available on request which are capable to pump high temperature liquids of up to 90°C.

### High Voltage Version

MBH Pumps can be manufactured to between 380-1000V ratings that are often required for mining applications.

### All Stainless Steel Versions & Aluminum Version

All of the parts of MBH pumps that contact fluid, including the impeller, pump casing, motor frame, strainer stand and hose coupling can be made in 304/316 stainless steel. MBH all stainless steel pumps can handle corrosive fluids generated in mines or quarries and chemical fluids of low pH value. We also produce pumps with all parts in aluminum construction for light weight dewatering solutions.

### External Control Panel

We at MBH, understand the Investment a customer is making in buying our Submersible pumps and for getting optimum output of your investment, we recommend you to opt for our Control Max series control panels.

### All MBH Panels Protect against:

- Earth leakage faults - damage to the cable or pump
- Current overload of the pump
- Phase imbalance - voltage variation of the incoming supply phases
- Phase rotation - to ensure the pump runs in the correct direction
- Phase loss- the loss of one or more of the incoming phases
- Under voltage - if the incoming voltage is too low
- Over voltage - if the incoming voltage is too high

### Other Assesories

Ready to pump kit consist of hose pipe and quick release Coupling



“ Fresh water is becoming increasingly scarce worldwide.  
That is why we consider it as our responsibility to develop pumps  
and systems that can use to obtain and use this precious resource  
in the most efficient way possible – now and in the future.”

*Specifications and performance are subject to change without prior notice.  
Images used are for illustration purpose only.*

**MBH**<sup>®</sup>  
**PUMPS**

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