



**Dewatering Pumps (CAP) Range**

**//////////////////// Autoprime Surface Pumps Solution**

[www.cosmospumps.com](http://www.cosmospumps.com)

# Surface Pumps (CAP Range)


The surface dewatering pumps range are designed and developed to offer high performance, reliability and ease of use across multiple industries for applications like construction and mine site dewatering, removing flood water, and other municipal applications.

At Cosmos Pumps, we understand pumps, their application and most importantly, the people using them. We have a complete range of diesel and electric driven pumps, that offer durability and long life. Modular design offers flexibility in packaging and easy servicing of wear components means less down time and more pumping without stopping.





**UPTO 3.5 inch SOLIDS HANDLING**  
 SP RANGE



**MAX HEAD UPTO 150 mtr.**


**MAX. FLOW UPTO 3500 M<sup>3</sup>/hr**

**HINGE DOOR**  
**003 min CLEAN-UP AND RESTART**

**COMPACT SIZE**  
 with maximum flow

**ROAD TOWING (OPTIONAL)**  


**SOUND PROOF ENCLOSURE (OPTIONAL)**  


**REMOTE MOBILE PHONE LINKED PANEL CONTROLLING (OPTIONAL)**  


## 1. Oil & Gas



Pipelines used to transport crude oil or natural gas must be dewatered to guarantee the quality of the hydrocarbons and prevent the formation of hydrates and protect pipes from internal corrosion.

Ballasting process requires robust high performing pumps which, based on the needs, pumps sea water in and out of the shipyard tank during the loading and unloading of water vessels.

### Application

- Ballasting
- Pipeline hydrostatic test
- Drilling
- Pipeline flushing



## 2. Mining & Quarry



For dewatering applications in the mines post dredging, our pumps offer effective and efficient solutions due to their solids handling capability.

### Application

- Sewage bypass
- Dewatering
- Emergency water treatment



## 3. Municipalities



Municipal public service applications can vary from sewage bypass to wastewater treatment plants to water reclamation centers. When wastewater is being treated, our pumps handle the fluids and solids without clogging or failing.

### Application

- Sewage bypass
- Dewatering
- Emergency water treatment



## 4. Construction



On Construction site, during casting of foundation it becomes critical to avoid water infiltration. Our pumps have got you covered.

### Application

- Site Drainage
- Jetting



## 5. Industry



The effluent produced by different industries should be treated, relaunched or drained. With the availability of different materials for our wet ends, we offer a complete solution.

### Application

- Effluent handling and transporting
- Waste drainage and disposals
- Temporary firefighting protection



## 6. Civil Work



Be it construction of road, dams, bridges, airports or building, site dewatering and drainage, before and during construction work is very important.

### Application

- Sump water removal
- Dewatering



## 7. Flood Control



Our pumps, due to their high performance and portability, are effective to provide quick solutions in case of flood emergency.

### Application

- Emergency



## 8. Rental



Rental application requires robust and long running products. Our start and forget control panels and more than 24 hours fuel autonomy make them ideal for such applications

### Application

- General construction
- Flood controls
- Industry
- Mine and quarry dewatering



## The Auto Priming Pump (CAP Range) comes with following features

- COSMOS PUMPS are designed for both stationery & Potable applications.
- Fully Automatic Priming systems allow the pump Prime and re-prime while running
- Vacuum pump is driven by common prime mover through a belt drive arrangement
- Fully guarded coupling, pulley, and belting
- Pumps are fitted with double mechanical seal.
- Heavy-duty flexible tyre coupling between the prime mover and pump for reliable service.
- Nitrile non-return valve used only a single moving part to allow full flow with minimal restrictions.
- Total assembly is designed with a focus on facilitating modular type replacement of components /equipment, to ensure zero down time.
- Portable Pumps comes with silenced canopy on heavy trolley option also.
- Fuel tank is integrated part of chassis.

## Pump Range

Motor HP	: 20 HP - 500 HP
Pump Head	: 2 mtr. - 150 mtr.
Flow	: upto 3500 m <sup>3</sup> /hr
Size	: upto 500 mm

## Fuel Tank

- Integrated part of chassis,
- MS fabricated with four wheel
- Site trailer or skid mounting with fuel
- Tank capacity of 24 hours runtime.
- Drives :  
Kirloskar make Radiator cooled/ Air Cooled 1500 - 2000 RPM  
ABB/ CGL/ KBL make motor (1450/2900 RPM)



## Priming System

- Flood lubricated rotary vacuum pump of minimum displacement 70 CFM incorporating non-return valve

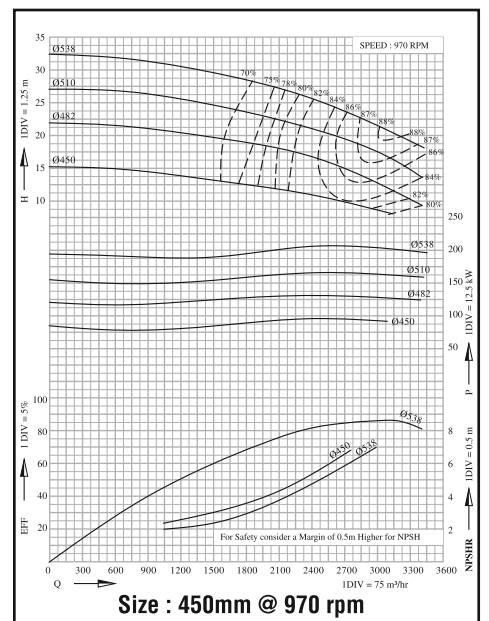
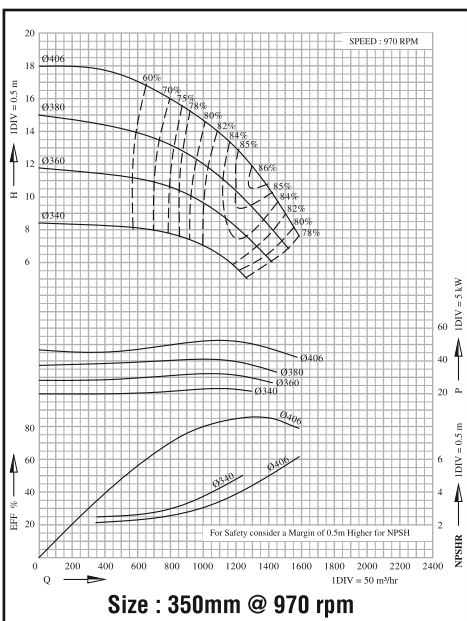
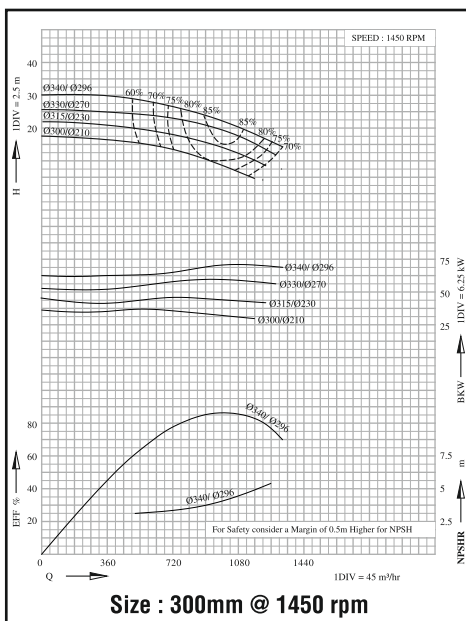
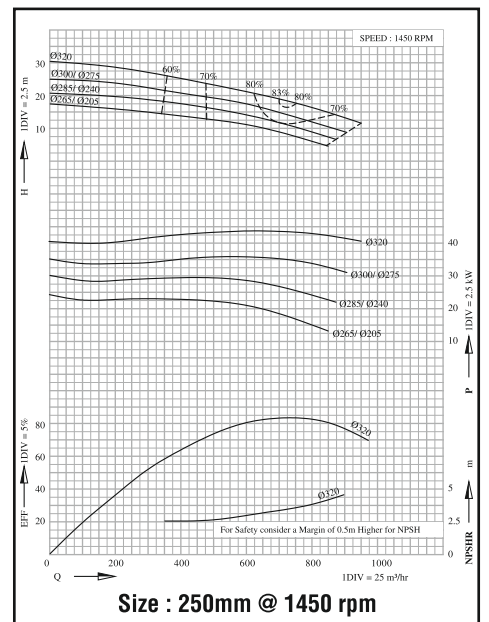
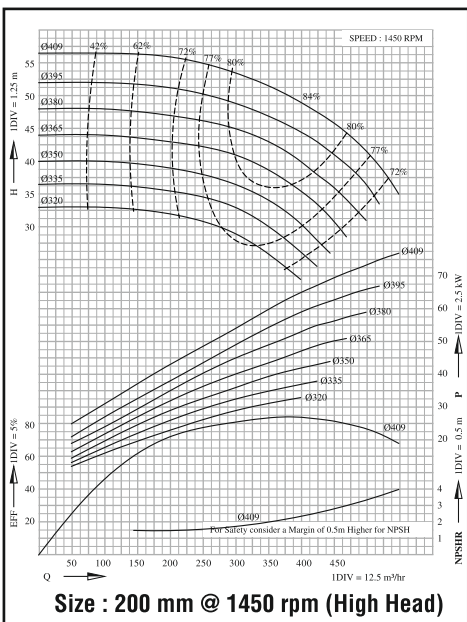
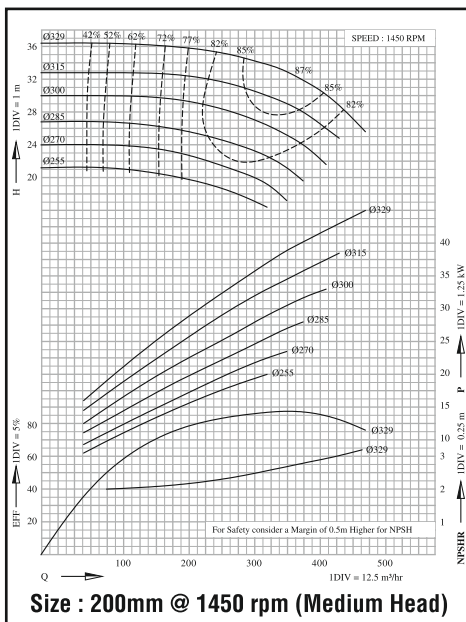
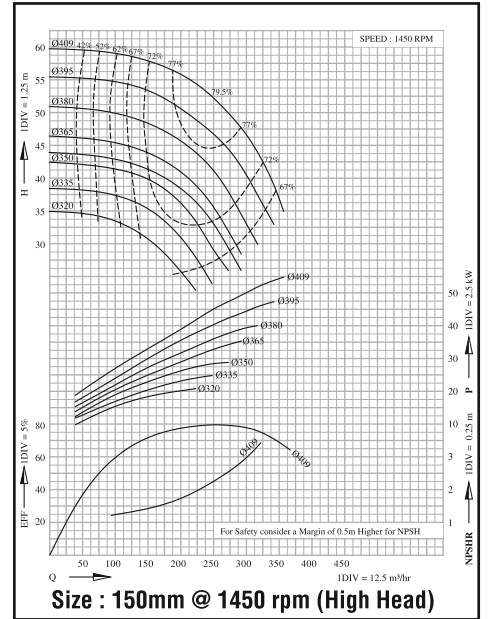
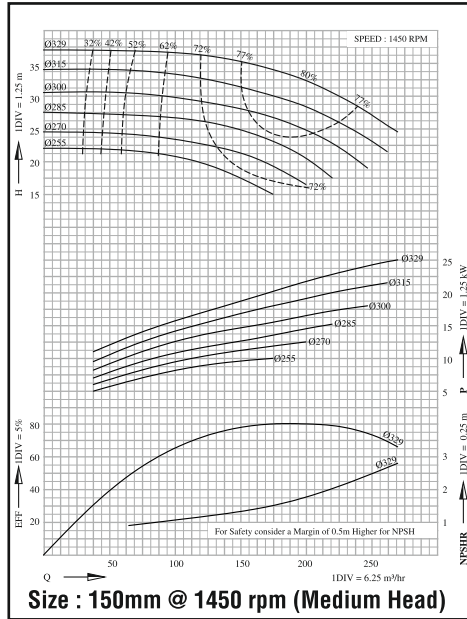
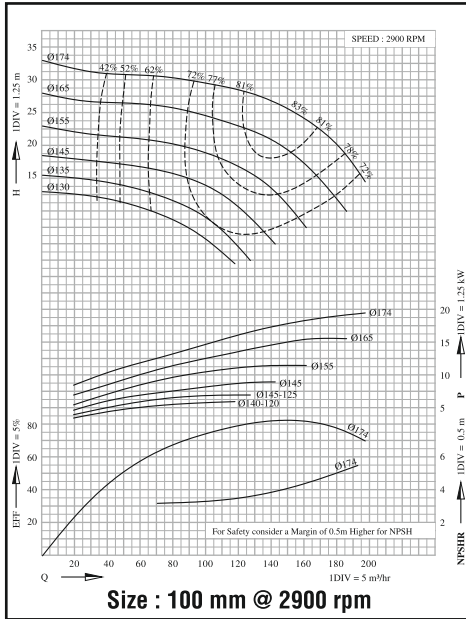
## Shaft Sealing

- Double side Mechanical Seal spring loaded bellow type with oil bath cooling.

## Material of construction

- Impeller & Wear plate : SS316 (CF8M)
- Pump Shaft : SS410
- Volute Casing : CI
- Stuffing Box : CI
- Priming tank & Discharge head : Al/MS
- Vacuum Pump : CI
- N.R.V. : Ball Type Rubber





## PLUG & PLAY

Galvanized steel quick release coupling which makes easy & leak proof connection.

## MODULAR SEALING SOLUTION

Twin SS seal in tandem (TC vs TC) for best sealing against water leakage in abrasive & muddy environments, thus ensuring long life between service intervals.

## EASE OF OPERATION

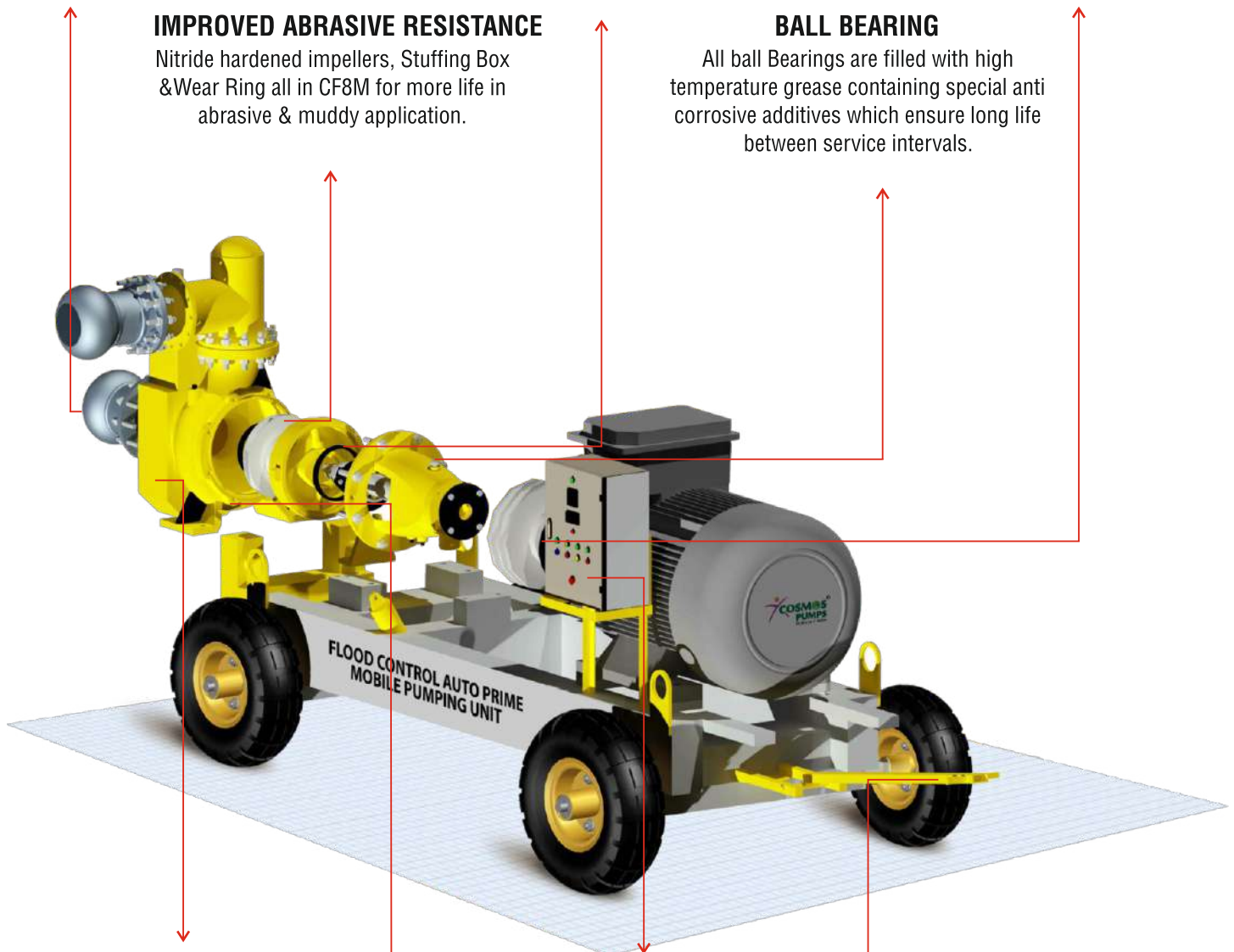
Tyre coupling makes it truly a site pump, performance unaffected on any surface.

## IMPROVED ABRASIVE RESISTANCE

Nitride hardened impellers, Stuffing Box & Wear Ring all in CF8M for more life in abrasive & muddy application.

## BALL BEARING

All ball Bearings are filled with high temperature grease containing special anti corrosive additives which ensure long life between service intervals.



## IMPROVED OXIDATION RESISTANCE

Priming Tank and Discharge Heads are coated with rubber paint from the inside to protect against direct contact with water.

## SAFE TO USE

Outdoor Duty IP62 panel with industrial Contactor & Circuit Breakers Properly dressed Copper thimbles terminated wiring makes it user-friendly.

## MOTOR/ ENGINE COUPLED

Option to couple either with Motor or Engine (Radiator Air cooled) as per the need.

## HIGH CORROSION RESISTANCE

FRP Coated Casing in Cast Iron & Saft in SS 304 for maximum corrosion resistance & life longevity.

## TRULY PORTABLE

Heavy Duty 4 wheeled trolley easy to Tow to multiple site locations in No time.

## AUTO PRIMING

Enable user to run pump with No Down time because of Priming & Re-Priming.

-  Manufacturing Unit
-  Cosmos Office
-  Sales & Service Associates

 Delaware  
United State of America



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