



# CREATIVE ENGINEERS



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## HORIZONTAL AXIALLY SPILT CASING CENTRIFUGAL PUMP "HSC" SERIES

*Single stage , Two Stage and Three Stage*

### Applications and Industries:

- |                               |                         |
|-------------------------------|-------------------------|
| 1. Water supply               | 2. Building Services    |
| 3. Circulating Water Systems  | 4. Paper Mills          |
| 5. Water / Effluent Treatment | 6. Pharmaceuticals      |
| 7. Irrigation                 | 8. Sugar Mills          |
| 9. Ports and Docks            | 10. Vegetable Oil Mills |
| 11. Air Conditioning          | 12. General Industry    |

### Requirements

13. Fire fighting

### Options and Features:

- Horizontal and vertical Execution and Centre Line Suspension
- Gland Pack / Mechanical Seals
- 3 stage HSC Pump with Head up to 170 mtrs and flow up to 350 m<sup>3</sup>/hr for Condensed Extraction.
- Bush Bearing arrangement
- Bearing Cooling arrangement
- High head pumps have Double Volute Casing
- Two stage pump-single entry closed type with Impellers Back to Back

### Range:-

- Capacities :- UP to 18,000 m<sup>3</sup>/hr
- Heads :- UP to 270 m

### Metallurgy:-

- Cast Iron / Bronze Combination
- CF-8M / CA6 NM Combination
- Ductile Steel and other special Metallurgies



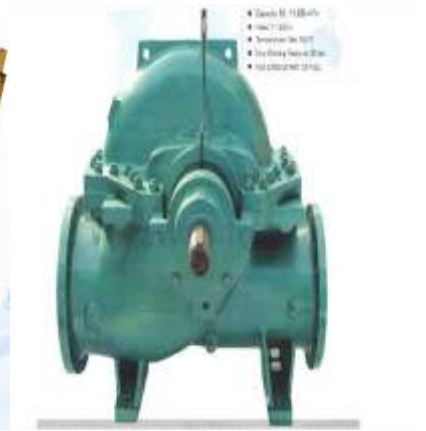
Double Suction Spilt Casing pump



Hsc pump coupled with Motor

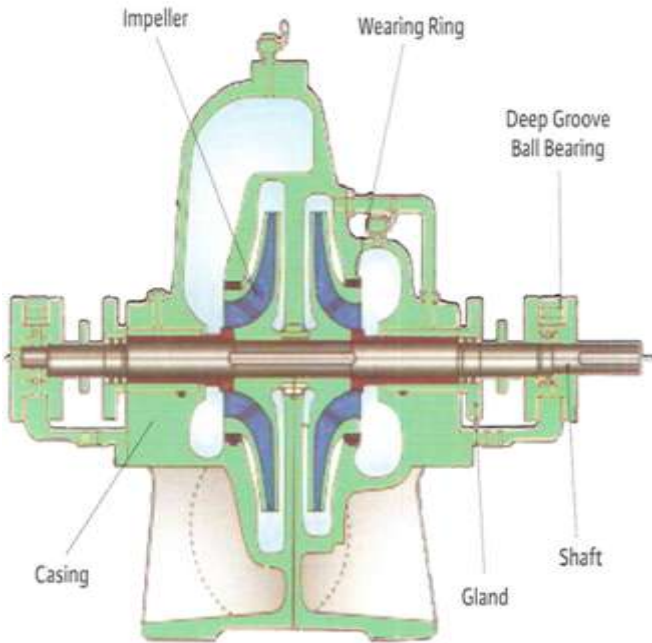


Hsc pump Coupled with Engine

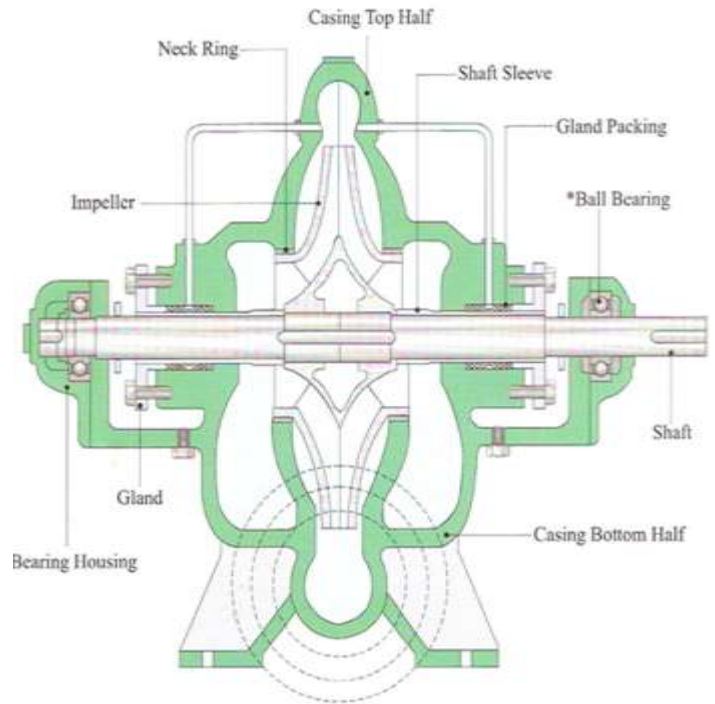


Double Suction Water pump

## **SINGLE STAGE AND TWO STAGE CROSS SECTION DRAWINGS**



TWO STAGE CROSS SECTION DRAWING



SINGLE STAGE CROSS SECTION DRAWING

# LIST OF PARTS

- (1) **CASING :-** Split along the shaft axis. Suction and delivery branches are cast integrally with the fixed hall casing, eliminating the need to break the branch Joints when servicing the pump.
- (2) **IMPELLERS :-** Double entry suction type giving maximum suction performance and hydraulic balance, Impeller vanes are hand finished to template, dynamically balanced.
- (3) **WEAR RINGS :-** Provision is made on the Impeller necks for fitting wear rings.
- (4) **SHAFT :-** Manufactured in high grade material to suit all Imposed stresses. All bearing surfaces are ground to a fine finish. Keyways are provided for Impeller drive.
- (5) **SHAFT SLEEVE :-** Renewable sleeves driven by an extension of the impeller key extend through the stuffing boxes to protect the shaft.
- (6) **STUFFING BOX :-** Conventional packed glands using pre-lubricated cotton packing. Mechanical seal as option can be provided. The gland is split and can easily be removed to provide full accessibility for packing removal A lantern ring is fitted to receive the pumped liquid at delivery pressure to lubricate packing and also to provide a seal to prevent the Ingress of air.
- (7) **FLANGES :-** Drilled to BS standards. Other standards at option
- (8) **DIRECTION OF ROTATION :-** Anti-clockwise from driving end as standard clockwise at special requests.
- (9) **BEARINGS:-** The Bearing housings are carried in rigidly constructed brackets cast integrally with the pump casing and the housings are dowelled to provide positive location. The standard bearing arrangement comprises a roller bearing at the driving end of the pump , and a ball bearing at the non-drive end.
- (10) **ARRANGEMENT:-** The standard range is of horizontal type. However, vertical arrangement is possible on specific cases.